

REDACTED

Data Validation Checklist Inorganic Analyses

Project: 35TH Avenue Superfund Site
 Laboratory: TestAmerica - Savannah, GA
 Method: SW-846 6010C and 7471B
 Matrix: Soil
 Reviewer: Jane Lindsey
 Concurrence¹: Carol Lovett, Martha Meyers-Lee

Project No: 15268508.20000
 Job ID.: 680-88420-3
 Associated Samples: Refer to Attachment A (Sample Summary)
 Date(s) Collected: 03/14/2013
 Date: 04/02/2013
 Date: 04/08/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample preservation requirements met? If pH of aqueous sample >2 and was not adjusted by laboratory prior to analysis, J- flag positive results and R- flag non-detect results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil/sediment samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Have any technical holding times, determined from date of collection to date of analysis, been exceeded? (Hg: ≤28 days, other metals: ≤6 months). If not, then J- flag positive results and R- flag non-detect aqueous results.		✓			
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?		✓		The MDL (0.59 mg/Kg) for arsenic is greater than the Resident Soil RSL (0.39 mg/Kg). A RSL does not exist for total chromium; however, the total chromium MDL (0.5 mg/Kg) is greater than the hexavalent chromium Resident Soil RSL (0.29 mg/Kg).	
8. Were method blank (MB) prepared at the appropriate frequency (one per 20 samples, batch, matrix, and level)?	✓				
9. Was a calibration blank (ICB/CCB) analyzed at the beginning, after every 10 th 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.	

¹ 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. A rinsate blank was not collected during the week of 03/11/2013. Blank contamination will be evaluated based on method blank results.	
12. Were contaminants detected in samples below the blank contamination action level? <ul style="list-style-type: none"> ○ If blank result > RL, • Flag sample results ≤ RL with a U • Flag positive sample results > RL and ≤10x blank result , as J+ positive results ○ If blank result ≤RL, • Flag sample results ≤ RL with a U • Flag positive sample results > RL and ≤10x blank result , as J+ positive results 			✓	Method blank contamination does not exist.	
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"> ○ 6010C: • ICAL: Blank and one standard • ICV initially, and CCV every 10th sample and at the end of the analytical run • Lower Limit of Quantitation Check Sample (CRI) to be analyzed after establishing lower laboratory reporting limits and as needed ○ 7471B: • ICAL: Blank and five standards • ICV initially, and CCV every 10th sample and at the end of the analytical run 	✓			<ul style="list-style-type: none"> • 6010C: 03/19/2013-03/20/2013 and 03/21/2013-03/22/2013, 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 • 7471B: 03/20/2013-03/21/2013. 6-Point ICAL. 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? <ul style="list-style-type: none"> ○ 6010C • ICV/CCV (Criteria: 90-110%R): <ul style="list-style-type: none"> ▪ If %R <75, then J- flag positive results and R-flag non-detects ▪ If 75-89%R, then J- flag positive results and UJ flag non- 	✓			Mercury correlation coefficient for ICAL of 03/20/2013 is 0.9989087 (page 418).	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> detects <ul style="list-style-type: none"> ▪ If 111-125%R, then J flag positive results ▪ If >125%R, then J+ flag positive results ▪ If >160%R, then R flag positive results • 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"> ▪ If CRI %R <50 (<30% for Sb, Pb, TL), then R flag results $\leq 2x$ RL and J flag positive results $>2x$ RL ▪ If CRI %R 50-69% (30-49% for Sb, Pb, TL), then J- and UJ flag positive results $<2x$ RL and ND, respectively ▪ If CRI %R >130% and $\leq 180%$ (>150%, but $\leq 200%$ for Sb, Pb, TL), then J+ flag positive results $<2x$ RL ▪ If CRI %R >180% (>200% for Sb, Pb, TL), then R flag positive results ○ 7471B • ICV/CCV (Criteria: 80-120%R): <ul style="list-style-type: none"> ▪ If correlation coefficients <0.995, then J and UJ flag positive and non-detect results. ▪ If %R <65, then J- flag positive results and R-flag non-detects ▪ If 65-79%R, then J- flag positive results and UJ flag non-detects ▪ If 121-135%R, then J flag positive results ▪ If >135%R, then J+ flag positive results ▪ If >170%R, then R flag positive results • CRI (Method: Not required, Laboratory: 50-150%R, Project: 70-130%R): <ul style="list-style-type: none"> ▪ If CRI %R <50, then R flag results $\leq 2x$ RL and J flag positive results $>2x$ RL ▪ If CRI %R 50-69%, then J- and UJ flag positive results $<2x$ RL and ND, respectively ▪ If CRI %R >130% and $\leq 180%$, then J+ flag positive results $<2x$ RL ▪ If CRI %R >180%, then R flag positive result 					
<p>18. Was the interference check sample (ICS) analyzed at the beginning of each ICP analytical run?</p>	✓				
<p>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:</p> <ul style="list-style-type: none"> ○ If >120%R (or >true value plus 2x CRQL), J+ flag positive results ○ If 50-79%R (or less than true value – 2x the CRQL), J- flag 	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
positive results and UJ flag non-detects o If <50%R, J- flag positive results and R-flag non-detects					
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? o Soil: • LCS result > Upper control limit (UCL): J+ flag positive results • LCS result < Lower control limit (LCL): J- flag positive results and UJ flag non-detects o Aqueous: • If <50%R, then J- and R flag positive and ND results, respectively • If 50-LCL%R, J- and UJ flag positive and ND results, respectively • >UCL: J+ Flag positive results • >150%R: R Flag results	✓				
22. Was the RPD between LCS and LCSD results within method/laboratory /project control limits (<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"> • 6010C: <ul style="list-style-type: none"> o Prep Batch 269729: 680-88420-12 (CV1151A-CS-SP), MS/MSD o Prep Batch 269879: 680-88401-16 (Batch sample), MS/MSD • 7471B, Prep Batch 269772: 680-88420-12 (CV1151A-CS-SP), MS/MSD 	
25. Was a post-digestion spike (PDS) analysis conducted when MS and/or MSD results did not meet control limits (Note: PDS is not required for silver)?		✓		6010C: 680-88401-16 (Batch sample) and 680-88339-7 (Batch sample). A PDS analysis was not conducted for 680-88420-12 (CV1151A-CS-SP) even though MS and MSD results did not meet control limits.	
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? Only QC results for project samples that are reported under this		✓		CV1151A-CS-SP (680-88420-12) [Note: PDS analysis not conducted]: <ul style="list-style-type: none"> • Arsenic @ 122 and 72%R (75-125). An evaluation of interference is not possible². • Barium @ -248 and 783%R (75-125). An evaluation of interference is not possible². 	

² The native sample concentration is greater than 4x the MS/MSD spiking level.

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<p><i>Job ID are evaluated.</i></p> <p>If not,</p> <ul style="list-style-type: none"> ○ 6010C: <ul style="list-style-type: none"> • If MS %R <30 and PDS %R <75, then J- and R Flag positive and ND results, respectively • If MS %R <30 and PDS %R >75, then J flag positive and UJ flag non-detect results • If MS and MSD %R 30-74 and PDS%R <75, then J- flag positive and UJ flag non-detect results • If MS and MSD %R 30-74 and PDS%R ≥75, then J flag positive and UJ flag non-detect results • If MS, MSD, and PDS %R >125, J+ flag positive results • If MS and MSD %R >125 and PDS %R ≤125, then J flag positive results • If MS and MSD %R <30 and no PDS, then J- flag positive and R-flag non-detect results • If MS and MSD %R 30-74 and no PDS, then J- and UJ flag positive and non-detect results, respectively • If MS and MSD %R >125 and no PDS, then J+ flag positive results ○ 7471B: <ul style="list-style-type: none"> • If MS %R <30, then J- and R Flag positive and ND results, respectively • If MS and MSD %R 30-74, then J- flag positive and UJ flag non-detect results • If MS and MSD %R >125, then J+ flag positive results 				<ul style="list-style-type: none"> • Chromium @ 6 and 45%R (75-125). An evaluation of interference is not possible². • Lead @ 919 and 893%R (75-125). An evaluation of interference is not possible². 	
<p>27. Were laboratory/project (≤20%RPD) criteria met for precision during the MS and MSD analysis? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i></p> <ul style="list-style-type: none"> ○ If RPD >20%, J and UJ flag positive and non-detect results. 		✓		CV1151A-CS-SP (680-88420-12): Barium MS/MSD RPD @ 37% (≤20). An evaluation of interference is not possible ² .	
28. Was a serial dilution conducted for 6010C?		✓			
29. Is the serial dilution parent sample a project-specific sample?		✓		6010C: 680-88401-16 (Batch sample) and 680-88339-7 (Batch sample).	
<p>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></p> <ul style="list-style-type: none"> ○ If %D >10, J and UJ flag positive and non-detect results, respectively. 			✓		

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
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 are evaluated.</i> <ul style="list-style-type: none"> o If RPD values >20% (35% for soil/sediment) or absolute difference > RL (2x RL for soil/sediment), then J and UJ flag positive and non-detect results, respectively 			✓		
34. Were lab comments included in report? If yes, summarize contents or attach a copy of the narrative.	✓			Refer to Attachment B (Case Narrative)	
<p>Comments: 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 (Attachment C). 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: 680-88420-3
SDG: 68088420-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88420-12	CV1151A-CS-SP	Solid	03/14/13 11:19	03/16/13 09:20
680-88420-26	CV0865B-CS-SP	Solid	03/14/13 13:22	03/16/13 09:20
680-88420-29	CV0766A-CS-SP	Solid	03/14/13 14:21	03/16/13 09:20
680-88420-32	CV1151A-CS-SP SIEVED	Solid	03/14/13 11:19	03/16/13 09:20
680-88420-33	CV0865B-CS-SP SIEVED	Solid	03/14/13 13:22	03/16/13 09:20
680-88420-34	CV0766A-CS-SP SIEVED	Solid	03/14/13 14:21	03/16/13 09:20

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ATTACHMENT B

CASE NARRATIVE

Case Narrative

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

TestAmerica Job ID: 680-88420-3
SDG: 68088420-3

Job ID: 680-88420-3

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88420-3

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 03/16/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.4 C.

METALS (ICP)

Samples CV1151A-CS-SP (680-88420-12), CV0865B-CS-SP (680-88420-26), CV0766A-CS-SP (680-88420-29), CV1151A-CS-SP SIEVED (680-88420-32), CV08658-CS-SP SIEVED (680-88420-33) and CV0766A-CS-SP SIEVED (680-88420-34) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 03/18/2013 and 03/20/2013 and analyzed on 03/19/2013 and 03/21/2013.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-88401-16 in batch 680-270285. Barium and Lead exceeded the rpd limit.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV1151A-CS-SP (680-88420-12) in batch 680-270010. Also, Barium exceeded the rpd limit.

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

The serial dilution performed for the following sample(s) associated with batch 680-269729 was outside control limits for aluminum, barium, calcium, iron, manganese, manganese, lead, vanadium, and zinc: (680-88339-7 SD)

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples CV1151A-CS-SP (680-88420-12), CV0865B-CS-SP (680-88420-26), CV0766A-CS-SP (680-88420-29), CV1151A-CS-SP SIEVED (680-88420-32), CV08658-CS-SP SIEVED (680-88420-33) and CV0766A-CS-SP SIEVED (680-88420-34) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 03/18/2013 and analyzed on 03/20/2013.

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

ATTACHMENT C
QUALIFIED SAMPLE RESULTS

Client Sample Results

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

TestAmerica Job ID: 680-88420-3
 SDG: 68088420-3

Client Sample ID: CV1151A-CS-SP

Lab Sample ID: 680-88420-12

Date Collected: 03/14/13 11:19

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 78.0

Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	45		2.2	0.66	mg/Kg	☼	03/18/13 13:13	03/19/13 18:12	1
Barium	280		1.1	0.33	mg/Kg	☼	03/18/13 13:13	03/19/13 18:12	1
Cadmium	3.1		0.56	0.11	mg/Kg	☼	03/18/13 13:13	03/19/13 18:12	1
Chromium	73		1.1	0.56	mg/Kg	☼	03/18/13 13:13	03/19/13 18:12	1
Lead	360		1.1	0.59	mg/Kg	☼	03/18/13 13:13	03/19/13 18:12	1
Selenium	2.8	U	2.8	1.1	mg/Kg	☼	03/18/13 13:13	03/19/13 18:12	1
Silver	0.53	J	1.1	0.11	mg/Kg	☼	03/18/13 13:13	03/19/13 18:12	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	0.34		0.023	0.0094	mg/Kg	☼	03/18/13 16:37	03/20/13 16:28	1

Client Sample ID: CV0865B-CS-SP

Lab Sample ID: 680-88420-26

Date Collected: 03/14/13 13:22

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 83.4

Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	19		2.1	0.60	mg/Kg	☼	03/18/13 13:13	03/19/13 18:39	1
Barium	250		1.0	0.31	mg/Kg	☼	03/18/13 13:13	03/19/13 18:39	1
Cadmium	2.5		0.51	0.10	mg/Kg	☼	03/18/13 13:13	03/19/13 18:39	1
Chromium	38		1.0	0.51	mg/Kg	☼	03/18/13 13:13	03/19/13 18:39	1
Lead	230		1.0	0.54	mg/Kg	☼	03/18/13 13:13	03/19/13 18:39	1
Selenium	2.6	U	2.6	1.0	mg/Kg	☼	03/18/13 13:13	03/19/13 18:39	1
Silver	0.16	J	1.0	0.098	mg/Kg	☼	03/18/13 13:13	03/19/13 18:39	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.38		0.023	0.0095	mg/Kg	☼	03/18/13 16:37	03/20/13 16:40	1

Client Sample ID: CV0766A-CS-SP

Lab Sample ID: 680-88420-29

Date Collected: 03/14/13 14:21

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 70.7

Method: 6010C - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	29		2.5	0.75	mg/Kg	☼	03/18/13 13:13	03/19/13 18:44	1
Barium	530		1.3	0.38	mg/Kg	☼	03/18/13 13:13	03/19/13 18:44	1
Cadmium	1.8		0.64	0.13	mg/Kg	☼	03/18/13 13:13	03/19/13 18:44	1
Chromium	37		1.3	0.64	mg/Kg	☼	03/18/13 13:13	03/19/13 18:44	1
Lead	340		1.3	0.67	mg/Kg	☼	03/18/13 13:13	03/19/13 18:44	1
Selenium	1.3	J	3.2	1.3	mg/Kg	☼	03/18/13 13:13	03/19/13 18:44	1
Silver	1.9		1.3	0.12	mg/Kg	☼	03/18/13 13:13	03/19/13 18:44	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.37		0.028	0.011	mg/Kg	☼	03/18/13 16:37	03/20/13 16:42	1

TestAmerica Savannah

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

Client Sample Results

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

TestAmerica Job ID: 680-88420-3
 SDG: 68088420-3

Client Sample ID: CV1151A-CS-SP SIEVED

Lab Sample ID: 680-88420-32

Date Collected: 03/14/13 11:19

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 99.5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	29		1.8	0.52	mg/Kg	☐	03/20/13 07:22	03/21/13 13:23	1
Barium	260		0.88	0.26	mg/Kg	☐	03/20/13 07:22	03/21/13 13:23	1
Cadmium	4.2		0.44	0.088	mg/Kg	☐	03/20/13 07:22	03/21/13 13:23	1
Chromium	41		0.88	0.44	mg/Kg	☐	03/20/13 07:22	03/21/13 13:23	1
Lead	530		0.88	0.47	mg/Kg	☐	03/20/13 07:22	03/21/13 13:23	1
Selenium	2.2	U	2.2	0.88	mg/Kg	☐	03/20/13 07:22	03/21/13 13:23	1
Silver	0.87	J	0.88	0.085	mg/Kg	☐	03/20/13 07:22	03/21/13 13:23	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	0.28		0.018	0.0075	mg/Kg	☐	03/18/13 16:37	03/20/13 16:45	1

Client Sample ID: CV08658-CS-SP SIEVED

Lab Sample ID: 680-88420-33

Date Collected: 03/14/13 13:22

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 92.7

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	17		2.0	0.59	mg/Kg	☐	03/20/13 07:22	03/21/13 13:28	1
Barium	280		1.0	0.30	mg/Kg	☐	03/20/13 07:22	03/21/13 13:28	1
Cadmium	3.0		0.50	0.10	mg/Kg	☐	03/20/13 07:22	03/21/13 13:28	1
Chromium	51		1.0	0.50	mg/Kg	☐	03/20/13 07:22	03/21/13 13:28	1
Lead	310		1.0	0.53	mg/Kg	☐	03/20/13 07:22	03/21/13 13:28	1
Selenium	2.5	U	2.5	1.0	mg/Kg	☐	03/20/13 07:22	03/21/13 13:28	1
Silver	0.14	J	1.0	0.097	mg/Kg	☐	03/20/13 07:22	03/21/13 13:28	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	0.43		0.019	0.0079	mg/Kg	☐	03/18/13 16:37	03/20/13 16:47	1

Client Sample ID: CV0766A-CS-SP SIEVED

Lab Sample ID: 680-88420-34

Date Collected: 03/14/13 14:21

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 85.6

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	29		2.3	0.68	mg/Kg	☐	03/20/13 07:22	03/21/13 13:34	1
Barium	500		1.1	0.34	mg/Kg	☐	03/20/13 07:22	03/21/13 13:34	1
Cadmium	1.8		0.57	0.11	mg/Kg	☐	03/20/13 07:22	03/21/13 13:34	1
Chromium	42		1.1	0.57	mg/Kg	☐	03/20/13 07:22	03/21/13 13:34	1
Lead	360		1.1	0.61	mg/Kg	☐	03/20/13 07:22	03/21/13 13:34	1
Selenium	2.9	U	2.9	1.1	mg/Kg	☐	03/20/13 07:22	03/21/13 13:34	1
Silver	0.21	J	1.1	0.11	mg/Kg	☐	03/20/13 07:22	03/21/13 13:34	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	0.35		0.021	0.0087	mg/Kg	☐	03/18/13 16:37	03/20/13 16:50	1

TestAmerica Savannah

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



ANALYTICAL REPORT

Job Number: 680-88420-3

SDG Number: 68088420-3

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
3/27/2013 9:41 AM

Designee for
Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com
03/27/2013

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

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88420-3

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 03/16/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.4 C.

METALS (ICP)

Samples CV1151A-CS-SP (680-88420-12), CV0865B-CS-SP (680-88420-26), CV0766A-CS-SP (680-88420-29), CV1151A-CS-SP SIEVED (680-88420-32), CV08658-CS-SP SIEVED (680-88420-33) and CV0766A-CS-SP SIEVED (680-88420-34) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 03/18/2013 and 03/20/2013 and analyzed on 03/19/2013 and 03/21/2013.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-88401-16 in batch 680-270285. Barium and Lead exceeded the rpd limit.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV1151A-CS-SP (680-88420-12) in batch 680-270010. Also, Barium exceeded the rpd limit.

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

The serial dilution performed for the following sample(s) associated with batch 680-269729 was outside control limits for aluminum, barium, calcium, iron, manganese, manganese, lead, vanadium, and zinc: (680-88339-7 SD)

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples CV1151A-CS-SP (680-88420-12), CV0865B-CS-SP (680-88420-26), CV0766A-CS-SP (680-88420-29), CV1151A-CS-SP SIEVED (680-88420-32), CV08658-CS-SP SIEVED (680-88420-33) and CV0766A-CS-SP SIEVED (680-88420-34) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 03/18/2013 and analyzed on 03/20/2013.

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: 680-88420-3
Sdg Number: 68088420-3

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-88420-12	CV1151A-CS-SP	Solid	03/14/2013 1119	03/16/2013 0920
680-88420-12MS	CV1151A-CS-SP	Solid	03/14/2013 1119	03/16/2013 0920
680-88420-12MSD	CV1151A-CS-SP	Solid	03/14/2013 1119	03/16/2013 0920
680-88420-26	CV0865B-CS-SP	Solid	03/14/2013 1322	03/16/2013 0920
680-88420-29	CV0766A-CS-SP	Solid	03/14/2013 1421	03/16/2013 0920
680-88420-32	CV1151A-CS-SP SIEVED	Solid	03/14/2013 1119	03/16/2013 0920
680-88420-33	CV08658-CS-SP SIEVED	Solid	03/14/2013 1322	03/16/2013 0920
680-88420-34	CV0766A-CS-SP SIEVED	Solid	03/14/2013 1421	03/16/2013 0920

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88420-3

Sdg Number: 68088420-3

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Metals (ICP)	TAL SAV	SW846 6010C	
Preparation, Metals	TAL SAV		SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	TAL SAV	SW846 7471B	
Preparation, Mercury	TAL SAV		SW846 7471B
Percent Moisture	TAL 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: 680-88420-3

Sdg Number: 68088420-3

Method	Analyst	Analyst ID
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: 680-88420-3

Sdg Number: 68088420-3

Lab Section	Qualifier	Description
Metals	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	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: 680-88420-3

Sdg Number: 68088420-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
Metals					
Prep Batch: 680-269729					
LCS 680-269729/3-A	Lab Control Sample	T	Solid	3050B	
MB 680-269729/1-A	Method Blank	T	Solid	3050B	
680-88420-12	CV1151A-CS-SP	T	Solid	3050B	
680-88420-12MS	Matrix Spike	T	Solid	3050B	
680-88420-12MSD	Matrix Spike Duplicate	T	Solid	3050B	
680-88420-26	CV0865B-CS-SP	T	Solid	3050B	
680-88420-29	CV0766A-CS-SP	T	Solid	3050B	
Prep Batch: 680-269772					
LCS 680-269772/2-A	Lab Control Sample	T	Solid	7471B	
MB 680-269772/1-A	Method Blank	T	Solid	7471B	
680-88420-12	CV1151A-CS-SP	T	Solid	7471B	
680-88420-12MS	Matrix Spike	T	Solid	7471B	
680-88420-12MSD	Matrix Spike Duplicate	T	Solid	7471B	
680-88420-26	CV0865B-CS-SP	T	Solid	7471B	
680-88420-29	CV0766A-CS-SP	T	Solid	7471B	
680-88420-32	CV1151A-CS-SP SIEVED	T	Solid	7471B	
680-88420-33	CV08658-CS-SP SIEVED	T	Solid	7471B	
680-88420-34	CV0766A-CS-SP SIEVED	T	Solid	7471B	
Prep Batch: 680-269879					
LCS 680-269879/2-A	Lab Control Sample	T	Solid	3050B	
MB 680-269879/1-A	Method Blank	T	Solid	3050B	
680-88401-B-16-H MS	Matrix Spike	T	Solid	3050B	
680-88401-B-16-I MSD	Matrix Spike Duplicate	T	Solid	3050B	
680-88420-32	CV1151A-CS-SP SIEVED	T	Solid	3050B	
680-88420-33	CV08658-CS-SP SIEVED	T	Solid	3050B	
680-88420-34	CV0766A-CS-SP SIEVED	T	Solid	3050B	
Analysis Batch:680-270010					
LCS 680-269729/3-A	Lab Control Sample	T	Solid	6010C	680-269729
MB 680-269729/1-A	Method Blank	T	Solid	6010C	680-269729
680-88420-12	CV1151A-CS-SP	T	Solid	6010C	680-269729
680-88420-12MS	Matrix Spike	T	Solid	6010C	680-269729
680-88420-12MSD	Matrix Spike Duplicate	T	Solid	6010C	680-269729
680-88420-26	CV0865B-CS-SP	T	Solid	6010C	680-269729
680-88420-29	CV0766A-CS-SP	T	Solid	6010C	680-269729

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88420-3

Sdg Number: 68088420-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:680-270183					
LCS 680-269772/2-A	Lab Control Sample	T	Solid	7471B	680-269772
MB 680-269772/1-A	Method Blank	T	Solid	7471B	680-269772
680-88420-12	CV1151A-CS-SP	T	Solid	7471B	680-269772
680-88420-12MS	Matrix Spike	T	Solid	7471B	680-269772
680-88420-12MSD	Matrix Spike Duplicate	T	Solid	7471B	680-269772
680-88420-26	CV0865B-CS-SP	T	Solid	7471B	680-269772
680-88420-29	CV0766A-CS-SP	T	Solid	7471B	680-269772
680-88420-32	CV1151A-CS-SP SIEVED	T	Solid	7471B	680-269772
680-88420-33	CV08658-CS-SP SIEVED	T	Solid	7471B	680-269772
680-88420-34	CV0766A-CS-SP SIEVED	T	Solid	7471B	680-269772
Analysis Batch:680-270285					
LCS 680-269879/2-A	Lab Control Sample	T	Solid	6010C	680-269879
MB 680-269879/1-A	Method Blank	T	Solid	6010C	680-269879
680-88401-B-16-H MS	Matrix Spike	T	Solid	6010C	680-269879
680-88401-B-16-I MSD	Matrix Spike Duplicate	T	Solid	6010C	680-269879
680-88420-32	CV1151A-CS-SP SIEVED	T	Solid	6010C	680-269879
680-88420-33	CV08658-CS-SP SIEVED	T	Solid	6010C	680-269879
680-88420-34	CV0766A-CS-SP SIEVED	T	Solid	6010C	680-269879

Report Basis

T = Total

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88420-3

Sdg Number: 68088420-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-135607					
LCS 660-135607/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-135607/13	Lab Control Sample Duplicate	T	Solid	Moisture	
680-88420-12	CV1151A-CS-SP	T	Solid	Moisture	
680-88420-12MS	Matrix Spike	T	Solid	Moisture	
680-88420-12MSD	Matrix Spike Duplicate	T	Solid	Moisture	
Analysis Batch:660-135642					
LCS 660-135642/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-135642/12	Lab Control Sample Duplicate	T	Solid	Moisture	
680-88420-26	CV0865B-CS-SP	T	Solid	Moisture	
680-88420-26MS	Matrix Spike	T	Solid	Moisture	
680-88420-26MSD	Matrix Spike Duplicate	T	Solid	Moisture	
Analysis Batch:660-135659					
MB 660-135659/1	Method Blank	T	Solid	Moisture	
680-88420-29	CV0766A-CS-SP	T	Solid	Moisture	
Analysis Batch:680-269742					
680-88401-C-16 MS	Matrix Spike	T	Solid	Moisture	
680-88401-C-16 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88420-32	CV1151A-CS-SP SIEVED	T	Solid	Moisture	
680-88420-33	CV08658-CS-SP SIEVED	T	Solid	Moisture	
680-88420-34	CV0766A-CS-SP SIEVED	T	Solid	Moisture	

Report Basis

T = Total

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Savannah Job Number: 680-88420-3

SDG No.: 68088420-3

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
<u>CV1151A-CS-SP</u>	<u>680-88420-12</u>
<u>CV0865B-CS-SP</u>	<u>680-88420-26</u>
<u>CV0766A-CS-SP</u>	<u>680-88420-29</u>
<u>CV1151A-CS-SP SIEVED</u>	<u>680-88420-32</u>
<u>CV08658-CS-SP SIEVED</u>	<u>680-88420-33</u>
<u>CV0766A-CS-SP SIEVED</u>	<u>680-88420-34</u>

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV1151A-CS-SP Lab Sample ID: 680-88420-12
 Lab Name: TestAmerica Savannah Job No.: 680-88420-3
 SDG ID.: 68088420-3
 Matrix: Solid Date Sampled: 03/14/2013 11:19
 Reporting Basis: DRY Date Received: 03/16/2013 09:20
 % Solids: 78.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	45	2.2	0.66	mg/Kg			1	6010C
7440-39-3	Barium	280	1.1	0.33	mg/Kg			1	6010C
7440-43-9	Cadmium	3.1	0.56	0.11	mg/Kg			1	6010C
7440-47-3	Chromium	73	1.1	0.56	mg/Kg			1	6010C
7439-92-1	Lead	360	1.1	0.59	mg/Kg			1	6010C
7782-49-2	Selenium	2.8	2.8	1.1	mg/Kg	U		1	6010C
7440-22-4	Silver	0.53	1.1	0.11	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.34	0.023	0.0094	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0865B-CS-SP Lab Sample ID: 680-88420-26
 Lab Name: TestAmerica Savannah Job No.: 680-88420-3
 SDG ID.: 68088420-3
 Matrix: Solid Date Sampled: 03/14/2013 13:22
 Reporting Basis: DRY Date Received: 03/16/2013 09:20
 % Solids: 83.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	19	2.1	0.60	mg/Kg			1	6010C
7440-39-3	Barium	250	1.0	0.31	mg/Kg			1	6010C
7440-43-9	Cadmium	2.5	0.51	0.10	mg/Kg			1	6010C
7440-47-3	Chromium	38	1.0	0.51	mg/Kg			1	6010C
7439-92-1	Lead	230	1.0	0.54	mg/Kg			1	6010C
7782-49-2	Selenium	2.6	2.6	1.0	mg/Kg	U		1	6010C
7440-22-4	Silver	0.16	1.0	0.098	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.38	0.023	0.0095	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0766A-CS-SP Lab Sample ID: 680-88420-29
 Lab Name: TestAmerica Savannah Job No.: 680-88420-3
 SDG ID.: 68088420-3
 Matrix: Solid Date Sampled: 03/14/2013 14:21
 Reporting Basis: DRY Date Received: 03/16/2013 09:20
 % Solids: 70.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	29	2.5	0.75	mg/Kg			1	6010C
7440-39-3	Barium	530	1.3	0.38	mg/Kg			1	6010C
7440-43-9	Cadmium	1.8	0.64	0.13	mg/Kg			1	6010C
7440-47-3	Chromium	37	1.3	0.64	mg/Kg			1	6010C
7439-92-1	Lead	340	1.3	0.67	mg/Kg			1	6010C
7782-49-2	Selenium	1.3	3.2	1.3	mg/Kg	J		1	6010C
7440-22-4	Silver	1.9	1.3	0.12	mg/Kg			1	6010C
7439-97-6	Mercury	0.37	0.028	0.011	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV1151A-CS-SP SIEVED

Lab Sample ID: 680-88420-32

Lab Name: TestAmerica Savannah

Job No.: 680-88420-3

SDG ID.: 68088420-3

Matrix: Solid

Date Sampled: 03/14/2013 11:19

Reporting Basis: DRY

Date Received: 03/16/2013 09:20

% Solids: 99.5

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	29	1.8	0.52	mg/Kg			1	6010C
7440-39-3	Barium	260	0.88	0.26	mg/Kg			1	6010C
7440-43-9	Cadmium	4.2	0.44	0.088	mg/Kg			1	6010C
7440-47-3	Chromium	41	0.88	0.44	mg/Kg			1	6010C
7439-92-1	Lead	530	0.88	0.47	mg/Kg			1	6010C
7782-49-2	Selenium	2.2	2.2	0.88	mg/Kg	U		1	6010C
7440-22-4	Silver	0.87	0.88	0.085	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.28	0.018	0.0075	mg/Kg			1	7471B

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: CV08658-CS-SP SIEVED

Lab Sample ID: 680-88420-33

Lab Name: TestAmerica Savannah

Job No.: 680-88420-3

SDG ID.: 68088420-3

Matrix: Solid

Date Sampled: 03/14/2013 13:22

Reporting Basis: DRY

Date Received: 03/16/2013 09:20

% Solids: 92.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	17	2.0	0.59	mg/Kg			1	6010C
7440-39-3	Barium	280	1.0	0.30	mg/Kg			1	6010C
7440-43-9	Cadmium	3.0	0.50	0.10	mg/Kg			1	6010C
7440-47-3	Chromium	51	1.0	0.50	mg/Kg			1	6010C
7439-92-1	Lead	310	1.0	0.53	mg/Kg			1	6010C
7782-49-2	Selenium	2.5	2.5	1.0	mg/Kg	U		1	6010C
7440-22-4	Silver	0.14	1.0	0.097	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.43	0.019	0.0079	mg/Kg			1	7471B

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: CV0766A-CS-SP SIEVED

Lab Sample ID: 680-88420-34

Lab Name: TestAmerica Savannah

Job No.: 680-88420-3

SDG ID.: 68088420-3

Matrix: Solid

Date Sampled: 03/14/2013 14:21

Reporting Basis: DRY

Date Received: 03/16/2013 09:20

% Solids: 85.6

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	29	2.3	0.68	mg/Kg			1	6010C
7440-39-3	Barium	500	1.1	0.34	mg/Kg			1	6010C
7440-43-9	Cadmium	1.8	0.57	0.11	mg/Kg			1	6010C
7440-47-3	Chromium	42	1.1	0.57	mg/Kg			1	6010C
7439-92-1	Lead	360	1.1	0.61	mg/Kg			1	6010C
7782-49-2	Selenium	2.9	2.9	1.1	mg/Kg	U		1	6010C
7440-22-4	Silver	0.21	1.1	0.11	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.35	0.021	0.0087	mg/Kg			1	7471B

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-88420-3

SDG No.: 68088420-3

ICV Source: P_ICV_wk_00213 Concentration Units: ug/L

CCV Source: P_CCV_wk_00108

Analyte	ICV 680-270010/4 03/19/2013 15:19				CCV 680-270010/12 03/19/2013 16:06				CCV 680-270010/24 03/19/2013 17:12			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	1020		1000	102	492		500	98	474		500	95
Barium	1020		1000	102	5000		5000	100	4970		5000	99
Cadmium	1020		1000	102	499		500	100	498		500	100
Chromium	996		1000	100	4970		5000	99	4960		5000	99
Lead	1020		1000	102	501		500	100	499		500	100
Selenium	1000		1000	100	5010		5000	100	5000		5000	100
Silver	1000		1000	100	500		500	100	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.: 680-88420-3

SDG No.: 68088420-3

ICV Source: P_ICV_wk_00213 Concentration Units: ug/L

CCV Source: P_CCV_wk_00108

Analyte	CCV 680-270010/36 03/19/2013 18:17				CCV 680-270010/48 03/19/2013 19:22							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	484		500	97	483		500	97				
Barium	4960		5000	99	4950		5000	99				
Cadmium	496		500	99	497		500	99				
Chromium	4930		5000	99	4920		5000	98				
Lead	499		500	100	499		500	100				
Selenium	4940		5000	99	4940		5000	99				
Silver	501		500	100	499		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.: 680-88420-3

SDG No.: 68088420-3

ICV Source: P_ICV_wk_00213 Concentration Units: ug/L

CCV Source: P_CCV_wk_00108

Analyte	ICV 680-270285/4 03/21/2013 10:07				CCV 680-270285/9 03/21/2013 10:36				CCV 680-270285/21 03/21/2013 11:45			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	1010		1000	101	494		500	99	475		500	95
Barium	1020		1000	102	5010		5000	100	5010		5000	100
Cadmium	1020		1000	102	503		500	101	502		500	100
Chromium	1010		1000	101	5010		5000	100	5120		5000	102
Lead	1040		1000	104	511		500	102	520		500	104
Selenium	1000		1000	100	5000		5000	100	4920		5000	98
Silver	1010		1000	101	508		500	102	509		500	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
 Italicized analytes were not requested for this sequence.

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-88420-3

SDG No.: 68088420-3

ICV Source: P_ICV_wk_00213 Concentration Units: ug/L

CCV Source: P_CCV_wk_00108

Analyte	CCV 680-270285/33 03/21/2013 12:50				CCV 680-270285/45 03/21/2013 13:56							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	479		500	96	472		500	94				
Barium	5040		5000	101	5050		5000	101				
Cadmium	506		500	101	508		500	102				
Chromium	5170		5000	103	5180		5000	104				
Lead	521		500	104	525		500	105				
Selenium	4940		5000	99	4960		5000	99				
Silver	514		500	103	517		500	103				

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.: 680-88420-3

SDG No.: 68088420-3

ICV Source: hg_icvint_00084 Concentration Units: ug/L

CCV Source: Hg_Int_Cal_00090

Analyte	ICV 680-269698/35-A 03/20/2013 15:27				CCV 680-269698/32-A 03/20/2013 15:34				CCV 680-269698/32-A 03/20/2013 16:03			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	3.07		3.00	102	2.51		2.50	100	2.52		2.50	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.: 680-88420-3

SDG No.: 68088420-3

ICV Source: hg_icvint_00084 Concentration Units: ug/L

CCV Source: Hg_Int_Cal_00090

Analyte	CCV 680-269698/32-A 03/20/2013 16:32				CCV 680-269698/32-A 03/20/2013 17:02							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.60		2.50	104	2.56		2.50	102				

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.: 680-88420-3
 SDG No.: 68088420-3
 Method: 6010C Instrument ID: ICPE
 Lab Sample ID: CRI 680-270010/6 Concentration Units: ug/L
 CRQL Check Standard Source: P_CRI_00023

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	20.0	18.0	J	90	50-150
Barium	10.0	10.7		107	50-150
Cadmium	5.00	5.18		104	50-150
Chromium	10.0	10.3		103	50-150
Lead	10.0	11.7		117	50-150
Selenium	20.0	20.3	J	101	50-150
Silver	10.0	10.1		101	50-150

Lab Sample ID: CRI 680-270285/6 Concentration Units: ug/L
 CRQL Check Standard Source: P_CRI_00023

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	20.0	23.5		118	50-150
Barium	10.0	10.3		103	50-150
Cadmium	5.00	5.29		106	50-150
Chromium	10.0	10.3		103	50-150
Lead	10.0	12.9		129	50-150
Selenium	20.0	25.1		125	50-150
Silver	10.0	9.97	J	100	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.: 680-88420-3
 SDG No.: 68088420-3
 Method: 7471B Instrument ID: LEEMAN2
 Lab Sample ID: CRA 680-269698/37-A Concentration Units: ug/L
 CRQL Check Standard Source: Hg_Int_Cal_00090

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.155	J	78	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.: 680-88420-3

SDG No.: 68088420-3

Concentration Units: ug/L

Analyte	RL	ICBIS 680-270010/5 03/19/2013 15:24		CCB 680-270010/13 03/19/2013 16:12		CCB 680-270010/25 03/19/2013 17:17		CCB 680-270010/37 03/19/2013 18:22	
		Found	C	Found	C	Found	C	Found	C
Arsenic	20	20	U	20	U	20	U	20	U
Barium	10	10	U	10	U	10	U	10	U
Cadmium	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Chromium	10	10	U	10	U	10	U	10	U
Lead	10	10	U	10	U	10	U	10	U
Selenium	25	25	U	25	U	25	U	25	U
Silver	10	10	U	10	U	10	U	10	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88420-3

SDG No.: 68088420-3

Concentration Units: ug/L

Analyte	RL	CCB 680-270010/49 03/19/2013 19:28							
		Found	C	Found	C	Found	C	Found	C
Arsenic	20	20	U						
Barium	10	10	U						
Cadmium	5.0	5.0	U						
Chromium	10	10	U						
Lead	10	10	U						
Selenium	25	25	U						
Silver	10	10	U						

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88420-3

SDG No.: 68088420-3

Concentration Units: ug/L

Analyte	RL	ICBIS 680-270285/5 03/21/2013 10:13		CCB 680-270285/10 03/21/2013 10:41		CCB 680-270285/22 03/21/2013 11:51		CCB 680-270285/34 03/21/2013 12:56	
		Found	C	Found	C	Found	C	Found	C
Arsenic	20	20	U	20	U	20	U	20	U
Barium	10	10	U	10	U	10	U	10	U
Cadmium	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Chromium	10	10	U	10	U	10	U	10	U
Lead	10	10	U	10	U	10	U	10	U
Selenium	25	25	U	25	U	25	U	25	U
Silver	10	10	U	10	U	10	U	10	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88420-3

SDG No.: 68088420-3

Concentration Units: ug/L

Analyte	RL	CCB 680-270285/46 03/21/2013 14:01		Found	C	Found	C	Found	C
		Found	C						
Arsenic	20	20	U						
Barium	10	10	U						
Cadmium	5.0	5.0	U						
Chromium	10	10	U						
Lead	10	10	U						
Selenium	25	25	U						
Silver	10	10	U						

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88420-3

SDG No.: 68088420-3

Concentration Units: ug/L

Analyte	RL	ICB 680-269698/36-A 03/20/2013 15:29		CCB 680-269698/33-A 03/20/2013 15:36		CCB 680-269698/33-A 03/20/2013 16:06		CCB 680-269698/33-A 03/20/2013 16:35	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.20	U	0.20	U	0.20	U	0.20	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88420-3

SDG No.: 68088420-3

Concentration Units: ug/L

Analyte	RL	CCB 680-269698/33-A 03/20/2013 17:04		Found	C	Found	C	Found	C
		Found	C						
Mercury	0.20	0.20	U						

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88420-3
SDG No.: 68088420-3
Concentration Units: mg/Kg Lab Sample ID: MB 680-269729/1-A
Instrument Code: ICPE Batch No.: 270010

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.: 680-88420-3
SDG No.: 68088420-3
Concentration Units: mg/Kg Lab Sample ID: MB 680-269879/1-A
Instrument Code: ICPE Batch No.: 270285

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.: 680-88420-3
SDG No.: 68088420-3
Concentration Units: mg/Kg Lab Sample ID: MB 680-269772/1-A
Instrument Code: LEEMAN2 Batch No.: 270183

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.017	U		7471B

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-88420-3

SDG No.: 68088420-3

Lab Sample ID: ICSA 680-270010/7

Instrument ID: ICPE

Lab File ID: E03192013.csv

ICS Source: P_ICSA_wk_00030

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution A	Solution A	
Arsenic		4.83	
Barium		1.46	
Cadmium		0.320	
Chromium		0.878	
Lead		2.97	
Selenium		-7.99	
Silver		0.0608	
<i>Aluminum</i>	<i>500000</i>	<i>543975</i>	<i>109</i>
<i>Antimony</i>		<i>3.09</i>	
<i>Beryllium</i>		<i>-0.149</i>	
<i>Boron</i>		<i>-34.4</i>	
<i>Calcium</i>	<i>500000</i>	<i>505874</i>	<i>101</i>
<i>Cobalt</i>		<i>0.753</i>	
<i>Copper</i>		<i>0.0956</i>	
<i>Iron</i>	<i>200000</i>	<i>201525</i>	<i>101</i>
<i>Magnesium</i>	<i>500000</i>	<i>558118</i>	<i>112</i>
<i>Manganese</i>		<i>-2.07</i>	
<i>Molybdenum</i>		<i>1.39</i>	
<i>Nickel</i>		<i>3.31</i>	
<i>Potassium</i>		<i>2.82</i>	
<i>Sodium</i>		<i>-223</i>	
<i>Strontium</i>		<i>4.79</i>	
<i>Thallium</i>		<i>9.04</i>	
<i>Tin</i>		<i>-4.48</i>	
<i>Titanium</i>		<i>0.478</i>	
<i>Vanadium</i>		<i>-1.73</i>	
<i>Zinc</i>		<i>17.9</i>	

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-88420-3

SDG No.: 68088420-3

Lab Sample ID: ICSAB 680-270010/8

Instrument ID: ICPE

Lab File ID: E03192013.csv

ICS Source: P_ICSAB_wk_00043

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Arsenic	100	119	119
Barium	500	524	105
Cadmium	1000	993	99
Chromium	500	508	102
Lead	50.0	48.2	96
Selenium	50.0	41.2	82
Silver	200	225	113
<i>Aluminum</i>	<i>500000</i>	<i>539119</i>	<i>108</i>
<i>Antimony</i>	<i>600</i>	<i>647</i>	<i>108</i>
<i>Beryllium</i>	<i>500</i>	<i>506</i>	<i>101</i>
<i>Boron</i>		<i>-38.4</i>	
<i>Calcium</i>	<i>500000</i>	<i>502623</i>	<i>101</i>
<i>Cobalt</i>	<i>500</i>	<i>495</i>	<i>99</i>
<i>Copper</i>	<i>500</i>	<i>549</i>	<i>110</i>
<i>Iron</i>	<i>200000</i>	<i>199680</i>	<i>100</i>
<i>Magnesium</i>	<i>500000</i>	<i>555599</i>	<i>111</i>
<i>Manganese</i>	<i>500</i>	<i>502</i>	<i>100</i>
<i>Molybdenum</i>	<i>1000</i>	<i>1092</i>	<i>109</i>
<i>Nickel</i>	<i>1000</i>	<i>979</i>	<i>98</i>
<i>Potassium</i>		<i>2.36</i>	
<i>Sodium</i>		<i>-574</i>	
<i>Strontium</i>		<i>5.73</i>	
<i>Thallium</i>	<i>100</i>	<i>108</i>	<i>108</i>
<i>Tin</i>	<i>1000</i>	<i>1065</i>	<i>106</i>
<i>Titanium</i>		<i>-6.22</i>	
<i>Vanadium</i>	<i>500</i>	<i>510</i>	<i>102</i>
<i>Zinc</i>	<i>1000</i>	<i>987</i>	<i>99</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.: 680-88420-3

SDG No.: 68088420-3

Lab Sample ID: ICSA 680-270285/7

Instrument ID: ICPE

Lab File ID: E03212013I.csv

ICS Source: P_ICSA_wk_00030

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Arsenic		1.97	
Barium		-2.34	
Cadmium		1.48	
Chromium		0.684	
Lead		-3.49	
Selenium		-11.2	
Silver		-0.128	
<i>Aluminum</i>	<i>500000</i>	<i>537385</i>	<i>107</i>
<i>Antimony</i>		<i>2.28</i>	
<i>Beryllium</i>		<i>-0.144</i>	
<i>Boron</i>		<i>-15.4</i>	
<i>Calcium</i>	<i>500000</i>	<i>498854</i>	<i>100</i>
<i>Cobalt</i>		<i>1.000</i>	
<i>Copper</i>		<i>0.258</i>	
<i>Iron</i>	<i>200000</i>	<i>199610</i>	<i>100</i>
<i>Magnesium</i>	<i>500000</i>	<i>552994</i>	<i>111</i>
<i>Manganese</i>		<i>1.57</i>	
<i>Molybdenum</i>		<i>2.04</i>	
<i>Nickel</i>		<i>5.18</i>	
<i>Potassium</i>		<i>-1.51</i>	
<i>Sodium</i>		<i>-577</i>	
<i>Strontium</i>		<i>2.78</i>	
<i>Thallium</i>		<i>0.611</i>	
<i>Tin</i>		<i>0.474</i>	
<i>Titanium</i>		<i>0.0162</i>	
<i>Vanadium</i>		<i>-3.01</i>	
<i>Zinc</i>		<i>20.0</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.: 680-88420-3

SDG No.: 68088420-3

Lab Sample ID: ICSAB 680-270285/8

Instrument ID: ICPE

Lab File ID: E03212013I.csv

ICS Source: P_ICSAB_wk_00043

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Arsenic	100	119	119
Barium	500	520	104
Cadmium	1000	1004	100
Chromium	500	511	102
Lead	50.0	50.2	100
Selenium	50.0	59.6	119
Silver	200	227	113
<i>Aluminum</i>	<i>500000</i>	<i>541446</i>	<i>108</i>
<i>Antimony</i>	<i>600</i>	<i>651</i>	<i>108</i>
<i>Beryllium</i>	<i>500</i>	<i>506</i>	<i>101</i>
<i>Boron</i>		<i>-16.4</i>	
<i>Calcium</i>	<i>500000</i>	<i>502563</i>	<i>101</i>
<i>Cobalt</i>	<i>500</i>	<i>496</i>	<i>99</i>
<i>Copper</i>	<i>500</i>	<i>541</i>	<i>108</i>
<i>Iron</i>	<i>200000</i>	<i>201142</i>	<i>101</i>
<i>Magnesium</i>	<i>500000</i>	<i>558672</i>	<i>112</i>
<i>Manganese</i>	<i>500</i>	<i>506</i>	<i>101</i>
<i>Molybdenum</i>	<i>1000</i>	<i>1089</i>	<i>109</i>
<i>Nickel</i>	<i>1000</i>	<i>991</i>	<i>99</i>
<i>Potassium</i>		<i>-1.31</i>	
<i>Sodium</i>		<i>-455</i>	
<i>Strontium</i>		<i>3.60</i>	
<i>Thallium</i>	<i>100</i>	<i>108</i>	<i>108</i>
<i>Tin</i>	<i>1000</i>	<i>1070</i>	<i>107</i>
<i>Titanium</i>		<i>-6.52</i>	
<i>Vanadium</i>	<i>500</i>	<i>507</i>	<i>101</i>
<i>Zinc</i>	<i>1000</i>	<i>1002</i>	<i>100</i>

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

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: CV1151A-CS-SP MS

Lab ID: 680-88420-12 MS

Lab Name: TestAmerica Savannah

Job No.: 680-88420-3

SDG No.: 68088420-3

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 78.0

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	58.3	45	11.2	122	75-125	4	6010C
Barium	257	280	11.2	-248	75-125	4	6010C
Cadmium	8.94	3.1	5.58	104	75-125		6010C
Chromium	73.3	73	11.2	6	75-125	4	6010C
Lead	415	360	5.58	919	75-125	4	6010C
Selenium	10.3	2.8	U	11.2	75-125		6010C
Silver	6.24	0.53	J	5.58	75-125		6010C
Mercury	0.452	0.34		0.121	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: _____ Lab ID: 680-88401-B-16-H MS
 Lab Name: TestAmerica Savannah Job No.: 680-88420-3
 SDG No.: 68088420-3
 Matrix: Solid Concentration Units: mg/Kg
 % Solids: 90.0

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	16.3	4.5	10.5	113	75-125		6010C
Barium	33.3	60	10.5	-257	75-125	4	6010C
Cadmium	5.63	0.12 J	5.24	105	75-125		6010C
Chromium	25.7	7.0	10.5	178	75-125	F	6010C
Lead	46.0	520	5.24	-9097	75-125	4	6010C
Selenium	9.87	2.3 U	10.5	94	75-125		6010C
Silver	5.78	0.51 J	5.24	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.

5A-IN
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
 METALS

Client ID: CV1151A-CS-SP MSD

Lab ID: 680-88420-12 MSD

Lab Name: TestAmerica Savannah

Job No.: 680-88420-3

SDG No.: 68088420-3

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 78.0

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	52.8	11.2	72	75-125	10	20	F	6010C
Barium	373	11.2	783	75-125	37	20	4 F	6010C
Cadmium	8.85	5.62	101	75-125	1	20		6010C
Chromium	77.8	11.2	45	75-125	6	20	4	6010C
Lead	414	5.62	893	75-125	0	20	4	6010C
Selenium	9.12	11.2	81	75-125	13	20		6010C
Silver	6.15	5.62	100	75-125	1	20		6010C
Mercury	0.479	0.128	112	80-120	6	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: _____ Lab ID: 680-88401-B-16-I MSD
 Lab Name: TestAmerica Savannah Job No.: 680-88420-3
 SDG No.: 68088420-3
 Matrix: Solid Concentration Units: mg/Kg
 % Solids: 88.8

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	17.1	11.3	111	75-125	4	20		6010C
Barium	74.6	11.3	126	75-125	76	20	4 F	6010C
Cadmium	6.09	5.63	106	75-125	8	20		6010C
Chromium	25.6	11.3	165	75-125	0	20	F	6010C
Lead	1370	5.63	14982	75-125	187	20	4 F	6010C
Selenium	10.6	11.3	94	75-125	7	20		6010C
Silver	7.03	5.63	116	75-125	20	20		6010C

SDR = Sample Duplicate Result

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

5B-IN
 POST DIGESTION SPIKE SAMPLE RECOVERY
 METALS

Client ID: _____ Lab ID: 680-88339-B-7-D PDS
 Lab Name: TestAmerica Savannah Job No.: 680-88420-3
 SDG No.: 68088420-3
 Matrix: Solid Concentration Units: mg/Kg

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	228	5.7	210	106	75-125		6010C
Barium	368	170	210	93	75-125		6010C
Cadmium	5.06	0.53 U	5.25	96	75-125		6010C
Chromium	28.8	9.0	21.0	94	75-125		6010C
Lead	143	96	52.5	89	75-125		6010C
Selenium	202	2.6 U	210	96	75-125		6010C
Silver	4.86	1.1 U	5.25	92	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: _____ Lab ID: 680-88401-B-16-G PDS
 Lab Name: TestAmerica Savannah Job No.: 680-88420-3
 SDG No.: 68088420-3
 Matrix: Solid Concentration Units: mg/Kg

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	209	4.5	187	109	75-125		6010C
Barium	253	60	187	103	75-125		6010C
Cadmium	5.01	0.12 J	4.68	104	75-125		6010C
Chromium	27.0	7.0	18.7	106	75-125		6010C
Lead	561	520	46.8	NC	75-125		6010C
Selenium	193	2.3 U	187	103	75-125		6010C
Silver	4.68	0.51 J	4.68	89	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 680-269729/3-A

Lab Name: TestAmerica Savannah

Job No.: 680-88420-3

Sample Matrix: Solid

LCS Source: MS Cal Stk_00019

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	19.2	21.2		110	75	125		6010C
Barium	19.2	19.2		100	75	125		6010C
Cadmium	19.2	19.2		100	75	125		6010C
Chromium	19.2	19.3		100	75	125		6010C
Lead	19.2	19.0		99	75	125		6010C
Selenium	19.2	19.2		100	75	125		6010C
Silver	19.2	19.7		103	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 680-269879/2-A

Lab Name: TestAmerica Savannah

Job No.: 680-88420-3

Sample Matrix: Solid

LCS Source: MS_LCS1_WK_00001

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	10.0	11.0		110	75	125		6010C
Barium	10.0	10.9		109	75	125		6010C
Cadmium	5.00	5.58		112	75	125		6010C
Chromium	10.0	11.4		114	75	125		6010C
Lead	5.00	5.74		115	75	125		6010C
Selenium	10.0	10.6		106	75	125		6010C
Silver	5.00	4.36		87	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 680-269772/2-A

Lab Name: TestAmerica Savannah

Job No.: 680-88420-3

Sample Matrix: Solid

LCS Source: Hg_Int_Cal_00090

Analyte	Solid(mg/Kg)						
	True	Found	C	%R	Limits	Q	Method
Mercury	0.250	0.241		96	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: 680-88339-B-7-D SD

SDG No: 68088420-3

Lab Name: TestAmerica Savannah

Job No: 680-88420-3

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Arsenic	5.7		4.98	J	NC		6010C
Barium	170		202		17	V	6010C
Cadmium	0.53	U	2.6	U	NC		6010C
Chromium	9.0		10.6		NC		6010C
Lead	96		112		16	V	6010C
Selenium	2.6	U	13	U	NC		6010C
Silver	1.1	U	5.3	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: 680-88401-B-16-G SD ^5

SDG No: 68088420-3

Lab Name: TestAmerica Savannah

Job No: 680-88420-3

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Arsenic	4.5		6.56	J	NC		6010C
Barium	60		60.9		0.99		6010C
Cadmium	0.12	J	2.3	U	NC		6010C
Chromium	7.0		7.05		NC		6010C
Lead	520		540		3.4		6010C
Selenium	2.3	U	12	U	NC		6010C
Silver	0.51	J	0.488	J	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: 680-88420-3

SDG Number: 68088420-3

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: 680-88420-3
SDG Number: 68088420-3
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: 680-88420-3
SDG Number: 68088420-3
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: 680-88420-3
SDG Number: 68088420-3
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: 680-88420-3

SDG No.: 68088420-3

ICP-AES Instrument ID: ICPE

Date: 03/26/2012

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg
Aluminum	308.215														
Antimony	206.834		0.000012								0.003985		0.000013		
Arsenic	188.980										-0.000784				
Barium	389.178							-0.000007					0.000040		0.000152
Beryllium	313.042				0.000002										
Boron	249.678												-0.000069		
Cadmium	226.502		0.000004					0.000002					0.000084		
Calcium	370.602									0.004000			-0.085534		
Chromium	267.716								-0.000136				0.000007		
Cobalt	228.615												0.000005		
Copper	324.754														
Iron	271.441							0.000014		0.066798	0.001044				
Lead	220.353		-0.000025							-0.000220			0.000018		
Magnesium	279.078		-0.000063										0.000046		
Manganese	257.610												0.000014		0.000021
Molybdenum	202.032		0.000004										-0.000007		
Nickel	231.604												0.000013		0.000012
Potassium	766.491														
Selenium	196.026												0.000003		
Silver	328.068												-0.000004		
Sodium	330.237												-0.004899		-0.001455
Strontium	216.596							0.000006				-0.000064	0.000185		
Thallium	190.794									0.004268	0.000362		-0.000139		
Tin	189.925												0.000005		
Titanium	334.941									-0.000063	0.000177				
Vanadium	292.401							-0.000005			-0.001980		0.000015		
Zinc	206.200										-0.002886		0.000003		0.000029

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Savannah

Job Number: 680-88420-3

SDG No.: 68088420-3

ICP-AES Instrument ID: ICPE

Date: 03/26/2012

Analyte	Wave Length	Mn	Mo	Na	Ni	Pb	Sb	Se	Sn	Sr	Ti	Tl	V	Zn
Aluminum	308.215		0.004460										0.020900	
Antimony	206.834		-0.006099						0.000109					
Arsenic	188.980		-0.000415											
Barium	389.178												0.000246	
Beryllium	313.042		-0.000032								0.000017		0.000047	
Boron	249.678													
Cadmium	226.502													
Calcium	370.602	0.010121									0.009919		0.006057	
Chromium	267.716												-0.000148	
Cobalt	228.615		-0.001880						-0.000023		0.001742			
Copper	324.754		0.000357								0.000223		-0.000137	
Iron	271.441		0.001825										0.007233	
Lead	220.353	0.000117	-0.001014								-0.000288		-0.000102	
Magnesium	279.078	-0.005350	0.005872										0.000286	
Manganese	257.610					0.000003								
Molybdenum	202.032												-0.000113	
Nickel	231.604						-0.000067					0.000241		
Potassium	766.491													
Selenium	196.026													
Silver	328.068									-0.000157			0.000028	
Sodium	330.237										-0.045200			-0.318877
Strontium	216.596		-0.001012		-0.004434									
Thallium	190.794	0.001070	-0.002214								0.000698		0.002684	
Tin	189.925													
Titanium	334.941		-0.000052											
Vanadium	292.401	-0.000070	-0.005998								0.000502			
Zinc	206.200													

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-88420-3

SDG No.: 68088420-3

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 680-269729/1-A	03/18/2013 13:13	269729	1.00		100
LCS 680-269729/3-A	03/18/2013 13:13	269729	1.04		100
680-88420-12	03/18/2013 13:13	269729	1.15		100
680-88420-12 MS	03/18/2013 13:13	269729	1.15		100
680-88420-12 MSD	03/18/2013 13:13	269729	1.14		100
680-88420-26	03/18/2013 13:13	269729	1.17		100
680-88420-29	03/18/2013 13:13	269729	1.11		100

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-88420-3

SDG No.: 68088420-3

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 680-269879/1-A	03/20/2013 07:22	269879	1.00		100
LCS 680-269879/2-A	03/20/2013 07:22	269879	1.00		100
680-88401-B-16-H MS	03/20/2013 07:22	269879	1.06		100
680-88401-B-16-I MSD	03/20/2013 07:22	269879	1.00		100
680-88420-32	03/20/2013 07:22	269879	1.14		100
680-88420-33	03/20/2013 07:22	269879	1.07		100
680-88420-34	03/20/2013 07:22	269879	1.02		100

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-88420-3

SDG No.: 68088420-3

Prep Method: 7471B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 680-269772/1-A	03/18/2013 16:37	269772	0.58		50
LCS 680-269772/2-A	03/18/2013 16:37	269772	0.50		50
680-88420-12	03/18/2013 16:37	269772	0.56		50
680-88420-12 MS	03/18/2013 16:37	269772	0.53		50
680-88420-12 MSD	03/18/2013 16:37	269772	0.50		50
680-88420-26	03/18/2013 16:37	269772	0.52		50
680-88420-29	03/18/2013 16:37	269772	0.51		50
680-88420-32	03/18/2013 16:37	269772	0.55		50
680-88420-33	03/18/2013 16:37	269772	0.56		50
680-88420-34	03/18/2013 16:37	269772	0.55		50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88420-3

SDG No.: 68088420-3

Instrument ID: ICPE Method: 6010C

Start Date: 03/19/2013 15:03 End Date: 03/20/2013 03:04

Lab Sample ID	D / F	Type	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			15:03																
ZZZZZZ			15:08																
ZZZZZZ			15:13																
ICV 680-270010/4	1		15:19	X	X	X	X	X	X	X									
ICBIS 680-270010/5	1		15:24	X	X	X	X	X	X	X									
CRI 680-270010/6	1		15:33	X	X	X	X	X	X	X									
ICSA 680-270010/7	1		15:38	X	X	X	X	X	X	X									
ICSAB 680-270010/8	1		15:44	X	X	X	X	X	X	X									
ZZZZZZ			15:49																
ZZZZZZ			15:55																
ZZZZZZ			16:00																
CCV 680-270010/12	1		16:06	X	X	X	X	X	X	X									
CCB 680-270010/13	1		16:12	X	X	X	X	X	X	X									
MB 680-269729/1-A	1	T	16:17	X	X	X	X	X	X	X									
ZZZZZZ			16:23																
LCS 680-269729/3-A	1	T	16:28	X	X	X	X	X	X	X									
ZZZZZZ			16:33																
680-88339-B-7-D SD	5	T	16:39	X	X	X	X	X	X	X									
680-88339-B-7-D PDS	1	T	16:44	X	X	X	X	X	X	X									
ZZZZZZ			16:50																
ZZZZZZ			16:55																
ZZZZZZ			17:01																
ZZZZZZ			17:06																
CCV 680-270010/24	1		17:12	X	X	X	X	X	X	X									
CCB 680-270010/25	1		17:17	X	X	X	X	X	X	X									
ZZZZZZ			17:23																
ZZZZZZ			17:28																
ZZZZZZ			17:33																
ZZZZZZ			17:39																
ZZZZZZ			17:44																
ZZZZZZ			17:50																
ZZZZZZ			17:55																
ZZZZZZ			18:01																
ZZZZZZ			18:06																
680-88420-12	1	T	18:12	X	X	X	X	X	X	X									
CCV 680-270010/36	1		18:17	X	X	X	X	X	X	X									
CCB 680-270010/37	1		18:22	X	X	X	X	X	X	X									
680-88420-12 MS	1	T	18:28	X	X	X	X	X	X	X									
680-88420-12 MSD	1	T	18:33	X	X	X	X	X	X	X									
680-88420-26	1	T	18:39	X	X	X	X	X	X	X									
680-88420-29	1	T	18:44	X	X	X	X	X	X	X									
ZZZZZZ			18:49																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88420-3

SDG No.: 68088420-3

Instrument ID: ICPE Method: 6010C

Start Date: 03/19/2013 15:03 End Date: 03/20/2013 03:04

Lab Sample ID	D / F	Type	Time	Analytes															
				Ag	As	Ba	Cd	Cr	Pb	Se									
ZZZZZZ			18:55																
ZZZZZZ			19:00																
ZZZZZZ			19:06																
ZZZZZZ			19:11																
ZZZZZZ			19:17																
CCV 680-270010/48	1		19:22	X	X	X	X	X	X	X									
CCB 680-270010/49	1		19:28	X	X	X	X	X	X	X									
ZZZZZZ			19:33																
ZZZZZZ			19:38																
ZZZZZZ			19:44																
ZZZZZZ			19:49																
ZZZZZZ			19:55																
ZZZZZZ			20:00																
ZZZZZZ			20:05																
ZZZZZZ			20:11																
ZZZZZZ			20:16																
ZZZZZZ			20:22																
CCV 680-270010/60			20:27																
CCB 680-270010/61			20:33																
ZZZZZZ			20:38																
ZZZZZZ			20:43																
ZZZZZZ			20:49																
ZZZZZZ			20:55																
ZZZZZZ			21:00																
ZZZZZZ			21:05																
ZZZZZZ			21:11																
CCV 680-270010/69			21:16																
CCB 680-270010/70			21:22																
ZZZZZZ			21:27																
ZZZZZZ			21:32																
ZZZZZZ			21:38																
ZZZZZZ			21:43																
ZZZZZZ			21:49																
ZZZZZZ			21:54																
ZZZZZZ			22:00																
ZZZZZZ			22:05																
ZZZZZZ			22:10																
ZZZZZZ			22:16																
CCV 680-270010/81			22:21																
CCB 680-270010/82			22:27																
ZZZZZZ			22:32																
ZZZZZZ			22:38																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88420-3

SDG No.: 68088420-3

Instrument ID: ICPE Method: 6010C

Start Date: 03/19/2013 15:03 End Date: 03/20/2013 03:04

Lab Sample ID	D / F	Type	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			22:43																
ZZZZZZ			22:49																
ZZZZZZ			22:54																
ZZZZZZ			22:59																
ZZZZZZ			23:05																
ZZZZZZ			23:10																
ZZZZZZ			23:16																
ZZZZZZ			23:21																
CCV 680-270010/93			23:27																
CCB 680-270010/94			23:32																
ZZZZZZ			23:37																
ZZZZZZ			23:43																
ZZZZZZ			23:48																
ZZZZZZ			23:54																
ZZZZZZ			23:59																
ZZZZZZ			00:04																
ZZZZZZ			00:10																
ZZZZZZ			00:15																
ZZZZZZ			00:21																
ZZZZZZ			00:26																
CCV 680-270010/105			00:32																
CCB 680-270010/106			00:37																
ZZZZZZ			00:42																
ZZZZZZ			00:48																
ZZZZZZ			00:53																
ZZZZZZ			00:59																
ZZZZZZ			01:04																
ZZZZZZ			01:10																
ZZZZZZ			01:15																
ZZZZZZ			01:21																
ZZZZZZ			01:26																
ZZZZZZ			01:32																
CCV 680-270010/117			01:37																
CCB 680-270010/118			01:42																
ZZZZZZ			01:48																
ZZZZZZ			01:53																
ZZZZZZ			01:59																
ZZZZZZ			02:04																
ZZZZZZ			02:10																
ZZZZZZ			02:15																
ZZZZZZ			02:20																
ZZZZZZ			02:26																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88420-3

SDG No.: 68088420-3

Instrument ID: ICPE Method: 6010C

Start Date: 03/19/2013 15:03 End Date: 03/20/2013 03:04

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			02:31																
ZZZZZZ			02:37																
CCV 680-270010/129			02:42																
CCB 680-270010/130			02:48																
CRI 680-270010/131			02:53																
CCV 680-270010/132			02:58																
CCB 680-270010/133			03:04																

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88420-3

SDG No.: 68088420-3

Instrument ID: ICPE Method: 6010C

Start Date: 03/21/2013 09:49 End Date: 03/22/2013 04:13

Lab Sample ID	D / F	Type	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			09:49																
ZZZZZZ			09:54																
ZZZZZZ			10:00																
ICV 680-270285/4	1		10:07	X	X	X	X	X	X	X									
ICBIS 680-270285/5	1		10:13	X	X	X	X	X	X	X									
CRI 680-270285/6	1		10:20	X	X	X	X	X	X	X									
ICSA 680-270285/7	1		10:25	X	X	X	X	X	X	X									
ICSAB 680-270285/8	1		10:30	X	X	X	X	X	X	X									
CCV 680-270285/9	1		10:36	X	X	X	X	X	X	X									
CCB 680-270285/10	1		10:41	X	X	X	X	X	X	X									
MB 680-269879/1-A	1	T	10:51	X	X	X	X	X	X	X									
LCS 680-269879/2-A	1	T	10:57	X	X	X	X	X	X	X									
ZZZZZZ			11:02																
ZZZZZZ			11:07																
ZZZZZZ			11:13																
ZZZZZZ			11:18																
ZZZZZZ			11:24																
ZZZZZZ			11:29																
680-88401-B-16-G SD ^5	5	T	11:35	X	X	X	X	X	X	X									
680-88401-B-16-G PDS	1	T	11:40	X	X	X	X	X	X	X									
CCV 680-270285/21	1		11:45	X	X	X	X	X	X	X									
CCB 680-270285/22	1		11:51	X	X	X	X	X	X	X									
680-88401-B-16-H MS	1	T	11:56	X	X	X	X	X	X	X									
680-88401-B-16-I MSD	1	T	12:02	X	X	X	X	X	X	X									
ZZZZZZ			12:07																
ZZZZZZ			12:13																
ZZZZZZ			12:18																
ZZZZZZ			12:23																
ZZZZZZ			12:29																
ZZZZZZ			12:34																
ZZZZZZ			12:40																
ZZZZZZ			12:45																
CCV 680-270285/33	1		12:50	X	X	X	X	X	X	X									
CCB 680-270285/34	1		12:56	X	X	X	X	X	X	X									
ZZZZZZ			13:01																
ZZZZZZ			13:07																
ZZZZZZ			13:12																
ZZZZZZ			13:17																
680-88420-32	1	T	13:23	X	X	X	X	X	X	X									
680-88420-33	1	T	13:28	X	X	X	X	X	X	X									
680-88420-34	1	T	13:34	X	X	X	X	X	X	X									

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88420-3
 SDG No.: 68088420-3
 Instrument ID: ICPE Method: 6010C
 Start Date: 03/21/2013 09:49 End Date: 03/22/2013 04:13

Lab Sample ID	D / F	Type	Time	Analytes																
				A g	A s	B a	C d	C r	P b	S e										
ZZZZZZ			13:39																	
ZZZZZZ			13:45																	
ZZZZZZ			13:50																	
CCV 680-270285/45	1		13:56	X	X	X	X	X	X	X										
CCB 680-270285/46	1		14:01	X	X	X	X	X	X	X										
ZZZZZZ			14:06																	
ZZZZZZ			14:12																	
ZZZZZZ			14:17																	
ZZZZZZ			14:23																	
ZZZZZZ			14:28																	
ZZZZZZ			14:33																	
ZZZZZZ			14:39																	
ZZZZZZ			14:44																	
ZZZZZZ			14:50																	
ZZZZZZ			14:55																	
CCV 680-270285/57			15:01																	
CCB 680-270285/58			15:06																	
ZZZZZZ			15:11																	
ZZZZZZ			15:17																	
ZZZZZZ			15:22																	
ZZZZZZ			15:28																	
ZZZZZZ			15:33																	
ZZZZZZ			15:38																	
ZZZZZZ			15:44																	
ZZZZZZ			15:49																	
CCV 680-270285/67			15:58																	
CCB 680-270285/68			16:03																	
ZZZZZZ			16:09																	
ZZZZZZ			16:14																	
ZZZZZZ			16:20																	
ZZZZZZ			16:25																	
ZZZZZZ			16:30																	
ZZZZZZ			16:36																	
ZZZZZZ			16:41																	
ZZZZZZ			16:47																	
ZZZZZZ			16:52																	
ZZZZZZ			16:58																	
CCV 680-270285/79			17:03																	
CCB 680-270285/80			17:09																	
ZZZZZZ			17:14																	
ZZZZZZ			17:19																	
ZZZZZZ			17:25																	

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88420-3

SDG No.: 68088420-3

Instrument ID: ICPE Method: 6010C

Start Date: 03/21/2013 09:49 End Date: 03/22/2013 04:13

Lab Sample ID	D / F	Type	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			17:30																
ZZZZZZ			17:36																
ZZZZZZ			17:41																
ZZZZZZ			17:47																
ZZZZZZ			17:52																
ZZZZZZ			17:57																
ZZZZZZ			18:13																
CCV 680-270285/91			18:18																
CCB 680-270285/92			18:23																
ZZZZZZ			18:29																
ZZZZZZ			18:34																
ZZZZZZ			18:40																
ZZZZZZ			18:45																
ZZZZZZ			18:50																
ZZZZZZ			18:56																
ZZZZZZ			19:01																
ZZZZZZ			19:07																
ZZZZZZ			19:13																
ZZZZZZ			19:18																
CCV 680-270285/103			19:24																
CCB 680-270285/104			19:29																
ZZZZZZ			19:35																
ZZZZZZ			19:40																
ZZZZZZ			19:46																
ZZZZZZ			19:51																
ZZZZZZ			19:57																
ZZZZZZ			20:02																
ZZZZZZ			20:07																
ZZZZZZ			20:13																
ZZZZZZ			20:18																
ZZZZZZ			20:24																
CCV 680-270285/115			20:29																
CCB 680-270285/116			20:35																
ZZZZZZ			20:40																
ZZZZZZ			20:45																
ZZZZZZ			20:51																
ZZZZZZ			20:56																
ZZZZZZ			21:02																
ZZZZZZ			21:07																
ZZZZZZ			21:13																
ZZZZZZ			21:18																
ZZZZZZ			21:23																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88420-3

SDG No.: 68088420-3

Instrument ID: ICPE Method: 6010C

Start Date: 03/21/2013 09:49 End Date: 03/22/2013 04:13

Lab Sample ID	D / F	Type	Time	Analytes													
				A g	A s	B a	C d	C r	P b	S e							
ZZZZZZ			21:29														
CCV 680-270285/127			21:34														
CCB 680-270285/128			21:40														
ZZZZZZ			21:45														
ZZZZZZ			21:51														
ZZZZZZ			21:56														
ZZZZZZ			22:01														
ZZZZZZ			22:07														
ZZZZZZ			22:12														
ZZZZZZ			22:18														
ZZZZZZ			22:23														
ZZZZZZ			22:29														
ZZZZZZ			22:34														
CCV 680-270285/139			22:40														
CCB 680-270285/140			22:45														
ZZZZZZ			22:51														
ZZZZZZ			22:56														
ZZZZZZ			23:01														
ZZZZZZ			23:07														
ZZZZZZ			23:12														
ZZZZZZ			23:18														
ZZZZZZ			23:23														
ZZZZZZ			23:29														
ZZZZZZ			23:34														
ZZZZZZ			23:40														
CCV 680-270285/151			23:45														
CCB 680-270285/152			23:50														
ZZZZZZ			23:56														
ZZZZZZ			00:01														
ZZZZZZ			00:07														
ZZZZZZ			00:12														
ZZZZZZ			00:18														
ZZZZZZ			00:23														
ZZZZZZ			00:29														
ZZZZZZ			00:34														
ZZZZZZ			00:40														
ZZZZZZ			00:45														
CCV 680-270285/163			00:51														
CCB 680-270285/164			00:56														
ZZZZZZ			01:01														
ZZZZZZ			01:07														
ZZZZZZ			01:12														

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88420-3

SDG No.: 68088420-3

Instrument ID: ICPE Method: 6010C

Start Date: 03/21/2013 09:49 End Date: 03/22/2013 04:13

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			01:18																
ZZZZZZ			01:23																
ZZZZZZ			01:29																
ZZZZZZ			01:34																
ZZZZZZ			01:40																
ZZZZZZ			01:45																
ZZZZZZ			01:50																
CCV 680-270285/175			01:56																
CCB 680-270285/176			02:01																
ZZZZZZ			02:07																
ZZZZZZ			02:12																
ZZZZZZ			02:18																
ZZZZZZ			02:23																
ZZZZZZ			02:29																
ZZZZZZ			02:34																
ZZZZZZ			02:40																
ZZZZZZ			02:45																
ZZZZZZ			02:51																
ZZZZZZ			02:56																
CCV 680-270285/187			03:02																
CCB 680-270285/188			03:07																
ZZZZZZ			03:12																
ZZZZZZ			03:18																
ZZZZZZ			03:23																
ZZZZZZ			03:29																
ZZZZZZ			03:34																
ZZZZZZ			03:40																
ZZZZZZ			03:45																
CRI 680-270285/196			03:51																
CCV 680-270285/197			03:56																
CCB 680-270285/198			04:02																
ZZZZZZ			04:07																
ZZZZZZ			04:13																

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88420-3

SDG No.: 68088420-3

Instrument ID: LEEMAN2 Method: 7471B

Start Date: 03/20/2013 15:12 End Date: 03/21/2013 11:30

Lab Sample ID	D / F	Type	Time	Analytes															
				Hg															
IC 680-269698/25-A			15:12	X															
IC 680-269698/26-A			15:14	X															
IC 680-269698/27-A			15:17	X															
IC 680-269698/28-A			15:19	X															
IC 680-269698/29-A			15:22	X															
IC 680-269698/30-A			15:24	X															
ICV 680-269698/35-A	1		15:27	X															
ICB 680-269698/36-A	1		15:29	X															
CRA 680-269698/37-A	1		15:31	X															
CCV 680-269698/32-A	1		15:34	X															
CCB 680-269698/33-A	1		15:36	X															
MB 680-269772/1-A	1	T	15:39	X															
LCS 680-269772/2-A	1	T	15:41	X															
ZZZZZZ			15:44																
ZZZZZZ			15:46																
ZZZZZZ			15:49																
ZZZZZZ			15:51																
ZZZZZZ			15:53																
ZZZZZZ			15:56																
ZZZZZZ			15:58																
ZZZZZZ			16:01																
CCV 680-269698/32-A	1		16:03	X															
CCB 680-269698/33-A	1		16:06	X															
ZZZZZZ			16:08																
ZZZZZZ			16:10																
ZZZZZZ			16:13																
ZZZZZZ			16:15																
ZZZZZZ			16:18																
ZZZZZZ			16:20																
ZZZZZZ			16:23																
ZZZZZZ			16:25																
680-88420-12	1	T	16:28	X															
680-88420-12 MS	1	T	16:30	X															
CCV 680-269698/32-A	1		16:32	X															
CCB 680-269698/33-A	1		16:35	X															
680-88420-12 MSD	1	T	16:37	X															
680-88420-26	1	T	16:40	X															
680-88420-29	1	T	16:42	X															
680-88420-32	1	T	16:45	X															
680-88420-33	1	T	16:47	X															
680-88420-34	1	T	16:50	X															
ZZZZZZ			16:52																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88420-3

SDG No.: 68088420-3

Instrument ID: LEEMAN2 Method: 7471B

Start Date: 03/20/2013 15:12 End Date: 03/21/2013 11:30

Lab Sample ID	D / F	Type	Time	Analytes															
				Hg															
ZZZZZZ			16:54																
ZZZZZZ			16:57																
ZZZZZZ			16:59																
CCV 680-269698/32-A	1		17:02	X															
CCB 680-269698/33-A	1		17:04	X															
ZZZZZZ			17:07																
ZZZZZZ			17:09																
ZZZZZZ			17:12																
ZZZZZZ			17:14																
ZZZZZZ			17:16																
ZZZZZZ			17:19																
ZZZZZZ			17:21																
ZZZZZZ			17:24																
ZZZZZZ			17:26																
ZZZZZZ			17:29																
CCV 680-269698/32-A			17:31																
CCB 680-269698/33-A			17:34																
ZZZZZZ			17:36																
ZZZZZZ			17:38																
ZZZZZZ			17:41																
ZZZZZZ			17:43																
ZZZZZZ			17:46																
ZZZZZZ			17:48																
ZZZZZZ			17:51																
ZZZZZZ			17:53																
ZZZZZZ			17:56																
ZZZZZZ			17:58																
CCV 680-269698/32-A			18:00																
CCB 680-269698/33-A			18:03																
ZZZZZZ			18:05																
ZZZZZZ			18:08																
ZZZZZZ			18:10																
ZZZZZZ			18:13																
ZZZZZZ			18:15																
ZZZZZZ			18:17																
ZZZZZZ			18:20																
ZZZZZZ			18:22																
ZZZZZZ			18:25																
ZZZZZZ			18:27																
CCV 680-269698/32-A			18:30																
CCB 680-269698/33-A			18:32																
ZZZZZZ			18:35																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88420-3

SDG No.: 68088420-3

Instrument ID: LEEMAN2 Method: 7471B

Start Date: 03/20/2013 15:12 End Date: 03/21/2013 11:30

Lab Sample ID	D / F	Type	Time	Analytes															
				H	g														
ZZZZZZ			18:37																
ZZZZZZ			18:40																
ZZZZZZ			18:42																
ZZZZZZ			18:44																
ZZZZZZ			18:47																
ZZZZZZ			18:49																
ZZZZZZ			18:52																
ZZZZZZ			18:54																
ZZZZZZ			18:57																
CCV 680-269698/32-A			18:59																
CCB 680-269698/33-A			19:01																
ZZZZZZ			19:04																
ZZZZZZ			19:06																
ZZZZZZ			19:09																
ZZZZZZ			19:11																
ZZZZZZ			19:14																
ZZZZZZ			19:16																
ZZZZZZ			19:19																
ZZZZZZ			19:21																
ZZZZZZ			19:23																
ZZZZZZ			19:26																
CCV 680-269698/32-A			19:28																
CCB 680-269698/33-A			19:31																
ZZZZZZ			19:33																
ZZZZZZ			19:36																
ZZZZZZ			19:38																
ZZZZZZ			19:41																
ZZZZZZ			19:43																
ZZZZZZ			19:45																
ZZZZZZ			19:48																
ZZZZZZ			19:50																
ZZZZZZ			19:53																
ZZZZZZ			19:55																
CCV 680-269698/32-A			19:58																
CCB 680-269698/33-A			20:00																
ZZZZZZ			20:03																
ZZZZZZ			20:05																
ZZZZZZ			20:07																
ZZZZZZ			20:10																
ZZZZZZ			20:12																
ZZZZZZ			20:15																
ZZZZZZ			20:17																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88420-3

SDG No.: 68088420-3

Instrument ID: LEEMAN2 Method: 7471B

Start Date: 03/20/2013 15:12 End Date: 03/21/2013 11:30

Lab Sample ID	D / F	T y p e	Time	Analytes															
				H g															
ZZZZZZ			20:20																
ZZZZZZ			20:22																
ZZZZZZ			20:25																
CCV 680-269698/32-A			20:27																
CCB 680-269698/33-A			20:29																
ZZZZZZ			20:32																
ZZZZZZ			20:34																
ZZZZZZ			20:37																
ZZZZZZ			20:39																
ZZZZZZ			20:42																
ZZZZZZ			20:44																
ZZZZZZ			20:47																
ZZZZZZ			20:49																
ZZZZZZ			20:51																
ZZZZZZ			20:54																
CCV 680-269698/32-A			20:56																
CCB 680-269698/33-A			20:59																
ZZZZZZ			21:01																
ZZZZZZ			21:04																
ZZZZZZ			21:06																
ZZZZZZ			21:09																
ZZZZZZ			21:11																
ZZZZZZ			21:13																
ZZZZZZ			21:16																
ZZZZZZ			21:18																
ZZZZZZ			21:21																
ZZZZZZ			21:23																
CCV 680-269698/32-A			21:26																
CCB 680-269698/33-A			21:28																
ZZZZZZ			21:31																
ZZZZZZ			21:33																
ZZZZZZ			21:36																
ZZZZZZ			21:38																
CCV 680-269698/32-A			21:40																
CCB 680-269698/33-A			21:43																
CCV 680-269698/32-A			10:34																
CCB 680-269698/33-A			10:37																
ZZZZZZ			10:39																
ZZZZZZ			10:42																
ZZZZZZ			10:44																
ZZZZZZ			10:47																
ZZZZZZ			10:49																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88420-3

SDG No.: 68088420-3

Instrument ID: LEEMAN2 Method: 7471B

Start Date: 03/20/2013 15:12 End Date: 03/21/2013 11:30

Lab Sample ID	D / F	T y p e	Time	Analytes																					
				H g																					
ZZZZZZ			10:51																						
ZZZZZZ			10:54																						
ZZZZZZ			10:56																						
ZZZZZZ			10:59																						
ZZZZZZ			11:01																						
CCV 680-269698/32-A			11:03																						
CCB 680-269698/33-A			11:06																						
ZZZZZZ			11:08																						
ZZZZZZ			11:11																						
ZZZZZZ			11:13																						
ZZZZZZ			11:16																						
ZZZZZZ			11:18																						
ZZZZZZ			11:21																						
ZZZZZZ			11:23																						
ZZZZZZ			11:25																						
CCV 680-269698/32-A			11:28																						
CCB 680-269698/33-A			11:30																						

Prep Types
T = Total/NA

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

Blank (Blk)	3/19/2013, 3:03:02 PM		Rack S, Tube 1
Label	Replicates Concentration		
Ag 328.068	-0.0760	0.2608	-0.1848
Al 308.215	0.1031	-0.5017	0.3986
As 188.980	6.2289	1.5054	-7.7343
B 249.678	-0.4236	-0.3278	0.7514
Ba 389.178	-0.3675	0.3252	0.0423
Be 313.042	-0.0003	0.0017	-0.0014
Ca 370.602	-1.125	2.129	-1.004
Cd 226.502	0.0643	0.0486	-0.1129
Co 228.615	0.4274	-0.0628	-0.3646
Cr 267.716	0.0535	-0.1218	0.0684
Cu 324.754	-0.0225	-0.1948	0.2173
Fe 271.441	5.0882	0.7176	-5.8058
K 766.491	0.2707	0.0378	-0.3085
Mg 279.078	-1.4441	1.0968	0.3473
Mn 257.610	-0.0201	-0.0056	0.0258
Mo 202.032	-0.2686	0.1844	0.0842
Na 330.237	-94.6700	169.892	-75.2222
Ni 231.604	0.7283	-0.3646	-0.3638
Pb 220.353	-0.8499	1.7978	-0.9479
Sb 206.834	4.5792	-0.4940	-4.0852
Se 196.026	4.7398	0.0322	-4.7719
Sn 189.925	0.6174	-0.3659	-0.2515
Sr 216.596	0.3193	0.3691	-0.6884
Ti 334.941	0.0045	-0.0054	0.0009
Tl 190.794	0.6334	-0.1934	-0.4400
V 292.401	-0.0033	-0.0507	0.0540
Zn 206.200	0.5442	-0.9313	0.3871

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	0.0000	ppb	17.615	29.1	-60.6190
Al 308.215	0.0000	ppb	2.699	1.0	271.840
As 188.980	0.0000	ppb	3.997	1702.6	-0.2348
B 249.678	0.0000	ppb	5.822	5.2	112.228
Ba 389.178	0.0000	ppb	9.460	25.8	-36.7337
Be 313.042	0.0000	ppb	3.347	2.5	-135.341
Ca 370.602	0.0000	ppb	7.312	54.9	13.31
Cd 226.502	0.0000	ppb	3.891	47.6	8.1707
Co 228.615	0.0000	ppb	5.109	38.1	13.4206
Cr 267.716	0.0000	ppb	5.048	174.2	-2.8971
Cu 324.754	0.0000	ppb	11.329	6.6	172.313
Fe 271.441	0.0000	ppb	9.297	264.0	3.5216
K 766.491	0.0000	ppb	19.351	7.2	267.660
Mg 279.078	0.0000	ppb	2.851	17.4	16.3613
Mn 257.610	0.0000	ppb	5.467	9.8	55.6184
Mo 202.032	0.0000	ppb	1.850	12.7	14.5620
Na 330.237	0.0000	ppb	7.976	369.3	-2.1601
Ni 231.604	0.0000	ppb	1.656	204.1	0.8117
Pb 220.353	0.0000	ppb	2.784	345.9	0.8047
Sb 206.834	0.0000	ppb	4.514	272.4	1.6570
Se 196.026	0.0000	ppb	2.471	280.1	-0.8821
Sn 189.925	0.0000	ppb	0.545	65.9	0.8268
Sr 216.596	0.0000	ppb	7.018	82.1	8.5426
Ti 334.941	0.0000	ppb	1.606	5.2	-31.0223
Tl 190.794	0.0000	ppb	0.448	114.9	0.3895
V 292.401	0.0000	ppb	1.607	49.1	3.2766
Zn 206.200	0.0000	ppb	1.019	688.4	-0.1480

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HIGH STD (Std)	3/19/2013, 3:08:30 PM		Rack S, Tube 2
Label	Replicates Concentration		
Ag 328.068	1002.04	994.242	1003.72
Al 308.215	10009.6	9967.57	10022.8
As 188.980	997.827	1003.81	998.362
B 249.678	4976.17	4981.47	5042.36
Ba 389.178	10016.1	9962.25	10021.6
Be 313.042	1000.27	996.344	1003.38
Ca 370.602	10009	9953	10038
Cd 226.502	1002.47	995.428	1002.10
Co 228.615	1000.54	998.143	1001.32
Cr 267.716	10012.3	9969.89	10017.8
Cu 324.754	10004.5	9988.96	10006.5
Fe 271.441	10018.0	9965.81	10016.2
K 766.491	19975.5	19929.3	20095.2
Mg 279.078	10014.0	9966.66	10019.4
Mn 257.610	10009.4	9980.81	10009.8
Mo 202.032	995.541	1004.59	999.870
Na 330.237	14981.7	15066.8	14951.5
Ni 231.604	5018.12	4980.77	5001.10
Pb 220.353	1007.57	994.154	998.271
Sb 206.834	5008.08	4977.00	5014.93
Se 196.026	9997.16	9957.79	10045.0
Sn 189.925	10023.1	9941.33	10035.5
Sr 216.596	5009.89	4980.36	5009.75
Ti 334.941	1001.21	995.920	1002.87
Tl 190.794	10013.8	9954.54	10031.7
V 292.401	10008.4	9966.04	10025.5
Zn 206.200	5004.83	4975.82	5019.35

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	1000.00	ppb	383.358	0.5	75764.7
Al 308.215	10000.0	ppb	169.697	0.3	59084.5
As 188.980	1000.00	ppb	1.863	0.3	562.575
B 249.678	5000.00	ppb	328.161	0.7	44722.7
Ba 389.178	10000.0	ppb	891.219	0.3	271579
Be 313.042	1000.00	ppb	7613.483	0.4	2158322
Ca 370.602	10000	ppb	170.841	0.4	39645
Cd 226.502	1000.00	ppb	157.226	0.4	39675.4
Co 228.615	1000.00	ppb	21.155	0.2	12792.7
Cr 267.716	10000.0	ppb	1251.542	0.3	477301
Cu 324.754	10000.0	ppb	526.098	0.1	547493
Fe 271.441	10000.0	ppb	50.229	0.3	16961.4
K 766.491	20000.0	ppb	5682.888	0.4	1328267
Mg 279.078	10000.0	ppb	63.307	0.3	21850.0
Mn 257.610	10000.0	ppb	3875.574	0.2	2331259
Mo 202.032	1000.00	ppb	35.184	0.5	7789.06
Na 330.237	15000.0	ppb	3.232	0.4	809.246
Ni 231.604	5000.00	ppb	49.104	0.4	13131.9
Pb 220.353	1000.00	ppb	12.286	0.7	1787.76
Sb 206.834	5000.00	ppb	20.960	0.4	5186.71
Se 196.026	10000.0	ppb	22.706	0.4	5195.05
Sn 189.925	10000.0	ppb	51.851	0.5	10130.8
Sr 216.596	5000.00	ppb	200.017	0.3	58815.2
Ti 334.941	1000.00	ppb	1169.524	0.4	322137
Tl 190.794	10000.0	ppb	32.147	0.4	7963.50
V 292.401	10000.0	ppb	938.575	0.3	306527
Zn 206.200	5000.00	ppb	27.877	0.4	6287.94

Ag 328.068 Calibration (ppb) 3/19/2013, 3:08:30 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-60.6190	0.0000	0.0000	-	-
HIGH STD		75764.7	1000.00	1000.000	-0.0002	0.0

Curve Type: Linear Equation: $y = 75.8 x + -60.6$

Al 308.215 Calibration (ppb) 3/19/2013, 3:08:30 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		271.840	0.0000	0.0000	-	-
HIGH STD		59084.5	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 5.9 x + 271.8$

As 188.980 Calibration (ppb) 3/19/2013, 3:08:30 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-0.2348	0.0000	0.0000	-	-
HIGH STD		562.575	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation: $y = 0.6 x + -0.2$

B 249.678 Calibration (ppb) 3/19/2013, 3:08:30 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		112.228	0.0000	0.0000	-	-
HIGH STD		44722.7	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 8.9 x + 112.2$

Ba 389.178 Calibration (ppb) 3/19/2013, 3:08:30 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-36.7337	0.0000	0.0000	-	-
HIGH STD		271579	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: $y = 27.2 x + -36.7$

Be 313.042 Calibration (ppb) 3/19/2013, 3:08:30 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-135.341	0.0000	0.0000	-	-
HIGH STD		2158322	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation: $y = 2158.5 x + -135.3$

Ca 370.602 Calibration (ppb) 3/19/2013, 3:08:30 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		13.31	0.0000	0.0000	-	-
HIGH STD		39645	10000	10000	0.0010	0.0

Curve Type: Linear Equation: $y = 4.0 x + 13.3$

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Cd 226.502 Calibration (ppb) 3/19/2013, 3:08:30 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		8.1707	0.0000	0.0000	-	-
HIGH STD		39675.4	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation: $y = 39.7 x + 8.2$ **Co 228.615 Calibration (ppb) 3/19/2013, 3:08:30 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		13.4206	0.0000	0.0000	-	-
HIGH STD		12792.7	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 12.8 x + 13.4$ **Cr 267.716 Calibration (ppb) 3/19/2013, 3:08:30 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-2.8971	0.0000	0.0000	-	-
HIGH STD		477301	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 47.7 x + -2.9$ **Cu 324.754 Calibration (ppb) 3/19/2013, 3:08:30 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		172.313	0.0000	0.0000	-	-
HIGH STD		547493	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 54.7 x + 172.3$ **Fe 271.441 Calibration (ppb) 3/19/2013, 3:08:30 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		3.5216	0.0000	0.0000	-	-
HIGH STD		16961.4	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation: $y = 1.7 x + 3.5$ **K 766.491 Calibration (ppb) 3/19/2013, 3:08:30 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		267.660	0.0000	0.0000	-	-
HIGH STD		1328267	20000.0	20000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 66.4 x + 267.7$ **Mg 279.078 Calibration (ppb) 3/19/2013, 3:08:30 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		16.3613	0.0000	0.0000	-	-
HIGH STD		21850.0	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: $y = 2.2 x + 16.4$

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Mn 257.610 Calibration (ppb) 3/19/2013, 3:08:30 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		55.6184	0.0000	0.0000	-	-
HIGH STD		2331259	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation: $y = 233.1 x + 55.6$ **Mo 202.032 Calibration (ppb) 3/19/2013, 3:08:30 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		14.5620	0.0000	0.0000	-	-
HIGH STD		7789.06	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 7.8 x + 14.6$ **Na 330.237 Calibration (ppb) 3/19/2013, 3:08:30 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-2.1601	0.0000	0.0000	-	-
HIGH STD		809.246	15000.0	15000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 0.1 x + -2.2$ **Ni 231.604 Calibration (ppb) 3/19/2013, 3:08:30 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.8117	0.0000	0.0000	-	-
HIGH STD		13131.9	5000.00	5000.00	-0.0005	0.0

Curve Type: Linear Equation: $y = 2.6 x + 0.8$ **Pb 220.353 Calibration (ppb) 3/19/2013, 3:08:30 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.8047	0.0000	0.0000	-	-
HIGH STD		1787.76	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 1.8 x + 0.8$ **Sb 206.834 Calibration (ppb) 3/19/2013, 3:08:30 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		1.6570	0.0000	0.0000	-	-
HIGH STD		5186.71	5000.00	5000.00	0.0005	0.0

Curve Type: Linear Equation: $y = 1.0 x + 1.7$ **Se 196.026 Calibration (ppb) 3/19/2013, 3:08:30 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-0.8821	0.0000	0.0000	-	-
HIGH STD		5195.05	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 0.5 x + -0.9$

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Sn 189.925 Calibration (ppb) 3/19/2013, 3:08:30 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.8268	0.0000	0.0000	-	-
HIGH STD		10130.8	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 1.0 x + 0.8$ **Sr 216.596 Calibration (ppb) 3/19/2013, 3:08:30 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		8.5426	0.0000	0.0000	-	-
HIGH STD		58815.2	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 11.8 x + 8.5$ **Ti 334.941 Calibration (ppb) 3/19/2013, 3:08:30 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-31.0223	0.0000	0.0000	-	-
HIGH STD		322137	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation: $y = 322.2 x + -31.0$ **Tl 190.794 Calibration (ppb) 3/19/2013, 3:08:30 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.3895	0.0000	0.0000	-	-
HIGH STD		7963.50	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 0.8 x + 0.4$ **V 292.401 Calibration (ppb) 3/19/2013, 3:08:30 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		3.2766	0.0000	0.0000	-	-
HIGH STD		306527	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 30.7 x + 3.3$ **Zn 206.200 Calibration (ppb) 3/19/2013, 3:08:30 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-0.1480	0.0000	0.0000	-	-
HIGH STD		6287.94	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 1.3 x + -0.1$ **Lab Control Sample (LCS) 3/19/2013, 3:13:54 PM Rack S, Tube 2****Weight: 1 Volume: 1 Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	990.518	996.692	1011.52
Al 308.215	9979.94	10013.6	9956.53
As 188.980	1002.71	1018.12	995.092
B 249.678	4989.78	5051.45	5042.85
Ba 389.178	9969.60	10021.3	9966.90

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Label	Replicates Concentration		
Be 313.042	995.203	1002.36	994.615
Ca 370.602	9947	10000	9941
Cd 226.502	996.305	1002.94	996.983
Co 228.615	997.247	1000.86	998.824
Cr 267.716	9974.18	10022.7	9961.17
Cu 324.754	10022.4	10004.4	9766.82
Fe 271.441	9954.49	10004.6	9937.21
K 766.491	19976.5	20071.4	19935.7
Mg 279.078	9984.42	10013.7	9952.60
Mn 257.610	9974.98	9998.58	9957.11
Mo 202.032	992.335	1000.06	991.106
Na 330.237	14803.3	15153.8	14752.0
Ni 231.604	4987.09	5007.10	4979.01
Pb 220.353	994.551	1004.12	996.881
Sb 206.834	4989.28x	5017.35x	4982.38x
Se 196.026	9980.43	10014.1	9945.74
Sn 189.925	10035.1	9961.39	10006.2
Sr 216.596	4993.58	5021.85	4986.66
Ti 334.941	997.347	1002.83	997.224
Tl 190.794	9926.20	10033.9	9965.97
V 292.401	9963.31	10006.1	9961.09
Zn 206.200	4990.68	5013.24	4982.97

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	999.577	ppb	10.7947	1.1	75612.7	99.95773
Al 308.215	9983.36	ppb	28.6892	0.3	58939.3	99.83360
As 188.980	1005.31	ppb	11.7337	1.2	565.305	100.53065
B 249.678	5028.03	ppb	33.3979	0.7	44963.8	100.56052
Ba 389.178	9985.94	ppb	30.6645	0.3	271276	99.85940
Be 313.042	997.392	ppb	4.3099	0.4	2152098	99.73915
Ca 370.602	9963	ppb	32.68	0.3	39172	99.62891
Cd 226.502	998.743	ppb	3.6509	0.4	39651.6	99.87428
Co 228.615	998.977	ppb	1.8115	0.2	12799.1	99.89770
Cr 267.716	9986.00	ppb	32.4139	0.3	476576	99.86005
Cu 324.754	9931.23	ppb	142.664	1.4	543653	99.31226
Fe 271.441	9965.44	ppb	35.0237	0.4	17148.8	99.65444
K 766.491	19994.5	ppb	69.6561	0.3	1327905	99.97273
Mg 279.078	9983.56	ppb	30.5408	0.3	21647.3	99.83559
Mn 257.610	9976.89	ppb	20.7997	0.2	2325967	99.76890
Mo 202.032	994.500	ppb	4.8529	0.5	7725.60	99.45000
Na 330.237	14903.0	ppb	218.651	1.5	753.656	99.35355
Ni 231.604	4991.06	ppb	14.4593	0.3	13108.6	99.82129
Pb 220.353	998.518	ppb	4.9911	0.5	1784.87	99.85182
Sb 206.834	4996.34x	ppb	18.5246	0.4	5280.76	99.92676
Se 196.026	9980.10	ppb	34.2029	0.3	5187.37	99.80105
Sn 189.925	10000.9	ppb	37.1454	0.4	10131.7	100.00893
Sr 216.596	5000.70	ppb	18.6406	0.4	58697.4	100.01396
Ti 334.941	999.132	ppb	3.1988	0.3	321910	99.91321
Tl 190.794	9975.37	ppb	54.4693	0.5	7935.88	99.75365
V 292.401	9976.85	ppb	25.3890	0.3	304933	99.76846
Zn 206.200	4995.63	ppb	15.7300	0.3	6257.86	99.91257

Initial Calib Verif (ICV)

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Rack S, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	994.306	1009.05x	1001.67
Al 308.215	953.654	957.242	956.237

E03192013.wvq. All Data Report 3/20/2013, 1:33:49 PM

Label	Replicates Concentration		
As 188.980	1024.12	1027.27	1023.19
B 249.678	1078.78	1086.42	1084.09
Ba 389.178	1016.34	1016.85	1018.76
Be 313.042	1016.49x	1017.59x	1019.74x
Ca 370.602	961.3	963.8	965.7
Cd 226.502	1014.37x	1019.01x	1017.75x
Co 228.615	974.180	984.808	985.239
Cr 267.716	995.128	996.684	997.645
Cu 324.754	1001.28	1006.00	1006.70
Fe 271.441	984.646	990.897	984.986
K 766.491	10157.7	10153.5	10150.6
Mg 279.078	1026.70	1027.11	1024.52
Mn 257.610	1026.49	1030.46	1030.17
Mo 202.032	999.726	1003.04	1005.83x
Na 330.237	9859.47	10028.6	9967.87
Ni 231.604	1019.00	1025.73	1028.51
Pb 220.353	1018.94	1016.99	1021.35
Sb 206.834	1016.34	1021.72	1007.88
Se 196.026	1001.57	1003.19	1002.74
Sn 189.925	5075.44	5090.16	5085.66
Sr 216.596	5021.11x	5017.00	5023.93x
Ti 334.941	1002.97	1002.74	1004.11
Tl 190.794	1032.46	1036.16	1029.20
V 292.401	1006.22	1007.36	1008.39
Zn 206.200	1009.95	1018.63	1019.05

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	1001.68xb	ppb	7.3733	0.7	75673.6	100.16768
Al 308.215	955.711b	ppb	1.8512	0.2	6010.66	95.57110
As 188.980	1024.86b	ppb	2.1422	0.2	576.320	102.48592
B 249.678	1083.10b	ppb	3.9149	0.4	9774.78	108.30990Q
Ba 389.178	1017.32b	ppb	1.2748	0.1	27608.7	101.73169
Be 313.042	1017.94xb	ppb	1.6543	0.2	2196816	101.79370
Ca 370.602	963.6b	ppb	2.216	0.2	4001	96.35809
Cd 226.502	1017.04xb	ppb	2.3973	0.2	40354.2	101.70429
Co 228.615	981.409b	ppb	6.2644	0.6	12546.2	98.14089
Cr 267.716	996.486b	ppb	1.2703	0.1	47547.2	99.64855
Cu 324.754	1004.66b	ppb	2.9484	0.3	55178.9	100.46568
Fe 271.441	986.843b	ppb	3.5149	0.4	1837.38	98.68431
K 766.491	10153.9b	ppb	3.6123	0.0	674489	101.53946
Mg 279.078	1026.11b	ppb	1.3961	0.1	2239.56	102.61100
Mn 257.610	1029.04b	ppb	2.2120	0.2	239957	102.90430
Mo 202.032	1002.87xb	ppb	3.0577	0.3	7809.26	100.28659
Na 330.237	9951.98b	ppb	85.6873	0.9	519.708	99.51984
Ni 231.604	1024.41b	ppb	4.8914	0.5	2691.17	102.44135
Pb 220.353	1019.09b	ppb	2.1807	0.2	1819.73	101.90941
Sb 206.834	1015.31b	ppb	6.9811	0.7	1059.93	101.53140
Se 196.026	1002.50b	ppb	0.8397	0.1	520.284	100.24991
Sn 189.925	5083.75b	ppb	7.5401	0.1	5150.66	101.67504
Sr 216.596	5020.68xb	ppb	3.4814	0.1	59000.3	100.41355
Ti 334.941	1003.28b	ppb	0.7327	0.1	323197	100.32769
Tl 190.794	1032.61b	ppb	3.4821	0.3	821.885	103.26078
V 292.401	1007.32b	ppb	1.0833	0.1	30609.4	100.73235
Zn 206.200	1015.87b	ppb	5.1383	0.5	1274.98	101.58737

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Initial Calib Blank (ICB) 3/19/2013, 3:24:42 PM Rack S, Tube 1

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2463	0.4364	-0.2833u
Al 308.215	3.3751	0.8057	1.5983
As 188.980	8.0773	2.6054	4.5612
B 249.678	18.2721	17.0567	14.6007
Ba 389.178	0.3152	1.4672	0.6364
Be 313.042	0.0762	0.0764	0.0752
Ca 370.602	-3.959u	-2.440u	-3.471u
Cd 226.502	0.1124	0.2786	0.0553
Co 228.615	0.4032	0.3458	-0.2183u
Cr 267.716	0.6211	0.3599	0.4403
Cu 324.754	0.0229	-0.0130u	-0.4388u
Fe 271.441	-1.0671u	-4.1558u	-4.7252u
K 766.491	0.2405	0.3336	0.6256
Mg 279.078	4.4071	2.8363	-2.2214u
Mn 257.610	0.3259	0.3274	0.2867
Mo 202.032	1.1883	0.8701	0.5817
Na 330.237	51.5491	-59.6292u	-37.9682u
Ni 231.604	0.9762	0.5795	0.4646
Pb 220.353	-0.5214u	2.6548	-1.6318u
Sb 206.834	2.5074	1.4288	3.8930
Se 196.026	2.6579	3.1861	4.8474
Sn 189.925	-1.2639u	-3.5175u	1.9554
Sr 216.596	0.5226	0.7639	0.0638
Ti 334.941	0.3308	0.3247	0.3368
Tl 190.794	11.2542	-4.6026u	3.5297
V 292.401	0.8374	0.3272	0.3128
Zn 206.200	1.1205	2.4401	-0.8577u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1331	ppb	0.3730	280.2	-50.5359	0.13312
Al 308.215	1.9264	ppb	1.3158	68.3	283.287	1.92636
As 188.980	5.0813	ppb	2.7727	54.6	2.6248	5.08130
B 249.678	16.6431	ppb	1.8703	11.2	260.719	16.64314
Ba 389.178	0.8062	ppb	0.5945	73.7	-14.8239	0.80624
Be 313.042	0.0760	ppb	0.0006	0.8	28.4176	0.07596
Ca 370.602	-3.290	ppb	0.7757	23.6	0.3766	-3.28989
Cd 226.502	0.1487	ppb	0.1160	78.0	14.0708	0.14875
Co 228.615	0.1769	ppb	0.3435	194.2	15.6552	0.17688
Cr 267.716	0.4737	ppb	0.1338	28.2	19.7097	0.47373
Cu 324.754	-0.1430	ppb	0.2568	179.6	164.511	-0.14297
Fe 271.441	-3.3160	ppb	1.9683	59.4	-2.0791	-3.31603
K 766.491	0.3999	ppb	0.2009	50.2	294.214	0.39992
Mg 279.078	1.6740	ppb	3.4637	206.9	20.0104	1.67400
Mn 257.610	0.3133	ppb	0.0231	7.4	128.671	0.31333
Mo 202.032	0.8800	ppb	0.3034	34.5	21.4029	0.88004
Na 330.237	-15.3494	ppb	58.9395	384.0	-3.0007	-15.34942
Ni 231.604	0.6735	ppb	0.2684	39.9	2.5803	0.67345
Pb 220.353	0.1672	ppb	2.2247	1330.6	1.1020	0.16719
Sb 206.834	2.6097	ppb	1.2353	47.3	4.3559	2.60973
Se 196.026	3.5638	ppb	1.1426	32.1	0.9697	3.56379
Sn 189.925	-0.9420	ppb	2.7506	292.0	-0.1274	-0.94199
Sr 216.596	0.4501	ppb	0.3556	79.0	13.7830	0.45009
Ti 334.941	0.3308	ppb	0.0060	1.8	75.5506	0.33077
Tl 190.794	3.3938	ppb	7.9293	233.6	3.0916	3.39377
V 292.401	0.4925	ppb	0.2988	60.7	18.1375	0.49246
Zn 206.200	0.9010	ppb	1.6598	184.2	0.9839	0.90099

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CRI (CRI) **3/19/2013, 3:33:21 PM** **Rack S, Tube 4**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	9.8052	9.7146	10.6570
Al 308.215	229.668	232.323	229.249
As 188.980	16.8711	17.7233	19.4408
B 249.678	104.217	105.772	102.944
Ba 389.178	10.3499	10.9992	10.6942
Be 313.042	4.1045	4.1146	4.0803
Ca 370.602	566.5	568.0	560.0
Cd 226.502	5.2236	5.1290	5.1983
Co 228.615	10.2012	10.9374	10.3182
Cr 267.716	10.3293	10.4163	10.2397
Cu 324.754	20.2708	20.2626	19.8075
Fe 271.441	55.1841	56.1191	48.3328
K 766.491	1070.30	1072.56	1064.56
Mg 279.078	535.147	531.445	531.948
Mn 257.610	11.1314	11.1632	11.0776
Mo 202.032	9.8860	9.7997	9.4951
Na 330.237	1125.82	1081.62	1183.34
Ni 231.604	42.2489	42.3276	41.2567
Pb 220.353	12.3300	11.5053	11.1553
Sb 206.834	18.4990	22.9242	24.5688
Se 196.026	22.7739	17.5227	20.4719
Sn 189.925	52.3025	53.8041	52.5940
Sr 216.596	10.7202	10.9608	10.3817
Ti 334.941	10.5834	10.6777	10.4935
Tl 190.794	26.1104	25.1081	30.4263
V 292.401	10.3782	10.4858	10.2104
Zn 206.200	21.9936	20.9633	23.2935

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	10.0589	ppb	0.5199	5.2	701.750	100.58922
Al 308.215	230.414	ppb	1.6671	0.7	1628.06	115.20683
As 188.980	18.0117	ppb	1.3089	7.3	9.9039	90.05860
B 249.678	104.311	ppb	1.4163	1.4	1042.85	104.31062
Ba 389.178	10.6811	ppb	0.3249	3.0	255.193	106.81092
Be 313.042	4.0998	ppb	0.0176	0.4	8711.83	102.49545
Ca 370.602	564.8	ppb	4.243	0.8	2249	112.96568
Cd 226.502	5.1836	ppb	0.0490	0.9	213.935	103.67237
Co 228.615	10.4856	ppb	0.3956	3.8	147.363	104.85613
Cr 267.716	10.3284	ppb	0.0883	0.9	490.038	103.28448
Cu 324.754	20.1136	ppb	0.2652	1.3	1273.37	100.56822
Fe 271.441	53.2120	ppb	4.2513	8.0	95.5201	106.42399
K 766.491	1069.14	ppb	4.1268	0.4	71258.7	106.91427
Mg 279.078	532.847	ppb	2.0078	0.4	1179.51	106.56932
Mn 257.610	11.1241	ppb	0.0433	0.4	2652.66	111.24066
Mo 202.032	9.7269	ppb	0.2053	2.1	90.1602	97.26920
Na 330.237	1130.26	ppb	51.0049	4.5	58.7040	113.02579
Ni 231.604	41.9444	ppb	0.5969	1.4	110.968	104.86103
Pb 220.353	11.6635	ppb	0.6031	5.2	21.6214	116.63548
Sb 206.834	21.9974	ppb	3.1393	14.3	24.4852	109.98677
Se 196.026	20.2562	ppb	2.6322	13.0	9.6461	101.28094
Sn 189.925	52.9002	ppb	0.7963	1.5	54.4154	105.80042
Sr 216.596	10.6876	ppb	0.2909	2.7	133.176	106.87575
Ti 334.941	10.5849	ppb	0.0921	0.9	3381.78	105.84873
Tl 190.794	27.2149	ppb	2.8259	10.4	22.0512	108.85976
V 292.401	10.3582	ppb	0.1388	1.3	318.175	103.58155
Zn 206.200	22.0835	ppb	1.1677	5.3	27.5991	110.41732

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Interf Check A (ICSA) 3/19/2013, 3:38:46 PM Rack S, Tube 5

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1606u	0.5734	-0.2305u
Al 308.215	543060	544376	544489
As 188.980	3.7537	9.2819	1.4423
B 249.678	-33.8924u	-35.7043u	-33.7445u
Ba 389.178	1.4921	1.8104	1.0868
Be 313.042	-0.1521u	-0.1351u	-0.1605u
Ca 370.602	503502	507200	506921
Cd 226.502	0.3893	0.3838	0.1863
Co 228.615	1.0122	1.3451	-0.0984u
Cr 267.716	0.8424	0.9636	0.8287
Cu 324.754	0.4231	0.9595	-1.0957
Fe 271.441	201411	201606	201558
K 766.491	2.8060	2.5991	3.0409
Mg 279.078	557843	556422	560091
Mn 257.610	-2.0893	-2.0551	-2.0522
Mo 202.032	1.3452u	0.4251u	2.4060
Na 330.237	-279.248u	-404.312u	15.1278u
Ni 231.604	2.4362	2.8019	4.7021
Pb 220.353	7.5976	-2.7058u	4.0121u
Sb 206.834	8.5160	-0.3087	1.0704
Se 196.026	-5.6160u	-11.3024u	-7.0541u
Sn 189.925	-4.8965u	-2.5222u	-6.0228u
Sr 216.596	4.4166	5.3945	4.5680
Ti 334.941	0.3964	0.5426	0.4959
Tl 190.794	9.7731u	5.0192u	12.3176
V 292.401	-1.5053u	-1.8410u	-1.8496u
Zn 206.200	16.0688	18.4590	19.2307

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0608	ppb	0.4453	732.5	-64.1454	0.06080
Al 308.215	543975	ppb	794.189	0.1	3199533	-
As 188.980	4.8260	ppb	4.0283	83.5	4.4581	4.82598
B 249.678	-34.4471	ppb	1.0913	3.2	-374.547	-34.44707
Ba 389.178	1.4631	ppb	0.3627	24.8	2051.58	1.46311
Be 313.042	-0.1493	ppb	0.0129	8.7	-226.759	-0.14925
Ca 370.602	505874	ppb	2059	0.4	1984454	-
Cd 226.502	0.3198	ppb	0.1156	36.2	549.647	0.31982
Co 228.615	0.7529	ppb	0.7558	100.4	15.6975	0.75294
Cr 267.716	0.8782	ppb	0.0743	8.5	91.8274	0.87824
Cu 324.754	0.0956	ppb	1.0660	1115.1	242.945	0.09560
Fe 271.441	201525	ppb	101.563	0.1	341747	-
K 766.491	2.8153	ppb	0.2210	7.9	454.598	2.81535
Mg 279.078	558118	ppb	1849.86	0.3	1218459	-
Mn 257.610	-2.0655	ppb	0.0206	1.0	3945.03	-2.06553
Mo 202.032	1.3921	ppb	0.9913	71.2	14.5507	1.39209
Na 330.237	-222.810	ppb	215.340	96.6	-78.0098	-222.81049
Ni 231.604	3.3134	ppb	1.2165	36.7	13.9000	3.31339
Pb 220.353	2.9680	ppb	5.2305	176.2	-4.5625	2.96799
Sb 206.834	3.0926	ppb	4.7472	153.5	9.6328	3.09258
Se 196.026	-7.9908	ppb	2.9567	37.0	-3.7882	-7.99085
Sn 189.925	-4.4805	ppb	1.7870	39.9	-3.4619	-4.48050
Sr 216.596	4.7930	ppb	0.5264	11.0	210.671	4.79303
Ti 334.941	0.4783	ppb	0.0747	15.6	3083.79	0.47828
Tl 190.794	9.0366	ppb	3.7045	41.0	-0.6808	9.03660
V 292.401	-1.7319	ppb	0.1963	11.3	-46.5058	-1.73195
Zn 206.200	17.9195	ppb	1.6485	9.2	22.3831	17.91952

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Interf Check AB (ICSAB) 3/19/2013, 3:44:13 PM Rack S, Tube 6
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	225.098	224.777	226.025
Al 308.215	539676	539203	538478
As 188.980	118.224	112.571	125.150
B 249.678	-38.8187u	-38.7867u	-37.6235u
Ba 389.178	524.583	524.128	522.003
Be 313.042	506.615	507.013	504.615
Ca 370.602	503495	503743	500629
Cd 226.502	996.568	993.494	990.276
Co 228.615	492.921	497.456	493.369
Cr 267.716	509.354	508.488	507.266
Cu 324.754	544.472	552.709	549.390
Fe 271.441	199922	199610	199508
K 766.491	2.3473	2.1841	2.5380
Mg 279.078	555483	555844	555471
Mn 257.610	502.451	501.919	500.592
Mo 202.032	1093.89	1091.83	1091.02
Na 330.237	-328.597u	-703.242u	-690.542u
Ni 231.604	978.950	981.284	976.411
Pb 220.353	49.1309	51.0316	44.4375
Sb 206.834	648.777	651.435	642.274
Se 196.026	32.2270	53.8940	37.5641
Sn 189.925	1075.87	1063.49	1054.44
Sr 216.596	6.7993	4.3833	6.0168
Ti 334.941	-6.1521	-6.2297	-6.2661
Tl 190.794	113.839	115.674	94.4000
V 292.401	510.251	509.411	509.022
Zn 206.200	990.202	987.905	982.275

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	225.300	ppb	0.6482	0.3	17020.3	112.65012
Al 308.215	539119	ppb	603.365	0.1	3171112	107.82375
As 188.980	118.648	ppb	6.3000	5.3	68.2389	118.64822
B 249.678	-38.4096	ppb	0.6810	1.8	-408.444	-
Ba 389.178	523.571	ppb	1.3767	0.3	16229.4	104.71426
Be 313.042	506.081	ppb	1.2853	0.3	1092234	101.21621
Ca 370.602	502623	ppb	1731	0.3	1971754	100.52450
Cd 226.502	993.446	ppb	3.1465	0.3	39939.9	99.34462
Co 228.615	494.582	ppb	2.4987	0.5	6286.94	98.91639
Cr 267.716	508.369	ppb	1.0491	0.2	24302.0	101.67386
Cu 324.754	548.857	ppb	4.1442	0.8	30304.5	109.77142
Fe 271.441	199680	ppb	215.808	0.1	338699	99.84007
K 766.491	2.3565	ppb	0.1771	7.5	424.129	-
Mg 279.078	555599	ppb	212.392	0.0	1212951	111.11983
Mn 257.610	501.654	ppb	0.9578	0.2	121349	100.33080
Mo 202.032	1092.25	ppb	1.4817	0.1	8494.48	109.22471
Na 330.237	-574.127	ppb	212.730	37.1	-104.029	-
Ni 231.604	978.882	ppb	2.4376	0.2	2575.92	97.88817
Pb 220.353	48.2000	ppb	3.3942	7.0	74.7595	96.39994
Sb 206.834	647.495	ppb	4.7132	0.7	671.975	107.91586
Se 196.026	41.2284	ppb	11.2887	27.4	21.9064	82.45672
Sn 189.925	1064.60	ppb	10.7624	1.0	1079.51	106.46006
Sr 216.596	5.7331	ppb	1.2327	21.5	159.472	-
Ti 334.941	-6.2160	ppb	0.0582	0.9	912.224	-
Tl 190.794	107.971	ppb	11.7884	10.9	77.6121	107.97076
V 292.401	509.561	ppb	0.6282	0.1	15353.0	101.91229
Zn 206.200	986.794	ppb	4.0784	0.4	1239.61	98.67941

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LRA1 (Samp) **3/19/2013, 3:49:39 PM** **Rack S, Tube 7**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.1229	-1.1412	-1.1162
Al 308.215	123.873	129.787	120.861
As 188.980	10611.1	10671.7	10764.8
B 249.678	17.1623	16.6196	16.4615
Ba 389.178	-1.8400u	-1.4787u	-1.5932u
Be 313.042	0.0973	0.1093	0.0869
Ca 370.602	166.4	197.6	185.9
Cd 226.502	-0.7159u	-0.7000u	-0.9934u
Co 228.615	10191.3	10341.8	10334.5
Cr 267.716	0.3138	0.0976	0.2700
Cu 324.754	49956.9x	50173.2x	50428.7x
Fe 271.441	-229.169	-214.410	-235.978
K 766.491	39365.0x	39678.8x	39787.1x
Mg 279.078	108.164u	110.043u	97.5965u
Mn 257.610	28020.0x	28226.4x	28168.5x
Mo 202.032	1.0829	0.1719	0.6460
Na 330.237	-385.212u	-740.240u	-629.207u
Ni 231.604	10260.8x	10304.0x	10288.7x
Pb 220.353	6.4124u	7.0447u	8.3419u
Sb 206.834	7.2128	10.8304	8.9985
Se 196.026	-6.8902	12.7684	0.1753
Sn 189.925	-0.1805u	0.0629	-0.0509u
Sr 216.596	-6.8660u	-7.5106u	-7.1510u
Ti 334.941	37137.4x	37475.8x	37365.2x
Tl 190.794	171.328	165.540	163.615
V 292.401	2.0627	1.6896	1.9400
Zn 206.200	30546.5x	30746.8x	30715.8x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1268b	ppb	0.0129	1.1	-13.6135
Al 308.215	124.840b	ppb	4.5409	3.6	1005.66
As 188.980	10682.5b	ppb	77.4662	0.7	6011.99
B 249.678	16.7478b	ppb	0.3676	2.2	260.967
Ba 389.178	-1.6373b	ppb	0.1846	11.3	-80.0907
Be 313.042	0.0978b	ppb	0.0112	11.5	71.3970
Ca 370.602	183.3b	ppb	15.78	8.6	10178
Cd 226.502	-0.8031b	ppb	0.1650	20.5	-21.4550
Co 228.615	10289.2b	ppb	84.8785	0.8	132568
Cr 267.716	0.2271b	ppb	0.1143	50.3	198.921
Cu 324.754	50186.3xb	ppb	236.188	0.5	2746970
Fe 271.441	-226.519b	ppb	11.0254	4.9	1217.46
K 766.491	39610.3xb	ppb	219.239	0.6	2630389
Mg 279.078	105.268b	ppb	6.7096	6.4	-220.621
Mn 257.610	28138.3xb	ppb	106.489	0.4	6559660
Mo 202.032	0.6336b	ppb	0.4556	71.9	19.3936
Na 330.237	-584.887b	ppb	181.616	31.1	-577.120
Ni 231.604	10284.5xb	ppb	21.8993	0.2	27010.1
Pb 220.353	7.2663b	ppb	0.9837	13.5	-4.9380
Sb 206.834	9.0139b	ppb	1.8088	20.1	11.0430
Se 196.026	2.0178b	ppb	9.9579	493.5	7.4821
Sn 189.925	-0.0562b	ppb	0.1218	216.8	0.7660
Sr 216.596	-7.1758b	ppb	0.3230	4.5	-265.584
Ti 334.941	37326.1xb	ppb	172.520	0.5	12025260
Tl 190.794	166.828b	ppb	4.0149	2.4	104.753
V 292.401	1.8974b	ppb	0.1902	10.0	715.057
Zn 206.200	30669.7xb	ppb	107.806	0.4	38570.6

E03192013.wvq. All Data Report 3/20/2013, 1:33:49 PM

LRA2 (Samp) 3/19/2013, 3:55:07 PM **Rack S, Tube 8****Weight: 1** **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.9980u	-0.9132u	-1.1512u
Al 308.215	867099	866616	866012
As 188.980	50.4571	51.6104	17.5971
B 249.678	-178.551u	-178.618u	-179.248u
Ba 389.178	10.6406	7.4209	7.8730
Be 313.042	-0.2214u	-0.2368u	-0.2273u
Ca 370.602	791776	796739	796071
Cd 226.502	0.1657	-0.2098	-0.5823
Co 228.615	21.0462	20.3848	19.3942
Cr 267.716	2.9429	2.8255	2.8381
Cu 324.754	11.4080	10.0436	9.3145
Fe 271.441	912592	910102	907415
K 766.491	74.5563	73.2806	73.4051
Mg 279.078	880367x	879936x	878295x
Mn 257.610	31.4406	30.8636	30.3819
Mo 202.032	3.4495u	2.3509u	-0.0703u
Na 330.237	132484x	132174x	132227x
Ni 231.604	23.5400	19.6739	23.5710
Pb 220.353	19309.2	19328.9	19292.7
Sb 206.834	9.2402	-2.1648	9.5679
Se 196.026	-29.8242u	8.2358	-9.5627
Sn 189.925	2.9336	-2.9512u	-2.1916u
Sr 216.596	19.3758	19.4351	18.0176
Ti 334.941	44.3689	42.2078	40.5104
Tl 190.794	10.3795u	23.7407u	9.2488u
V 292.401	5.1248	5.7650	5.1396
Zn 206.200	39.3649	34.8127	31.7659

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0208b	ppb	0.1206	11.8	-154.374
Al 308.215	866576b	ppb	544.989	0.1	5096835
As 188.980	39.8882b	ppb	19.3133	48.4	19.7953
B 249.678	-178.806b	ppb	0.3845	0.2	-2293.50
Ba 389.178	8.6448b	ppb	1.7431	20.2	4412.46
Be 313.042	-0.2285b	ppb	0.0078	3.4	-301.276
Ca 370.602	794862b	ppb	2693	0.3	3057931
Cd 226.502	-0.2088b	ppb	0.3740	179.1	2365.70
Co 228.615	20.2751b	ppb	0.8314	4.1	239.838
Cr 267.716	2.8688b	ppb	0.0645	2.2	359.153
Cu 324.754	10.2554b	ppb	1.0627	10.4	1028.75
Fe 271.441	910036b	ppb	2588.96	0.3	1543232
K 766.491	73.7473b	ppb	0.7034	1.0	5164.48
Mg 279.078	879533xb	ppb	1092.87	0.1	1920253
Mn 257.610	30.8953b	ppb	0.5301	1.7	15782.9
Mo 202.032	1.9100b	ppb	1.8009	94.3	-19.5454
Na 330.237	132295xb	ppb	165.993	0.1	6866.31
Ni 231.604	22.2616b	ppb	2.2411	10.1	78.4936
Pb 220.353	19310.3b	ppb	18.1298	0.1	34490.3
Sb 206.834	5.5478b	ppb	6.6813	120.4	28.9833
Se 196.026	-10.3837b	ppb	19.0433	183.4	-0.6526
Sn 189.925	-0.7364b	ppb	3.2009	434.7	0.5122
Sr 216.596	18.9428b	ppb	0.8018	4.2	725.568
Ti 334.941	42.3624b	ppb	1.9339	4.6	18349.4
Tl 190.794	14.4563b	ppb	8.0603	55.8	-25.4107
V 292.401	5.3432b	ppb	0.3654	6.8	172.269
Zn 206.200	35.3145b	ppb	3.8242	10.8	44.2460

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

RINSE (Samp) 3/19/2013, 4:00:43 PM Rack S, Tube 1

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5429	-0.2185u	-0.0854u
Al 308.215	67.0191	65.2880	67.9408
As 188.980	1.6946	1.1128	3.4742
B 249.678	-6.3662u	-6.6617u	-6.7682u
Ba 389.178	-0.0930u	0.2930	0.5151
Be 313.042	-0.0443u	-0.0365u	-0.0411u
Ca 370.602	67.49	69.24	67.25
Cd 226.502	0.0941	-0.0705u	-0.0634u
Co 228.615	0.3175	0.5735	0.0374
Cr 267.716	-0.0863u	-0.0244u	-0.0359u
Cu 324.754	1.6105	0.3831	0.6948
Fe 271.441	55.9775	58.2111	36.3099
K 766.491	0.6412	-0.5176u	0.1357
Mg 279.078	77.4465	74.2074	70.0896
Mn 257.610	1.1252	0.9792	0.9052
Mo 202.032	-0.8727u	-1.3479u	-0.7929u
Na 330.237	-213.403u	-11.9336u	38.6461
Ni 231.604	-0.2606u	0.7914	-1.3847u
Pb 220.353	-0.8802u	1.4210	1.8340
Sb 206.834	-2.1362u	-4.6886u	-1.1298u
Se 196.026	-0.8100u	2.5258	4.5841
Sn 189.925	-0.7061u	-3.5818u	-0.3601u
Sr 216.596	-0.3405u	-0.4889u	-0.1734u
Ti 334.941	1.4738	1.2581	1.1094
Tl 190.794	-2.0656u	0.4149	-0.8486u
V 292.401	0.0166	0.0307	-0.1307u
Zn 206.200	0.6981	1.0498	0.6365

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0797	ppb	0.4067	510.5	-54.5292
Al 308.215	66.7493	ppb	1.3468	2.0	664.302
As 188.980	2.0939	ppb	1.2303	58.8	0.9440
B 249.678	-6.5987	ppb	0.2083	3.2	53.3115
Ba 389.178	0.2384	ppb	0.3077	129.1	-29.9593
Be 313.042	-0.0406	ppb	0.0040	9.7	-222.871
Ca 370.602	67.99	ppb	1.085	1.6	278.3
Cd 226.502	-0.0133	ppb	0.0930	700.6	7.7669
Co 228.615	0.3094	ppb	0.2682	86.7	17.4385
Cr 267.716	-0.0489	ppb	0.0329	67.4	-5.2112
Cu 324.754	0.8961	ppb	0.6380	71.2	221.352
Fe 271.441	50.1662	ppb	12.0517	24.0	88.6522
K 766.491	0.0864	ppb	0.5809	672.2	273.398
Mg 279.078	73.9145	ppb	3.6872	5.0	177.715
Mn 257.610	1.0032	ppb	0.1119	11.2	290.128
Mo 202.032	-1.0045	ppb	0.3001	29.9	6.7501
Na 330.237	-62.2303	ppb	133.340	214.3	-5.5584
Ni 231.604	-0.2846	ppb	1.0882	382.3	0.0651
Pb 220.353	0.7916	ppb	1.4625	184.8	2.2184
Sb 206.834	-2.6515	ppb	1.8345	69.2	-1.0793
Se 196.026	2.1000	ppb	2.7222	129.6	0.2096
Sn 189.925	-1.5493	ppb	1.7687	114.2	-0.7426
Sr 216.596	-0.3343	ppb	0.1579	47.2	4.6767
Ti 334.941	1.2804	ppb	0.1832	14.3	381.888
Tl 190.794	-0.8331	ppb	1.2403	148.9	-0.2766
V 292.401	-0.0278	ppb	0.0894	321.5	2.6174
Zn 206.200	0.7948	ppb	0.2230	28.1	0.8514

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

Cont Calib Verif (CCV) 3/19/2013, 4:06:55 PM Rack 1, Tube 1
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	498.952	501.668	499.855
Al 308.215	5085.30	5039.64	5046.72
As 188.980	490.949	500.088	484.959
B 249.678	2546.91	2563.67	2579.27
Ba 389.178	5005.39	4988.05	4995.49
Be 313.042	496.327	494.895	496.770
Ca 370.602	5021	4996	5021
Cd 226.502	498.358	498.133	499.828
Co 228.615	503.879	502.884	504.280
Cr 267.716	4972.84	4954.39	4969.36
Cu 324.754	4872.49	4944.38	4981.12
Fe 271.441	5081.22	5079.03	5103.23
K 766.491	10082.0	10031.5	10028.4
Mg 279.078	4995.84	5001.24	5015.21
Mn 257.610	5014.97	5008.54	5031.42
Mo 202.032	503.468	499.161	503.132
Na 330.237	7608.70	7251.98	7775.64
Ni 231.604	2512.31	2513.19	2525.50
Pb 220.353	499.826	501.994	501.458
Sb 206.834	970.377	959.698	970.231
Se 196.026	5038.52	4994.82	5010.10
Sn 189.925	5079.78	5115.75	5105.40
Sr 216.596	2483.16	2467.09	2473.40
Ti 334.941	493.438	491.207	491.471
Tl 190.794	5096.04	5059.34	5100.74
V 292.401	4984.32	4977.83	4994.29
Zn 206.200	2517.64	2522.88	2526.39

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	500.158	ppb	1.3832	0.3	37805.1	100.03160
Al 308.215	5057.22	ppb	24.5734	0.5	29991.7	101.14436
As 188.980	491.999	ppb	7.6190	1.5	276.537	98.39974
B 249.678	2563.28	ppb	16.1823	0.6	22977.5	102.53136
Ba 389.178	4996.31	ppb	8.6950	0.2	135711	99.92620
Be 313.042	495.997	ppb	0.9801	0.2	1070157	99.19948
Ca 370.602	5012	ppb	14.55	0.3	19704	100.24643
Cd 226.502	498.773	ppb	0.9207	0.2	19806.5	99.75465
Co 228.615	503.681	ppb	0.7189	0.1	6459.30	100.73625
Cr 267.716	4965.53	ppb	9.8061	0.2	236975	99.31059
Cu 324.754	4932.66	ppb	55.2519	1.1	270110	98.65328
Fe 271.441	5087.82	ppb	13.3856	0.3	8754.92	101.75648
K 766.491	10047.3	ppb	30.0926	0.3	667406	100.47272
Mg 279.078	5004.10	ppb	9.9948	0.2	10858.2	100.08195
Mn 257.610	5018.31	ppb	11.7967	0.2	1169974	100.36619
Mo 202.032	501.920	ppb	2.3954	0.5	3906.39	100.38408
Na 330.237	7545.44	ppb	267.499	3.5	380.661	100.60587
Ni 231.604	2517.00	ppb	7.3760	0.3	6611.11	100.67996
Pb 220.353	501.093	ppb	1.1293	0.2	896.118	100.21854
Sb 206.834	966.768	ppb	6.1237	0.6	1052.80	96.67684
Se 196.026	5014.48	ppb	22.1783	0.4	2605.94	100.28958
Sn 189.925	5100.31	ppb	18.5177	0.4	5167.44	102.00625
Sr 216.596	2474.55	ppb	8.0946	0.3	29049.1	98.98215
Ti 334.941	492.039	ppb	1.2192	0.2	158514	98.40773
Tl 190.794	5085.37	ppb	22.6684	0.4	4045.88	101.70743
V 292.401	4985.48	ppb	8.2888	0.2	152379	99.70960
Zn 206.200	2522.30	ppb	4.4038	0.2	3159.72	100.89212

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

Cont Calib Blank (CCB) 3/19/2013, 4:12:19 PM Rack 1, Tube 2

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3352u	0.2873	0.5395
Al 308.215	5.6608	7.3598	10.0716
As 188.980	5.6672	3.2173	2.8526
B 249.678	16.3548	13.4923	11.0941
Ba 389.178	0.2250	1.4797	1.1315
Be 313.042	-0.0265u	-0.0156u	-0.0033u
Ca 370.602	1.437	1.142	6.854
Cd 226.502	-0.0071u	0.0387	0.0906
Co 228.615	0.4592	0.0800	0.4182
Cr 267.716	0.5959	0.5438	0.8118
Cu 324.754	0.5736	-0.2660u	-0.2664u
Fe 271.441	5.4546	11.4958	8.4656
K 766.491	-0.3985u	-0.3299u	-0.2857u
Mg 279.078	5.6288	3.7364	8.4207
Mn 257.610	0.4647	0.4785	0.6162
Mo 202.032	0.0169	-0.1548u	-0.0886u
Na 330.237	-17.5036u	-99.0490u	-83.7180u
Ni 231.604	-0.9680u	0.5003	2.8502
Pb 220.353	0.3242	0.6253	-2.6366u
Sb 206.834	-2.9433u	2.5557	2.1695
Se 196.026	1.5533	3.3535	-1.1462u
Sn 189.925	0.5954	-2.0419u	-0.2570u
Sr 216.596	0.4033	0.3028	0.0178
Ti 334.941	0.3150	0.2395	0.3034
Tl 190.794	0.1030	2.0104	3.3592
V 292.401	0.6415	0.4898	0.7880
Zn 206.200	0.6829	1.4086	1.5187

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1639	ppb	0.4502	274.8	-48.1698	0.16387
Al 308.215	7.6974	ppb	2.2247	28.9	317.077	7.69742
As 188.980	3.9124	ppb	1.5306	39.1	1.9672	3.91239
B 249.678	13.6471	ppb	2.6337	19.3	233.982	13.64706
Ba 389.178	0.9454	ppb	0.6477	68.5	-11.0241	0.94540
Be 313.042	-0.0151	ppb	0.0116	76.8	-167.955	-0.01511
Ca 370.602	3.145	ppb	3.216	102.3	25.15	3.14456
Cd 226.502	0.0408	ppb	0.0489	119.9	9.8069	0.04077
Co 228.615	0.3192	ppb	0.2081	65.2	17.5142	0.31917
Cr 267.716	0.6505	ppb	0.1421	21.8	28.1468	0.65047
Cu 324.754	0.0137	ppb	0.4848	3530.7	173.056	0.01373
Fe 271.441	8.4720	ppb	3.0206	35.7	17.9039	8.47201
K 766.491	-0.3380	ppb	0.0569	16.8	245.214	-0.33804
Mg 279.078	5.9287	ppb	2.3565	39.7	29.2960	5.92865
Mn 257.610	0.5198	ppb	0.0837	16.1	176.857	0.51980
Mo 202.032	-0.0755	ppb	0.0866	114.7	13.9733	-0.07551
Na 330.237	-66.7569	ppb	43.3379	64.9	-5.7868	-66.75688
Ni 231.604	0.7942	ppb	1.9260	242.5	2.8975	0.79418
Pb 220.353	-0.5624	ppb	1.8026	320.5	-0.2002	-0.56236
Sb 206.834	0.5940	ppb	3.0695	516.8	2.2818	0.59397
Se 196.026	1.2535	ppb	2.2647	180.7	-0.2306	1.25353
Sn 189.925	-0.5679	ppb	1.3459	237.0	0.2516	-0.56786
Sr 216.596	0.2413	ppb	0.2000	82.9	11.3719	0.24127
Ti 334.941	0.2860	ppb	0.0407	14.2	61.1473	0.28597
Tl 190.794	1.8242	ppb	1.6361	89.7	1.8416	1.82423
V 292.401	0.6398	ppb	0.1491	23.3	22.8834	0.63976
Zn 206.200	1.2034	ppb	0.4541	37.7	1.3638	1.20341

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

MB 680-269729/1-A (Samp) 3/19/2013, 4:17:43 PM Rack 1, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.8003	0.0485	-0.2025u
Al 308.215	8.3406	8.9908	8.4560
As 188.980	-1.0979u	0.7976	-0.4459u
B 249.678	-0.3023u	-0.0764u	-1.9283u
Ba 389.178	0.0138	0.0317	-0.2283u
Be 313.042	-0.0662u	-0.0624u	-0.0628u
Ca 370.602	17.58	17.36	14.87
Cd 226.502	0.1942	-0.0857u	0.0782
Co 228.615	-0.6002u	0.6434	-0.2813u
Cr 267.716	0.3468	0.2426	0.3927
Cu 324.754	-0.4398u	-0.1508u	-0.1231u
Fe 271.441	20.1969	14.9886	13.3225
K 766.491	9.7289	10.4031	10.2045
Mg 279.078	5.7356	2.3762	7.5530
Mn 257.610	0.2361	0.1943	0.2353
Mo 202.032	-0.5888u	-0.7098u	-0.2701u
Na 330.237	52.2948	-21.6607u	209.631
Ni 231.604	1.2478	1.3433	0.7658
Pb 220.353	1.1795	0.8624	0.5056
Sb 206.834	-1.8799u	5.4794	-2.5105u
Se 196.026	-0.7340u	3.1340	7.6038
Sn 189.925	14.0963	11.9508	13.0484
Sr 216.596	-0.5123u	-0.3234u	-0.0612u
Ti 334.941	0.2741	0.3163	0.2566
Tl 190.794	-0.3821u	-2.3509u	-2.8041u
V 292.401	-0.2347u	-0.1859u	0.2812
Zn 206.200	5.6091	4.7833	3.2143

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2154	ppb	0.5218	242.2	-44.2646
Al 308.215	8.5958	ppb	0.3469	4.0	322.353
As 188.980	-0.2487	ppb	0.9630	387.2	-0.3747
B 249.678	-0.7690	ppb	1.0103	131.4	105.354
Ba 389.178	-0.0609	ppb	0.1452	238.4	-38.3516
Be 313.042	-0.0638	ppb	0.0021	3.3	-272.973
Ca 370.602	16.60	ppb	1.507	9.1	77.75
Cd 226.502	0.0622	ppb	0.1407	226.0	10.6756
Co 228.615	-0.0794	ppb	0.6459	813.8	12.4147
Cr 267.716	0.3274	ppb	0.0769	23.5	12.7357
Cu 324.754	-0.2379	ppb	0.1754	73.7	159.288
Fe 271.441	16.1693	ppb	3.5861	22.2	30.9680
K 766.491	10.1122	ppb	0.3465	3.4	939.107
Mg 279.078	5.2216	ppb	2.6264	50.3	27.7581
Mn 257.610	0.2219	ppb	0.0239	10.8	107.428
Mo 202.032	-0.5229	ppb	0.2271	43.4	10.4959
Na 330.237	80.0883	ppb	118.124	147.5	2.1301
Ni 231.604	1.1190	ppb	0.3096	27.7	3.7506
Pb 220.353	0.8492	ppb	0.3372	39.7	2.3222
Sb 206.834	0.3630	ppb	4.4421	1223.8	2.0439
Se 196.026	3.3346	ppb	4.1725	125.1	0.8506
Sn 189.925	13.0318	ppb	1.0728	8.2	14.0281
Sr 216.596	-0.2990	ppb	0.2265	75.8	5.0202
Ti 334.941	0.2823	ppb	0.0307	10.9	59.9581
Tl 190.794	-1.8457	ppb	1.2876	69.8	-1.0809
V 292.401	-0.0465	ppb	0.2848	612.8	1.8974
Zn 206.200	4.5356	ppb	1.2165	26.8	5.5551

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

LCS 680-269729/2-A (Samp) 3/19/2013, 4:23:07 PM Rack 1, Tube 4
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	51.7105	52.2862	51.3430
Al 308.215	4971.89	5002.70	4989.15
As 188.980	82.1006	77.0009	76.0924
B 249.678	195.854	197.656	199.374
Ba 389.178	102.948	103.421	104.240
Be 313.042	51.5981	51.8472	51.7411
Ca 370.602	5060	5086	5077
Cd 226.502	52.2758	52.4544	52.2575
Co 228.615	51.2424	52.4541	52.0055
Cr 267.716	103.928	104.537	104.268
Cu 324.754	103.123	100.781	101.942
Fe 271.441	5111.27	5133.47	5106.34
K 766.491	5297.96	5308.48	5274.05
Mg 279.078	5119.32	5137.82	5132.44
Mn 257.610	533.899	536.314	535.169
Mo 202.032	100.705	101.437	101.507
Na 330.237	4799.79	4568.67	4832.99
Ni 231.604	102.599	103.258	105.925
Pb 220.353	52.4276	50.6646	50.4978
Sb 206.834	33.3478	31.2587	36.2439
Se 196.026	100.163	97.1693	98.8824
Sn 189.925	24.7064	23.5122	24.2688
Sr 216.596	104.565	104.090	104.214
Ti 334.941	95.0162	95.3867	95.4351
Tl 190.794	45.1060	48.3865	44.9916
V 292.401	104.073	104.493	103.667
Zn 206.200	106.457	107.071	107.014

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.7799	ppb	0.4754	0.9	3863.97
Al 308.215	4987.91	ppb	15.4398	0.3	29618.8
As 188.980	78.3980	ppb	3.2386	4.1	43.8550
B 249.678	197.628	ppb	1.7600	0.9	1870.91
Ba 389.178	103.536	ppb	0.6534	0.6	2800.58
Be 313.042	51.7288	ppb	0.1250	0.2	111498
Ca 370.602	5074	ppb	12.81	0.3	19644
Cd 226.502	52.3292	ppb	0.1088	0.2	2097.27
Co 228.615	51.9007	ppb	0.6127	1.2	675.832
Cr 267.716	104.244	ppb	0.3050	0.3	4975.06
Cu 324.754	101.949	ppb	1.1711	1.1	5755.75
Fe 271.441	5117.03	ppb	14.4528	0.3	8689.90
K 766.491	5293.50	ppb	17.6416	0.3	351756
Mg 279.078	5129.86	ppb	9.5161	0.2	11207.2
Mn 257.610	535.127	ppb	1.2081	0.2	124854
Mo 202.032	101.216	ppb	0.4443	0.4	800.983
Na 330.237	4733.82	ppb	143.978	3.0	250.678
Ni 231.604	103.927	ppb	1.7610	1.7	273.856
Pb 220.353	51.1967	ppb	1.0693	2.1	92.1001
Sb 206.834	33.6168	ppb	2.5034	7.4	36.7035
Se 196.026	98.7384	ppb	1.5022	1.5	50.5924
Sn 189.925	24.1625	ppb	0.6041	2.5	25.3079
Sr 216.596	104.289	ppb	0.2466	0.2	1232.09
Ti 334.941	95.2794	ppb	0.2291	0.2	30692.1
Tl 190.794	46.1614	ppb	1.9279	4.2	36.3414
V 292.401	104.078	ppb	0.4129	0.4	3166.04
Zn 206.200	106.847	ppb	0.3389	0.3	123.969

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

LCS 680-269729/3-A (Samp) 3/19/2013, 4:28:32 PM Rack 1, Tube 5
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	203.966	207.415	204.332
Al 308.215	2105.20	2106.93	2100.02
As 188.980	228.001	216.950	217.147
B 249.678	385.033	386.919	388.903
Ba 389.178	199.252	199.984	199.353
Be 313.042	201.398	201.198	201.241
Ca 370.602	19515	19483	19502
Cd 226.502	199.760	199.260	199.365
Co 228.615	196.240	198.277	197.382
Cr 267.716	200.955	200.704	200.407
Cu 324.754	198.781	200.476	201.589
Fe 271.441	20606.6	20589.4	20593.0
K 766.491	19757.8	19796.5	19806.4
Mg 279.078	19947.4	19939.9	19952.1
Mn 257.610	2042.61	2042.23	2041.54
Mo 202.032	199.842	199.095	201.449
Na 330.237	17384.2	17079.6	17212.9
Ni 231.604	199.445	202.256	200.292
Pb 220.353	198.399	197.655	197.309
Sb 206.834	191.148	195.993	189.971
Se 196.026	199.481	199.916	200.031
Sn 189.925	210.042	212.448	210.557
Sr 216.596	215.462	214.010	214.136
Ti 334.941	203.098	202.690	202.908
Tl 190.794	45.7319	53.3201	45.1920
V 292.401	200.788	200.350	200.417
Zn 206.200	191.912	192.401	188.205

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	205.238	ppb	1.8944	0.9	15502.2
Al 308.215	2104.05	ppb	3.5948	0.2	12669.5
As 188.980	220.699	ppb	6.3242	2.9	123.885
B 249.678	386.952	ppb	1.9355	0.5	3546.25
Ba 389.178	199.529	ppb	0.3969	0.2	5479.90
Be 313.042	201.279	ppb	0.1051	0.1	434275
Ca 370.602	19500	ppb	15.74	0.1	75318
Cd 226.502	199.462	ppb	0.2637	0.1	7973.94
Co 228.615	197.299	ppb	1.0210	0.5	2533.00
Cr 267.716	200.689	ppb	0.2742	0.1	9586.60
Cu 324.754	200.282	ppb	1.4140	0.7	11144.7
Fe 271.441	20596.3	ppb	9.0612	0.0	34962.9
K 766.491	19786.9	ppb	25.6788	0.1	1314117
Mg 279.078	19946.5	ppb	6.1811	0.0	43536.0
Mn 257.610	2042.13	ppb	0.5467	0.0	476310
Mo 202.032	200.129	ppb	1.2027	0.6	1568.95
Na 330.237	17225.6	ppb	152.698	0.9	919.969
Ni 231.604	200.664	ppb	1.4417	0.7	528.230
Pb 220.353	197.788	ppb	0.5568	0.3	354.204
Sb 206.834	192.371	ppb	3.1921	1.7	202.546
Se 196.026	199.810	ppb	0.2900	0.1	103.596
Sn 189.925	211.016	ppb	1.2668	0.6	214.602
Sr 216.596	214.536	ppb	0.8042	0.4	2531.62
Ti 334.941	202.899	ppb	0.2037	0.1	65441.0
Tl 190.794	48.0813	ppb	4.5449	9.5	35.5401
V 292.401	200.518	ppb	0.2355	0.1	6096.29
Zn 206.200	190.839	ppb	2.2945	1.2	239.363

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88339-B-7-D (Samp) 3/19/2013, 4:33:57 PM Rack 1, Tube 6
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.5379u	-2.5837u	-1.9066u
Al 308.215	79960.1	79997.6	80018.5
As 188.980	50.2582	50.9983	60.4206
B 249.678	4.6776u	3.1655u	4.1483u
Ba 389.178	1638.21	1638.90	1639.96
Be 313.042	5.2443	5.2423	5.2260
Ca 370.602	19447	19441	19416
Cd 226.502	0.4755	0.3125	0.4072
Co 228.615	40.1865	39.7334	40.6330
Cr 267.716	85.9033	85.8732	85.2347
Cu 324.754	178.173	176.182	178.450
Fe 271.441	83256.5	83324.8	83432.0
K 766.491	3240.89	3248.43	3253.09
Mg 279.078	3188.21	3185.11	3187.95
Mn 257.610	10952.5	10954.5	10941.3
Mo 202.032	10.1112	9.7819	9.5915
Na 330.237	334.772u	251.523u	421.750u
Ni 231.604	43.0603	42.9856	43.8370
Pb 220.353	915.121	911.500	915.356
Sb 206.834	12.0170	-1.0449	10.1536
Se 196.026	1.7299	-1.2893	4.4122
Sn 189.925	48.7393	48.6261	48.2321
Sr 216.596	126.337	127.171	126.836
Ti 334.941	986.001	984.103	984.190
Tl 190.794	40.5066	43.3530	31.3367
V 292.401	201.559	201.088	201.607
Zn 206.200	1564.65	1564.64	1561.51

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.3427	ppb	0.3784	16.2	-192.155
Al 308.215	79992.1	ppb	29.5857	0.0	470724
As 188.980	53.8924	ppb	5.6657	10.5	29.4696
B 249.678	3.9971	ppb	0.7673	19.2	73.5789
Ba 389.178	1639.02	ppb	0.8806	0.1	44630.7
Be 313.042	5.2375	ppb	0.0100	0.2	11169.8
Ca 370.602	19435	ppb	16.71	0.1	69184
Cd 226.502	0.3984	ppb	0.0818	20.5	239.944
Co 228.615	40.1843	ppb	0.4498	1.1	551.860
Cr 267.716	85.6704	ppb	0.3776	0.4	4153.53
Cu 324.754	177.602	ppb	1.2370	0.7	9917.98
Fe 271.441	83337.8	ppb	88.4462	0.1	141335
K 766.491	3247.47	ppb	6.1550	0.2	215899
Mg 279.078	3187.09	ppb	1.7199	0.1	6784.22
Mn 257.610	10949.4	ppb	7.1290	0.1	2552840
Mo 202.032	9.8282	ppb	0.2629	2.7	86.0743
Na 330.237	336.015	ppb	85.1200	25.3	-30.5650
Ni 231.604	43.2943	ppb	0.4715	1.1	116.276
Pb 220.353	913.992	ppb	2.1616	0.2	1634.45
Sb 206.834	7.0419	ppb	7.0651	100.3	11.7225
Se 196.026	1.6176	ppb	2.8524	176.3	3.3169
Sn 189.925	48.5325	ppb	0.2662	0.5	49.9977
Sr 216.596	126.781	ppb	0.4196	0.3	1538.00
Ti 334.941	984.765	ppb	1.0715	0.1	317260
Tl 190.794	38.3988	ppb	6.2794	16.4	14.8651
V 292.401	201.418	ppb	0.2867	0.1	6185.92
Zn 206.200	1563.60	ppb	1.8121	0.1	1966.05

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88339-B-7-D (Samp) 3/19/2013, 4:39:22 PM Rack 1, Tube 7

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0885	-0.3993u	0.1598
Al 308.215	18256.0	18174.2	18208.4
As 188.980	8.4805	7.8233	12.1071
B 249.678	-3.3757u	-4.5009u	-4.9233u
Ba 389.178	386.659	384.228	384.167
Be 313.042	1.1624	1.1540	1.1575
Ca 370.602	4602	4589	4602
Cd 226.502	0.0873	0.0704	0.0657
Co 228.615	9.9071	9.0688	10.0389
Cr 267.716	19.8996	20.3052	20.2920
Cu 324.754	40.1712	41.4008	41.4485
Fe 271.441	19686.4	19652.8	19615.3
K 766.491	753.866	749.163	748.388
Mg 279.078	771.415	762.978	769.543
Mn 257.610	2610.45	2605.58	2604.50
Mo 202.032	1.5019	1.7167	2.2268
Na 330.237	109.190u	223.910	-86.9602u
Ni 231.604	9.7045	11.5446	9.8284
Pb 220.353	213.882	210.193	213.350
Sb 206.834	1.2989	-5.8381u	-1.0770u
Se 196.026	-0.3736	-0.4195	-0.0027
Sn 189.925	10.1037	11.8686	9.1611
Sr 216.596	29.5440	28.9890	28.4527
Ti 334.941	228.513	227.963	229.130
Tl 190.794	6.4801	7.0667	3.9040u
V 292.401	47.7773	47.0731	47.3379
Zn 206.200	367.042	368.025	368.066

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1093	ppb	0.2801	256.2	-57.8691
Al 308.215	18212.9	ppb	41.1258	0.2	107386
As 188.980	9.4703	ppb	2.3071	24.4	4.9479
B 249.678	-4.2666	ppb	0.8000	18.7	56.6575
Ba 389.178	385.018	ppb	1.4213	0.4	10456.1
Be 313.042	1.1580	ppb	0.0042	0.4	2364.08
Ca 370.602	4597	ppb	7.455	0.2	16384
Cd 226.502	0.0744	ppb	0.0113	15.2	61.9926
Co 228.615	9.6716	ppb	0.5261	5.4	142.802
Cr 267.716	20.1656	ppb	0.2305	1.1	975.585
Cu 324.754	41.0068	ppb	0.7240	1.8	2422.62
Fe 271.441	19651.5	ppb	35.5477	0.2	33330.2
K 766.491	750.472	ppb	2.9645	0.4	50099.0
Mg 279.078	767.979	ppb	4.4309	0.6	1647.95
Mn 257.610	2606.84	ppb	3.1694	0.1	607823
Mo 202.032	1.8151	ppb	0.3724	20.5	27.5202
Na 330.237	82.0466	ppb	157.203	191.6	-8.6599
Ni 231.604	10.3592	ppb	1.0285	9.9	28.4323
Pb 220.353	212.475	ppb	1.9939	0.9	380.598
Sb 206.834	-1.8720	ppb	3.6343	194.1	0.3719
Se 196.026	-0.2653	ppb	0.2286	86.2	-0.2217
Sn 189.925	10.3778	ppb	1.3744	13.2	11.3413
Sr 216.596	28.9952	ppb	0.5457	1.9	358.606
Ti 334.941	228.535	ppb	0.5836	0.3	73603.3
Tl 190.794	5.8169	ppb	1.6824	28.9	1.1967
V 292.401	47.3961	ppb	0.3557	0.8	1458.15
Zn 206.200	367.711	ppb	0.5799	0.2	462.242

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88339-B-7-D (Samp) **3/19/2013, 4:44:47 PM** **Rack 1, Tube 8**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	46.5839	46.1774	45.9193
Al 308.215	80374.6	80289.3	80304.7
As 188.980	2174.21	2169.97	2179.61
B 249.678	975.537	982.865	989.713
Ba 389.178	3508.98	3498.71	3503.60
Be 313.042	52.8574	52.6703	52.7990
Ca 370.602	23728	23675	23698
Cd 226.502	48.2471	48.1660	48.1834
Co 228.615	520.163	515.354	517.993
Cr 267.716	274.066	273.254	273.991
Cu 324.754	423.052	416.488	417.026
Fe 271.441	82389.4	82409.9	82376.3
K 766.491	8157.81	8182.45	8172.44
Mg 279.078	7925.09	7897.85	7910.32
Mn 257.610	11187.6	11183.3	11163.4
Mo 202.032	493.275	492.823	494.112
Na 330.237	5149.62	5099.20	4901.29
Ni 231.604	519.674	516.694	522.857
Pb 220.353	1361.89	1359.93	1358.14
Sb 206.834	478.558	485.815	485.100
Se 196.026	1920.16	1926.57	1920.00
Sn 189.925	1021.29	1019.03	1020.45
Sr 216.596	604.315	602.755	601.766
Ti 334.941	1881.10	1880.98	1884.79
Tl 190.794	1974.32	1987.91	1983.11
V 292.401	677.947	676.589	676.914
Zn 206.200	1988.78	1991.76	1994.44

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	46.2269	ppb	0.3351	0.7	3473.18
Al 308.215	80322.8	ppb	45.4549	0.1	472726
As 188.980	2174.60	ppb	4.8312	0.2	1222.95
B 249.678	982.705	ppb	7.0891	0.7	8806.50
Ba 389.178	3503.76	ppb	5.1384	0.1	95297.1
Be 313.042	52.7756	ppb	0.0957	0.2	113672
Ca 370.602	23700	ppb	26.60	0.1	86400
Cd 226.502	48.1989	ppb	0.0427	0.1	2133.77
Co 228.615	517.836	ppb	2.4084	0.5	6663.70
Cr 267.716	273.771	ppb	0.4488	0.2	13129.2
Cu 324.754	418.855	ppb	3.6439	0.9	23131.3
Fe 271.441	82391.9	ppb	16.9598	0.0	139808
K 766.491	8170.90	ppb	12.3873	0.2	542815
Mg 279.078	7911.08	ppb	13.6359	0.2	17094.3
Mn 257.610	11178.1	ppb	12.8985	0.1	2606174
Mo 202.032	493.404	ppb	0.6539	0.1	3844.72
Na 330.237	5050.04	ppb	131.264	2.6	214.085
Ni 231.604	519.741	ppb	3.0819	0.6	1367.51
Pb 220.353	1359.99	ppb	1.8758	0.1	2430.09
Sb 206.834	483.157	ppb	3.9991	0.8	501.141
Se 196.026	1922.24	ppb	3.7451	0.2	1001.31
Sn 189.925	1020.26	ppb	1.1398	0.1	1034.36
Sr 216.596	602.945	ppb	1.2854	0.2	7110.57
Ti 334.941	1882.29	ppb	2.1681	0.1	606439
Tl 190.794	1981.78	ppb	6.8920	0.3	1562.40
V 292.401	677.150	ppb	0.7088	0.1	20666.0
Zn 206.200	1991.66	ppb	2.8327	0.1	2503.92

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88339-B-7-E MS (Samp) **3/19/2013, 4:50:13 PM** **Rack 1, Tube 9**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	47.7057	47.2263	47.1630
Al 308.215	99996.9	100197	99965.7
As 188.980	104.140	112.160	109.470
B 249.678	172.235	173.331	172.485
Ba 389.178	2190.09	2191.26	2190.38
Be 313.042	54.9178	54.9756	54.9770
Ca 370.602	21706	21677	21741
Cd 226.502	47.6656	48.3070	48.0827
Co 228.615	95.4804	95.2229	96.1699
Cr 267.716	207.663	208.069	207.718
Cu 324.754	474.724	476.597	471.229
Fe 271.441	73877.0	73891.8	74007.1
K 766.491	8490.75	8496.85	8487.51
Mg 279.078	8262.49	8261.25	8269.87
Mn 257.610	14542.6	14579.9	14533.7
Mo 202.032	101.374	101.696	101.005
Na 330.237	4964.14	4793.79	4964.01
Ni 231.604	142.095	142.810	141.977
Pb 220.353	4874.50	4858.44	4858.84
Sb 206.834	35.3757	34.0599	33.8840
Se 196.026	76.9779	95.2832	71.7618
Sn 189.925	1162.06	1171.76	1165.49
Sr 216.596	218.324	219.581	219.183
Ti 334.941	1020.10	1021.72	1022.11
Tl 190.794	91.2678	91.1198	93.4999
V 292.401	250.378	250.289	251.214
Zn 206.200	736.223	731.573	730.515

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	47.3650	ppb	0.2968	0.6	3589.88
Al 308.215	100053	ppb	125.577	0.1	588721
As 188.980	108.590	ppb	4.0819	3.8	60.3365
B 249.678	172.684	ppb	0.5747	0.3	1587.03
Ba 389.178	2190.58	ppb	0.6116	0.0	59612.2
Be 313.042	54.9568	ppb	0.0337	0.1	118468
Ca 370.602	21708	ppb	32.47	0.1	79286
Cd 226.502	48.0184	ppb	0.3255	0.7	2104.58
Co 228.615	95.6244	ppb	0.4896	0.5	1257.92
Cr 267.716	207.817	ppb	0.2198	0.1	9996.32
Cu 324.754	474.183	ppb	2.7246	0.6	26149.6
Fe 271.441	73925.3	ppb	71.2502	0.1	125382
K 766.491	8491.70	ppb	4.7441	0.1	564116
Mg 279.078	8264.53	ppb	4.6626	0.1	17802.4
Mn 257.610	14552.1	ppb	24.4739	0.2	3392698
Mo 202.032	101.358	ppb	0.3457	0.3	798.086
Na 330.237	4907.31	ppb	98.3148	2.0	225.925
Ni 231.604	142.294	ppb	0.4510	0.3	376.082
Pb 220.353	4863.93	ppb	9.1583	0.2	8693.07
Sb 206.834	34.4399	ppb	0.8152	2.4	40.5034
Se 196.026	81.3410	ppb	12.3528	15.2	45.6185
Sn 189.925	1166.44	ppb	4.9182	0.4	1182.44
Sr 216.596	219.029	ppb	0.6421	0.3	2613.55
Ti 334.941	1021.31	ppb	1.0633	0.1	329060
Tl 190.794	91.9625	ppb	1.3335	1.5	53.7096
V 292.401	250.627	ppb	0.5102	0.2	7666.52
Zn 206.200	732.770	ppb	3.0366	0.4	920.884

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88339-B-7-F MSD (Samp) 3/19/2013, 4:55:50 PM Rack 1, Tube 10**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	43.6110	43.4554	43.5397
Al 308.215	103482	103575	103251
As 188.980	116.934	108.798	104.154
B 249.678	160.055	158.702	160.087
Ba 389.178	2281.65	2278.33	2273.66
Be 313.042	52.9607	52.9481	52.9653
Ca 370.602	22001	22005	22017
Cd 226.502	46.5083	46.0138	46.4235
Co 228.615	94.7697	95.1278	94.6849
Cr 267.716	178.154	178.398	178.291
Cu 324.754	556.845	567.370	561.785
Fe 271.441	81442.3	81143.3	81211.1
K 766.491	9105.34	9079.30	9061.12
Mg 279.078	8669.05	8667.65	8666.87
Mn 257.610	14966.5	14939.4	14919.0
Mo 202.032	97.8631	97.3313	97.7258
Na 330.237	4647.00	4733.19	4714.72
Ni 231.604	142.686	140.902	142.297
Pb 220.353	951.891	950.741	949.412
Sb 206.834	13.5260	16.1488	14.6876
Se 196.026	83.0792	67.8474	67.3239
Sn 189.925	97.0512	96.7730	99.9251
Sr 216.596	217.505	219.363	217.012
Ti 334.941	1061.37	1064.76	1063.35
Tl 190.794	94.3237	88.4094	83.3393
V 292.401	253.475	252.207	252.405
Zn 206.200	1365.13	1360.36	1367.54

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	43.5354	ppb	0.0779	0.2	3301.21
Al 308.215	103436	ppb	166.712	0.2	608615
As 188.980	109.962	ppb	6.4689	5.9	61.0457
B 249.678	159.614	ppb	0.7904	0.5	1463.98
Ba 389.178	2277.88	ppb	4.0174	0.2	61996.8
Be 313.042	52.9580	ppb	0.0089	0.0	114156
Ca 370.602	22008	ppb	8.272	0.0	79765
Cd 226.502	46.3152	ppb	0.2644	0.6	2055.67
Co 228.615	94.8608	ppb	0.2351	0.2	1250.14
Cr 267.716	178.281	ppb	0.1225	0.1	8590.04
Cu 324.754	562.000	ppb	5.2661	0.9	30958.2
Fe 271.441	81265.6	ppb	156.785	0.2	137830
K 766.491	9081.92	ppb	22.2272	0.2	603307
Mg 279.078	8667.86	ppb	1.1037	0.0	18676.8
Mn 257.610	14941.7	ppb	23.8548	0.2	3483541
Mo 202.032	97.6401	ppb	0.2761	0.3	768.784
Na 330.237	4698.30	ppb	45.3830	1.0	207.003
Ni 231.604	141.962	ppb	0.9382	0.7	375.361
Pb 220.353	950.681	ppb	1.2407	0.1	1700.28
Sb 206.834	14.7875	ppb	1.3142	8.9	19.8222
Se 196.026	72.7502	ppb	8.9490	12.3	41.2994
Sn 189.925	97.9164	ppb	1.7451	1.8	100.027
Sr 216.596	217.960	ppb	1.2400	0.6	2604.41
Ti 334.941	1063.16	ppb	1.7045	0.2	342546
Tl 190.794	88.6908	ppb	5.4976	6.2	50.3607
V 292.401	252.696	ppb	0.6823	0.3	7733.59
Zn 206.200	1364.34	ppb	3.6555	0.3	1715.23

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88339-B-17-B (Samp) 3/19/2013, 5:01:17 PM Rack 1, Tube 11

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3803	0.1021	-0.8066u
Al 308.215	109566	109315	109585
As 188.980	8.9102	24.0502	11.9004
B 249.678	-16.3068u	-16.2778u	-15.5837u
Ba 389.178	82.1419	82.5934	83.0142
Be 313.042	2.4604	2.4495	2.4525
Ca 370.602	3955	3957	3962
Cd 226.502	-1.7696	-1.9965	-1.6270
Co 228.615	4.3524	4.0511	5.7562
Cr 267.716	148.689	147.717	148.484
Cu 324.754	45.1118	44.0003	45.0930
Fe 271.441	145515	144795	145308
K 766.491	2078.78	2074.58	2075.57
Mg 279.078	1305.35	1302.68	1310.02
Mn 257.610	204.618	203.401	203.879
Mo 202.032	4.3293	3.9615	4.6550
Na 330.237	141.409u	38.5499u	47.6246u
Ni 231.604	25.8927	25.8292	24.8600
Pb 220.353	51.8541	47.4752	45.1933
Sb 206.834	0.3071	5.1491	-2.7161
Se 196.026	11.7341	4.3115	0.3902
Sn 189.925	19.0043	12.9129	13.5644
Sr 216.596	60.1553	60.9946	60.1309
Ti 334.941	884.893	881.369	881.353
Tl 190.794	1.3529u	-2.1792u	2.4337u
V 292.401	318.778	317.432	318.110
Zn 206.200	69.7763	68.4678	70.9908

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1080	ppb	0.6207	574.5	-68.8210
Al 308.215	109489	ppb	151.043	0.1	644199
As 188.980	14.9536	ppb	8.0185	53.6	6.8663
B 249.678	-16.0561	ppb	0.4094	2.5	-160.257
Ba 389.178	82.5832	ppb	0.4363	0.5	2452.71
Be 313.042	2.4541	ppb	0.0057	0.2	5158.50
Ca 370.602	3958	ppb	3.697	0.1	1199
Cd 226.502	-1.7977	ppb	0.1864	10.4	312.347
Co 228.615	4.7199	ppb	0.9100	19.3	93.9945
Cr 267.716	148.296	ppb	0.5125	0.3	7110.07
Cu 324.754	44.7350	ppb	0.6364	1.4	2664.46
Fe 271.441	145206	ppb	370.594	0.3	246245
K 766.491	2076.31	ppb	2.1943	0.1	138135
Mg 279.078	1306.02	ppb	3.7125	0.3	2857.87
Mn 257.610	203.966	ppb	0.6130	0.3	48014.3
Mo 202.032	4.3153	ppb	0.3469	8.0	39.6608
Na 330.237	75.8612	ppb	56.9472	75.1	-51.5862
Ni 231.604	25.5273	ppb	0.5788	2.3	70.9059
Pb 220.353	48.1742	ppb	3.3850	7.0	84.2737
Sb 206.834	0.9134	ppb	3.9675	434.4	7.5087
Se 196.026	5.4786	ppb	5.7613	105.2	2.9121
Sn 189.925	15.1606	ppb	3.3447	22.1	16.1825
Sr 216.596	60.4270	ppb	0.4918	0.8	784.044
Ti 334.941	882.538	ppb	2.0395	0.2	284327
Tl 190.794	0.5358	ppb	2.4126	450.3	-5.2344
V 292.401	318.106	ppb	0.6732	0.2	9757.71
Zn 206.200	69.7450	ppb	1.2618	1.8	87.1978

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88339-C-2-C (Samp) 3/19/2013, 5:06:44 PM Rack 1, Tube 12
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1043	-0.4628u	-1.4523u
Al 308.215	41318.0	41089.6	41141.0
As 188.980	0.3686u	9.2735	-5.9335u
B 249.678	7.7503	6.4532	6.1859
Ba 389.178	41.0966	41.1303	41.5840
Be 313.042	1.0530	1.0529	1.0437
Ca 370.602	3194	3186	3199
Cd 226.502	-0.0790	-0.4514	-0.1165
Co 228.615	6.0186	5.9515	6.4922
Cr 267.716	33.2356	32.8561	33.0497
Cu 324.754	19.6281	19.5564	19.8625
Fe 271.441	26139.7	25975.4	25957.8
K 766.491	1079.27	1073.62	1077.27
Mg 279.078	1586.54	1575.61	1582.56
Mn 257.610	45.5286	45.2809	45.1136
Mo 202.032	-0.2813u	0.0142u	-0.1980u
Na 330.237	285.054	322.847	265.304
Ni 231.604	9.6832	9.8673	8.3648
Pb 220.353	47.0074	48.6008	47.8871
Sb 206.834	-0.7035	1.8738	0.7180
Se 196.026	12.8130	2.3629	-0.7517u
Sn 189.925	10.3979	12.3796	12.9221
Sr 216.596	24.0931	23.9231	24.0376
Ti 334.941	217.242	216.126	216.946
Tl 190.794	-0.8508u	0.2870u	-1.8639u
V 292.401	155.685	154.924	155.412
Zn 206.200	51.6820	51.7302	50.8482

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6036	ppb	0.7878	130.5	-106.233
Al 308.215	41182.9	ppb	119.848	0.3	242476
As 188.980	1.2362	ppb	7.6405	618.1	0.2442
B 249.678	6.7965	ppb	0.8368	12.3	149.675
Ba 389.178	41.2703	ppb	0.2722	0.7	1132.81
Be 313.042	1.0499	ppb	0.0053	0.5	2129.47
Ca 370.602	3193	ppb	6.881	0.2	10080
Cd 226.502	-0.2156	ppb	0.2050	95.1	67.0209
Co 228.615	6.1541	ppb	0.2947	4.8	97.4083
Cr 267.716	33.0471	ppb	0.1897	0.6	1580.11
Cu 324.754	19.6823	ppb	0.1601	0.8	1256.31
Fe 271.441	26024.3	ppb	100.351	0.4	44137.3
K 766.491	1076.72	ppb	2.8673	0.3	71761.7
Mg 279.078	1581.57	ppb	5.5331	0.3	3460.91
Mn 257.610	45.3077	ppb	0.2088	0.5	10700.5
Mo 202.032	-0.1550	ppb	0.1524	98.3	11.6410
Na 330.237	291.068	ppb	29.2395	10.0	3.2037
Ni 231.604	9.3051	ppb	0.8195	8.8	25.8050
Pb 220.353	47.8318	ppb	0.7981	1.7	85.3547
Sb 206.834	0.6294	ppb	1.2909	205.1	3.2750
Se 196.026	4.8081	ppb	7.1052	147.8	1.7885
Sn 189.925	11.8999	ppb	1.3287	11.2	12.8825
Sr 216.596	24.0180	ppb	0.0867	0.4	302.881
Ti 334.941	216.771	ppb	0.5779	0.3	69819.7
Tl 190.794	-0.8092	ppb	1.0761	133.0	-1.3092
V 292.401	155.340	ppb	0.3855	0.2	4766.13
Zn 206.200	51.4201	ppb	0.4959	1.0	644373

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

Cont Calib Verif (CCV) 3/19/2013, 5:12:09 PM Rack 1, Tube 13
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	501.693	504.477	504.196
Al 308.215	5005.78	5058.38	5039.77
As 188.980	464.813	476.801	480.101
B 249.678	2525.91	2547.84	2575.63
Ba 389.178	4958.12	4968.17	4996.94
Be 313.042	493.927	493.968	497.133
Ca 370.602	4978	4991	5011
Cd 226.502	495.863	496.603	500.176
Co 228.615	499.523	501.024	503.514
Cr 267.716	4938.81	4954.77	4975.78
Cu 324.754	4984.28	4842.13	4867.57
Fe 271.441	5043.60	5056.84	5070.52
K 766.491	9894.32	9930.91	10014.8
Mg 279.078	4954.99	4977.19	4994.08
Mn 257.610	4995.66	4999.26	5028.19
Mo 202.032	498.492	499.211	502.777
Na 330.237	7565.19	7455.37	7387.67
Ni 231.604	2498.82	2505.42	2515.04
Pb 220.353	498.128	497.397	502.054
Sb 206.834	950.799	962.254	966.093
Se 196.026	4983.52	4998.25	5029.87
Sn 189.925	5049.20	5065.28	5137.95
Sr 216.596	2465.48	2468.93	2479.37
Ti 334.941	487.584	488.482	491.179
Tl 190.794	5037.13	5068.54	5096.07
V 292.401	4947.95	4953.70	4975.84
Zn 206.200	2504.69	2497.09	2510.78

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	503.455	ppb	1.5329	0.3	38056.2	100.69102
Al 308.215	5034.64	ppb	26.6715	0.5	29858.9	100.69283
As 188.980	473.905	ppb	8.0446	1.7	266.354	94.78099
B 249.678	2549.79	ppb	24.9150	1.0	22857.2	101.99178
Ba 389.178	4974.41	ppb	20.1467	0.4	135116	99.48824
Be 313.042	495.009	ppb	1.8393	0.4	1068026	99.00187
Ca 370.602	4993	ppb	16.33	0.3	19629	99.86856
Cd 226.502	497.547	ppb	2.3067	0.5	19757.8	99.50948
Co 228.615	501.354	ppb	2.0156	0.4	6429.55	100.27077
Cr 267.716	4956.45	ppb	18.5406	0.4	236542	99.12908
Cu 324.754	4897.99	ppb	75.7987	1.5	268212	97.95988
Fe 271.441	5056.99	ppb	13.4649	0.3	8702.19	101.13975
K 766.491	9946.68	ppb	61.7687	0.6	660727	99.46677
Mg 279.078	4975.42	ppb	19.6076	0.4	10795.8	99.50845
Mn 257.610	5007.70	ppb	17.8340	0.4	1167501	100.15408
Mo 202.032	500.160	ppb	2.2948	0.5	3892.76	100.03201
Na 330.237	7469.41	ppb	89.5915	1.2	376.716	99.59216
Ni 231.604	2506.43	ppb	8.1579	0.3	6583.35	100.25713
Pb 220.353	499.193	ppb	2.5048	0.5	892.729	99.83858
Sb 206.834	959.715	ppb	7.9565	0.8	1045.27	95.97151
Se 196.026	5003.88	ppb	23.6865	0.5	2600.43	100.07760
Sn 189.925	5084.14	ppb	47.2880	0.9	5151.06	101.68286
Sr 216.596	2471.26	ppb	7.2329	0.3	29010.8	98.85056
Ti 334.941	489.082	ppb	1.8713	0.4	157561	97.81630
Tl 190.794	5067.25	ppb	29.4906	0.6	4031.46	101.34497
V 292.401	4959.17	ppb	14.7238	0.3	151575	99.18330
Zn 206.200	2504.19	ppb	6.8551	0.3	3136.99	100.16745

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

Cont Calib Blank (CCB) 3/19/2013, 5:17:43 PM Rack 1, Tube 14
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3558	1.2227	-0.0071u
Al 308.215	3.7595	3.0838	2.5876
As 188.980	-3.6516u	-7.3859u	-2.5194u
B 249.678	15.7620	12.8388	10.2760
Ba 389.178	0.5245	1.5510	0.9293
Be 313.042	-0.0047u	-0.0227u	-0.0177u
Ca 370.602	-2.276u	-0.9341u	0.7978
Cd 226.502	0.0651	0.0944	0.1518
Co 228.615	0.2631	-0.0834u	-0.0972u
Cr 267.716	0.4439	0.6439	0.3092
Cu 324.754	-0.0793u	-0.1218u	-0.3282u
Fe 271.441	5.0740	-5.2987u	-0.1040u
K 766.491	-0.0606u	0.0248	0.3062
Mg 279.078	4.3647	2.8383	-1.0477u
Mn 257.610	0.5783	0.5392	0.5017
Mo 202.032	-0.0409u	-0.4747u	0.2670
Na 330.237	-70.8491u	-95.4086u	-56.4100u
Ni 231.604	2.3568	-0.5126u	0.5703
Pb 220.353	0.6493	4.2268	1.1008
Sb 206.834	1.1239	2.2217	2.5303
Se 196.026	6.1176	0.6851	8.4010
Sn 189.925	-1.7414u	-0.5803u	-0.5100u
Sr 216.596	0.0224	-0.0330u	-0.1126u
Ti 334.941	0.0856	0.0948	0.0033
Tl 190.794	-2.7785u	-0.0588u	1.3430
V 292.401	0.7029	0.2461	1.0940
Zn 206.200	0.3862	0.6761	2.0233

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.5238	ppb	0.6319	120.6	-20.8729	0.52378
Al 308.215	3.1437	ppb	0.5882	18.7	290.305	3.14365
As 188.980	-4.5189	ppb	2.5466	56.4	-2.7780	-4.51894
B 249.678	12.9590	ppb	2.7450	21.2	227.850	12.95898
Ba 389.178	1.0016	ppb	0.5170	51.6	-9.5251	1.00161
Be 313.042	-0.0150	ppb	0.0093	62.1	-167.789	-0.01502
Ca 370.602	-0.8040	ppb	1.541	191.6	10.38	-0.80400
Cd 226.502	0.1038	ppb	0.0441	42.5	12.2822	0.10379
Co 228.615	0.0275	ppb	0.2041	742.2	13.7787	0.02750
Cr 267.716	0.4657	ppb	0.1684	36.2	19.3241	0.46566
Cu 324.754	-0.1764	ppb	0.1332	75.5	162.646	-0.17644
Fe 271.441	-0.1095	ppb	5.1863	4734.7	3.2868	-0.10954
K 766.491	0.0901	ppb	0.1919	212.9	273.645	0.09014
Mg 279.078	2.0518	ppb	2.7906	136.0	20.8309	2.05178
Mn 257.610	0.5398	ppb	0.0383	7.1	181.457	0.53977
Mo 202.032	-0.0829	ppb	0.3726	449.5	13.9164	-0.08289
Na 330.237	-74.2226	ppb	19.7170	26.6	-6.1837	-74.22257
Ni 231.604	0.8048	ppb	1.4490	180.0	2.9252	0.80481
Pb 220.353	1.9923	ppb	1.9482	97.8	4.3651	1.99228
Sb 206.834	1.9586	ppb	0.7392	37.7	3.6941	1.95863
Se 196.026	5.0679	ppb	3.9636	78.2	1.7513	5.06792
Sn 189.925	-0.9439	ppb	0.6915	73.3	-0.1293	-0.94390
Sr 216.596	-0.0411	ppb	0.0678	165.2	8.0463	-0.04107
Ti 334.941	0.0612	ppb	0.0504	82.3	-11.2912	0.06123
Tl 190.794	-0.4981	ppb	2.0956	420.7	-0.0075	-0.49811
V 292.401	0.6810	ppb	0.4244	62.3	24.1369	0.68098
Zn 206.200	1.0286	ppb	0.8736	84.9	430.1443	1.02857

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88339-C-3-C (Samp) 3/19/2013, 5:23:07 PM Rack 1, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.7698u	-0.7112u	-0.7050u
Al 308.215	35747.8	35617.1	35631.0
As 188.980	7.8130	10.9264	10.5798
B 249.678	-36.4020u	-35.8876u	-36.8466u
Ba 389.178	30.9889	29.6495	29.8047
Be 313.042	2.0423	2.0398	2.0404
Ca 370.602	2316u	2340u	2364u
Cd 226.502	-4.3360	-4.2331	-4.2362
Co 228.615	2.4280	2.8202	2.7148
Cr 267.716	197.841	197.040	197.258
Cu 324.754	52.0294	50.6342	51.0654
Fe 271.441	301430	300091	300532
K 766.491	979.881	976.349	976.602
Mg 279.078	585.750	581.283	581.831
Mn 257.610	206.649	205.857	205.912
Mo 202.032	2.1861	3.4417	2.2678
Na 330.237	168.745u	279.067u	156.673u
Ni 231.604	5.8202	5.8206	7.3008
Pb 220.353	54.2838	52.9209	54.9517
Sb 206.834	-6.0330	-5.9903	4.3732
Se 196.026	5.1004	5.6531	-1.6896
Sn 189.925	13.4361	13.4784	15.4650
Sr 216.596	20.3075	19.8101	19.0646
Ti 334.941	945.473	943.367	941.911
Tl 190.794	7.4318u	5.9875u	11.7638u
V 292.401	398.120	397.322	396.228
Zn 206.200	38.9763	38.5005	39.5376

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0620	ppb	0.6129	57.7	-139.923
Al 308.215	35665.3	ppb	71.7721	0.2	210022
As 188.980	9.7731	ppb	1.7063	17.5	2.4959
B 249.678	-36.3787	ppb	0.4799	1.3	-480.323
Ba 389.178	30.1477	ppb	0.7326	2.4	1285.80
Be 313.042	2.0408	ppb	0.0013	0.1	4251.75
Ca 370.602	2340	ppb	24.09	1.0	-20998
Cd 226.502	-4.2684	ppb	0.0585	1.4	617.424
Co 228.615	2.6543	ppb	0.2030	7.6	63.6305
Cr 267.716	197.380	ppb	0.4139	0.2	9488.14
Cu 324.754	51.2430	ppb	0.7143	1.4	3070.27
Fe 271.441	300684	ppb	682.128	0.2	509903
K 766.491	977.611	ppb	1.9703	0.2	65181.0
Mg 279.078	582.955	ppb	2.4362	0.4	1331.15
Mn 257.610	206.140	ppb	0.4422	0.2	48946.8
Mo 202.032	2.6319	ppb	0.7025	26.7	18.0333
Na 330.237	201.495	ppb	67.4496	33.5	-94.1782
Ni 231.604	6.3139	ppb	0.8547	13.5	23.6545
Pb 220.353	54.0521	ppb	1.0350	1.9	96.1963
Sb 206.834	-2.5500	ppb	5.9958	235.1	8.1233
Se 196.026	3.0213	ppb	4.0891	135.3	2.5964
Sn 189.925	14.1265	ppb	1.1593	8.2	15.1300
Sr 216.596	19.7274	ppb	0.6255	3.2	375.430
Ti 334.941	943.584	ppb	1.7910	0.2	304006
Tl 190.794	8.3944	ppb	3.0061	35.8	-5.3261
V 292.401	397.223	ppb	0.9496	0.2	12181.6
Zn 206.200	39.0048	ppb	0.5191	1.3	484170

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88339-C-4-D (Samp) **3/19/2013, 5:28:31 PM** **Rack 1, Tube 16**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-2.8243u	-2.9557u	-2.5028u
Al 308.215	64853.0	64903.3	64623.9
As 188.980	14.0328	13.2759	21.5481
B 249.678	-39.1572u	-41.3935u	-38.8688u
Ba 389.178	1342.04	1342.49	1339.14
Be 313.042	12.9451	12.9444	12.8878
Ca 370.602	7139	7140	7141
Cd 226.502	-2.8008	-2.7205	-2.7895
Co 228.615	80.5279	82.0018	80.7446
Cr 267.716	58.5857	58.4122	58.2209
Cu 324.754	88.1574	88.0714	87.7277
Fe 271.441	216180	216478	215607
K 766.491	23255.9	23297.8	23279.2
Mg 279.078	25227.5	25249.0	25141.1
Mn 257.610	1003.71	1004.91	1000.44
Mo 202.032	1.3294u	1.2827u	0.8665u
Na 330.237	347.861u	562.276u	696.946u
Ni 231.604	71.4423	70.4140	70.9409
Pb 220.353	63.7596	67.0344	61.8825
Sb 206.834	2.9121	-0.3622	-2.7900
Se 196.026	-5.7689u	-4.5321u	8.3707
Sn 189.925	22.5518	20.3848	18.9961
Sr 216.596	108.717	109.046	108.001
Ti 334.941	4098.58	4101.11	4078.48
Tl 190.794	11.4747u	8.4451u	14.6548
V 292.401	338.427	339.230	338.253
Zn 206.200	408.747	403.349	403.138

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.7609	ppb	0.2330	8.4	-269.232
Al 308.215	64793.4	ppb	148.958	0.2	381333
As 188.980	16.2856	ppb	4.5731	28.1	6.9833
B 249.678	-39.8065	ppb	1.3819	3.5	-435.393
Ba 389.178	1341.22	ppb	1.8195	0.1	36830.9
Be 313.042	12.9258	ppb	0.0329	0.3	27752.6
Ca 370.602	7140	ppb	0.9769	0.0	7371
Cd 226.502	-2.7703	ppb	0.0434	1.6	457.895
Co 228.615	81.0914	ppb	0.7958	1.0	1158.93
Cr 267.716	58.4063	ppb	0.1824	0.3	2845.17
Cu 324.754	87.9855	ppb	0.2273	0.3	5054.34
Fe 271.441	216089	ppb	442.648	0.2	366460
K 766.491	23277.6	ppb	20.9665	0.1	1545902
Mg 279.078	25205.9	ppb	57.1406	0.2	55053.7
Mn 257.610	1003.02	ppb	2.3136	0.2	234649
Mo 202.032	1.1596	ppb	0.2548	22.0	11.2598
Na 330.237	535.694	ppb	176.054	32.9	-77.8174
Ni 231.604	70.9324	ppb	0.5142	0.7	191.608
Pb 220.353	64.2255	ppb	2.6074	4.1	112.140
Sb 206.834	-0.0800	ppb	2.8615	3574.9	7.3847
Se 196.026	-0.6434	ppb	7.8309	1217.0	0.3767
Sn 189.925	20.6442	ppb	1.7920	8.7	21.7371
Sr 216.596	108.588	ppb	0.5340	0.5	1381.98
Ti 334.941	4092.72	ppb	12.4022	0.3	1318676
Tl 190.794	11.5249	ppb	3.1052	26.9	-0.2795
V 292.401	338.637	ppb	0.5211	0.2	10451.0
Zn 206.200	405.078	ppb	3.1791	0.8	500.138

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88339-B-18-B (Samp) 3/19/2013, 5:33:55 PM Rack 1, Tube 17

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.2682u	-2.5624u	-2.1689u
Al 308.215	129149	129148	129334
As 188.980	34.6378	27.3671	26.1735
B 249.678	-17.2212u	-20.3857u	-19.1678u
Ba 389.178	621.731	623.210	621.077
Be 313.042	4.4902	4.4900	4.5067
Ca 370.602	34090	34147	34160
Cd 226.502	-2.0673	-2.4221	-2.3435
Co 228.615	91.4642	91.1823	91.6763
Cr 267.716	177.424	178.004	177.431
Cu 324.754	71.6257	72.2323	72.0794
Fe 271.441	202751	202523	202865
K 766.491	8260.85	8268.49	8259.30
Mg 279.078	5093.93	5092.81	5095.57
Mn 257.610	2365.13	2366.33	2361.88
Mo 202.032	6.0930	5.9057	6.4894
Na 330.237	367.045u	628.773u	471.214u
Ni 231.604	60.8395	60.2433	61.8511
Pb 220.353	118.838	112.721	115.830
Sb 206.834	-7.8421u	-2.4759	1.9868
Se 196.026	-10.6797u	3.4778	8.2273
Sn 189.925	16.6267	20.8539	17.9694
Sr 216.596	84.9384	85.6244	84.5512
Ti 334.941	2002.13	2010.83	2016.24
Tl 190.794	20.8151	18.1727	9.4285u
V 292.401	382.472	382.207	383.732
Zn 206.200	205.644	203.517	203.783

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.3332	ppb	0.2046	8.8	-228.550
Al 308.215	129210	ppb	106.928	0.1	760185
As 188.980	29.3928	ppb	4.5813	15.6	14.6907
B 249.678	-18.9249	ppb	1.5962	8.4	-237.014
Ba 389.178	622.006	ppb	1.0926	0.2	17211.7
Be 313.042	4.4957	ppb	0.0096	0.2	9573.57
Ca 370.602	34132	ppb	37.44	0.1	115293
Cd 226.502	-2.2776	ppb	0.1863	8.2	442.027
Co 228.615	91.4409	ppb	0.2478	0.3	1232.54
Cr 267.716	177.620	ppb	0.3333	0.2	8534.20
Cu 324.754	71.9791	ppb	0.3155	0.4	4173.56
Fe 271.441	202713	ppb	174.237	0.1	343779
K 766.491	8262.88	ppb	4.9229	0.1	548923
Mg 279.078	5094.10	ppb	1.3866	0.0	11097.4
Mn 257.610	2364.45	ppb	2.3038	0.1	551852
Mo 202.032	6.1627	ppb	0.2980	4.8	50.8010
Na 330.237	489.011	ppb	131.769	26.9	-57.6263
Ni 231.604	60.9780	ppb	0.8128	1.3	165.208
Pb 220.353	115.796	ppb	3.0583	2.6	204.534
Sb 206.834	-2.7771	ppb	4.9214	177.2	5.3385
Se 196.026	0.3418	ppb	9.8359	2877.6	1.1584
Sn 189.925	18.4833	ppb	2.1599	11.7	19.5623
Sr 216.596	85.0380	ppb	0.5435	0.6	1101.86
Ti 334.941	2009.73	ppb	7.1192	0.4	647501
Tl 190.794	16.1387	ppb	5.9595	36.9	2.3798
V 292.401	382.804	ppb	0.8150	0.2	11758.2
Zn 206.200	204.315	ppb	1.1591	0.6	456.361

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680-88339-B-19-B (Samp) 3/19/2013, 5:39:31 PM Rack 1, Tube 18

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7973u	-1.2942u	-1.4760u
Al 308.215	102986	102940	103169
As 188.980	26.5859	30.3012	33.0350
B 249.678	-11.9959u	-11.0573u	-12.0510u
Ba 389.178	520.928	519.541	522.081
Be 313.042	3.3448	3.3566	3.3607
Ca 370.602	30310	30283	30304
Cd 226.502	-1.3518	-1.6532	-1.4467
Co 228.615	27.8346	27.3953	27.3141
Cr 267.716	145.636	145.268	145.870
Cu 324.754	87.0797	88.1478	88.9191
Fe 271.441	137224	137289	137697
K 766.491	8102.77	8093.29	8059.99
Mg 279.078	5210.01	5204.10	5221.95
Mn 257.610	1521.57	1522.39	1527.23
Mo 202.032	5.8912	7.0774	5.9407
Na 330.237	392.917u	538.176u	321.624u
Ni 231.604	55.4401	55.8344	55.9420
Pb 220.353	136.743	137.778	138.448
Sb 206.834	-7.7367u	1.8411	-5.5779u
Se 196.026	3.5930	-8.3427u	-0.2210
Sn 189.925	19.8037	19.7201	18.9045
Sr 216.596	83.5514	84.0741	84.7026
Ti 334.941	2106.45	2097.26	2101.86
Tl 190.794	6.0414u	9.9073	10.6173
V 292.401	313.860	313.655	314.615
Zn 206.200	151.909	153.138	153.420

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1892	ppb	0.3513	29.5	-145.894
Al 308.215	103032	ppb	120.930	0.1	606226
As 188.980	29.9741	ppb	3.2370	10.8	15.5944
B 249.678	-11.7014	ppb	0.5585	4.8	-114.348
Ba 389.178	520.850	ppb	1.2716	0.2	14355.5
Be 313.042	3.3540	ppb	0.0083	0.2	7109.46
Ca 370.602	30299	ppb	14.12	0.0	106722
Cd 226.502	-1.4839	ppb	0.1541	10.4	304.374
Co 228.615	27.5147	ppb	0.2800	1.0	420.720
Cr 267.716	145.591	ppb	0.3034	0.2	6987.06
Cu 324.754	88.0489	ppb	0.9237	1.0	5032.64
Fe 271.441	137403	ppb	256.591	0.2	233017
K 766.491	8085.35	ppb	22.4665	0.3	537135
Mg 279.078	5212.02	ppb	9.0900	0.2	11364.7
Mn 257.610	1523.73	ppb	3.0583	0.2	355683
Mo 202.032	6.3031	ppb	0.6711	10.6	55.5475
Na 330.237	417.572	ppb	110.361	26.4	-41.2472
Ni 231.604	55.7388	ppb	0.2643	0.5	150.081
Pb 220.353	137.657	ppb	0.8591	0.6	243.883
Sb 206.834	-3.8245	ppb	5.0239	131.4	2.3689
Se 196.026	-1.6569	ppb	6.0961	367.9	-0.5015
Sn 189.925	19.4761	ppb	0.4968	2.6	20.5678
Sr 216.596	84.1094	ppb	0.5764	0.7	1061.33
Ti 334.941	2101.86	ppb	4.5967	0.2	677171
Tl 190.794	8.8553	ppb	2.4626	27.8	0.1832
V 292.401	314.043	ppb	0.5059	0.2	9654.65
Zn 206.200	152.822	ppb	0.8937	0.5	491.683

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680-88339-B-20-B (Samp) 3/19/2013, 5:44:57 PM Rack 1, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2404u	-1.0024u	-1.3097u
Al 308.215	195518	193422	194413
As 188.980	15.8948	10.2714	23.3156
B 249.678	-27.6375u	-25.0930u	-25.5146u
Ba 389.178	280.080	278.599	279.279
Be 313.042	3.1472	3.1210	3.1156
Ca 370.602	6541	6531	6549
Cd 226.502	-2.6006	-2.5182	-2.4478
Co 228.615	16.4159	14.8053	15.4123
Cr 267.716	210.811	209.256	209.304
Cu 324.754	86.4814	83.4270	84.7710
Fe 271.441	220250	218300	218700
K 766.491	7498.13	7443.18	7473.98
Mg 279.078	4357.17	4318.32	4329.56
Mn 257.610	584.264	578.780	580.432
Mo 202.032	4.7057	4.5338	4.4955
Na 330.237	257.722u	117.567u	439.145u
Ni 231.604	53.6631	51.0284	52.4930
Pb 220.353	80.3462	81.4998	78.9206
Sb 206.834	-1.8853	-4.8959	0.1738
Se 196.026	-5.0741u	-5.8687u	-3.2590u
Sn 189.925	19.7465	21.4151	23.8888
Sr 216.596	55.4857	54.5531	55.8939
Ti 334.941	2802.18	2780.06	2786.94
Tl 190.794	14.7249	13.4844	4.6461u
V 292.401	466.755	462.383	463.984
Zn 206.200	180.890	177.726	179.405

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8508	ppb	0.5505	64.7	-122.219
Al 308.215	194451	ppb	1048.74	0.5	1143882
As 188.980	16.4939	ppb	6.5427	39.7	7.0681
B 249.678	-26.0817	ppb	1.3638	5.2	-315.492
Ba 389.178	279.319	ppb	0.7414	0.3	7928.95
Be 313.042	3.1279	ppb	0.0169	0.5	6615.12
Ca 370.602	6540	ppb	9.165	0.1	4393
Cd 226.502	-2.5222	ppb	0.0765	3.0	474.804
Co 228.615	15.5445	ppb	0.8134	5.2	284.353
Cr 267.716	209.790	ppb	0.8846	0.4	10067.2
Cu 324.754	84.8931	ppb	1.5309	1.8	4884.74
Fe 271.441	219083	ppb	1030.25	0.5	371529
K 766.491	7471.76	ppb	27.5434	0.4	496392
Mg 279.078	4335.02	ppb	19.9939	0.5	9452.63
Mn 257.610	581.159	ppb	2.8130	0.5	136170
Mo 202.032	4.5783	ppb	0.1120	2.4	37.4339
Na 330.237	271.478	ppb	161.229	59.4	-80.6662
Ni 231.604	52.3948	ppb	1.3201	2.5	143.032
Pb 220.353	80.2555	ppb	1.2920	1.6	138.920
Sb 206.834	-2.2025	ppb	2.5497	115.8	6.6606
Se 196.026	-4.7339	ppb	1.3377	28.3	-1.8408
Sn 189.925	21.6835	ppb	2.0842	9.6	22.7894
Sr 216.596	55.3109	ppb	0.6873	1.2	756.765
Ti 334.941	2789.73	ppb	11.3203	0.4	898793
Tl 190.794	10.9518	ppb	5.4960	50.2	-0.3398
V 292.401	464.374	ppb	2.2120	0.5	14269.9
Zn 206.200	179.340	ppb	1.5828	0.9	224.874

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88339-21 (Samp) 3/19/2013, 5:50:21 PM Rack 1, Tube 20

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8964u	-0.6873u	-0.4251u
Al 308.215	182021	183545	182899
As 188.980	9.1189	17.3734	4.4035
B 249.678	-14.2595u	-15.7082u	-14.0328u
Ba 389.178	272.873	274.053	273.970
Be 313.042	2.5791	2.6050	2.5928
Ca 370.602	6657	6675	6643
Cd 226.502	-1.5166	-1.6081	-1.8582
Co 228.615	11.5569	11.8619	12.3044
Cr 267.716	193.703	195.678	194.702
Cu 324.754	82.8277	84.5425	82.8596
Fe 271.441	151213	152435	151631
K 766.491	6976.53	7037.93	7011.99
Mg 279.078	4434.16	4470.38	4438.16
Mn 257.610	604.503	609.358	605.788
Mo 202.032	2.8800	2.4040	2.8047
Na 330.237	234.598u	408.713u	342.323u
Ni 231.604	48.6144	49.1922	49.1106
Pb 220.353	87.7052	90.9402	90.6771
Sb 206.834	1.8261	-0.5119	0.8919
Se 196.026	-5.6354u	3.8831	-0.0785
Sn 189.925	19.8741	19.2623	18.2951
Sr 216.596	60.0186	60.0536	59.3145
Ti 334.941	2263.74	2284.50	2274.73
Tl 190.794	10.2330	9.3071	2.8398u
V 292.401	393.568	396.738	395.015
Zn 206.200	165.550	171.787	170.191

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6696	ppb	0.2361	35.3	-108.707
Al 308.215	182822	ppb	764.862	0.4	1075488
As 188.980	10.2986	ppb	6.5649	63.7	4.2065
B 249.678	-14.6668	ppb	0.9089	6.2	-153.709
Ba 389.178	273.632	ppb	0.6589	0.2	7662.63
Be 313.042	2.5923	ppb	0.0130	0.5	5462.29
Ca 370.602	6658	ppb	16.11	0.2	11568
Cd 226.502	-1.6610	ppb	0.1768	10.6	334.823
Co 228.615	11.9077	ppb	0.3759	3.2	225.808
Cr 267.716	194.694	ppb	0.9876	0.5	9330.57
Cu 324.754	83.4099	ppb	0.9810	1.2	4782.44
Fe 271.441	151760	ppb	621.311	0.4	257361
K 766.491	7008.82	ppb	30.8236	0.4	465653
Mg 279.078	4447.57	ppb	19.8599	0.4	9688.86
Mn 257.610	606.550	ppb	2.5157	0.4	141904
Mo 202.032	2.6962	ppb	0.2559	9.5	26.5625
Na 330.237	328.544	ppb	87.8716	26.7	-52.1096
Ni 231.604	48.9724	ppb	0.3127	0.6	132.642
Pb 220.353	89.7741	ppb	1.7966	2.0	156.457
Sb 206.834	0.7354	ppb	1.1768	160.0	7.9799
Se 196.026	-0.6103	ppb	4.7815	783.5	-0.1065
Sn 189.925	19.1438	ppb	0.7961	4.2	20.2188
Sr 216.596	59.7956	ppb	0.4170	0.7	779.503
Ti 334.941	2274.32	ppb	10.3834	0.5	732737
Tl 190.794	7.4600	ppb	4.0278	54.0	-0.4234
V 292.401	395.107	ppb	1.5867	0.4	12139.2
Zn 206.200	169.176	ppb	3.2401	1.9	212.130

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88339-22 (Samp) 3/19/2013, 5:55:47 PM Rack 1, Tube 21
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.4560u	-0.9746u	-1.9314u
Al 308.215	121009	120574	120378
As 188.980	27.2108	24.6434	16.6439
B 249.678	-26.2356u	-26.1437u	-26.0246u
Ba 389.178	321.961	323.126	322.098
Be 313.042	2.2553	2.2525	2.2443
Ca 370.602	5376	5354	5346
Cd 226.502	-2.0426	-2.0768	-2.0200
Co 228.615	12.2472	13.1199	12.9627
Cr 267.716	182.318	182.988	182.331
Cu 324.754	60.4682	60.9758	60.2537
Fe 271.441	163898	163251	162899
K 766.491	4502.95	4480.23	4465.72
Mg 279.078	2686.59	2688.51	2683.00
Mn 257.610	393.501	393.556	392.414
Mo 202.032	3.2725	4.8365	5.0059
Na 330.237	237.985u	375.526u	126.435u
Ni 231.604	39.3487	36.3286	38.3659
Pb 220.353	77.2024	77.1227	76.9246
Sb 206.834	-3.7775	-0.7250	4.4540
Se 196.026	2.5496	7.3992	-6.4996u
Sn 189.925	16.4693	21.6550	19.5484
Sr 216.596	36.6060	36.9080	36.9098
Ti 334.941	1629.64	1632.07	1630.60
Tl 190.794	1.1795u	7.2936u	4.5753u
V 292.401	387.816	387.023	386.209
Zn 206.200	131.285	133.669	131.290

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.4540	ppb	0.4784	32.9	-168.536
Al 308.215	120654	ppb	322.968	0.3	709862
As 188.980	22.8327	ppb	5.5113	24.1	11.1443
B 249.678	-26.1346	ppb	0.1058	0.4	-266.254
Ba 389.178	322.395	ppb	0.6367	0.2	9000.84
Be 313.042	2.2507	ppb	0.0057	0.3	4717.74
Ca 370.602	5359	ppb	15.50	0.3	5099
Cd 226.502	-2.0465	ppb	0.0286	1.4	349.213
Co 228.615	12.7766	ppb	0.4652	3.6	218.020
Cr 267.716	182.546	ppb	0.3832	0.2	8750.76
Cu 324.754	60.5659	ppb	0.3708	0.6	3536.01
Fe 271.441	163350	ppb	507.022	0.3	277015
K 766.491	4482.97	ppb	18.7690	0.4	297936
Mg 279.078	2686.03	ppb	2.7942	0.1	5867.69
Mn 257.610	393.157	ppb	0.6440	0.2	92177.8
Mo 202.032	4.3717	ppb	0.9556	21.9	38.9878
Na 330.237	246.649	ppb	124.772	50.6	-54.6668
Ni 231.604	38.0144	ppb	1.5404	4.1	104.079
Pb 220.353	77.0833	ppb	0.1430	0.2	135.316
Sb 206.834	-0.0162	ppb	4.1613	25730.8	7.3250
Se 196.026	1.1497	ppb	7.0543	613.6	0.8233
Sn 189.925	19.2242	ppb	2.6080	13.6	20.2992
Sr 216.596	36.8079	ppb	0.1749	0.5	514.283
Ti 334.941	1630.77	ppb	1.2253	0.1	525394
Tl 190.794	4.3494	ppb	3.0633	70.4	-3.1258
V 292.401	387.016	ppb	0.8034	0.2	11880.8
Zn 206.200	132.081	ppb	1.3749	110.0	155.507

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88339-23 (Samp) 3/19/2013, 6:01:13 PM Rack 1, Tube 22
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8352u	-0.4297u	-0.9202u
Al 308.215	173317	173727	173376
As 188.980	14.8314	18.5082	20.5270
B 249.678	-43.2616u	-43.9292u	-42.9920u
Ba 389.178	321.603	323.071	321.808
Be 313.042	3.1983	3.2033	3.1932
Ca 370.602	6573u	6580u	6625u
Cd 226.502	-3.5313	-3.2733	-3.4025
Co 228.615	12.4341	12.3256	12.5321
Cr 267.716	319.599	320.288	320.041
Cu 324.754	89.4131	89.5103	90.2625
Fe 271.441	276509	277490	277716
K 766.491	5785.82	5808.90	5782.56
Mg 279.078	3757.61	3751.84	3760.16
Mn 257.610	365.047	366.260	365.891
Mo 202.032	6.0483	5.9023	5.4926
Na 330.237	148.662u	422.727u	123.274u
Ni 231.604	46.1903	49.1588	50.1819
Pb 220.353	103.342	103.351	100.013
Sb 206.834	5.9647	-7.4876	-1.7449
Se 196.026	17.4358	-11.7936u	14.6939
Sn 189.925	19.4816	25.8954	18.8312
Sr 216.596	46.5322	45.7261	46.2990
Ti 334.941	2994.64	3001.25	2989.57
Tl 190.794	12.6963u	4.6892u	11.3431u
V 292.401	630.796	632.314	630.860
Zn 206.200	171.470	174.225	175.520

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7284	ppb	0.2621	36.0	-112.898
Al 308.215	173474	ppb	221.471	0.1	1020505
As 188.980	17.9555	ppb	2.8877	16.1	7.3573
B 249.678	-43.3943	ppb	0.4825	1.1	-521.249
Ba 389.178	322.161	ppb	0.7947	0.2	9187.15
Be 313.042	3.1983	ppb	0.0050	0.2	6756.67
Ca 370.602	6593	ppb	28.25	0.4	-1194
Cd 226.502	-3.4024	ppb	0.1290	3.8	588.897
Co 228.615	12.4306	ppb	0.1033	0.8	249.085
Cr 267.716	319.976	ppb	0.3489	0.1	15337.7
Cu 324.754	89.7286	ppb	0.4649	0.5	5166.29
Fe 271.441	277238	ppb	641.329	0.2	470148
K 766.491	5792.43	ppb	14.3562	0.2	384885
Mg 279.078	3756.54	ppb	4.2656	0.1	8210.39
Mn 257.610	365.733	ppb	0.6219	0.2	86105.5
Mo 202.032	5.8144	ppb	0.2881	5.0	43.6079
Na 330.237	231.554	ppb	166.047	71.7	-102.748
Ni 231.604	48.5103	ppb	2.0733	4.3	134.018
Pb 220.353	102.235	ppb	1.9249	1.9	178.425
Sb 206.834	-1.0893	ppb	6.7500	619.7	10.2924
Se 196.026	6.7787	ppb	16.1424	238.1	4.4402
Sn 189.925	21.4028	ppb	3.9043	18.2	22.5035
Sr 216.596	46.1858	ppb	0.4148	0.9	675.270
Ti 334.941	2995.15	ppb	5.8559	0.2	964977
Tl 190.794	9.5762	ppb	4.2860	44.8	-3.4765
V 292.401	631.324	ppb	0.8585	0.1	19383.5
Zn 206.200	173.738	ppb	2.0687	1.2	217.555

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88339-24 (Samp) **3/19/2013, 6:06:39 PM** **Rack 1, Tube 23****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.4927u	-2.0731u	-1.1416u
Al 308.215	224293	224776	223442
As 188.980	14.9054	16.4417	24.1394
B 249.678	-29.4723u	-30.3432u	-29.0839u
Ba 389.178	421.333	422.246	419.756
Be 313.042	3.5006	3.5081	3.4751
Ca 370.602	6699	6672	6691
Cd 226.502	-2.3061	-2.2091	-2.2955
Co 228.615	17.9176	17.5700	17.7732
Cr 267.716	246.980	247.146	245.371
Cu 324.754	104.213	104.149	103.701
Fe 271.441	201273	201443	200327
K 766.491	11563.0	11595.2	11525.9
Mg 279.078	9161.61	9163.44	9123.00
Mn 257.610	690.830	691.868	686.809
Mo 202.032	4.4722	3.8461	3.8443
Na 330.237	436.849u	473.118u	379.364u
Ni 231.604	64.1127	63.3463	62.9314
Pb 220.353	120.364	118.172	114.839
Sb 206.834	-3.7352	-0.7707	-4.4082
Se 196.026	16.8348	5.3448	0.5594
Sn 189.925	23.0137	22.6707	19.7617
Sr 216.596	54.0471	53.6326	53.7033
Ti 334.941	4096.16	4107.49	4081.41
Tl 190.794	5.1256u	8.8037u	15.2963
V 292.401	563.829	564.590	559.669
Zn 206.200	238.175	235.040	231.929

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.5691	ppb	0.4704	30.0	-175.309
Al 308.215	224170	ppb	675.466	0.3	1318668
As 188.980	18.4955	ppb	4.9478	26.8	8.3649
B 249.678	-29.6331	ppb	0.6449	2.2	-330.936
Ba 389.178	421.112	ppb	1.2596	0.3	11765.0
Be 313.042	3.4946	ppb	0.0173	0.5	7405.83
Ca 370.602	6688	ppb	13.81	0.2	7135
Cd 226.502	-2.2702	ppb	0.0532	2.3	437.692
Co 228.615	17.7536	ppb	0.1747	1.0	351.410
Cr 267.716	246.499	ppb	0.9802	0.4	11817.4
Cu 324.754	104.021	ppb	0.2791	0.3	5924.65
Fe 271.441	201014	ppb	601.152	0.3	340889
K 766.491	11561.4	ppb	34.6725	0.3	767942
Mg 279.078	9149.35	ppb	22.8352	0.2	19949.6
Mn 257.610	689.836	ppb	2.6719	0.4	161488
Mo 202.032	4.0542	ppb	0.3620	8.9	34.1391
Na 330.237	429.777	ppb	47.2755	11.0	-77.5647
Ni 231.604	63.4634	ppb	0.5993	0.9	171.733
Pb 220.353	117.792	ppb	2.7820	2.4	204.667
Sb 206.834	-2.9714	ppb	1.9353	65.1	5.8170
Se 196.026	7.5797	ppb	8.3647	110.4	4.4731
Sn 189.925	21.8154	ppb	1.7868	8.2	22.9236
Sr 216.596	53.7943	ppb	0.2217	0.4	730.591
Ti 334.941	4095.02	ppb	13.0767	0.3	1319340
Tl 190.794	9.7419	ppb	5.1498	52.9	-0.6413
V 292.401	562.696	ppb	2.6489	0.5	17304.3
Zn 206.200	235.048	ppb	3.1233	1.3	294.842

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88420-12 (Samp) 3/19/2013, 6:12:05 PM Rack 1, Tube 24

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	4.2773	5.2410	4.7712
Al 308.215	142916	142710	142874
As 188.980	398.575	398.985	403.651
B 249.678	-125.021u	-122.701u	-122.839u
Ba 389.178	2550.38	2552.36	2549.85
Be 313.042	22.7546	22.7578	22.7629
Ca 370.602	62205	62190	62265
Cd 226.502	28.0945	27.9440	28.7081
Co 228.615	220.926	217.350	219.464
Cr 267.716	652.014	651.918	652.221
Cu 324.754	1215.41	1205.62	1200.26
Fe 271.441	941676x	944132x	946580x
K 766.491	10196.9	10179.2	10188.1
Mg 279.078	21077.4	21105.3	21096.3
Mn 257.610	24480.4	24470.6	24433.4
Mo 202.032	24.1608	25.3668	24.8163
Na 330.237	283.270u	489.391u	360.174u
Ni 231.604	207.285	210.499	208.761
Pb 220.353	3256.86	3259.89	3260.26
Sb 206.834	11.1565	-1.1284	-6.5061
Se 196.026	-16.6284	19.1471	0.3306
Sn 189.925	160.535	155.577	158.848
Sr 216.596	383.476	380.372	382.335
Ti 334.941	1911.39	1911.39	1907.46
Tl 190.794	125.012	124.974	133.076
V 292.401	966.912	968.050	967.454
Zn 206.200	9541.51	9501.03	9548.24

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	4.7632b	ppb	0.4819	10.1	397.774
Al 308.215	142833b	ppb	109.208	0.1	840298
As 188.980	400.404b	ppb	2.8195	0.7	216.838
B 249.678	-123.520b	ppb	1.3016	1.1	-1829.50
Ba 389.178	2550.86b	ppb	1.3210	0.1	70884.9
Be 313.042	22.7584b	ppb	0.0042	0.0	48954.4
Ca 370.602	62220b	ppb	39.67	0.1	152296
Cd 226.502	28.2489b	ppb	0.4048	1.4	3568.62
Co 228.615	219.246b	ppb	1.7976	0.8	2835.91
Cr 267.716	652.051b	ppb	0.1548	0.0	31441.8
Cu 324.754	1207.10b	ppb	7.6840	0.6	66535.1
Fe 271.441	944129xb	ppb	2451.84	0.3	1601086
K 766.491	10188.1b	ppb	8.8467	0.1	676756
Mg 279.078	21093.0b	ppb	14.2141	0.1	45796.9
Mn 257.610	24461.5b	ppb	24.8198	0.1	5705269
Mo 202.032	24.7813b	ppb	0.6038	2.4	154.551
Na 330.237	377.612b	ppb	104.161	27.6	-369.457
Ni 231.604	208.848b	ppb	1.6086	0.8	568.932
Pb 220.353	3259.00b	ppb	1.8690	0.1	5826.16
Sb 206.834	1.1740b	ppb	9.0536	771.2	31.7342
Se 196.026	0.9498b	ppb	17.8958	1884.2	11.7758
Sn 189.925	158.320b	ppb	2.5210	1.6	161.209
Sr 216.596	382.061b	ppb	1.5702	0.4	4926.42
Ti 334.941	1910.08b	ppb	2.2664	0.1	615577
Tl 190.794	127.687b	ppb	4.6665	3.7	35.3974
V 292.401	967.472b	ppb	0.5693	0.1	29642.3
Zn 206.200	9530.26b	ppb	25.5386	0.3	41983.7

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Cont Calib Verif (CCV) **3/19/2013, 6:17:30 PM** **Rack 1, Tube 25**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	499.705	501.718	500.725
Al 308.215	5086.94	5018.89	5019.57
As 188.980	487.651	486.962	476.614
B 249.678	2544.82	2553.04	2558.81
Ba 389.178	4969.57	4948.82	4957.59
Be 313.042	494.584	491.754	493.547
Ca 370.602	4974	4953	4973
Cd 226.502	497.764	495.530	495.824
Co 228.615	501.701	499.392	499.245
Cr 267.716	4933.53	4921.30	4938.72
Cu 324.754	4885.51	4911.52	4880.89
Fe 271.441	5155.15	5126.57	5120.31
K 766.491	9974.78	9954.45	9892.78
Mg 279.078	4979.99	4968.15	4974.82
Mn 257.610	5021.58	4991.21	4997.90
Mo 202.032	496.009	493.785	496.312
Na 330.237	7244.13	7754.87	7407.41
Ni 231.604	2506.14	2493.76	2500.51
Pb 220.353	499.570	498.438	500.078
Sb 206.834	957.954	958.159	956.612
Se 196.026	4938.23	4929.88	4959.63
Sn 189.925	5075.45	5025.27	5062.00
Sr 216.596	2453.24	2441.41	2455.83
Ti 334.941	488.383	486.424	487.932
Tl 190.794	5014.46	5021.42	5024.45
V 292.401	4970.27	4948.39	4949.64
Zn 206.200	2523.03	2515.61	2514.13

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	500.716	ppb	1.0064	0.2	37847.7	100.14320
Al 308.215	5041.80	ppb	39.0937	0.8	29900.9	100.83597
As 188.980	483.742	ppb	6.1830	1.3	271.890	96.74843
B 249.678	2552.23	ppb	7.0298	0.3	22878.8	102.08902
Ba 389.178	4958.66	ppb	10.4118	0.2	134688	99.17317
Be 313.042	493.295	ppb	1.4318	0.3	1064326	98.65903
Ca 370.602	4966	ppb	11.81	0.2	19517	99.32977
Cd 226.502	496.373	ppb	1.2135	0.2	19711.3	99.27455
Co 228.615	500.113	ppb	1.3777	0.3	6413.77	100.02257
Cr 267.716	4931.18	ppb	8.9435	0.2	235336	98.62364
Cu 324.754	4892.64	ppb	16.5156	0.3	267919	97.85283
Fe 271.441	5134.01	ppb	18.5727	0.4	8832.47	102.68027
K 766.491	9940.67	ppb	42.7029	0.4	660328	99.40668
Mg 279.078	4974.32	ppb	5.9323	0.1	10793.5	99.48643
Mn 257.610	5003.56	ppb	15.9552	0.3	1166536	100.07125
Mo 202.032	495.369	ppb	1.3801	0.3	3855.51	99.07372
Na 330.237	7468.80	ppb	260.847	3.5	376.580	99.58405
Ni 231.604	2500.13	ppb	6.1993	0.2	6566.82	100.00538
Pb 220.353	499.362	ppb	0.8399	0.2	893.031	99.87239
Sb 206.834	957.575	ppb	0.8404	0.1	1043.11	95.75752
Se 196.026	4942.58	ppb	15.3468	0.3	2568.58	98.85161
Sn 189.925	5054.24	ppb	25.9744	0.5	5120.76	101.08478
Sr 216.596	2450.16	ppb	7.6879	0.3	28762.6	98.00638
Ti 334.941	487.579	ppb	1.0258	0.2	157078	97.51588
Tl 190.794	5020.11	ppb	5.1242	0.1	3993.92	100.40218
V 292.401	4956.10	ppb	12.2826	0.2	151481	99.12201
Zn 206.200	2517.59	ppb	4.7672	0.2	3153.84	100.70358

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Cont Calib Blank (CCB) 3/19/2013, 6:22:53 PM Rack 1, Tube 26
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.7453	0.0152	-0.1031u
Al 308.215	6.4556	2.7470	4.6366
As 188.980	3.7671	3.8766	-2.3991u
B 249.678	15.1760	13.2545	10.4083
Ba 389.178	0.5510	0.7061	0.5039
Be 313.042	-0.0116u	-0.0090u	0.0048
Ca 370.602	-0.4727u	-0.3687u	0.7922
Cd 226.502	0.0256	0.0369	0.0800
Co 228.615	0.4430	-0.1153u	-0.0372u
Cr 267.716	0.4740	0.6784	0.6424
Cu 324.754	0.6700	0.0603	0.1078
Fe 271.441	20.9431	14.1260	19.9680
K 766.491	0.0650	0.4609	0.3882
Mg 279.078	2.4852	1.7658	2.7412
Mn 257.610	0.9222	0.8795	1.0068
Mo 202.032	0.1497	0.3326	0.3161
Na 330.237	95.6863	9.2609	42.2940
Ni 231.604	-0.1565u	0.5733	1.1484
Pb 220.353	-0.8023u	0.2854	1.1420
Sb 206.834	4.6426	-2.0619u	1.3154
Se 196.026	4.0052	5.4848	7.9381
Sn 189.925	-3.5926u	-0.5507u	0.6719
Sr 216.596	0.1062	0.5899	0.1213
Ti 334.941	0.1647	0.1616	0.1592
Tl 190.794	-0.1089u	3.3843	-2.8587u
V 292.401	1.0148	0.5379	0.4590
Zn 206.200	0.8153	-0.0985u	1.1092

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2192	ppb	0.4595	209.7	-43.9825	0.21916
Al 308.215	4.6131	ppb	1.8544	40.2	299.000	4.61307
As 188.980	1.7482	ppb	3.5921	205.5	0.7489	1.74819
B 249.678	12.9462	ppb	2.3988	18.5	227.719	12.94625
Ba 389.178	0.5870	ppb	0.1058	18.0	-20.7483	0.58702
Be 313.042	-0.0053	ppb	0.0089	167.6	-146.838	-0.00528
Ca 370.602	-0.0164	ppb	0.7022	4282.5	11.48	-0.01640
Cd 226.502	0.0475	ppb	0.0287	60.4	10.1015	0.04749
Co 228.615	0.0969	ppb	0.3023	312.2	14.6516	0.09685
Cr 267.716	0.5983	ppb	0.1091	18.2	25.6635	0.59830
Cu 324.754	0.2793	ppb	0.3392	121.4	187.610	0.27933
Fe 271.441	18.3457	ppb	3.6868	20.1	34.6456	18.34569
K 766.491	0.3047	ppb	0.2107	69.2	287.890	0.30467
Mg 279.078	2.3308	ppb	0.5057	21.7	21.4367	2.33075
Mn 257.610	0.9362	ppb	0.0648	6.9	273.922	0.93616
Mo 202.032	0.2661	ppb	0.1012	38.0	16.6286	0.26612
Na 330.237	49.0804	ppb	43.6106	88.9	0.4838	49.08038
Ni 231.604	0.5217	ppb	0.6540	125.4	2.1822	0.52171
Pb 220.353	0.2084	ppb	0.9744	467.6	1.1766	0.20837
Sb 206.834	1.2987	ppb	3.3522	258.1	3.0063	1.29870
Se 196.026	5.8094	ppb	1.9865	34.2	2.1367	5.80937
Sn 189.925	-1.1571	ppb	2.1960	189.8	-0.3453	-1.15714
Sr 216.596	0.2725	ppb	0.2750	100.9	11.7345	0.27249
Ti 334.941	0.1619	ppb	0.0028	1.7	21.1300	0.16186
Tl 190.794	0.1389	ppb	3.1288	2252.4	0.4985	0.13891
V 292.401	0.6706	ppb	0.3007	44.8	23.7246	0.67057
Zn 206.200	0.6087	ppb	0.6298	103.5	40.6160	0.60870

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88420-12s (Samp) **3/19/2013, 6:28:17 PM** **Rack 1, Tube 27**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	56.1895	55.6921	56.0748
Al 308.215	153907	153983	154097
As 188.980	514.175	530.896	522.829
B 249.678	63.3920u	60.4075u	64.9033u
Ba 389.178	2301.63	2304.76	2302.58
Be 313.042	67.4374	67.5013	67.5916
Ca 370.602	68889	68985	68998
Cd 226.502	79.7069	80.3429	80.5508
Co 228.615	224.127	223.922	223.420
Cr 267.716	657.978	657.653	657.774
Cu 324.754	1612.27	1592.28	1634.64
Fe 271.441	935094x	935255x	934860x
K 766.491	16536.7	16538.5	16585.6
Mg 279.078	24882.3	24913.3	24923.8
Mn 257.610	24149.8	23923.5	24434.2
Mo 202.032	111.990	112.403	113.470
Na 330.237	4849.92u	4888.42u	5061.60u
Ni 231.604	273.373	275.259	272.594
Pb 220.353	3714.61	3718.72	3722.87
Sb 206.834	35.2841	33.3800	31.2976
Se 196.026	88.9186	83.2796	106.040
Sn 189.925	268.961	274.898	270.575
Sr 216.596	451.176	454.101	451.828
Ti 334.941	2343.22	2347.96	2344.32
Tl 190.794	151.825	141.350	155.495
V 292.401	897.830	900.010	900.312
Zn 206.200	11427.5	11451.3	11423.5

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	55.9855b	ppb	0.2605	0.5	4276.76
Al 308.215	153996b	ppb	95.6624	0.1	905960
As 188.980	522.633b	ppb	8.3623	1.6	285.751
B 249.678	62.9009b	ppb	2.2878	3.6	-157.546
Ba 389.178	2302.99b	ppb	1.6038	0.1	64148.2
Be 313.042	67.5101b	ppb	0.0775	0.1	145539
Ca 370.602	68957b	ppb	60.00	0.1	180076
Cd 226.502	80.2002b	ppb	0.4397	0.5	5604.21
Co 228.615	223.823b	ppb	0.3635	0.2	2904.04
Cr 267.716	657.801b	ppb	0.1642	0.0	31713.9
Cu 324.754	1613.06b	ppb	21.1906	1.3	88754.9
Fe 271.441	935069xb	ppb	198.631	0.0	1585723
K 766.491	16553.6b	ppb	27.7422	0.2	1099425
Mg 279.078	24906.5b	ppb	21.5634	0.1	54122.6
Mn 257.610	24169.2b	ppb	255.854	1.1	5637130
Mo 202.032	112.621b	ppb	0.7633	0.7	838.124
Na 330.237	4933.32b	ppb	112.755	2.3	-138.374
Ni 231.604	273.742b	ppb	1.3702	0.5	739.161
Pb 220.353	3718.73b	ppb	4.1315	0.1	6647.00
Sb 206.834	33.3205b	ppb	1.9939	6.0	64.0462
Se 196.026	92.7459b	ppb	11.8529	12.8	59.3368
Sn 189.925	271.478b	ppb	3.0699	1.1	275.844
Sr 216.596	452.368b	ppb	1.5355	0.3	5744.99
Ti 334.941	2345.17b	ppb	2.4825	0.1	755768
Tl 190.794	149.557b	ppb	7.3403	4.9	53.4961
V 292.401	899.384b	ppb	1.3543	0.2	27542.8
Zn 206.200	11434.1b	ppb	14.9976	0.1	41377.9

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88420-12SD (Samp) **3/19/2013, 6:33:41 PM** **Rack 1, Tube 28**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	55.1754	54.5855	54.2763
Al 308.215	160864	158464	159308
As 188.980	472.458	465.777	469.563
B 249.678	68.7441u	71.2046u	70.2938u
Ba 389.178	3337.79	3286.38	3310.80
Be 313.042	70.0566	68.9816	69.4634
Ca 370.602	77850	77090	77474
Cd 226.502	79.5677	77.7713	78.7350
Co 228.615	256.137	253.019	253.799
Cr 267.716	696.993	686.591	691.515
Cu 324.754	1379.11	1357.63	1367.63
Fe 271.441	874685	863554	867521
K 766.491	17422.4	17177.9	17308.8
Mg 279.078	28705.9	28307.5	28484.9
Mn 257.610	27018.8	26763.1	26932.2
Mo 202.032	118.126	114.869	116.073
Na 330.237	5291.09u	5414.29u	5045.49u
Ni 231.604	301.618	295.953	299.028
Pb 220.353	3704.88	3650.33	3676.13
Sb 206.834	26.9486	31.2094	27.3525
Se 196.026	83.3679	77.5080	82.3066
Sn 189.925	254.185	255.978	260.830
Sr 216.596	548.282	538.690	543.529
Ti 334.941	2268.39	2233.09	2253.41
Tl 190.794	167.521	168.998	170.355
V 292.401	943.578	931.586	937.943
Zn 206.200	10656.2	10493.7	10565.3

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	54.6791	ppb	0.4568	0.8	4186.68
Al 308.215	159546	ppb	1217.54	0.8	938600
As 188.980	469.266	ppb	3.3502	0.7	256.401
B 249.678	70.0808	ppb	1.2440	1.8	-33.8983
Ba 389.178	3311.66	ppb	25.7147	0.8	91445.0
Be 313.042	69.5005	ppb	0.5385	0.8	149837
Ca 370.602	77471	ppb	379.7	0.5	220678
Cd 226.502	78.6913	ppb	0.8990	1.1	5371.28
Co 228.615	254.318	ppb	1.6226	0.6	3293.69
Cr 267.716	691.700	ppb	5.2034	0.8	33327.4
Cu 324.754	1368.12	ppb	10.7481	0.8	75326.7
Fe 271.441	868587	ppb	5641.96	0.6	1472988
K 766.491	17303.0	ppb	122.374	0.7	1149186
Mg 279.078	28499.4	ppb	199.639	0.7	61907.7
Mn 257.610	26904.7	ppb	130.035	0.5	6274678
Mo 202.032	116.356	ppb	1.6472	1.4	870.682
Na 330.237	5250.29	ppb	187.755	3.6	-92.6439
Ni 231.604	298.866	ppb	2.8359	0.9	803.754
Pb 220.353	3677.11	ppb	27.2881	0.7	6573.19
Sb 206.834	28.5035	ppb	2.3521	8.3	57.7855
Se 196.026	81.0608	ppb	3.1222	3.9	53.5619
Sn 189.925	256.998	ppb	3.4381	1.3	261.181
Sr 216.596	543.500	ppb	4.7961	0.9	6787.21
Ti 334.941	2251.63	ppb	17.7167	0.8	725642
Tl 190.794	168.958	ppb	1.4175	0.8	68.5251
V 292.401	937.702	ppb	5.9997	0.6	28712.7
Zn 206.200	10571.7	ppb	81.4405	0.8	13293.3

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88420-26 (Samp) 3/19/2013, 6:39:05 PM Rack 1, Tube 29

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.1187	1.5985	1.9066
Al 308.215	88870.4	89425.4	89290.1
As 188.980	183.365	195.163	187.875
B 249.678	-19.8105u	-19.9199u	-20.2058u
Ba 389.178	2398.58	2405.67	2404.34
Be 313.042	8.7597	8.7974	8.8101
Ca 370.602	66694	66912	67057
Cd 226.502	24.5913	25.1771	24.7733
Co 228.615	89.7851	91.2012	90.8132
Cr 267.716	368.382	369.805	371.174
Cu 324.754	840.436	848.072	849.522
Fe 271.441	329071	329135	328402
K 766.491	7612.38	7622.13	7600.81
Mg 279.078	14247.4	14311.2	14300.1
Mn 257.610	11708.2	11745.5	11753.8
Mo 202.032	13.4260	14.2742	14.4130
Na 330.237	519.830u	380.000u	179.144u
Ni 231.604	136.750	136.662	137.231
Pb 220.353	2226.46	2255.04	2240.59
Sb 206.834	10.2199	14.1843	8.8979
Se 196.026	0.9735	12.3224	9.6494
Sn 189.925	171.510	165.977	168.773
Sr 216.596	490.453	493.128	496.213
Ti 334.941	1218.33	1220.71	1222.95
Tl 190.794	48.8421	48.1010	60.0090
V 292.401	400.662	401.913	402.197
Zn 206.200	7632.61	7711.92	7676.99

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.5413	ppb	0.3970	25.8	88.7887
Al 308.215	89195.3	ppb	289.374	0.3	524848
As 188.980	188.801	ppb	5.9533	3.2	103.500
B 249.678	-19.9787	ppb	0.2041	1.0	-357.570
Ba 389.178	2402.86	ppb	3.7720	0.2	65818.5
Be 313.042	8.7891	ppb	0.0262	0.3	18840.8
Ca 370.602	66888	ppb	182.4	0.3	232601
Cd 226.502	24.8472	ppb	0.2998	1.2	1841.09
Co 228.615	90.5998	ppb	0.7318	0.8	1194.90
Cr 267.716	369.787	ppb	1.3962	0.4	17773.6
Cu 324.754	846.010	ppb	4.8813	0.6	46578.4
Fe 271.441	328869	ppb	405.869	0.1	557713
K 766.491	7611.77	ppb	10.6759	0.1	505689
Mg 279.078	14286.2	ppb	34.0468	0.2	31047.5
Mn 257.610	11735.8	ppb	24.3231	0.2	2736917
Mo 202.032	14.0377	ppb	0.5343	3.8	105.276
Na 330.237	359.658	ppb	171.251	47.6	-156.017
Ni 231.604	136.881	ppb	0.3062	0.2	367.129
Pb 220.353	2240.70	ppb	14.2875	0.6	4005.04
Sb 206.834	11.1007	ppb	2.7511	24.8	24.6310
Se 196.026	7.6484	ppb	5.9331	77.6	8.1568
Sn 189.925	168.753	ppb	2.7667	1.6	171.798
Sr 216.596	493.265	ppb	2.8821	0.6	5961.01
Ti 334.941	1220.66	ppb	2.3112	0.2	393350
Tl 190.794	52.3173	ppb	6.6715	12.8	15.1512
V 292.401	401.591	ppb	0.8168	0.2	12305.9
Zn 206.200	7673.84	ppb	39.7490	0.5	9649.69

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88420-29 (Samp) **3/19/2013, 6:44:30 PM** **Rack 1, Tube 30****Weight: 1** **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	14.4397	15.0485	14.6378
Al 308.215	69912.0	69963.6	69967.4
As 188.980	235.911	231.887	222.977
B 249.678	74.3660	74.7707	76.6797
Ba 389.178	4201.06	4197.85	4198.25
Be 313.042	13.1655	13.1816	13.1816
Ca 370.602	321583	320904	320155
Cd 226.502	14.4729	14.3902	14.6214
Co 228.615	86.6167	87.4956	87.1941
Cr 267.716	289.053	288.103	288.000
Cu 324.754	3062.59	3091.65	3072.97
Fe 271.441	295593	296081	296208
K 766.491	10662.7	10657.0	10705.4
Mg 279.078	14909.7	14951.1	14926.8
Mn 257.610	7227.41	7237.79	7234.72
Mo 202.032	24.9077	24.5885	24.6765
Na 330.237	1377.93u	1438.22u	1536.77u
Ni 231.604	171.483	170.322	173.452
Pb 220.353	2642.24	2649.09	2639.74
Sb 206.834	7.4469	12.3706	5.0620
Se 196.026	11.8101	12.2767	5.3958
Sn 189.925	170.652	177.565	171.749
Sr 216.596	1279.58	1280.84	1277.62
Ti 334.941	1174.28	1175.28	1175.87
Tl 190.794	39.7365	32.9868	29.8967
V 292.401	308.572	307.722	308.693
Zn 206.200	6520.03	6526.61	6526.79

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	14.7087	ppb	0.3105	2.1	1029.37
Al 308.215	69947.7	ppb	30.9515	0.0	411650
As 188.980	230.258	ppb	6.6190	2.9	129.066
B 249.678	75.2721	ppb	1.2357	1.6	520.921
Ba 389.178	4199.05	ppb	1.7483	0.0	114554
Be 313.042	13.1762	ppb	0.0093	0.1	28411.2
Ca 370.602	320881	ppb	714.6	0.2	1242311
Cd 226.502	14.4949	ppb	0.1172	0.8	1347.22
Co 228.615	87.1021	ppb	0.4467	0.5	1149.30
Cr 267.716	288.385	ppb	0.5805	0.2	13862.1
Cu 324.754	3075.74	ppb	14.7231	0.5	168607
Fe 271.441	295960	ppb	324.831	0.1	501905
K 766.491	10675.0	ppb	26.4508	0.2	709090
Mg 279.078	14929.2	ppb	20.8076	0.1	32525.9
Mn 257.610	7233.31	ppb	5.3298	0.1	1687208
Mo 202.032	24.7242	ppb	0.1649	0.7	190.277
Na 330.237	1450.97	ppb	80.1851	5.5	-77.5009
Ni 231.604	171.753	ppb	1.5823	0.9	458.033
Pb 220.353	2643.69	ppb	4.8374	0.2	4724.52
Sb 206.834	8.2932	ppb	3.7271	44.9	20.0000
Se 196.026	9.8275	ppb	3.8451	39.1	7.9220
Sn 189.925	173.322	ppb	3.7155	2.1	176.556
Sr 216.596	1279.35	ppb	1.6258	0.1	15218.9
Ti 334.941	1175.14	ppb	0.8065	0.1	378682
Tl 190.794	34.2066	ppb	5.0320	14.7	7.2545
V 292.401	308.329	ppb	0.5296	0.2	9449.77
Zn 206.200	6524.48	ppb	3.8561	0.1	8204.43

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MB (Samp) 3/19/2013, 6:49:55 PM **Rack 1, Tube 31**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.4326	0.4793	-0.3112u
Al 308.215	23.0356	24.9072	21.1077
As 188.980	2.7415	-3.2258u	-5.4395u
B 249.678	-4.6416u	-4.9631u	-5.5159u
Ba 389.178	0.1852	0.6640	0.3831
Be 313.042	-0.0630u	-0.0608u	-0.0598u
Ca 370.602	50.87	47.11	44.47
Cd 226.502	-0.0188u	-0.0680u	-0.0272u
Co 228.615	-0.1268u	0.6701	-0.2943u
Cr 267.716	0.4476	0.4801	0.3391
Cu 324.754	0.0263	-0.4809u	-0.4312u
Fe 271.441	82.0081	77.4448	77.3622
K 766.491	14.0516	13.5918	14.1584
Mg 279.078	3.7430	7.3460	2.6207
Mn 257.610	2.0826	1.9150	1.9116
Mo 202.032	-0.7286u	-0.9223u	-0.4413u
Na 330.237	138.933	145.480	237.510
Ni 231.604	0.7605	0.2582	0.2483
Pb 220.353	0.6165	0.2620	-2.1070u
Sb 206.834	-1.1972u	-2.1716u	0.3238
Se 196.026	4.6654	11.0749	-3.5252u
Sn 189.925	14.0368	15.4854	13.4799
Sr 216.596	0.4190	0.2339	0.0017
Ti 334.941	1.3446	1.1443	0.9667
Tl 190.794	0.1353	4.7349	-2.7054u
V 292.401	-0.2351u	0.2692	0.1204
Zn 206.200	4.0662	6.1439	3.2866

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2002	ppb	0.4435	221.5	-45.4077
Al 308.215	23.0168	ppb	1.8998	8.3	407.121
As 188.980	-1.9746	ppb	4.2316	214.3	-1.3464
B 249.678	-5.0402	ppb	0.4422	8.8	67.1847
Ba 389.178	0.4108	ppb	0.2406	58.6	-25.4287
Be 313.042	-0.0612	ppb	0.0017	2.7	-267.332
Ca 370.602	47.48	ppb	3.215	6.8	193.4
Cd 226.502	-0.0380	ppb	0.0263	69.2	6.8772
Co 228.615	0.0830	ppb	0.5153	620.8	14.5237
Cr 267.716	0.4223	ppb	0.0738	17.5	17.2927
Cu 324.754	-0.2953	ppb	0.2796	94.7	156.160
Fe 271.441	78.9383	ppb	2.6588	3.4	137.354
K 766.491	13.9339	ppb	0.3011	2.2	1192.87
Mg 279.078	4.5699	ppb	2.4688	54.0	26.3149
Mn 257.610	1.9698	ppb	0.0978	5.0	515.070
Mo 202.032	-0.6974	ppb	0.2420	34.7	9.1355
Na 330.237	173.974	ppb	55.1206	31.7	7.1790
Ni 231.604	0.4223	ppb	0.2929	69.3	1.9225
Pb 220.353	-0.4095	ppb	1.4807	361.6	0.0733
Sb 206.834	-1.0150	ppb	1.2576	123.9	0.6219
Se 196.026	4.0717	ppb	7.3181	179.7	1.2345
Sn 189.925	14.3340	ppb	1.0353	7.2	15.3473
Sr 216.596	0.2182	ppb	0.2091	95.8	11.1578
Ti 334.941	1.1518	ppb	0.1891	16.4	340.085
Tl 190.794	0.7216	ppb	3.7546	520.3	0.9586
V 292.401	0.0515	ppb	0.2591	503.0	4.9900
Zn 206.200	4.4989	ppb	1.4770	32.8	45.5090

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190-244-a-1-a (Samp) **3/19/2013, 6:55:31 PM** **Rack 1, Tube 32**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0348u	0.5650	-0.5300u
Al 308.215	144.061	144.219	148.138
As 188.980	-4.2520u	-4.7025u	-4.2198u
B 249.678	-5.7325u	-5.2368u	-5.5863u
Ba 389.178	0.2202	0.0715	-0.1080u
Be 313.042	-0.0530u	-0.0600u	-0.0661u
Ca 370.602	206.7	212.8	210.2
Cd 226.502	0.1297	0.0620	-0.0039
Co 228.615	0.2190	0.1042	-0.2672u
Cr 267.716	0.9383	0.8250	1.1322
Cu 324.754	10.9638	10.4643	11.3938
Fe 271.441	150.057	154.764	155.682
K 766.491	21.8816	22.0687	22.5906
Mg 279.078	49.0869	52.2744	52.2534
Mn 257.610	2.4391	2.4529	2.4224
Mo 202.032	-0.2352u	-0.6493u	-0.4070u
Na 330.237	140.880	169.291	141.088
Ni 231.604	1.7929	0.0194	0.5182
Pb 220.353	1.4504	1.9357	2.0334
Sb 206.834	-6.2646u	-0.6318u	2.0650
Se 196.026	8.4562	7.3274	6.2793
Sn 189.925	20.9773	23.9360	21.5192
Sr 216.596	0.6109	0.8142	0.9658
Ti 334.941	2.4708	2.3979	2.4261
Tl 190.794	-0.6291u	-0.1886u	-5.3893u
V 292.401	-0.0114u	0.0494	-0.0768u
Zn 206.200	38.0436	37.3628	36.4742

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0001	ppb	0.5483	595350.8	-60.6168
Al 308.215	145.473	ppb	2.3099	1.6	1127.36
As 188.980	-4.3914	ppb	0.2699	6.1	-2.7061
B 249.678	-5.5185	ppb	0.2547	4.6	62.8525
Ba 389.178	0.0612	ppb	0.1644	268.4	-34.6569
Be 313.042	-0.0597	ppb	0.0065	11.0	-264.010
Ca 370.602	209.9	ppb	3.037	1.4	830.1
Cd 226.502	0.0626	ppb	0.0668	106.8	11.0557
Co 228.615	0.0186	ppb	0.2541	1363.0	13.7210
Cr 267.716	0.9652	ppb	0.1553	16.1	43.2271
Cu 324.754	10.9406	ppb	0.4652	4.3	771.157
Fe 271.441	153.501	ppb	3.0176	2.0	263.849
K 766.491	22.1803	ppb	0.3674	1.7	1740.43
Mg 279.078	51.2049	ppb	1.8343	3.6	128.104
Mn 257.610	2.4381	ppb	0.0153	0.6	624.780
Mo 202.032	-0.4305	ppb	0.2080	48.3	11.2068
Na 330.237	150.420	ppb	16.3433	10.9	5.6144
Ni 231.604	0.7768	ppb	0.9146	117.7	2.8551
Pb 220.353	1.8065	ppb	0.3122	17.3	4.0295
Sb 206.834	-1.6105	ppb	4.2502	263.9	0.0088
Se 196.026	7.3543	ppb	1.0887	14.8	2.9407
Sn 189.925	22.1442	ppb	1.5753	7.1	23.2590
Sr 216.596	0.7970	ppb	0.1780	22.3	18.0074
Ti 334.941	2.4316	ppb	0.0367	1.5	752.642
Tl 190.794	-2.0690	ppb	2.8839	139.4	-1.2670
V 292.401	-0.0130	ppb	0.0631	487.5	2.9287
Zn 206.200	37.2935	ppb	0.7870	2.1	46.7507

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mb 680-269722/1-a (Samp) 3/19/2013, 7:00:57 PM Rack 1, Tube 33

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2893u	-0.3251u	-0.4391u
Al 308.215	1.7632	4.9316	5.0659
As 188.980	-1.1069u	-1.9871u	-1.0214u
B 249.678	-5.8956u	-5.9838u	-5.3234u
Ba 389.178	0.5085	-0.0598u	0.3970
Be 313.042	-0.0551u	-0.0620u	-0.0560u
Ca 370.602	1.064	1.522	5.485
Cd 226.502	0.1622	0.0651	0.2353
Co 228.615	0.7505	1.0194	-0.1877u
Cr 267.716	0.1322	-0.0691u	0.1529
Cu 324.754	-0.4398u	-0.9179u	-0.2520u
Fe 271.441	13.8177	15.5849	29.3160
K 766.491	0.0971	0.8100	0.4673
Mg 279.078	2.4401	2.5043	5.5027
Mn 257.610	0.2751	0.4449	0.6173
Mo 202.032	-0.5332u	-0.2279u	-0.6968u
Na 330.237	-149.251u	-163.608u	238.443
Ni 231.604	0.7932	0.2233	-0.0853u
Pb 220.353	-0.0479u	-1.8581u	-0.8643u
Sb 206.834	4.9848	-3.2470u	-1.1475u
Se 196.026	4.2307	-2.8018u	0.1268
Sn 189.925	0.2703	-0.4961u	-0.9166u
Sr 216.596	-0.3144u	-0.5714u	-0.0685u
Ti 334.941	-0.0202u	-0.0346u	0.0553
Tl 190.794	0.8638	-4.0452u	-0.1317u
V 292.401	0.0672	0.2221	0.2440
Zn 206.200	0.7412	1.7607	1.7906

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3512	ppb	0.0782	22.3	-87.2374
Al 308.215	3.9202	ppb	1.8693	47.7	294.830
As 188.980	-1.3718	ppb	0.5346	39.0	-1.0068
B 249.678	-5.7343	ppb	0.3585	6.3	61.0539
Ba 389.178	0.2819	ppb	0.3011	106.8	-29.0496
Be 313.042	-0.0577	ppb	0.0037	6.5	-259.825
Ca 370.602	2.690	ppb	2.431	90.4	22.62
Cd 226.502	0.1542	ppb	0.0854	55.4	14.3213
Co 228.615	0.5274	ppb	0.6337	120.2	20.1749
Cr 267.716	0.0720	ppb	0.1227	170.3	0.5426
Cu 324.754	-0.5366	ppb	0.3433	64.0	142.934
Fe 271.441	19.5729	ppb	8.4840	43.3	36.7110
K 766.491	0.4581	ppb	0.3565	77.8	298.079
Mg 279.078	3.4824	ppb	1.7500	50.3	23.9586
Mn 257.610	0.4458	ppb	0.1711	38.4	159.588
Mo 202.032	-0.4860	ppb	0.2380	49.0	10.7827
Na 330.237	-24.8052	ppb	228.093	919.5	-3.5171
Ni 231.604	0.3104	ppb	0.4457	143.6	1.6271
Pb 220.353	-0.9234	ppb	0.9066	98.2	-0.8447
Sb 206.834	0.1968	ppb	4.2773	2173.8	1.8680
Se 196.026	0.5186	ppb	3.5326	681.2	-0.6125
Sn 189.925	-0.3808	ppb	0.6018	158.0	0.4411
Sr 216.596	-0.3181	ppb	0.2515	79.0	4.8137
Ti 334.941	0.0002	ppb	0.0483	26819.9	-30.9533
Tl 190.794	-1.1043	ppb	2.5950	235.0	-0.4907
V 292.401	0.1778	ppb	0.0964	54.2	8.8253
Zn 206.200	1.4308	ppb	0.5974	41.8	430.6514

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llcs 680-269722/2-a (Samp) 3/19/2013, 7:06:23 PM Rack 1, Tube 34
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	10.7730	10.1005	10.2963
Al 308.215	212.653	211.949	212.780
As 188.980	30.2471	21.1224	28.6040
B 249.678	100.614	99.4860	101.597
Ba 389.178	11.2568	10.6905	11.1270
Be 313.042	4.2179	4.1584	4.1900
Ca 370.602	532.4	532.8	530.8
Cd 226.502	5.5960	5.5849	5.5083
Co 228.615	10.7725	11.2627	10.8804
Cr 267.716	10.7502	10.5321	10.6987
Cu 324.754	21.2971	20.8880	20.3967
Fe 271.441	67.6449	74.3688	68.0383
K 766.491	1138.97	1133.21	1137.98
Mg 279.078	543.418	540.639	545.645
Mn 257.610	12.0927	12.1595	12.0697
Mo 202.032	9.6034	9.3937	9.2753
Na 330.237	1145.87	1062.94	854.505
Ni 231.604	43.9089	42.4282	43.3755
Pb 220.353	11.3226	11.1465	13.1498
Sb 206.834	17.9665	20.6587	18.8417
Se 196.026	15.6979	20.8862	16.9595
Sn 189.925	51.0766	45.3602	47.7333
Sr 216.596	10.9269	10.6406	11.6768
Ti 334.941	10.2876	10.2204	10.2391
Tl 190.794	26.1063	19.7482	22.9232
V 292.401	10.5180	10.5774	10.6894
Zn 206.200	24.9812	23.1826	22.3065

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.3899	ppb	0.3459	3.3	726.854
Al 308.215	212.460	ppb	0.4478	0.2	1522.48
As 188.980	26.6578	ppb	4.8637	18.2	14.7696
B 249.678	100.566	ppb	1.0561	1.1	1009.42
Ba 389.178	11.0248	ppb	0.2966	2.7	264.580
Be 313.042	4.1888	ppb	0.0298	0.7	8903.84
Ca 370.602	532.0	ppb	1.064	0.2	2118
Cd 226.502	5.5631	ppb	0.0478	0.9	229.024
Co 228.615	10.9719	ppb	0.2576	2.3	153.571
Cr 267.716	10.6603	ppb	0.1140	1.1	505.880
Cu 324.754	20.8606	ppb	0.4508	2.2	1314.25
Fe 271.441	70.0173	ppb	3.7736	5.4	124.032
K 766.491	1136.72	ppb	3.0836	0.3	75746.0
Mg 279.078	543.234	ppb	2.5079	0.5	1202.18
Mn 257.610	12.1073	ppb	0.0466	0.4	2881.98
Mo 202.032	9.4241	ppb	0.1662	1.8	87.8048
Na 330.237	1021.11	ppb	150.121	14.7	52.7815
Ni 231.604	43.2375	ppb	0.7499	1.7	114.364
Pb 220.353	11.8729	ppb	1.1093	9.3	21.9962
Sb 206.834	19.1556	ppb	1.3733	7.2	21.5404
Se 196.026	17.8479	ppb	2.7058	15.2	8.3951
Sn 189.925	48.0567	ppb	2.8719	6.0	49.5089
Sr 216.596	11.0814	ppb	0.5351	4.8	137.776
Ti 334.941	10.2491	ppb	0.0347	0.3	3273.64
Tl 190.794	22.9259	ppb	3.1790	13.9	18.6341
V 292.401	10.5950	ppb	0.0870	0.8	325.393
Zn 206.200	23.4901	ppb	1.3636	5.8	20.3674

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Ics 680-269722/3-a (Samp) 3/19/2013, 7:11:49 PM Rack 1, Tube 35

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	21.9181	21.3022	22.0946
Al 308.215	2081.85	2075.12	2085.46
As 188.980	29.1424	32.4709	30.1645
B 249.678	81.4469	81.8271	83.4788
Ba 389.178	43.2398	43.5148	43.0526
Be 313.042	21.5883	21.5141	21.6508
Ca 370.602	2096	2089	2109
Cd 226.502	22.0141	21.8551	21.9327
Co 228.615	21.3874	21.4877	22.2682
Cr 267.716	43.1063	43.3168	43.2554
Cu 324.754	41.7765	41.8030	42.7406
Fe 271.441	2163.16	2152.27	2177.21
K 766.491	2256.48	2254.17	2269.75
Mg 279.078	2185.12	2171.30	2178.91
Mn 257.610	225.342	224.321	225.432
Mo 202.032	40.6958	41.0096	40.9952
Na 330.237	1839.82	1945.25	2089.57
Ni 231.604	42.5101	46.0200	43.2330
Pb 220.353	22.1319	21.2279	18.7354
Sb 206.834	12.5623	8.1295	16.3887
Se 196.026	40.3945	31.2339	45.1312
Sn 189.925	5.5786	3.5437	3.1089
Sr 216.596	42.8426	43.1701	42.9278
Ti 334.941	39.4525	39.2985	39.5758
Tl 190.794	13.0533	13.6853	15.1048
V 292.401	43.2253	42.5761	42.9258
Zn 206.200	45.5503	45.0741	45.6633

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	21.7716	ppb	0.4160	1.9	1589.53
Al 308.215	2080.81	ppb	5.2521	0.3	12514.4
As 188.980	30.5926	ppb	1.7050	5.6	16.9691
B 249.678	82.2510	ppb	1.0802	1.3	844.153
Ba 389.178	43.2690	ppb	0.2325	0.5	1149.14
Be 313.042	21.5844	ppb	0.0684	0.3	46445.1
Ca 370.602	2098	ppb	10.41	0.5	8127
Cd 226.502	21.9340	ppb	0.0795	0.4	883.848
Co 228.615	21.7145	ppb	0.4822	2.2	290.604
Cr 267.716	43.2262	ppb	0.1083	0.3	2061.29
Cu 324.754	42.1067	ppb	0.5491	1.3	2478.37
Fe 271.441	2164.21	ppb	12.5063	0.6	3677.27
K 766.491	2260.13	ppb	8.4102	0.4	150340
Mg 279.078	2178.45	ppb	6.9214	0.3	4768.72
Mn 257.610	225.032	ppb	0.6171	0.3	52535.9
Mo 202.032	40.9002	ppb	0.1772	0.4	332.338
Na 330.237	1958.21	ppb	125.379	6.4	102.407
Ni 231.604	43.9210	ppb	1.8533	4.2	116.204
Pb 220.353	20.6984	ppb	1.7591	8.5	37.7142
Sb 206.834	12.3602	ppb	4.1333	33.4	14.5662
Se 196.026	38.9199	ppb	7.0651	18.2	19.4122
Sn 189.925	4.0771	ppb	1.3184	32.3	4.9588
Sr 216.596	42.9802	ppb	0.1699	0.4	512.811
Ti 334.941	39.4423	ppb	0.1389	0.4	12687.5
Tl 190.794	13.9478	ppb	1.0506	7.5	11.1570
V 292.401	42.9091	ppb	0.3249	0.8	1307.32
Zn 206.200	45.4292	ppb	0.3127	0.7	568781

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

ics 680-269722/4-a (Samp) 3/19/2013, 7:17:15 PM Rack 1, Tube 36
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	87.1409	86.2327	85.8758
Al 308.215	820.135	819.025	815.381
As 188.980	91.4684	94.8978	95.6011
B 249.678	163.070	164.323	163.932
Ba 389.178	84.0803	84.0215	82.6438
Be 313.042	84.0582	84.1079	83.7523
Ca 370.602	8241	8253	8215
Cd 226.502	85.2427	85.5467	85.1866
Co 228.615	85.5183	84.2661	84.2920
Cr 267.716	84.3569	84.5136	83.9609
Cu 324.754	82.4983	82.6153	82.6727
Fe 271.441	9246.43	9247.72	9211.90
K 766.491	8652.06	8646.87	8610.91
Mg 279.078	8504.71	8518.90	8473.28
Mn 257.610	863.307	863.796	858.857
Mo 202.032	80.7541	80.6715	81.5571
Na 330.237	7595.61	7492.97	7431.30
Ni 231.604	83.8736	84.9345	83.6519
Pb 220.353	87.6720	84.9182	83.0560
Sb 206.834	79.9830	81.2473	75.2842
Se 196.026	80.7557	86.2346	81.9382
Sn 189.925	82.7278	79.4067	81.7256
Sr 216.596	89.3253	89.5641	88.5641
Ti 334.941	83.2999	83.4980	83.0850
Tl 190.794	20.2712	24.4941	17.2148
V 292.401	85.1150	84.7919	84.5253
Zn 206.200	81.0939	80.8555	81.9828

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	86.4165	ppb	0.6522	0.8	6492.24
Al 308.215	818.181	ppb	2.4869	0.3	5093.22
As 188.980	93.9891	ppb	2.2111	2.4	52.6208
B 249.678	163.775	ppb	0.6412	0.4	1565.22
Ba 389.178	83.5819	ppb	0.8129	1.0	2275.58
Be 313.042	83.9728	ppb	0.1926	0.2	181100
Ca 370.602	8236	ppb	19.70	0.2	31768
Cd 226.502	85.3253	ppb	0.1938	0.2	3416.78
Co 228.615	84.6921	ppb	0.7156	0.8	1095.01
Cr 267.716	84.2771	ppb	0.2849	0.3	4024.24
Cu 324.754	82.5955	ppb	0.0889	0.1	4697.45
Fe 271.441	9235.35	ppb	20.3176	0.2	15678.6
K 766.491	8636.61	ppb	22.4094	0.3	573738
Mg 279.078	8498.96	ppb	23.3457	0.3	18559.8
Mn 257.610	861.987	ppb	2.7211	0.3	201086
Mo 202.032	80.9942	ppb	0.4892	0.6	643.584
Na 330.237	7506.63	ppb	83.0018	1.1	399.669
Ni 231.604	84.1534	ppb	0.6855	0.8	222.009
Pb 220.353	85.2154	ppb	2.3223	2.7	153.070
Sb 206.834	78.8382	ppb	3.1421	4.0	84.0514
Se 196.026	82.9762	ppb	2.8832	3.5	42.5126
Sn 189.925	81.2867	ppb	1.7035	2.1	83.1774
Sr 216.596	89.1512	ppb	0.5222	0.6	1057.37
Ti 334.941	83.2943	ppb	0.2065	0.2	26848.4
Tl 190.794	20.6600	ppb	3.6552	17.7	15.4984
V 292.401	84.8107	ppb	0.2953	0.3	2580.94
Zn 206.200	81.3107	ppb	0.5941	0.7	410.902

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

Cont Calib Verif (CCV) 3/19/2013, 7:22:40 PM Rack 1, Tube 37
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	502.379	497.461	498.582
Al 308.215	4991.76	5064.77	5061.31
As 188.980	484.431	477.490	488.368
B 249.678	2521.53	2564.15	2583.60
Ba 389.178	4931.99	4957.80	4961.59
Be 313.042	490.580	494.276	494.365
Ca 370.602	4953	4977	4976
Cd 226.502	494.280	498.424	498.262
Co 228.615	499.103	501.764	502.882
Cr 267.716	4899.67	4923.88	4936.87
Cu 324.754	4910.70	4870.84	4863.54
Fe 271.441	5050.52	5078.32	5067.26
K 766.491	9975.40	9974.54	9950.46
Mg 279.078	4932.76	4972.69	4983.98
Mn 257.610	4971.15	5012.84	5006.63
Mo 202.032	492.564	498.555	497.421
Na 330.237	7516.57	7468.26	7476.71
Ni 231.604	2492.29	2507.59	2511.95
Pb 220.353	495.321	499.641	502.878
Sb 206.834	954.961	961.449	965.014
Se 196.026	4931.06	4945.16	4946.96
Sn 189.925	5029.52	5083.78	5075.24
Sr 216.596	2435.85	2445.04	2451.57
Ti 334.941	482.712	485.055	485.727
Tl 190.794	5022.88	5062.58	5062.74
V 292.401	4941.58	4968.43	4956.77
Zn 206.200	2502.90	2522.06	2525.61

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	499.474	ppb	2.5772	0.5	37753.5	99.89476
Al 308.215	5039.28	ppb	41.1929	0.8	29886.1	100.78560
As 188.980	483.430	ppb	5.5081	1.1	271.715	96.68596
B 249.678	2556.43	ppb	31.7498	1.2	22916.4	102.25713
Ba 389.178	4950.46	ppb	16.1080	0.3	134465	99.00923
Be 313.042	493.074	ppb	2.1599	0.4	1063848	98.61475
Ca 370.602	4969	ppb	13.51	0.3	19533	99.37713
Cd 226.502	496.989	ppb	2.3473	0.5	19735.6	99.39773
Co 228.615	501.249	ppb	1.9415	0.4	6428.23	100.24989
Cr 267.716	4920.14	ppb	18.8815	0.4	234809	98.40280
Cu 324.754	4881.69	ppb	25.3833	0.5	267320	97.63383
Fe 271.441	5065.37	ppb	13.9929	0.3	8716.00	101.30730
K 766.491	9966.80	ppb	14.1552	0.1	662063	99.66801
Mg 279.078	4963.14	ppb	26.9146	0.5	10769.3	99.26288
Mn 257.610	4996.87	ppb	22.4933	0.5	1164976	99.93742
Mo 202.032	496.180	ppb	3.1823	0.6	3861.82	99.23594
Na 330.237	7487.18	ppb	25.8023	0.3	377.607	99.82906
Ni 231.604	2503.94	ppb	10.3273	0.4	6576.82	100.15768
Pb 220.353	499.280	ppb	3.7913	0.8	892.884	99.85605
Sb 206.834	960.475	ppb	5.0970	0.5	1046.04	96.04747
Se 196.026	4941.06	ppb	8.7048	0.2	2567.79	98.82120
Sn 189.925	5062.85	ppb	29.1715	0.6	5129.48	101.25691
Sr 216.596	2444.16	ppb	7.8982	0.3	28691.9	97.76629
Ti 334.941	484.498	ppb	1.5826	0.3	156085	96.89964
Tl 190.794	5049.40	ppb	22.9695	0.5	4017.26	100.98806
V 292.401	4955.59	ppb	13.4658	0.3	151466	99.11189
Zn 206.200	2516.86	ppb	12.2190	0.5	3152.94	100.67439

E03192013.wvq. All Data Report 3/20/2013, 1:33:49 PM

Cont Calib Blank (CCB) 3/19/2013, 7:28:04 PM Rack 1, Tube 38

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0112	-0.5591u	-0.3517u
Al 308.215	0.8436	-0.1670u	-2.1630u
As 188.980	-5.3733u	-6.1132u	3.7617
B 249.678	15.2626	12.2439	10.5702
Ba 389.178	1.0837	0.1765	0.9946
Be 313.042	-0.0180u	-0.0173u	-0.0170u
Ca 370.602	-0.4806u	-3.344u	-1.229u
Cd 226.502	0.0636	0.1819	0.1196
Co 228.615	0.0777	0.3280	-0.3817u
Cr 267.716	0.3947	0.3358	0.4918
Cu 324.754	-0.0117u	0.3558	0.1298
Fe 271.441	-0.7183u	-1.1615u	3.8717
K 766.491	0.3055	0.0662	0.1203
Mg 279.078	4.8223	-1.7480u	1.4007
Mn 257.610	0.4595	0.4491	0.3798
Mo 202.032	0.5732	-0.0096u	-0.2857u
Na 330.237	126.349	28.2407	-45.2886u
Ni 231.604	2.1807	-0.9028u	-0.0474u
Pb 220.353	-1.8434u	0.2288	0.7498
Sb 206.834	0.7728	1.0719	3.1000
Se 196.026	2.6490	-4.8715u	8.9258
Sn 189.925	-1.4719u	-0.5643u	0.0997
Sr 216.596	0.1864	0.2338	-0.2501u
Ti 334.941	0.0599	-0.0105u	-0.0319u
Tl 190.794	0.5435	-0.2602u	3.6227
V 292.401	0.5350	0.4953	0.2458
Zn 206.200	-0.0955u	0.3638	0.9997

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.2998	ppb	0.2886	96.3	-83.3492	-0.29984
Al 308.215	-0.4955	ppb	1.5300	308.8	268.933	-0.49547
As 188.980	-2.5749	ppb	5.5002	213.6	-1.6840	-2.57492
B 249.678	12.6922	ppb	2.3781	18.7	225.468	12.69223
Ba 389.178	0.7516	ppb	0.5000	66.5	-16.3111	0.75161
Be 313.042	-0.0174	ppb	0.0005	2.9	-173.028	-0.01743
Ca 370.602	-1.684	ppb	1.485	88.1	6.587	-1.68439
Cd 226.502	0.1217	ppb	0.0592	48.6	13.0003	0.12172
Co 228.615	0.0080	ppb	0.3599	4480.7	13.5207	0.00803
Cr 267.716	0.4074	ppb	0.0788	19.3	16.5470	0.40740
Cu 324.754	0.1580	ppb	0.1854	117.3	180.959	0.15797
Fe 271.441	0.6640	ppb	2.7868	419.7	4.6067	0.66397
K 766.491	0.1640	ppb	0.1255	76.5	278.550	0.16401
Mg 279.078	1.4917	ppb	3.2861	220.3	19.6116	1.49169
Mn 257.610	0.4294	ppb	0.0433	10.1	155.743	0.42945
Mo 202.032	0.0926	ppb	0.4384	473.3	15.2813	0.09264
Na 330.237	36.4336	ppb	86.1115	236.4	-0.1951	36.43365
Ni 231.604	0.4102	ppb	1.5918	388.1	1.8889	0.41018
Pb 220.353	-0.2883	ppb	1.3717	475.8	0.2896	-0.28829
Sb 206.834	1.6482	ppb	1.2661	76.8	3.3685	1.64822
Se 196.026	2.2345	ppb	6.9080	309.2	0.2790	2.23446
Sn 189.925	-0.6455	ppb	0.7890	122.2	0.1730	-0.64548
Sr 216.596	0.0567	ppb	0.2668	470.4	9.1948	0.05671
Ti 334.941	0.0058	ppb	0.0480	824.9	-29.1481	0.00582
Tl 190.794	1.3020	ppb	2.0496	157.4	1.4258	1.30200
V 292.401	0.4254	ppb	0.1568	36.9	16.2655	0.42538
Zn 206.200	0.4226	ppb	0.5499	129.6	40.3826	0.42264

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

560-38521-b-1-d (Samp) 3/19/2013, 7:33:28 PM Rack 1, Tube 39

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.8368	-0.2279u	0.1637
Al 308.215	9.1789	6.6769	7.5298
As 188.980	-4.1781u	2.4283	5.4657
B 249.678	27.1933	26.0228	26.1412
Ba 389.178	51.6690	50.3996	51.6381
Be 313.042	-0.0426u	-0.0406u	-0.0410u
Ca 370.602	9029	9030	9047
Cd 226.502	-0.0584u	0.0716	-0.0270u
Co 228.615	-0.3041u	0.1469	0.0538
Cr 267.716	0.5230	0.2460	0.3468
Cu 324.754	7.8980	7.3871	7.6530
Fe 271.441	35.4398	38.4402	33.7342
K 766.491	3165.14	3172.20	3175.94
Mg 279.078	2881.40	2879.47	2883.75
Mn 257.610	0.9957	1.0197	1.0791
Mo 202.032	-0.0125u	-0.0230u	-0.3751u
Na 330.237	18822.0	18805.5	18944.3
Ni 231.604	2.7286	0.6543	1.1651
Pb 220.353	1.2808	0.9288	-4.0240u
Sb 206.834	-3.4848u	-5.6211u	-4.8397u
Se 196.026	7.6232	-1.2021u	0.7469
Sn 189.925	-1.3200u	1.0751	0.4035
Sr 216.596	78.9187	79.1542	77.6065
Ti 334.941	-0.1096u	-0.1946u	-0.1539u
Tl 190.794	-2.2233u	0.6420	-1.8308u
V 292.401	0.0507	0.4543	0.5477
Zn 206.200	7.0639	7.4952	7.1550

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2575	ppb	0.5385	209.1	-44.7127
Al 308.215	7.7952	ppb	1.2719	16.3	317.657
As 188.980	1.2386	ppb	4.9307	398.1	0.5309
B 249.678	26.4524	ppb	0.6444	2.4	348.214
Ba 389.178	51.2356	ppb	0.7241	1.4	1363.77
Be 313.042	-0.0414	ppb	0.0010	2.5	-223.923
Ca 370.602	9035	ppb	10.37	0.1	35819
Cd 226.502	-0.0046	ppb	0.0678	1473.0	7.9999
Co 228.615	-0.0345	ppb	0.2381	690.7	12.9822
Cr 267.716	0.3719	ppb	0.1402	37.7	15.1951
Cu 324.754	7.6460	ppb	0.2555	3.3	590.798
Fe 271.441	35.8714	ppb	2.3825	6.6	64.3060
K 766.491	3171.09	ppb	5.4801	0.2	210828
Mg 279.078	2881.54	ppb	2.1448	0.1	6307.78
Mn 257.610	1.0315	ppb	0.0429	4.2	315.764
Mo 202.032	-0.1369	ppb	0.2064	150.8	13.4955
Na 330.237	18857.3	ppb	75.8027	0.4	1017.83
Ni 231.604	1.5160	ppb	1.0807	71.3	4.7936
Pb 220.353	-0.6048	ppb	2.9664	490.5	-0.2754
Sb 206.834	-4.6485	ppb	1.0809	23.3	-3.1572
Se 196.026	2.3894	ppb	4.6363	194.0	0.3599
Sn 189.925	0.0529	ppb	1.2355	2336.9	0.8931
Sr 216.596	78.5598	ppb	0.8339	1.1	933.497
Ti 334.941	-0.1527	ppb	0.0425	27.8	-66.9616
Tl 190.794	-1.1374	ppb	1.5534	136.6	-0.5187
V 292.401	0.3509	ppb	0.2641	75.3	13.9183
Zn 206.200	7.2380	ppb	0.2273	3.1	8.9540

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560-38521-b-1-e ms (Samp) **3/19/2013, 7:38:52 PM** **Rack 1, Tube 40****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	21.0155	21.0855	21.9938
Al 308.215	2053.24	2065.93	2064.00
As 188.980	32.4172	36.1302	29.2290
B 249.678	108.641	109.409	110.978
Ba 389.178	92.0184	91.6199	91.9214
Be 313.042	21.3627	21.4585	21.4567
Ca 370.602	10911	10955	10974
Cd 226.502	21.5473	21.8015	21.7162
Co 228.615	21.2437	21.9591	21.5849
Cr 267.716	42.7658	42.8037	42.9192
Cu 324.754	48.8771	50.2691	51.7082
Fe 271.441	2164.44	2162.95	2164.14
K 766.491	5365.28	5387.44	5395.34
Mg 279.078	4924.14	4932.54	4956.31
Mn 257.610	222.034	222.696	223.057
Mo 202.032	39.6748	40.1181	40.5582
Na 330.237	20515.1	20685.5	20645.0
Ni 231.604	44.2156	44.5319	45.2275
Pb 220.353	22.1561	23.8989	21.7182
Sb 206.834	12.6855	8.2543	13.8104
Se 196.026	38.2049	36.0409	45.1070
Sn 189.925	5.1196	5.3046	2.8103
Sr 216.596	119.533	119.338	119.101
Ti 334.941	38.0768	38.2579	38.4545
Tl 190.794	18.7303	18.9330	18.9502
V 292.401	42.6345	43.0661	42.9144
Zn 206.200	49.0544	51.1083	50.5206

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	21.3649	ppb	0.5457	2.6	1555.12
Al 308.215	2061.06	ppb	6.8398	0.3	12398.1
As 188.980	32.5921	ppb	3.4539	10.6	18.1621
B 249.678	109.676	ppb	1.1909	1.1	1088.84
Ba 389.178	91.8532	ppb	0.2078	0.2	2477.23
Be 313.042	21.4260	ppb	0.0548	0.3	46104.0
Ca 370.602	10947	ppb	32.14	0.3	43194
Cd 226.502	21.6883	ppb	0.1293	0.6	874.047
Co 228.615	21.5959	ppb	0.3578	1.7	289.095
Cr 267.716	42.8296	ppb	0.0799	0.2	2042.68
Cu 324.754	50.2848	ppb	1.4156	2.8	2925.94
Fe 271.441	2163.84	ppb	0.7886	0.0	3676.63
K 766.491	5382.69	ppb	15.5822	0.3	357678
Mg 279.078	4937.66	ppb	16.6857	0.3	10793.1
Mn 257.610	222.596	ppb	0.5188	0.2	51986.8
Mo 202.032	40.1170	ppb	0.4417	1.1	326.249
Na 330.237	20615.2	ppb	89.0289	0.4	1111.60
Ni 231.604	44.6583	ppb	0.5177	1.2	118.140
Pb 220.353	22.5911	ppb	1.1536	5.1	41.0983
Sb 206.834	11.5834	ppb	2.9374	25.4	13.7704
Se 196.026	39.7843	ppb	4.7349	11.9	19.8607
Sn 189.925	4.4115	ppb	1.3898	31.5	5.3100
Sr 216.596	119.324	ppb	0.2159	0.2	1411.72
Ti 334.941	38.2631	ppb	0.1889	0.5	12320.3
Tl 190.794	18.8712	ppb	0.1223	0.6	15.0804
V 292.401	42.8717	ppb	0.2189	0.5	1306.27
Zn 206.200	50.2277	ppb	1.0578	2.1	6209135

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

560-38521-b-1-f msd (Samp) 3/19/2013, 7:44:17 PM Rack 1, Tube 41

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	21.5971	21.5131	20.4660
Al 308.215	2058.97	2053.12	2060.05
As 188.980	56.8925	57.9878	57.0350
B 249.678	109.680	110.578	108.805
Ba 389.178	92.5443	92.5963	91.8349
Be 313.042	21.4637	21.4064	21.4046
Ca 370.602	11005	10954	10954
Cd 226.502	21.5538	21.4110	21.3977
Co 228.615	21.5661	21.5347	21.3423
Cr 267.716	42.8507	42.7531	42.4558
Cu 324.754	49.8284	48.9929	48.9629
Fe 271.441	2182.69	2196.85	2195.14
K 766.491	5416.50	5404.64	5384.31
Mg 279.078	4956.11	4939.31	4945.38
Mn 257.610	222.865	222.544	222.673
Mo 202.032	41.0407	41.3944	41.4853
Na 330.237	20453.8	20661.2	20288.3
Ni 231.604	44.4678	43.6216	43.3210
Pb 220.353	20.9069	21.0255	23.7638
Sb 206.834	21.0598	26.8390	29.8316
Se 196.026	47.5503	45.9530	41.0510
Sn 189.925	70.9570	70.4805	71.0302
Sr 216.596	120.248	118.844	118.849
Ti 334.941	44.9291	44.8206	44.8888
Tl 190.794	16.7429	17.0930	14.9436
V 292.401	42.6564	42.5230	43.2271
Zn 206.200	50.3546	49.7417	49.4472

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	21.1920	ppb	0.6302	3.0	1542.00
Al 308.215	2057.38	ppb	3.7291	0.2	12376.7
As 188.980	57.3051	ppb	0.5955	1.0	32.0705
B 249.678	109.688	ppb	0.8868	0.8	1088.92
Ba 389.178	92.3252	ppb	0.4254	0.5	2490.11
Be 313.042	21.4249	ppb	0.0336	0.2	46101.5
Ca 370.602	10971	ppb	29.30	0.3	43288
Cd 226.502	21.4542	ppb	0.0865	0.4	864.834
Co 228.615	21.4810	ppb	0.1212	0.6	287.713
Cr 267.716	42.6865	ppb	0.2057	0.5	2035.88
Cu 324.754	49.2614	ppb	0.4913	1.0	2869.99
Fe 271.441	2191.56	ppb	7.7271	0.4	3723.61
K 766.491	5401.82	ppb	16.2781	0.3	358948
Mg 279.078	4946.93	ppb	8.5069	0.2	10813.4
Mn 257.610	222.694	ppb	0.1614	0.1	52009.9
Mo 202.032	41.3068	ppb	0.2349	0.6	335.498
Na 330.237	20467.8	ppb	186.853	0.9	1103.56
Ni 231.604	43.8035	ppb	0.5946	1.4	115.895
Pb 220.353	21.8987	ppb	1.6163	7.4	39.8552
Sb 206.834	25.9101	ppb	4.4590	17.2	28.6218
Se 196.026	44.8514	ppb	3.3868	7.6	22.4937
Sn 189.925	70.8225	ppb	0.2985	0.4	72.5842
Sr 216.596	119.314	ppb	0.8092	0.7	1411.58
Ti 334.941	44.8795	ppb	0.0549	0.1	14451.9
Tl 190.794	16.2598	ppb	1.1533	7.1	12.9991
V 292.401	42.8022	ppb	0.3740	0.9	1303.94
Zn 206.200	49.8479	ppb	0.4629	0.9	624358

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

560-38521-b-2-b (Samp) 3/19/2013, 7:49:41 PM Rack 1, Tube 42
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0485u	-0.2528u	-0.1149u
Al 308.215	7.7982	5.2469	8.0275
As 188.980	-5.1300u	-3.4170u	-3.9840u
B 249.678	24.2020	23.6958	22.8384
Ba 389.178	45.1884	45.2704	44.6971
Be 313.042	-0.0670u	-0.0658u	-0.0659u
Ca 370.602	9511	9473	9477
Cd 226.502	0.0596	-0.0028	0.1358
Co 228.615	-0.1508u	0.0445	0.0603
Cr 267.716	0.0027	-0.0144u	0.0669
Cu 324.754	1.8751	2.7497	2.1633
Fe 271.441	113.999	122.135	120.089
K 766.491	3187.34	3179.61	3193.11
Mg 279.078	2736.38	2715.45	2715.02
Mn 257.610	19.6174	19.4824	19.5030
Mo 202.032	-0.9747u	-0.5844u	-0.9391u
Na 330.237	18842.6	18505.7	18912.1
Ni 231.604	0.8406	1.0148	0.3624
Pb 220.353	-0.6931u	-2.5108u	-1.3774u
Sb 206.834	-4.6032u	1.6112	1.5067
Se 196.026	-0.7698u	1.0504	-1.3419u
Sn 189.925	-2.7518u	-3.9209u	-2.6857u
Sr 216.596	78.1609	77.8399	77.5019
Ti 334.941	-0.1448u	-0.1425u	-0.1607u
Tl 190.794	3.6671	-1.6087u	1.6103
V 292.401	-0.1053u	-0.0130u	-0.1609u
Zn 206.200	1.3234	0.0711	0.0975

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1387	ppb	0.1042	75.1	-74.6736
Al 308.215	7.0242	ppb	1.5435	22.0	313.039
As 188.980	-4.1770	ppb	0.8726	20.9	-2.5141
B 249.678	23.5787	ppb	0.6893	2.9	322.497
Ba 389.178	45.0520	ppb	0.3101	0.7	1195.49
Be 313.042	-0.0662	ppb	0.0006	0.9	-277.208
Ca 370.602	9487	ppb	20.64	0.2	37600
Cd 226.502	0.0642	ppb	0.0694	108.2	10.9518
Co 228.615	-0.0153	ppb	0.1176	766.6	13.2508
Cr 267.716	0.0184	ppb	0.0429	233.1	-1.5771
Cu 324.754	2.2627	ppb	0.4457	19.7	296.171
Fe 271.441	118.741	ppb	4.2321	3.6	204.894
K 766.491	3186.69	ppb	6.7728	0.2	211864
Mg 279.078	2722.28	ppb	12.2104	0.4	5959.78
Mn 257.610	19.5343	ppb	0.0727	0.4	4628.34
Mo 202.032	-0.8327	ppb	0.2158	25.9	8.0819
Na 330.237	18753.4	ppb	217.356	1.2	1012.24
Ni 231.604	0.7393	ppb	0.3378	45.7	2.7556
Pb 220.353	-1.5271	ppb	0.9181	60.1	-1.9184
Sb 206.834	-0.4951	ppb	3.5581	718.6	1.1582
Se 196.026	-0.3538	ppb	1.2492	353.1	-1.0601
Sn 189.925	-3.1194	ppb	0.6948	22.3	-2.3203
Sr 216.596	77.8342	ppb	0.3296	0.4	925.098
Ti 334.941	-0.1493	ppb	0.0099	6.6	-66.6422
Tl 190.794	1.2229	ppb	2.6592	217.4	1.3359
V 292.401	-0.0931	ppb	0.0747	80.3	0.4766
Zn 206.200	0.4973	ppb	0.7155	143.8	0.4774

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

190-240-a-1-b (Samp) **3/19/2013, 7:55:06 PM** **Rack 1, Tube 43**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0574u	0.7081	-0.2878u
Al 308.215	22.4620	25.1524	21.9765
As 188.980	4.3453	-7.2742u	-0.7350u
B 249.678	7.0406	6.6258	5.6055
Ba 389.178	10.4797	10.8917	11.4820
Be 313.042	-0.0703u	-0.0731u	-0.0677u
Ca 370.602	25943	25954	25912
Cd 226.502	-0.0328u	0.2010	0.0756
Co 228.615	-0.2265u	0.4184	-0.1691u
Cr 267.716	0.1299	0.2869	0.4094
Cu 324.754	46.1013	45.2242	44.0489
Fe 271.441	35.9738	36.9275	45.0248
K 766.491	1184.99	1184.71	1186.20
Mg 279.078	7250.57	7236.83	7232.06
Mn 257.610	0.7861	0.7828	0.8323
Mo 202.032	-0.4671u	-0.0942u	0.3098
Na 330.237	19782.3	19763.6	19618.3
Ni 231.604	0.4972	0.7438	1.6482
Pb 220.353	0.1582	1.8254	1.2779
Sb 206.834	1.1136	-2.3092u	-2.6930u
Se 196.026	-1.6089u	-3.0283u	-0.2376u
Sn 189.925	-0.1557u	-3.6948u	-3.7578u
Sr 216.596	99.8576	99.1126	99.0059
Ti 334.941	0.4629	0.4958	0.5313
Tl 190.794	-1.7561u	1.4538	6.1642
V 292.401	-0.4385u	-0.2025u	-0.2296u
Zn 206.200	47.2099	45.9567	45.7410

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1592	ppb	0.5057	317.6	-53.2072
Al 308.215	23.1970	ppb	1.7107	7.4	408.268
As 188.980	-1.2213	ppb	5.8250	476.9	-0.7252
B 249.678	6.4240	ppb	0.7385	11.5	169.509
Ba 389.178	10.9511	ppb	0.5038	4.6	282.923
Be 313.042	-0.0704	ppb	0.0027	3.8	-279.980
Ca 370.602	25936	ppb	21.42	0.1	102800
Cd 226.502	0.0813	ppb	0.1170	144.0	11.4772
Co 228.615	0.0076	ppb	0.3569	4688.0	13.5375
Cr 267.716	0.2754	ppb	0.1401	50.9	10.6114
Cu 324.754	45.1248	ppb	1.0298	2.3	2642.10
Fe 271.441	39.3087	ppb	4.9732	12.7	70.1812
K 766.491	1185.30	ppb	0.7932	0.1	78971.3
Mg 279.078	7239.82	ppb	9.6084	0.1	15823.5
Mn 257.610	0.8004	ppb	0.0277	3.5	291.748
Mo 202.032	-0.0838	ppb	0.3886	463.6	13.9089
Na 330.237	19721.4	ppb	89.7571	0.5	1064.26
Ni 231.604	0.9631	ppb	0.6060	62.9	3.3417
Pb 220.353	1.0872	ppb	0.8498	78.2	2.7470
Sb 206.834	-1.2962	ppb	2.0957	161.7	0.3167
Se 196.026	-1.6249	ppb	1.3954	85.9	-1.7259
Sn 189.925	-2.5361	ppb	2.0617	81.3	-1.7207
Sr 216.596	99.3254	ppb	0.4640	0.5	1179.59
Ti 334.941	0.4967	ppb	0.0342	6.9	164.757
Tl 190.794	1.9540	ppb	3.9838	203.9	1.9426
V 292.401	-0.2902	ppb	0.1292	44.5	-5.6957
Zn 206.200	46.3025	ppb	0.7932	1.7	58.0821

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190-240-a-2-b (Samp) **3/19/2013, 8:00:31 PM** **Rack 1, Tube 44**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1271u	0.1606	-0.4300u
Al 308.215	24.2964	23.5315	21.7989
As 188.980	3.3608	-1.0144u	-2.7999u
B 249.678	7.0940	7.2106	6.2176
Ba 389.178	12.2431	12.4049	12.2654
Be 313.042	-0.0683u	-0.0732u	-0.0805u
Ca 370.602	26857	26908	26940
Cd 226.502	-0.0499u	0.0233	0.0403
Co 228.615	0.1286	0.1304	-0.2663u
Cr 267.716	0.3162	0.1766	0.3414
Cu 324.754	53.5947	53.5530	53.8894
Fe 271.441	692.345	700.236	694.812
K 766.491	1111.12	1111.13	1113.98
Mg 279.078	8118.80	8120.08	8125.83
Mn 257.610	8.8067	8.7930	8.8432
Mo 202.032	-0.6126u	0.0736	0.4097
Na 330.237	10577.4	10143.2	10404.8
Ni 231.604	1.2387	2.5697	0.2504
Pb 220.353	0.6567	1.7906	0.1033
Sb 206.834	1.1822	-1.9030u	-4.9559u
Se 196.026	1.7550	-0.3709u	4.6070
Sn 189.925	-0.9624u	-2.2758u	-2.9595u
Sr 216.596	101.890	101.733	101.676
Ti 334.941	-0.0402	-0.1384u	-0.0504
Tl 190.794	-1.3941u	0.4065	-2.8038u
V 292.401	-0.2427u	-0.6897u	-0.0972u
Zn 206.200	146.018	146.306	143.907

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1322	ppb	0.2953	223.4	-75.4269
Al 308.215	23.2089	ppb	1.2797	5.5	408.342
As 188.980	-0.1511	ppb	3.1698	2097.4	-0.1210
B 249.678	6.8407	ppb	0.5428	7.9	172.644
Ba 389.178	12.3045	ppb	0.0877	0.7	323.481
Be 313.042	-0.0740	ppb	0.0062	8.4	-286.206
Ca 370.602	26902	ppb	41.98	0.2	106559
Cd 226.502	0.0046	ppb	0.0479	1040.5	10.1981
Co 228.615	-0.0025	ppb	0.2285	9319.7	13.3654
Cr 267.716	0.2781	ppb	0.0887	31.9	10.7603
Cu 324.754	53.6790	ppb	0.1834	0.3	3110.51
Fe 271.441	695.798	ppb	4.0368	0.6	1183.46
K 766.491	1112.08	ppb	1.6488	0.1	74109.8
Mg 279.078	8121.57	ppb	3.7462	0.0	17748.6
Mn 257.610	8.8143	ppb	0.0260	0.3	2167.86
Mo 202.032	-0.0431	ppb	0.5210	1209.6	14.1905
Na 330.237	10375.1	ppb	218.597	2.1	557.712
Ni 231.604	1.3529	ppb	1.1639	86.0	4.3792
Pb 220.353	0.8502	ppb	0.8601	101.2	2.3256
Sb 206.834	-1.8922	ppb	3.0690	162.2	-0.2863
Se 196.026	1.9970	ppb	2.4977	125.1	0.1621
Sn 189.925	-2.0659	ppb	1.0150	49.1	-1.2478
Sr 216.596	101.766	ppb	0.1108	0.1	1208.70
Ti 334.941	-0.0763	ppb	0.0540	70.8	-14.3307
Tl 190.794	-1.2638	ppb	1.6091	127.3	-0.6559
V 292.401	-0.3432	ppb	0.3088	90.0	-7.2386
Zn 206.200	145.410	ppb	1.3100	0.8	182.722

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190-240-a-3-b (Samp) **3/19/2013, 8:05:57 PM** **Rack 1, Tube 45**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0483u	0.1336	-0.7848u
Al 308.215	16.0683	15.9725	13.2389
As 188.980	0.5258	-1.3073u	1.2828
B 249.678	6.3269	5.9918	5.2469
Ba 389.178	12.3838	10.1474	10.2908
Be 313.042	-0.0598u	-0.0744u	-0.0703u
Ca 370.602	25212	25233	25283
Cd 226.502	0.0960	-0.0712u	-0.1567u
Co 228.615	0.1951	0.0730	0.3370
Cr 267.716	0.0323	0.2852	0.0757
Cu 324.754	40.7071	41.1521	41.0971
Fe 271.441	18.4615	16.1338	24.6924
K 766.491	1196.59	1193.45	1189.46
Mg 279.078	7010.87	7001.09	7016.19
Mn 257.610	0.3383	0.4136	0.3757
Mo 202.032	-0.3754u	-0.1300u	-0.5712u
Na 330.237	19749.2	19824.3	19785.0
Ni 231.604	0.6490	1.3800	0.3577
Pb 220.353	1.0213	1.3852	-1.6956u
Sb 206.834	-4.8250u	0.3352	1.9667
Se 196.026	-3.4691u	-2.4897u	-0.0769u
Sn 189.925	-2.2820u	-0.6963u	-3.0780u
Sr 216.596	97.0850	98.2579	98.0997
Ti 334.941	0.3596	0.3361	0.3803
Tl 190.794	0.1216	-4.2242u	0.5493
V 292.401	-0.3255u	-0.5127u	-0.3601u
Zn 206.200	42.2127	43.8400	44.7543

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2332	ppb	0.4863	208.6	-82.9608
Al 308.215	15.0932	ppb	1.6066	10.6	360.554
As 188.980	0.1671	ppb	1.3318	796.9	0.0521
B 249.678	5.8552	ppb	0.5528	9.4	164.452
Ba 389.178	10.9407	ppb	1.2518	11.4	281.921
Be 313.042	-0.0682	ppb	0.0075	11.0	-275.424
Ca 370.602	25243	ppb	36.68	0.1	100053
Cd 226.502	-0.0440	ppb	0.1286	292.4	6.4545
Co 228.615	0.2017	ppb	0.1321	65.5	16.0284
Cr 267.716	0.1311	ppb	0.1352	103.2	3.7170
Cu 324.754	40.9854	ppb	0.2426	0.6	2415.53
Fe 271.441	19.7626	ppb	4.4251	22.4	37.0376
K 766.491	1193.17	ppb	3.5707	0.3	79493.8
Mg 279.078	7009.39	ppb	7.6585	0.1	15320.4
Mn 257.610	0.3759	ppb	0.0376	10.0	191.215
Mo 202.032	-0.3589	ppb	0.2210	61.6	11.7717
Na 330.237	19786.2	ppb	37.5447	0.2	1067.79
Ni 231.604	0.7956	ppb	0.5267	66.2	2.9014
Pb 220.353	0.2370	ppb	1.6835	710.4	1.2284
Sb 206.834	-0.8410	ppb	3.5453	421.5	0.7933
Se 196.026	-2.0119	ppb	1.7458	86.8	-1.9272
Sn 189.925	-2.0188	ppb	1.2124	60.1	-1.1968
Sr 216.596	97.8142	ppb	0.6364	0.7	1161.77
Ti 334.941	0.3587	ppb	0.0221	6.2	119.132
Tl 190.794	-1.1844	ppb	2.6412	223.0	-0.5551
V 292.401	-0.3994	ppb	0.0996	24.9	-8.9568
Zn 206.200	43.6023	ppb	1.2871	3.0	54.6865

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190-240-a-4-b (Samp) 3/19/2013, 8:11:22 PM Rack 1, Tube 46
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3090u	-0.7942u	-0.1032u
Al 308.215	21.3582	19.3991	20.0593
As 188.980	1.0643	-3.4690u	0.1067
B 249.678	5.8895	6.7484	6.9367
Ba 389.178	13.3226	12.8045	13.2588
Be 313.042	-0.0773u	-0.0685u	-0.0699u
Ca 370.602	27162	27133	27182
Cd 226.502	0.0499	-0.0849u	-0.0286u
Co 228.615	0.0412	-0.2054u	0.1360
Cr 267.716	0.5841	0.3195	0.3256
Cu 324.754	17.8281	17.3771	18.2555
Fe 271.441	42.1982	47.6284	44.5777
K 766.491	1136.51	1140.49	1139.62
Mg 279.078	8137.34	8119.60	8145.67
Mn 257.610	1.8663	1.8814	1.8766
Mo 202.032	-0.5552u	0.0423	-0.2668u
Na 330.237	10324.8	10651.6	10725.2
Ni 231.604	1.8029	1.2002	1.6534
Pb 220.353	0.5818	2.2554	-0.9646u
Sb 206.834	-3.0102u	-5.5405u	-4.9275u
Se 196.026	5.6346	3.5028	-0.5914u
Sn 189.925	-3.7531u	1.9659	-1.2791u
Sr 216.596	102.858	101.973	102.831
Ti 334.941	-0.1914u	-0.2010u	-0.1565u
Tl 190.794	1.1510	0.8618	-3.6625u
V 292.401	-0.2680u	-0.5297u	-0.2409u
Zn 206.200	66.5474	65.1285	64.9638

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4021	ppb	0.3548	88.2	-95.9863
Al 308.215	20.2722	ppb	0.9967	4.9	391.068
As 188.980	-0.7660	ppb	2.3893	311.9	-0.4589
B 249.678	6.5249	ppb	0.5582	8.6	170.404
Ba 389.178	13.1286	ppb	0.2825	2.2	344.840
Be 313.042	-0.0719	ppb	0.0047	6.5	-281.609
Ca 370.602	27159	ppb	24.43	0.1	107645
Cd 226.502	-0.0212	ppb	0.0677	319.5	7.4944
Co 228.615	-0.0094	ppb	0.1762	1872.4	13.2985
Cr 267.716	0.4097	ppb	0.1511	36.9	16.8673
Cu 324.754	17.8202	ppb	0.4393	2.5	1147.67
Fe 271.441	44.8014	ppb	2.7220	6.1	79.4854
K 766.491	1138.87	ppb	2.0916	0.2	75888.6
Mg 279.078	8134.20	ppb	13.3151	0.2	17776.2
Mn 257.610	1.8748	ppb	0.0077	0.4	548.437
Mo 202.032	-0.2599	ppb	0.2988	115.0	12.5397
Na 330.237	10567.2	ppb	213.104	2.0	568.931
Ni 231.604	1.5522	ppb	0.3139	20.2	4.8890
Pb 220.353	0.6242	ppb	1.6104	258.0	1.9203
Sb 206.834	-4.4928	ppb	1.3200	29.4	-2.9959
Se 196.026	2.8487	ppb	3.1641	111.1	0.5989
Sn 189.925	-1.0221	ppb	2.8682	280.6	-0.1902
Sr 216.596	102.554	ppb	0.5036	0.5	1217.70
Ti 334.941	-0.1830	ppb	0.0234	12.8	-48.7044
Tl 190.794	-0.5499	ppb	2.6995	490.9	-0.0528
V 292.401	-0.3462	ppb	0.1595	46.1	-7.3439
Zn 206.200	65.5465	ppb	0.8706	1.3	82.2833

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190-241-a-1-b (Samp) **3/19/2013, 8:16:48 PM** **Rack 1, Tube 47**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.7677	-0.0497u	-0.0829u
Al 308.215	7.3573	6.3350	6.2673
As 188.980	1.1422	2.3866	-1.3822u
B 249.678	8.0190	7.2481	7.3561
Ba 389.178	12.9512	13.3270	12.8954
Be 313.042	-0.0603u	-0.0721u	-0.0779u
Ca 370.602	26603	26632	26630
Cd 226.502	-0.2227u	-0.0012u	0.0113
Co 228.615	0.8016	-0.0901u	-0.2874u
Cr 267.716	0.2475	0.4449	0.0719
Cu 324.754	0.2665	-0.2218u	0.1421
Fe 271.441	22.0184	19.5258	16.9365
K 766.491	1373.86	1377.55	1380.09
Mg 279.078	5757.40	5776.37	5764.67
Mn 257.610	0.0222	0.0115	0.0489
Mo 202.032	-0.2750u	0.3154	-0.1733u
Na 330.237	25267.4	25288.8	25196.1
Ni 231.604	-1.4596u	1.3506	1.1755
Pb 220.353	-3.0704u	0.5119	0.8301
Sb 206.834	-0.0802u	-0.7682u	4.3630
Se 196.026	-6.7388u	-3.7984u	-4.0838u
Sn 189.925	-4.1430u	-3.0530u	1.2237
Sr 216.596	101.229	100.530	101.030
Ti 334.941	0.5359	0.5568	0.5518
Tl 190.794	-1.4979u	3.0676	-2.3354u
V 292.401	-0.5552u	-0.3423u	-0.3318u
Zn 206.200	22.4059	24.4268	23.7724

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2117	ppb	0.4818	227.6	-49.3498
Al 308.215	6.6532	ppb	0.6107	9.2	310.936
As 188.980	0.7156	ppb	1.9203	268.4	0.3707
B 249.678	7.5411	ppb	0.4174	5.5	179.493
Ba 389.178	13.0579	ppb	0.2347	1.8	335.615
Be 313.042	-0.0701	ppb	0.0090	12.8	-279.800
Ca 370.602	26622	ppb	16.20	0.1	105518
Cd 226.502	-0.0709	ppb	0.1316	185.7	5.3422
Co 228.615	0.1414	ppb	0.5802	410.4	15.2578
Cr 267.716	0.2548	ppb	0.1866	73.2	9.7184
Cu 324.754	0.0623	ppb	0.2538	407.6	175.723
Fe 271.441	19.4935	ppb	2.5411	13.0	36.6150
K 766.491	1377.17	ppb	3.1343	0.2	91711.5
Mg 279.078	5766.15	ppb	9.5740	0.2	12605.9
Mn 257.610	0.0276	ppb	0.0192	69.8	101.523
Mo 202.032	-0.0443	ppb	0.3157	712.7	14.2174
Na 330.237	25250.8	ppb	48.5369	0.2	1363.55
Ni 231.604	0.3555	ppb	1.5744	442.9	1.7457
Pb 220.353	-0.5761	ppb	2.1660	376.0	-0.2249
Sb 206.834	1.1716	ppb	2.7852	237.7	2.8790
Se 196.026	-4.8736	ppb	1.6215	33.3	-3.4143
Sn 189.925	-1.9908	ppb	2.8366	142.5	-1.1655
Sr 216.596	100.929	ppb	0.3603	0.4	1198.56
Ti 334.941	0.5482	ppb	0.0109	2.0	173.238
Tl 190.794	-0.2552	ppb	2.9079	1139.4	0.1853
V 292.401	-0.4098	ppb	0.1261	30.8	-9.3711
Zn 206.200	23.5350	ppb	1.0311	4.4	29.4494

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190-242-a-1-b (Samp) **3/19/2013, 8:22:15 PM** **Rack 1, Tube 48**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1084	0.4994	0.7147
Al 308.215	45.3977	51.2934	48.0588
As 188.980	3.0168	4.0342	-6.7596u
B 249.678	7.0817	8.2963	8.0747
Ba 389.178	14.8623	15.0170	14.3340
Be 313.042	-0.0621u	-0.0548u	-0.0605u
Ca 370.602	27578	27537	27548
Cd 226.502	0.0426	0.0691	-0.0940u
Co 228.615	0.0652	0.5465	0.4164
Cr 267.716	0.7344	0.7721	0.5661
Cu 324.754	70.8608	71.7428	70.9257
Fe 271.441	66.5885	76.7390	70.8720
K 766.491	1219.60	1218.28	1222.09
Mg 279.078	9021.81	8987.62	8978.27
Mn 257.610	7.9616	7.8982	7.8916
Mo 202.032	0.3185	-0.5397u	0.2211
Na 330.237	13606.3	13603.9	13530.3
Ni 231.604	0.9721	2.4452	1.6508
Pb 220.353	1.2321	2.7524	6.4717
Sb 206.834	0.9680	-1.6894u	-5.6575u
Se 196.026	0.6352	-1.2500u	0.3653
Sn 189.925	-2.7680u	-1.1314u	-2.4550u
Sr 216.596	104.118	103.208	102.522
Ti 334.941	1.7246	1.8396	1.8043
Tl 190.794	1.6677	0.8690	-1.8672u
V 292.401	0.1348	-0.3916u	-0.2762u
Zn 206.200	51.9497	50.7981	49.0589

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4408	ppb	0.3074	69.7	-32.0861
Al 308.215	48.2500	ppb	2.9525	6.1	555.624
As 188.980	0.0972	ppb	5.9599	6134.5	0.0294
B 249.678	7.8176	ppb	0.6469	8.3	181.914
Ba 389.178	14.7378	ppb	0.3581	2.4	391.212
Be 313.042	-0.0591	ppb	0.0039	6.6	-254.347
Ca 370.602	27554	ppb	21.52	0.1	109210
Cd 226.502	0.0059	ppb	0.0875	1479.1	8.6329
Co 228.615	0.3427	ppb	0.2489	72.6	17.8529
Cr 267.716	0.6909	ppb	0.1097	15.9	30.3737
Cu 324.754	71.1764	ppb	0.4915	0.7	4067.97
Fe 271.441	71.3998	ppb	5.0958	7.1	124.584
K 766.491	1219.99	ppb	1.9353	0.2	81274.8
Mg 279.078	8995.90	ppb	22.9215	0.3	19657.5
Mn 257.610	7.9171	ppb	0.0386	0.5	1962.91
Mo 202.032	-0.0000	ppb	0.46991218571.5		14.5582
Na 330.237	13580.2	ppb	43.2135	0.3	732.005
Ni 231.604	1.6894	ppb	0.7373	43.6	5.2499
Pb 220.353	3.4854	ppb	2.6956	77.3	7.0327
Sb 206.834	-2.1263	ppb	3.3343	156.8	-0.5393
Se 196.026	-0.0832	ppb	1.0195	1225.7	-0.9228
Sn 189.925	-2.1181	ppb	0.8687	41.0	-1.2990
Sr 216.596	103.283	ppb	0.8003	0.8	1226.31
Ti 334.941	1.7895	ppb	0.0589	3.3	590.935
Tl 190.794	0.2232	ppb	1.8538	830.7	0.5546
V 292.401	-0.1777	ppb	0.2767	155.7	-2.2053
Zn 206.200	50.6022	ppb	1.4553	2.9	634883

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

Cont Calib Verif (CCV) 3/19/2013, 8:27:40 PM Rack 1, Tube 49
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	497.720	500.308	502.233
Al 308.215	4970.88	4976.37	4978.34
As 188.980	487.572	491.671	480.857
B 249.678	2525.44	2541.26	2557.54
Ba 389.178	4913.43	4914.47	4922.29
Be 313.042	489.717	490.358	490.667
Ca 370.602	4919	4926	4931
Cd 226.502	493.363	494.183	494.592
Co 228.615	497.813	498.215	498.271
Cr 267.716	4885.89	4893.64	4903.51
Cu 324.754	4870.73	4957.03	4830.53
Fe 271.441	5046.42	5035.52	5024.42
K 766.491	9887.42	9881.67	9859.54
Mg 279.078	4939.31	4945.70	4945.31
Mn 257.610	4977.72	4971.84	4969.80
Mo 202.032	490.536	492.423	496.667
Na 330.237	7297.00	7437.78	7367.20
Ni 231.604	2487.62	2483.56	2488.73
Pb 220.353	492.237	491.362	495.577
Sb 206.834	946.507	948.026	964.664
Se 196.026	4906.30	4942.55	4913.86
Sn 189.925	5021.47	5048.26	5064.92
Sr 216.596	2421.77	2432.49	2435.82
Ti 334.941	479.099	480.906	481.554
Tl 190.794	5001.68	4988.83	4989.45
V 292.401	4926.01	4924.32	4925.87
Zn 206.200	2518.48	2507.67	2515.67

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	500.087	ppb	2.2650	0.5	37800.2	100.01740
Al 308.215	4975.19	ppb	3.8650	0.1	29509.5	99.50388
As 188.980	486.700	ppb	5.4597	1.1	273.556	97.33994
B 249.678	2541.41	ppb	16.0541	0.6	22782.4	101.65645
Ba 389.178	4916.73	ppb	4.8443	0.1	133549	98.33464
Be 313.042	490.248	ppb	0.4845	0.1	1057749	98.04951
Ca 370.602	4926	ppb	6.204	0.1	19363	98.51068
Cd 226.502	494.046	ppb	0.6258	0.1	19618.8	98.80921
Co 228.615	498.100	ppb	0.2502	0.1	6387.87	99.61994
Cr 267.716	4894.34	ppb	8.8303	0.2	233578	97.88689
Cu 324.754	4886.10	ppb	64.6372	1.3	267561	97.72192
Fe 271.441	5035.46	ppb	11.0009	0.2	8664.66	100.70911
K 766.491	9876.21	ppb	14.7178	0.1	656048	98.76210
Mg 279.078	4943.44	ppb	3.5851	0.1	10726.7	98.86880
Mn 257.610	4973.12	ppb	4.1104	0.1	1159438	99.46234
Mo 202.032	493.209	ppb	3.1402	0.6	3838.78	98.64177
Na 330.237	7367.33	ppb	70.3924	1.0	371.192	98.23103
Ni 231.604	2486.64	ppb	2.7205	0.1	6531.37	99.46550
Pb 220.353	493.059	ppb	2.2243	0.5	881.766	98.61171
Sb 206.834	953.066	ppb	10.0731	1.1	1038.19	95.30656
Se 196.026	4920.91	ppb	19.1252	0.4	2557.31	98.41814
Sn 189.925	5044.89	ppb	21.9209	0.4	5111.29	100.89773
Sr 216.596	2430.03	ppb	7.3386	0.3	28526.1	97.20107
Ti 334.941	480.520	ppb	1.2725	0.3	154803	96.10394
Tl 190.794	4993.32	ppb	7.2480	0.1	3972.62	99.86635
V 292.401	4925.40	ppb	0.9376	0.0	150542	98.50800
Zn 206.200	2513.94	ppb	5.6975	0.2	3149.31	100.55762

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

Cont Calib Blank (CCB) 3/19/2013, 8:33:04 PM Rack 1, Tube 50
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0219u	0.4300	0.2132
Al 308.215	-0.1303u	-0.9817u	0.8874
As 188.980	-0.4367u	2.3695	-6.0323u
B 249.678	15.3245	12.7070	10.0764
Ba 389.178	-0.0753u	1.1114	1.0352
Be 313.042	-0.0151u	-0.0132u	-0.0228u
Ca 370.602	-0.4571u	2.379	2.016
Cd 226.502	0.0406	0.0162	-0.0227u
Co 228.615	0.1385	0.2596	0.5608
Cr 267.716	0.5120	0.4689	0.5798
Cu 324.754	-0.4715u	-0.0745u	0.3631
Fe 271.441	4.3851	4.2804	-0.3634u
K 766.491	0.2408	0.0825	0.0466
Mg 279.078	5.1252	2.1356	4.0077
Mn 257.610	0.6075	0.5415	0.5420
Mo 202.032	0.2185	-0.6959u	0.2126
Na 330.237	-25.9068u	-46.4167u	-63.1384u
Ni 231.604	0.4232	-0.2801u	0.4417
Pb 220.353	-0.4013u	-0.3240u	-1.4081u
Sb 206.834	-2.4362u	2.7499	0.6593
Se 196.026	-3.4897u	-6.8145u	0.3510
Sn 189.925	1.4122	0.5525	-1.1313u
Sr 216.596	0.4436	0.5011	0.1967
Ti 334.941	0.0329	-0.0254u	-0.0261u
Tl 190.794	3.9364	-0.7982u	-2.3954u
V 292.401	0.3837	0.5879	0.2135
Zn 206.200	-0.4556u	3.1531	0.6846

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2071	ppb	0.2260	109.1	-44.8800	0.20710
Al 308.215	-0.0749	ppb	0.9358	1249.8	271.396	-0.07487
As 188.980	-1.3665	ppb	4.2774	313.0	-1.0038	-1.36649
B 249.678	12.7026	ppb	2.6241	20.7	225.561	12.70264
Ba 389.178	0.6904	ppb	0.6642	96.2	-17.9673	0.69042
Be 313.042	-0.0171	ppb	0.0051	29.9	-172.184	-0.01706
Ca 370.602	1.313	ppb	1.543	117.6	18.45	1.31253
Cd 226.502	0.0114	ppb	0.0319	280.5	8.6243	0.01137
Co 228.615	0.3196	ppb	0.2175	68.0	17.5054	0.31963
Cr 267.716	0.5202	ppb	0.0559	10.7	21.9325	0.52024
Cu 324.754	-0.0610	ppb	0.4175	684.8	168.974	-0.06096
Fe 271.441	2.7674	ppb	2.7118	98.0	8.2483	2.76736
K 766.491	0.1233	ppb	0.1033	83.8	275.847	0.12330
Mg 279.078	3.7562	ppb	1.5106	40.2	24.5533	3.75616
Mn 257.610	0.5636	ppb	0.0380	6.7	187.039	0.56363
Mo 202.032	-0.0883	ppb	0.5262	596.1	13.8748	-0.08828
Na 330.237	-45.1540	ppb	18.6479	41.3	-4.6115	-45.15400
Ni 231.604	0.1949	ppb	0.4115	211.1	1.3236	0.19493
Pb 220.353	-0.7111	ppb	0.6048	85.0	-0.4660	-0.71115
Sb 206.834	0.3243	ppb	2.6093	804.5	1.9978	0.32434
Se 196.026	-3.3177	ppb	3.5858	108.1	-2.6058	-3.31773
Sn 189.925	0.2778	ppb	1.2938	465.8	1.1082	0.27778
Sr 216.596	0.3804	ppb	0.1617	42.5	13.0084	0.38045
Ti 334.941	-0.0062	ppb	0.0339	546.1	-32.9987	-0.00620
Tl 190.794	0.2476	ppb	3.2929	1329.9	0.5862	0.24760
V 292.401	0.3950	ppb	0.1875	47.5	15.3470	0.39502
Zn 206.200	1.1274	ppb	1.8447	163.8	430.2686	1.12736

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88206-b-1-b (Samp) 3/19/2013, 8:38:28 PM Rack 1, Tube 51

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3112u	0.1933	-0.6628u
Al 308.215	7.0875	7.4299	4.2812
As 188.980	1.9639	-2.5737u	4.8152
B 249.678	73.9199	74.1876	73.7032
Ba 389.178	1.1580	1.3308	2.0110
Be 313.042	-0.0595u	-0.0553u	-0.0635u
Ca 370.602	44560	44458	44361
Cd 226.502	-0.0802u	-0.1134u	-0.1320u
Co 228.615	0.9622	0.2315	-0.2232u
Cr 267.716	1.4071	1.3148	1.2697
Cu 324.754	4.5396	4.0121	4.6525
Fe 271.441	14.8740	8.1145	10.2172
K 766.491	449.153	451.803	449.315
Mg 279.078	53047.0	53018.1	52968.0
Mn 257.610	-0.1908	-0.2345	-0.2151
Mo 202.032	0.2063	0.4677	-0.0010u
Na 330.237	60715.7	60949.0	60844.7
Ni 231.604	1.6666	3.1328	3.6739
Pb 220.353	-1.0758u	2.2982	5.3595
Sb 206.834	-0.1699u	-3.2427u	-5.6902u
Se 196.026	15.8108	10.1524	2.0586
Sn 189.925	-0.2956u	-4.3671u	-0.5315u
Sr 216.596	238.731	237.241	236.410
Ti 334.941	-0.7504	-0.8096	-0.8792u
Tl 190.794	1.2482	3.9302	-1.4114u
V 292.401	21.3034	21.3932	21.5351
Zn 206.200	62.2755	61.2318	60.6903

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2603	ppb	0.4303	165.3	-92.1072
Al 308.215	6.2662	ppb	1.7275	27.6	308.328
As 188.980	1.4018	ppb	3.7264	265.8	0.8945
B 249.678	73.9369	ppb	0.2427	0.3	771.890
Ba 389.178	1.4999	ppb	0.4509	30.1	166.441
Be 313.042	-0.0594	ppb	0.0041	6.9	-257.259
Ca 370.602	44460	ppb	99.38	0.2	176215
Cd 226.502	-0.1085	ppb	0.0262	24.2	4.2453
Co 228.615	0.3235	ppb	0.5980	184.9	17.5518
Cr 267.716	1.3305	ppb	0.0700	5.3	61.4797
Cu 324.754	4.4014	ppb	0.3419	7.8	412.985
Fe 271.441	11.0686	ppb	3.4592	31.3	22.4775
K 766.491	450.090	ppb	1.4854	0.3	30153.6
Mg 279.078	53011.0	ppb	39.9896	0.1	115758
Mn 257.610	-0.2134	ppb	0.0219	10.3	366.963
Mo 202.032	0.2243	ppb	0.2349	104.7	16.2621
Na 330.237	60836.4	ppb	116.858	0.2	3288.23
Ni 231.604	2.8244	ppb	1.0386	36.8	8.2295
Pb 220.353	2.1940	ppb	3.2189	146.7	4.7251
Sb 206.834	-3.0343	ppb	2.7660	91.2	-1.4792
Se 196.026	9.3406	ppb	6.9119	74.0	3.9716
Sn 189.925	-1.7314	ppb	2.2856	132.0	-0.8783
Sr 216.596	237.461	ppb	1.1756	0.5	2806.26
Ti 334.941	-0.8131	ppb	0.0645	7.9	-23.2617
Tl 190.794	1.2557	ppb	2.6708	212.7	1.3960
V 292.401	21.4106	ppb	0.1168	0.5	659.610
Zn 206.200	61.3992	ppb	0.8958	1.5	477.0654

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88206-b-2-b (Samp) 3/19/2013, 8:43:52 PM Rack 1, Tube 52
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1138u	-0.2577u	0.0493
Al 308.215	93.4114	93.1752	93.5641
As 188.980	-2.0415u	-2.5345u	-8.2602u
B 249.678	66.1105	66.6374	68.6022
Ba 389.178	6.0114	5.6043	6.0414
Be 313.042	-0.0591u	-0.0600u	-0.0638u
Ca 370.602	18697	18792	18728
Cd 226.502	-0.0196	0.0348	0.0753
Co 228.615	-0.2845u	0.5396	-0.3381u
Cr 267.716	1.1048	1.2238	1.3375
Cu 324.754	2.8207	2.9709	2.9646
Fe 271.441	121.396	107.487	113.331
K 766.491	2192.28	2207.20	2199.64
Mg 279.078	51110.2	51332.3	51118.6
Mn 257.610	3.0641	3.0075	3.0279
Mo 202.032	-0.2050u	-0.5466u	-0.4185u
Na 330.237	30995.6	30918.8	30950.8
Ni 231.604	9.2468	9.8325	9.1605
Pb 220.353	2.8833	3.6182	1.6950
Sb 206.834	2.7522	-7.4373u	-4.8742u
Se 196.026	-9.1365u	0.3933	14.2190
Sn 189.925	1.4054	-2.2626u	-0.9926u
Sr 216.596	65.3602	66.1452	65.6012
Ti 334.941	1.0894	1.0364	1.0112
Tl 190.794	-0.2254u	3.9560	-2.3328u
V 292.401	18.8720	18.7494	19.3471
Zn 206.200	7.5545	6.7196	8.1415

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1074	ppb	0.1536	143.0	-72.4490
Al 308.215	93.3836	ppb	0.1959	0.2	820.667
As 188.980	-4.2787	ppb	3.4569	80.8	-2.5007
B 249.678	67.1167	ppb	1.3132	2.0	710.948
Ba 389.178	5.8857	ppb	0.2442	4.1	280.313
Be 313.042	-0.0610	ppb	0.0025	4.1	-266.714
Ca 370.602	18739	ppb	48.15	0.3	74267
Cd 226.502	0.0302	ppb	0.0476	157.7	10.1732
Co 228.615	-0.0277	ppb	0.4920	1778.2	13.1328
Cr 267.716	1.2220	ppb	0.1164	9.5	55.8426
Cu 324.754	2.9187	ppb	0.0850	2.9	331.881
Fe 271.441	114.072	ppb	6.9842	6.1	197.085
K 766.491	2199.71	ppb	7.4600	0.3	146328
Mg 279.078	51187.0	ppb	125.856	0.2	111776
Mn 257.610	3.0332	ppb	0.0287	0.9	1111.88
Mo 202.032	-0.3900	ppb	0.1726	44.2	11.4849
Na 330.237	30955.0	ppb	38.5567	0.1	1672.20
Ni 231.604	9.4133	ppb	0.3656	3.9	25.5354
Pb 220.353	2.7322	ppb	0.9705	35.5	5.6856
Sb 206.834	-3.1865	ppb	5.3003	166.3	-1.6290
Se 196.026	1.8253	ppb	11.7434	643.4	0.0682
Sn 189.925	-0.6166	ppb	1.8627	302.1	0.2250
Sr 216.596	65.7022	ppb	0.4022	0.6	783.239
Ti 334.941	1.0457	ppb	0.0399	3.8	569.061
Tl 190.794	0.4659	ppb	3.2009	687.0	0.7581
V 292.401	18.9895	ppb	0.3157	1.7	585.787
Zn 206.200	7.4719	ppb	0.7145	9.6	9.2459

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

190-243-a-1-d (Samp) **3/19/2013, 8:49:27 PM** **Rack 1, Tube 53**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0999u	-0.8500u	-0.1772u
Al 308.215	28.6094	30.9194	30.5113
As 188.980	-2.8584u	-1.1236u	-1.5947u
B 249.678	8.9367	9.1003	9.9607
Ba 389.178	14.2613	15.1535	14.4198
Be 313.042	-0.0824u	-0.0642u	-0.0668u
Ca 370.602	27309	27270	27333
Cd 226.502	2.2430	2.0803	2.2668
Co 228.615	0.7882	0.4558	1.1872
Cr 267.716	0.4271	0.3474	0.1302
Cu 324.754	1190.87	1188.54	1180.75
Fe 271.441	69.5503	72.1569	67.0616
K 766.491	1116.81	1118.47	1119.55
Mg 279.078	8175.25	8165.31	8181.91
Mn 257.610	2.7068	2.7023	2.7496
Mo 202.032	-0.1512u	-0.0809u	0.5543
Na 330.237	6895.25	6959.55	7228.97
Ni 231.604	10.8566	9.1971	11.1703
Pb 220.353	-2.3826u	-1.4845u	0.8680
Sb 206.834	-2.9191u	-1.1263u	0.8416
Se 196.026	10.4699	-3.5036u	-6.9012u
Sn 189.925	-0.5032u	-3.9334u	-3.1681u
Sr 216.596	102.172	101.578	102.082
Ti 334.941	-0.1769u	-0.0828	-0.2179u
Tl 190.794	-3.6714u	-3.6404u	-0.3654u
V 292.401	-0.7578u	-0.4348u	-0.4293u
Zn 206.200	906.559	909.324	909.251

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3757	ppb	0.4126	109.8	-93.9525
Al 308.215	30.0134	ppb	1.2329	4.1	448.380
As 188.980	-1.8589	ppb	0.8971	48.3	-1.0728
B 249.678	9.3326	ppb	0.5501	5.9	195.434
Ba 389.178	14.6115	ppb	0.4760	3.3	385.318
Be 313.042	-0.0711	ppb	0.0099	13.9	-279.197
Ca 370.602	27304	ppb	31.60	0.1	108217
Cd 226.502	2.1967	ppb	0.1015	4.6	95.5519
Co 228.615	0.8104	ppb	0.3662	45.2	23.7708
Cr 267.716	0.3016	ppb	0.1536	50.9	11.6177
Cu 324.754	1186.72	ppb	5.2984	0.4	65124.0
Fe 271.441	69.5896	ppb	2.5479	3.7	121.584
K 766.491	1118.27	ppb	1.3810	0.1	74520.9
Mg 279.078	8174.16	ppb	8.3577	0.1	17863.4
Mn 257.610	2.7196	ppb	0.0261	1.0	745.807
Mo 202.032	0.1074	ppb	0.3886	361.9	15.3942
Na 330.237	7027.93	ppb	177.056	2.5	370.878
Ni 231.604	10.4080	ppb	1.0603	10.2	28.1475
Pb 220.353	-0.9997	ppb	1.6787	167.9	-0.9819
Sb 206.834	-1.0680	ppb	1.8810	176.1	0.5515
Se 196.026	0.0217	ppb	9.2065	42411.2	-0.8697
Sn 189.925	-2.5349	ppb	1.8006	71.0	-1.7241
Sr 216.596	101.944	ppb	0.3205	0.3	1210.39
Ti 334.941	-0.1592	ppb	0.0693	43.5	-40.4449
Tl 190.794	-2.5591	ppb	1.8998	74.2	-1.6546
V 292.401	-0.5406	ppb	0.1881	34.8	-13.2817
Zn 206.200	908.378	ppb	1.5756	0.3	4142.24

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

190-243-a-1-dSD^5 (Samp) 3/19/2013, 8:55:03 PM Rack 1, Tube 54

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6628u	-0.4336u	0.3441
Al 308.215	6.9153	7.1822	7.7147
As 188.980	-6.4546u	-5.8102u	4.6875
B 249.678	-3.0056u	-4.3778u	-4.6589u
Ba 389.178	2.8989	2.4479	3.1983
Be 313.042	-0.0606u	-0.0743u	-0.0668u
Ca 370.602	5675	5667	5728
Cd 226.502	0.4844	0.4951	0.4241
Co 228.615	0.0948	-0.0755u	-0.2549u
Cr 267.716	-0.1385u	-0.1728u	0.0451
Cu 324.754	244.671	243.339	244.843
Fe 271.441	12.0014	17.1956	23.1038
K 766.491	229.318	229.938	232.352
Mg 279.078	1696.43	1699.80	1710.03
Mn 257.610	0.5140	0.4656	0.5348
Mo 202.032	-1.1758u	-0.0402u	-0.5821u
Na 330.237	1457.06	1418.04	1386.34
Ni 231.604	2.0361	1.9841	1.5929
Pb 220.353	1.8116	1.4547	-0.1440u
Sb 206.834	0.2927	-2.9723u	-3.4802u
Se 196.026	2.0349	7.0500	-0.6181u
Sn 189.925	-3.1875u	-3.1940u	-0.4174u
Sr 216.596	20.9961	21.0362	20.5969
Ti 334.941	-0.2058u	-0.2139u	-0.2631u
Tl 190.794	-1.5903u	-7.6866u	-0.0128u
V 292.401	-0.0688u	-0.3035u	-0.5402u
Zn 206.200	186.431	183.528	185.112

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2508	ppb	0.5278	210.5	-80.6308
Al 308.215	7.2707	ppb	0.4070	5.6	314.516
As 188.980	-2.5258	ppb	6.2552	247.7	-1.6126
B 249.678	-4.0141	ppb	0.8846	22.0	76.4023
Ba 389.178	2.8484	ppb	0.3777	13.3	45.8719
Be 313.042	-0.0672	ppb	0.0068	10.2	-278.265
Ca 370.602	5690	ppb	33.11	0.6	22564
Cd 226.502	0.4679	ppb	0.0383	8.2	26.7769
Co 228.615	-0.0785	ppb	0.1749	222.7	12.4355
Cr 267.716	-0.0887	ppb	0.1172	132.0	-7.1075
Cu 324.754	244.284	ppb	0.8232	0.3	13542.5
Fe 271.441	17.4336	ppb	5.5550	31.9	33.0695
K 766.491	230.536	ppb	1.6031	0.7	15575.2
Mg 279.078	1702.09	ppb	7.0798	0.4	3732.62
Mn 257.610	0.5048	ppb	0.0355	7.0	185.003
Mo 202.032	-0.5994	ppb	0.5680	94.8	9.9023
Na 330.237	1420.48	ppb	35.4216	2.5	73.2278
Ni 231.604	1.8710	ppb	0.2423	12.9	5.7258
Pb 220.353	1.0408	ppb	1.0414	100.1	2.6656
Sb 206.834	-2.0533	ppb	2.0475	99.7	-0.4623
Se 196.026	2.8223	ppb	3.8942	138.0	0.5845
Sn 189.925	-2.2663	ppb	1.6012	70.7	-1.4654
Sr 216.596	20.8764	ppb	0.2429	1.2	254.701
Ti 334.941	-0.2276	ppb	0.0310	13.6	-95.6281
Tl 190.794	-3.0966	ppb	4.0526	130.9	-2.0774
V 292.401	-0.3042	ppb	0.2357	77.5	-5.8973
Zn 206.200	185.024	ppb	1.4533	0.8	232.541

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190-243-a-1-dPDS (Samp) **3/19/2013, 9:00:29 PM** **Rack 1, Tube 55**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.4580	51.4426	51.3137
Al 308.215	2046.88	2045.30	2042.94
As 188.980	2396.50	2394.93	2384.40
B 249.678	1082.95	1088.86	1094.16
Ba 389.178	2115.60	2116.99	2117.87
Be 313.042	51.6442	51.6447	51.6092
Ca 370.602	31711	31819	31809
Cd 226.502	55.2921	55.0927	55.0957
Co 228.615	533.846	532.007	530.854
Cr 267.716	206.045	206.267	207.041
Cu 324.754	1414.38	1388.06	1366.13
Fe 271.441	1110.37	1108.16	1111.60
K 766.491	6866.58	6834.62	6828.18
Mg 279.078	13361.1	13376.8	13393.4
Mn 257.610	537.031	537.398	537.212
Mo 202.032	518.887	520.685	522.515
Na 330.237	12034.9	12218.2	12247.8
Ni 231.604	531.535	534.594	529.526
Pb 220.353	525.156	523.905	520.387
Sb 206.834	529.029	522.344	525.538
Se 196.026	2084.62	2093.09	2075.83
Sn 189.925	1043.52	1055.46	1047.70
Sr 216.596	622.543	623.165	623.897
Ti 334.941	1025.41	1029.06	1030.31
Tl 190.794	2176.07	2177.78	2135.38
V 292.401	521.107	521.976	520.497
Zn 206.200	1429.66	1423.58	1421.93

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.4048	ppb	0.0792	0.2	3813.76
Al 308.215	2045.04	ppb	1.9840	0.1	12360.8
As 188.980	2391.94	ppb	6.5817	0.3	1346.08
B 249.678	1088.66	ppb	5.6058	0.5	9824.31
Ba 389.178	2116.82	ppb	1.1449	0.1	57506.9
Be 313.042	51.6327	ppb	0.0204	0.0	111206
Ca 370.602	31780	ppb	59.35	0.2	126108
Cd 226.502	55.1602	ppb	0.1143	0.2	2199.34
Co 228.615	532.236	ppb	1.5088	0.3	6825.30
Cr 267.716	206.451	ppb	0.5230	0.3	9850.38
Cu 324.754	1389.52	ppb	24.1620	1.7	76234.2
Fe 271.441	1110.04	ppb	1.7457	0.2	1972.38
K 766.491	6843.13	ppb	20.5630	0.3	454651
Mg 279.078	13377.1	ppb	16.1456	0.1	29214.0
Mn 257.610	537.214	ppb	0.1837	0.0	125386
Mo 202.032	520.695	ppb	1.8141	0.3	4061.60
Na 330.237	12167.0	ppb	115.301	0.9	636.009
Ni 231.604	531.885	ppb	2.5519	0.5	1397.68
Pb 220.353	523.149	ppb	2.4726	0.5	934.190
Sb 206.834	525.637	ppb	3.3434	0.6	542.145
Se 196.026	2084.51	ppb	8.6345	0.4	1082.36
Sn 189.925	1048.89	ppb	6.0571	0.6	1063.37
Sr 216.596	623.202	ppb	0.6776	0.1	7311.69
Ti 334.941	1028.26	ppb	2.5454	0.2	331310
Tl 190.794	2163.08	ppb	23.9992	1.1	1722.45
V 292.401	521.193	ppb	0.7435	0.1	15868.7
Zn 206.200	1425.05	ppb	4.0793	0.3	4791.51

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190-243-a-1-e ms (Samp) **3/19/2013, 9:05:54 PM** **Rack 1, Tube 56**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	22.0407	20.9249	21.3668
Al 308.215	2068.74	2058.90	2063.59
As 188.980	40.2400	30.2893	37.2064
B 249.678	100.971	101.246	100.614
Ba 389.178	57.9764	55.9623	56.6750
Be 313.042	21.0391	21.0352	21.0412
Ca 370.602	29558	29486	29528
Cd 226.502	23.5118	23.3375	23.7455
Co 228.615	21.1547	21.5878	21.0627
Cr 267.716	41.7143	41.4549	41.7806
Cu 324.754	1228.54	1234.21	1234.62
Fe 271.441	2194.49	2184.73	2191.65
K 766.491	3401.37	3403.00	3400.14
Mg 279.078	10337.6	10359.2	10369.2
Mn 257.610	221.800	221.986	222.148
Mo 202.032	41.0004	40.0500	41.3587
Na 330.237	8945.26	8879.51	8936.06
Ni 231.604	53.1632	52.2511	51.6483
Pb 220.353	21.1762	25.9002	24.9248
Sb 206.834	15.0610	9.7243	13.0492
Se 196.026	39.0238	34.6843	43.4925
Sn 189.925	15.9303	15.0863	14.5834
Sr 216.596	144.155	144.003	144.407
Ti 334.941	39.5786	39.4299	39.4063
Tl 190.794	18.2365	22.2780	17.3005
V 292.401	42.4285	42.0195	41.9297
Zn 206.200	958.921	957.096	959.108

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	21.4441	ppb	0.5619	2.6	1559.80
Al 308.215	2063.74	ppb	4.9194	0.2	12414.1
As 188.980	35.9119	ppb	5.1001	14.2	20.1727
B 249.678	100.944	ppb	0.3171	0.3	1010.91
Ba 389.178	56.8712	ppb	1.0213	1.8	1543.70
Be 313.042	21.0385	ppb	0.0031	0.0	45276.6
Ca 370.602	29524	ppb	35.85	0.1	116818
Cd 226.502	23.5316	ppb	0.2047	0.9	947.341
Co 228.615	21.2684	ppb	0.2804	1.3	284.897
Cr 267.716	41.6500	ppb	0.1721	0.4	1986.15
Cu 324.754	1232.46	ppb	3.3954	0.3	67628.7
Fe 271.441	2190.29	ppb	5.0211	0.2	3721.42
K 766.491	3401.50	ppb	1.4373	0.0	226127
Mg 279.078	10355.4	ppb	16.1558	0.2	22621.9
Mn 257.610	221.978	ppb	0.1742	0.1	51880.1
Mo 202.032	40.8031	ppb	0.6763	1.7	331.583
Na 330.237	8920.28	ppb	35.6055	0.4	471.850
Ni 231.604	52.3542	ppb	0.7627	1.5	138.352
Pb 220.353	24.0004	ppb	2.4940	10.4	43.6141
Sb 206.834	12.6115	ppb	2.6952	21.4	14.8112
Se 196.026	39.0669	ppb	4.4043	11.3	19.4879
Sn 189.925	15.2000	ppb	0.6806	4.5	16.2432
Sr 216.596	144.188	ppb	0.2043	0.1	1706.04
Ti 334.941	39.4716	ppb	0.0934	0.2	12738.9
Tl 190.794	19.2717	ppb	2.6453	13.7	15.3986
V 292.401	42.1259	ppb	0.2659	0.6	1283.43
Zn 206.200	958.375	ppb	1.1416	0.1	4305.02

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190-243-a-1-f msd (Samp) **3/19/2013, 9:11:20 PM** **Rack 1, Tube 57**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	22.0371	21.4465	22.1398
Al 308.215	2093.09	2089.33	2094.42
As 188.980	33.8581	31.9478	29.8246
B 249.678	95.7432	96.1121	95.1227
Ba 389.178	56.9059	57.1259	57.0563
Be 313.042	21.3934	21.4034	21.3558
Ca 370.602	29701	29706	29634
Cd 226.502	23.7548	23.8213	23.6910
Co 228.615	21.3035	21.2504	21.5284
Cr 267.716	42.3548	42.4602	42.1819
Cu 324.754	1232.65	1218.41	1243.55
Fe 271.441	2207.96	2199.41	2203.83
K 766.491	3444.37	3447.10	3446.36
Mg 279.078	10431.8	10420.7	10409.7
Mn 257.610	225.682	225.410	225.212
Mo 202.032	41.2336	40.4917	41.2003
Na 330.237	9172.30	8909.69	9161.32
Ni 231.604	53.2051	53.6226	52.4981
Pb 220.353	21.3459	22.8678	20.7119
Sb 206.834	16.2893	12.0921	12.2011
Se 196.026	39.6301	40.9801	37.3701
Sn 189.925	7.8416	10.1755	8.5006
Sr 216.596	144.964	144.811	144.646
Ti 334.941	38.9181	39.0147	38.9926
Tl 190.794	11.3793	14.3098	17.8797
V 292.401	42.3366	42.7746	42.7115
Zn 206.200	957.631	958.828	958.805

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	21.8744	ppb	0.3742	1.7	1592.44
Al 308.215	2092.28	ppb	2.6409	0.1	12581.9
As 188.980	31.8768	ppb	2.0177	6.3	17.9025
B 249.678	95.6594	ppb	0.5000	0.5	963.747
Ba 389.178	57.0294	ppb	0.1124	0.2	1548.23
Be 313.042	21.3842	ppb	0.0251	0.1	46022.8
Ca 370.602	29680	ppb	40.45	0.1	117435
Cd 226.502	23.7557	ppb	0.0652	0.3	956.292
Co 228.615	21.3608	ppb	0.1476	0.7	286.065
Cr 267.716	42.3323	ppb	0.1406	0.3	2018.73
Cu 324.754	1231.54	ppb	12.6062	1.0	67578.4
Fe 271.441	2203.74	ppb	4.2745	0.2	3744.30
K 766.491	3445.94	ppb	1.4137	0.0	229078
Mg 279.078	10420.7	ppb	11.0685	0.1	22764.6
Mn 257.610	225.435	ppb	0.2361	0.1	52686.4
Mo 202.032	40.9752	ppb	0.4191	1.0	332.920
Na 330.237	9081.10	ppb	148.547	1.6	480.538
Ni 231.604	53.1086	ppb	0.5684	1.1	140.334
Pb 220.353	21.6419	ppb	1.1080	5.1	39.3999
Sb 206.834	13.5275	ppb	2.3924	17.7	15.7689
Se 196.026	39.3267	ppb	1.8240	4.6	19.6240
Sn 189.925	8.8392	ppb	1.2032	13.6	9.7999
Sr 216.596	144.807	ppb	0.1591	0.1	1713.32
Ti 334.941	38.9751	ppb	0.0506	0.1	12579.2
Tl 190.794	14.5229	ppb	3.2554	22.4	11.6125
V 292.401	42.6075	ppb	0.2368	0.6	1298.14
Zn 206.200	958.421	ppb	0.6844	0.1	4305.07

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

Cont Calib Verif (CCV) 3/19/2013, 9:16:45 PM Rack 2, Tube 1
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	499.754	498.615	499.472
Al 308.215	4985.78	4991.30	5041.22
As 188.980	486.954	494.541	508.430
B 249.678	2531.89	2554.03	2574.68
Ba 389.178	4918.42	4925.71	4936.25
Be 313.042	490.271	491.735	492.179
Ca 370.602	4941	4963	4967
Cd 226.502	495.238	496.445	496.667
Co 228.615	498.730	500.460	501.349
Cr 267.716	4892.13	4902.40	4906.61
Cu 324.754	4886.69	4912.99	4894.00
Fe 271.441	5046.79	5052.83	5067.55
K 766.491	9876.73	9930.67	9932.02
Mg 279.078	4948.33	4958.06	4976.50
Mn 257.610	4980.30	4998.23	5006.20
Mo 202.032	492.760	496.710	496.972
Na 330.237	7431.72	7314.09	7211.65
Ni 231.604	2487.12	2491.66	2493.65
Pb 220.353	497.391	497.999	494.509
Sb 206.834	946.741	956.163	957.685
Se 196.026	4890.38	4940.63	4918.08
Sn 189.925	5066.37	5034.45	5106.54
Sr 216.596	2429.15	2430.87	2435.41
Ti 334.941	481.282	482.077	483.754
Tl 190.794	5019.25	5016.96	5039.07
V 292.401	4929.16	4937.41	4954.14
Zn 206.200	2502.59	2505.73	2505.12

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	499.280	ppb	0.5932	0.1	37739.1	99.85609
Al 308.215	5006.10	ppb	30.5413	0.6	29690.9	100.12200
As 188.980	496.642	ppb	10.8906	2.2	279.151	99.32832
B 249.678	2553.53	ppb	21.4008	0.8	22890.5	102.14127
Ba 389.178	4926.79	ppb	8.9653	0.2	133822	98.53585
Be 313.042	491.395	ppb	0.9982	0.2	1060226	98.27902
Ca 370.602	4957	ppb	14.14	0.3	19485	99.13578
Cd 226.502	496.117	ppb	0.7687	0.2	19701.0	99.22334
Co 228.615	500.179	ppb	1.3316	0.3	6414.47	100.03590
Cr 267.716	4900.38	ppb	7.4440	0.2	233866	98.00758
Cu 324.754	4897.90	ppb	13.5752	0.3	268207	97.95793
Fe 271.441	5055.72	ppb	10.6779	0.2	8699.33	101.11440
K 766.491	9913.14	ppb	31.5369	0.3	658500	99.13139
Mg 279.078	4960.96	ppb	14.3052	0.3	10764.6	99.21926
Mn 257.610	4994.91	ppb	13.2664	0.3	1164518	99.89815
Mo 202.032	495.481	ppb	2.3595	0.5	3856.41	99.09615
Na 330.237	7319.16	ppb	110.123	1.5	368.631	97.58875
Ni 231.604	2490.81	ppb	3.3453	0.1	6542.33	99.63245
Pb 220.353	496.633	ppb	1.8644	0.4	888.158	99.32662
Sb 206.834	953.529	ppb	5.9282	0.6	1038.71	95.35292
Se 196.026	4916.36	ppb	25.1707	0.5	2554.95	98.32726
Sn 189.925	5069.12	ppb	36.1230	0.7	5135.83	101.38235
Sr 216.596	2431.81	ppb	3.2322	0.1	28547.0	97.27243
Ti 334.941	482.371	ppb	1.2621	0.3	155399	96.47421
Tl 190.794	5025.09	ppb	12.1603	0.2	3997.91	100.50186
V 292.401	4940.24	ppb	12.7298	0.3	150996	98.80475
Zn 206.200	2504.48	ppb	1.6678	0.1	3137.41	100.17927

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

Cont Calib Blank (CCB) 3/19/2013, 9:22:10 PM Rack 2, Tube 2
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2584	-0.5123u	0.0274
Al 308.215	1.8610	2.2490	0.6974
As 188.980	-4.3130u	2.4653	0.7473
B 249.678	15.8272	12.8711	11.7207
Ba 389.178	0.4862	1.0297	0.3985
Be 313.042	-0.0005u	-0.0183u	0.0111
Ca 370.602	1.920	-0.5183u	5.503
Cd 226.502	0.1284	-0.1253u	-0.0064u
Co 228.615	-0.2208u	-0.1045u	0.6863
Cr 267.716	0.4666	0.5925	0.8400
Cu 324.754	-0.3842u	-0.0708u	-0.0298u
Fe 271.441	-2.2767u	-5.4901u	2.3140
K 766.491	0.0421	-0.3302u	1.0148
Mg 279.078	6.0276	4.3280	3.8656
Mn 257.610	0.4714	0.4463	0.8055
Mo 202.032	0.4995	-0.2163u	-0.1702u
Na 330.237	-78.7236u	31.6676	-62.7414u
Ni 231.604	0.7349	1.5005	0.3236
Pb 220.353	-1.4630u	-1.9025u	-1.1293u
Sb 206.834	0.9532	-1.6258u	-4.6414u
Se 196.026	0.6924	-2.3093u	7.9545
Sn 189.925	0.8935	1.8879	-2.0200u
Sr 216.596	-0.2785u	0.1015	0.6511
Ti 334.941	0.0234	0.0154	0.0676
Tl 190.794	2.9172	0.1979	3.4709
V 292.401	0.5886	0.4210	0.8560
Zn 206.200	3.2075	1.1636	1.8810

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0755	ppb	0.3955	523.9	-66.3155	-0.07549
Al 308.215	1.6025	ppb	0.8075	50.4	281.259	1.60246
As 188.980	-0.3668	ppb	3.5238	960.6	-0.4412	-0.36682
B 249.678	13.4730	ppb	2.1184	15.7	232.436	13.47299
Ba 389.178	0.6381	ppb	0.3419	53.6	-19.3870	0.63813
Be 313.042	-0.0026	ppb	0.0148	578.8	-140.896	-0.00255
Ca 370.602	2.302	ppb	3.029	131.6	22.56	2.30157
Cd 226.502	-0.0011	ppb	0.1269	11688.2	8.1250	-0.00109
Co 228.615	0.1203	ppb	0.4936	410.2	14.9588	0.12034
Cr 267.716	0.6330	ppb	0.1900	30.0	27.3138	0.63301
Cu 324.754	-0.1616	ppb	0.1939	120.0	163.464	-0.16159
Fe 271.441	-1.8176	ppb	3.9222	215.8	0.4770	-1.81758
K 766.491	0.2422	ppb	0.6945	286.7	283.742	0.24221
Mg 279.078	4.7404	ppb	1.1385	24.0	26.7012	4.74039
Mn 257.610	0.5744	ppb	0.2005	34.9	189.548	0.57439
Mo 202.032	0.0377	ppb	0.4006	1063.5	14.8537	0.03767
Na 330.237	-36.5991	ppb	59.6584	163.0	-4.1551	-36.59913
Ni 231.604	0.8530	ppb	0.5972	70.0	3.0518	0.85301
Pb 220.353	-1.4983	ppb	0.3878	25.9	-1.8726	-1.49825
Sb 206.834	-1.7713	ppb	2.8002	158.1	-0.1736	-1.77135
Se 196.026	2.1125	ppb	5.2772	249.8	0.2157	2.11253
Sn 189.925	0.2538	ppb	2.0310	800.2	1.0840	0.25381
Sr 216.596	0.1580	ppb	0.4674	295.7	10.3837	0.15804
Ti 334.941	0.0355	ppb	0.0281	79.2	-19.5707	0.03549
Tl 190.794	2.1953	ppb	1.7518	79.8	2.1374	2.19533
V 292.401	0.6219	ppb	0.2194	35.3	22.2856	0.62189
Zn 206.200	2.0840	ppb	1.0359	49.8	2.4713	2.08403

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mb 680-269757/1-a (Samp) **3/19/2013, 9:27:34 PM** **Rack 2, Tube 3**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0011u	1.0984	0.0648
Al 308.215	0.0854	1.0594	2.9798
As 188.980	-7.0863u	-6.1608u	-2.4516u
B 249.678	-0.7788u	0.5243	-1.6242u
Ba 389.178	0.4152	-0.8545u	-0.0845u
Be 313.042	-0.0602u	-0.0507u	-0.0614u
Ca 370.602	2.968	-2.386u	2.126
Cd 226.502	0.1097	0.0796	0.0574
Co 228.615	0.0475	-0.1416u	0.3462
Cr 267.716	0.4061	0.0207	0.0917
Cu 324.754	0.2155	-0.4753u	-0.6663u
Fe 271.441	-1.8192u	-2.6194u	-0.4629u
K 766.491	0.4152	-0.2012u	0.1346
Mg 279.078	8.0819	4.6347	2.6458
Mn 257.610	0.0531	0.0091	-0.0335u
Mo 202.032	-0.3219u	-0.9344u	-0.4687u
Na 330.237	96.8988	0.3652	-61.1984u
Ni 231.604	-0.1265u	-1.0512u	-0.5276u
Pb 220.353	-0.2731u	1.6096	-0.6173u
Sb 206.834	1.7898	1.8000	3.6266
Se 196.026	-1.2185u	7.1302	-2.9206u
Sn 189.925	-2.9370u	0.1368	-4.5322u
Sr 216.596	-0.0514u	0.0638	-0.2286u
Ti 334.941	-0.0724u	-0.0637u	-0.0980u
Tl 190.794	5.5799	-0.5426u	0.3119
V 292.401	-0.0659u	0.1463	0.3030
Zn 206.200	-0.0988u	0.8455	-0.3515u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3874	ppb	0.6167	159.2	-31.2304
Al 308.215	1.3749	ppb	1.4727	107.1	279.837
As 188.980	-5.2329	ppb	2.4527	46.9	-3.1797
B 249.678	-0.6262	ppb	1.0824	172.8	106.639
Ba 389.178	-0.1746	ppb	0.6396	366.3	-41.4628
Be 313.042	-0.0574	ppb	0.0058	10.2	-259.210
Ca 370.602	0.9029	ppb	2.879	318.9	16.75
Cd 226.502	0.0823	ppb	0.0263	31.9	11.4366
Co 228.615	0.0840	ppb	0.2459	292.7	14.5171
Cr 267.716	0.1728	ppb	0.2051	118.7	5.3490
Cu 324.754	-0.3087	ppb	0.4640	150.3	155.397
Fe 271.441	-1.6338	ppb	1.0902	66.7	0.6943
K 766.491	0.1162	ppb	0.3086	265.5	275.376
Mg 279.078	5.1208	ppb	2.7504	53.7	27.5417
Mn 257.610	0.0095	ppb	0.0433	454.0	57.8772
Mo 202.032	-0.5750	ppb	0.3198	55.6	10.0912
Na 330.237	12.0219	ppb	79.6906	662.9	-1.5141
Ni 231.604	-0.5685	ppb	0.4637	81.6	-0.6813
Pb 220.353	0.2398	ppb	1.1988	500.0	1.2342
Sb 206.834	2.4055	ppb	1.0575	44.0	4.1626
Se 196.026	0.9970	ppb	5.3792	539.5	-0.3641
Sn 189.925	-2.4441	ppb	2.3732	97.1	-1.6491
Sr 216.596	-0.0721	ppb	0.1473	204.3	7.7269
Ti 334.941	-0.0781	ppb	0.0178	22.9	-56.1466
Tl 190.794	1.7831	ppb	3.3158	186.0	1.8095
V 292.401	0.1278	ppb	0.1851	144.9	7.3156
Zn 206.200	0.1317	ppb	0.6309	478.8	0.0171

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ics 680-269757/2-a (Samp) 3/19/2013, 9:32:59 PM Rack 2, Tube 4
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	46.6148	47.5399	47.1231
Al 308.215	4533.10	4524.12	4543.12
As 188.980	85.7703	82.8298	83.6753
B 249.678	187.698	188.443	190.924
Ba 389.178	93.7461	92.4341	94.0314
Be 313.042	47.1615	46.9256	47.2674
Ca 370.602	4577	4544	4575
Cd 226.502	47.8548	47.2679	47.6457
Co 228.615	47.4776	47.2980	47.2494
Cr 267.716	93.9755	93.4830	94.2327
Cu 324.754	93.9496	93.0833	94.7695
Fe 271.441	4685.23	4691.90	4706.58
K 766.491	4792.27	4765.22	4772.97
Mg 279.078	4668.46	4661.85	4679.42
Mn 257.610	488.501	487.156	489.999
Mo 202.032	91.1933	91.5433	91.8436
Na 330.237	4265.97	4006.34	4144.46
Ni 231.604	93.5107	93.0058	92.9989
Pb 220.353	45.0094	48.3242	47.8248
Sb 206.834	35.0898	30.5623	33.1250
Se 196.026	90.9016	87.0075	97.3580
Sn 189.925	39.3983	36.7864	36.1261
Sr 216.596	93.4218	92.2647	93.4230
Ti 334.941	87.7804	87.3043	88.0170
Tl 190.794	35.2121	39.3339	36.1175
V 292.401	95.5723	94.9707	94.8300
Zn 206.200	96.3057	97.0662	94.9080

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	47.0926	ppb	0.4633	1.0	3508.66
Al 308.215	4533.45	ppb	9.5043	0.2	26945.0
As 188.980	84.0918	ppb	1.5139	1.8	47.0624
B 249.678	189.022	ppb	1.6894	0.9	1794.53
Ba 389.178	93.4039	ppb	0.8519	0.9	2523.16
Be 313.042	47.1182	ppb	0.1750	0.4	101548
Ca 370.602	4566	ppb	18.28	0.4	17671
Cd 226.502	47.5895	ppb	0.2975	0.6	1908.06
Co 228.615	47.3417	ppb	0.1202	0.3	617.680
Cr 267.716	93.8970	ppb	0.3809	0.4	4480.97
Cu 324.754	93.9342	ppb	0.8432	0.9	5316.78
Fe 271.441	4694.57	ppb	10.9212	0.2	7972.70
K 766.491	4776.82	ppb	13.9306	0.3	317449
Mg 279.078	4669.91	ppb	8.8710	0.2	10203.8
Mn 257.610	488.552	ppb	1.4222	0.3	113992
Mo 202.032	91.5267	ppb	0.3255	0.4	725.694
Na 330.237	4138.92	ppb	129.906	3.1	218.778
Ni 231.604	93.1718	ppb	0.2935	0.3	245.600
Pb 220.353	47.0528	ppb	1.7872	3.8	84.7104
Sb 206.834	32.9257	ppb	2.2703	6.9	35.9743
Se 196.026	91.7557	ppb	5.2278	5.7	46.9491
Sn 189.925	37.4369	ppb	1.7304	4.6	38.7544
Sr 216.596	93.0365	ppb	0.6684	0.7	1100.01
Ti 334.941	87.7005	ppb	0.3630	0.4	28248.0
Tl 190.794	36.8878	ppb	2.1662	5.9	29.0283
V 292.401	95.1243	ppb	0.3942	0.4	2893.98
Zn 206.200	96.0933	ppb	1.0947	1.1	430.467

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ics 680-269757/3-a (Samp) 3/19/2013, 9:38:24 PM Rack 2, Tube 5
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	182.360	183.761	181.718
Al 308.215	1719.49	1722.11	1715.15
As 188.980	196.234	203.902	196.607
B 249.678	354.066	353.004	356.637
Ba 389.178	174.300	175.168	174.707
Be 313.042	179.499	179.551	178.863
Ca 370.602	17429	17447	17342
Cd 226.502	178.384	178.428	177.485
Co 228.615	177.969	178.222	178.405
Cr 267.716	176.857	176.196	175.481
Cu 324.754	176.186	177.534	176.671
Fe 271.441	18511.1	18510.2	18464.8
K 766.491	17676.7	17680.9	17718.0
Mg 279.078	17808.4	17795.5	17728.9
Mn 257.610	1825.96	1825.00	1819.09
Mo 202.032	175.682	176.123	174.838
Na 330.237	15642.0	15518.0	15492.8
Ni 231.604	176.274	177.891	177.309
Pb 220.353	179.293	175.938	174.243
Sb 206.834	167.316	169.303	174.969
Se 196.026	183.834	181.017	173.995
Sn 189.925	181.431	178.692	176.649
Sr 216.596	185.520	186.555	186.046
Ti 334.941	176.745	176.658	175.714
Tl 190.794	41.8987	42.8332	39.6109
V 292.401	177.563	178.626	177.632
Zn 206.200	168.159	168.696	167.611

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	182.613	ppb	1.0448	0.6	13786.6
Al 308.215	1718.91	ppb	3.5160	0.2	10401.9
As 188.980	198.914	ppb	4.3232	2.2	111.636
B 249.678	354.569	ppb	1.8677	0.5	3259.32
Ba 389.178	174.725	ppb	0.4344	0.2	4795.66
Be 313.042	179.304	ppb	0.3833	0.2	386849
Ca 370.602	17406	ppb	56.48	0.3	67234
Cd 226.502	178.099	ppb	0.5323	0.3	7120.72
Co 228.615	178.199	ppb	0.2189	0.1	2289.07
Cr 267.716	176.178	ppb	0.6879	0.4	8415.56
Cu 324.754	176.797	ppb	0.6827	0.4	9858.14
Fe 271.441	18495.4	ppb	26.4539	0.1	31396.8
K 766.491	17691.9	ppb	22.7144	0.1	1175006
Mg 279.078	17777.6	ppb	42.6786	0.2	38804.0
Mn 257.610	1823.35	ppb	3.7209	0.2	425288
Mo 202.032	175.547	ppb	0.6530	0.4	1378.01
Na 330.237	15550.9	ppb	79.8407	0.5	830.460
Ni 231.604	177.158	ppb	0.8192	0.5	466.450
Pb 220.353	176.491	ppb	2.5698	1.5	316.157
Sb 206.834	170.529	ppb	3.9712	2.3	179.770
Se 196.026	179.615	ppb	5.0670	2.8	93.0316
Sn 189.925	178.924	ppb	2.3993	1.3	182.092
Sr 216.596	186.040	ppb	0.5175	0.3	2196.57
Ti 334.941	176.372	ppb	0.5720	0.3	56883.7
Tl 190.794	41.4476	ppb	1.6578	4.0	30.5987
V 292.401	177.940	ppb	0.5952	0.3	5410.12
Zn 206.200	168.156	ppb	0.5424	0.3	410.890

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680-88234-a-1-a (Samp) 3/19/2013, 9:43:49 PM Rack 2, Tube 6
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2844	0.3129	-0.3604u
Al 308.215	11.6535	10.4610	9.2964
As 188.980	5.3710	-0.5924u	5.9296
B 249.678	15.1112	16.0378	15.2745
Ba 389.178	39.6765	39.5628	40.0151
Be 313.042	0.0323	0.0321	0.0218
Ca 370.602	6245	6234	6226
Cd 226.502	-0.0789	-0.1980	-0.1659
Co 228.615	5.7878	5.4278	5.0758
Cr 267.716	0.1015	0.0189	0.1612
Cu 324.754	2.0627	2.0272	1.9399
Fe 271.441	13641.6	13627.4	13557.4
K 766.491	1272.61	1273.06	1272.19
Mg 279.078	4384.20	4369.52	4352.71
Mn 257.610	202.213	201.774	201.141
Mo 202.032	-0.7555u	-0.7464u	-0.1549u
Na 330.237	10069.0	10027.0	9806.51
Ni 231.604	2.4463	1.8430	1.6800
Pb 220.353	3.7364	-0.7012u	1.6366
Sb 206.834	-5.6008u	3.0775	3.0733
Se 196.026	5.6169	-4.7254u	1.1542
Sn 189.925	-1.3970u	-2.1738u	0.2694
Sr 216.596	45.8726	46.1008	44.9557
Ti 334.941	-0.1005u	-0.1460u	-0.2289u
Tl 190.794	-2.4280u	-2.6485u	-4.4928u
V 292.401	0.4578	0.1442	0.1307
Zn 206.200	13.7533	13.6039	12.1811

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0790	ppb	0.3808	482.2	-55.9283
Al 308.215	10.4703	ppb	1.1786	11.3	333.288
As 188.980	3.5694	ppb	3.6151	101.3	1.6966
B 249.678	15.4745	ppb	0.4946	3.2	238.218
Ba 389.178	39.7515	ppb	0.2353	0.6	1078.92
Be 313.042	0.0287	ppb	0.0060	20.9	-72.6543
Ca 370.602	6235	ppb	9.797	0.2	23356
Cd 226.502	-0.1476	ppb	0.0616	41.8	37.4023
Co 228.615	5.4305	ppb	0.3560	6.6	82.3378
Cr 267.716	0.0939	ppb	0.0714	76.1	5.8118
Cu 324.754	2.0099	ppb	0.0632	3.1	286.692
Fe 271.441	13608.8	ppb	45.1068	0.3	23081.9
K 766.491	1272.62	ppb	0.4336	0.0	84769.6
Mg 279.078	4368.81	ppb	15.7542	0.4	9554.24
Mn 257.610	201.709	ppb	0.5387	0.3	47145.3
Mo 202.032	-0.5523	ppb	0.3441	62.3	9.5385
Na 330.237	9967.50	ppb	140.990	1.4	532.638
Ni 231.604	1.9898	ppb	0.4037	20.3	6.3188
Pb 220.353	1.5573	ppb	2.2199	142.5	3.6337
Sb 206.834	0.1834	ppb	5.0092	2732.0	2.1827
Se 196.026	0.6819	ppb	5.1873	760.7	-0.3919
Sn 189.925	-1.1005	ppb	1.2483	113.4	-0.2808
Sr 216.596	45.6431	ppb	0.6061	1.3	552.119
Ti 334.941	-0.1584	ppb	0.0651	41.1	-58.5031
Tl 190.794	-3.1898	ppb	1.1338	35.5	-2.9382
V 292.401	0.2442	ppb	0.1851	75.8	10.9198
Zn 206.200	13.1794	ppb	0.8678	6.6	154261

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680-88234-a-1-aSD^5 (Samp) 3/19/2013, 9:49:13 PM Rack 2, Tube 7
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5928	-0.3899u	0.3567
Al 308.215	2.0795	3.5292	1.4225
As 188.980	-0.0329u	-9.8255u	4.7521
B 249.678	-2.1354u	-2.6429u	-2.2514u
Ba 389.178	9.1498	7.4729	7.9159
Be 313.042	-0.0499u	-0.0434u	-0.0440u
Ca 370.602	1255	1240	1243
Cd 226.502	0.0094	-0.1658	0.0199
Co 228.615	1.4757	1.2370	1.1312
Cr 267.716	-0.0079	0.1579	0.0164
Cu 324.754	0.4821	0.3518	-0.0711u
Fe 271.441	2735.41	2723.69	2723.79
K 766.491	265.949	263.299	264.239
Mg 279.078	885.838	880.839	883.878
Mn 257.610	40.9997	40.6986	40.7351
Mo 202.032	-0.9252u	-0.1691u	-0.9435u
Na 330.237	1916.35	1811.96	1921.10
Ni 231.604	0.0844	1.3953	0.9433
Pb 220.353	2.1922	0.0551	1.9619
Sb 206.834	-3.8224u	0.8169	-4.9470u
Se 196.026	5.7618	4.3259	1.8409
Sn 189.925	-1.7946u	-0.8678u	0.1000
Sr 216.596	9.4554	8.6217	9.1721
Ti 334.941	-0.2393u	-0.2267u	-0.1805u
Tl 190.794	1.3681	2.2090	3.8116
V 292.401	-0.5593u	-0.2653u	-0.1690u
Zn 206.200	0.8368	3.4362	2.0138

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1865	ppb	0.5130	275.0	-46.7149
Al 308.215	2.3437	ppb	1.0779	46.0	285.560
As 188.980	-1.7021	ppb	7.4308	436.6	-1.2082
B 249.678	-2.3432	ppb	0.2660	11.4	88.9004
Ba 389.178	8.1795	ppb	0.8689	10.6	192.660
Be 313.042	-0.0458	ppb	0.0036	7.9	-233.958
Ca 370.602	1246	ppb	7.921	0.6	4677
Cd 226.502	-0.0455	ppb	0.1043	229.3	13.3999
Co 228.615	1.2813	ppb	0.1764	13.8	29.7048
Cr 267.716	0.0555	ppb	0.0896	161.5	0.6011
Cu 324.754	0.2543	ppb	0.2892	113.7	187.101
Fe 271.441	2727.63	ppb	6.7389	0.2	4629.13
K 766.491	264.496	ppb	1.3439	0.5	17830.2
Mg 279.078	883.518	ppb	2.5192	0.3	1945.23
Mn 257.610	40.8111	ppb	0.1643	0.4	9583.05
Mo 202.032	-0.6793	ppb	0.4419	65.1	9.1355
Na 330.237	1883.13	ppb	61.6868	3.3	98.8308
Ni 231.604	0.8077	ppb	0.6659	82.4	2.9892
Pb 220.353	1.4031	ppb	1.1730	83.6	3.3220
Sb 206.834	-2.6509	ppb	3.0553	115.3	-1.0194
Se 196.026	3.9762	ppb	1.9837	49.9	1.2112
Sn 189.925	-0.8542	ppb	0.9474	110.9	-0.0370
Sr 216.596	9.0831	ppb	0.4239	4.7	116.732
Ti 334.941	-0.2155	ppb	0.0310	14.4	-95.6746
Tl 190.794	2.4629	ppb	1.2414	50.4	2.1923
V 292.401	-0.3312	ppb	0.2033	61.4	-6.7781
Zn 206.200	2.0956	ppb	1.3016	62.1	2.4872

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680-88234-a-1-aPDS (Samp) **3/19/2013, 9:54:38 PM** **Rack 2, Tube 8**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	58.0839	58.6434	59.0772
Al 308.215	2262.16	2269.83	2270.58
As 188.980	2659.33	2671.13	2662.73
B 249.678	1215.01	1230.10	1234.48
Ba 389.178	2423.87	2434.28	2426.37
Be 313.042	58.9312	59.0222	58.9532
Ca 370.602	12960	13016	13005
Cd 226.502	59.4460	59.4234	59.4001
Co 228.615	603.980	600.566	602.665
Cr 267.716	234.132	235.019	234.550
Cu 324.754	296.578	296.323	298.619
Fe 271.441	16932.7	17007.5	16967.7
K 766.491	7662.07	7679.20	7673.93
Mg 279.078	11026.1	11058.7	11037.9
Mn 257.610	839.926	842.124	841.235
Mo 202.032	594.013	595.745	594.677
Na 330.237	17547.4	17553.5	17598.8
Ni 231.604	591.887	590.385	588.140
Pb 220.353	583.223	587.207	590.915
Sb 206.834	582.263	587.888	575.287
Se 196.026	2333.62	2333.96	2327.50
Sn 189.925	1196.09	1212.27	1210.08
Sr 216.596	642.506	645.853	642.929
Ti 334.941	1166.18	1172.48	1170.64
Tl 190.794	2413.96	2407.08	2419.31
V 292.401	592.369	592.982	594.278
Zn 206.200	601.309	602.385	606.597

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	58.6015	ppb	0.4980	0.8	4360.36
Al 308.215	2267.52	ppb	4.6595	0.2	13677.7
As 188.980	2664.40	ppb	6.0740	0.2	1499.11
B 249.678	1226.53	ppb	10.2143	0.8	11040.3
Ba 389.178	2428.17	ppb	5.4336	0.2	65983.4
Be 313.042	58.9689	ppb	0.0475	0.1	127016
Ca 370.602	12993	ppb	29.87	0.2	50098
Cd 226.502	59.4232	ppb	0.0229	0.0	2409.23
Co 228.615	602.404	ppb	1.7222	0.3	7722.81
Cr 267.716	234.567	ppb	0.4434	0.2	11197.0
Cu 324.754	297.173	ppb	1.2587	0.4	16454.2
Fe 271.441	16969.3	ppb	37.4300	0.2	28877.8
K 766.491	7671.73	ppb	8.7743	0.1	509670
Mg 279.078	11040.9	ppb	16.5221	0.1	24111.2
Mn 257.610	841.095	ppb	1.1059	0.1	196254
Mo 202.032	594.812	ppb	0.8737	0.1	4636.82
Na 330.237	17566.6	ppb	28.0686	0.2	928.379
Ni 231.604	590.137	ppb	1.8857	0.3	1550.99
Pb 220.353	587.115	ppb	3.8467	0.7	1048.35
Sb 206.834	581.812	ppb	6.3125	1.1	600.136
Se 196.026	2331.70	ppb	3.6353	0.2	1210.97
Sn 189.925	1206.15	ppb	8.7777	0.7	1222.67
Sr 216.596	643.762	ppb	1.8226	0.3	7554.55
Ti 334.941	1169.77	ppb	3.2409	0.3	376889
Tl 190.794	2413.45	ppb	6.1319	0.3	1920.86
V 292.401	593.209	ppb	0.9749	0.2	18060.9
Zn 206.200	603.430	ppb	2.7947	0.5	758.154

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88234-a-1-b ms (Samp) **3/19/2013, 10:00:04 PM** **Rack 2, Tube 9**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	49.3288	50.0526	50.1259
Al 308.215	4722.27	4716.15	4703.92
As 188.980	104.762	107.307	101.234
B 249.678	221.927	220.923	220.535
Ba 389.178	145.117	143.991	144.610
Be 313.042	48.9722	48.9376	48.8745
Ca 370.602	12313	12313	12318
Cd 226.502	49.0764	48.9983	48.7380
Co 228.615	56.2754	55.1475	55.8546
Cr 267.716	96.9689	96.8937	97.3757
Cu 324.754	98.7616	100.356	99.5308
Fe 271.441	21529.0	21476.4	21433.5
K 766.491	6602.30	6563.20	6538.15
Mg 279.078	10238.7	10239.5	10208.4
Mn 257.610	752.556	752.140	751.136
Mo 202.032	95.5878	96.0633	96.0386
Na 330.237	16780.2	16252.7	16560.9
Ni 231.604	99.0035	100.063	100.056
Pb 220.353	49.6192	51.5250	48.8184
Sb 206.834	45.1352	41.0424	43.3846
Se 196.026	96.9450	96.8435	100.052
Sn 189.925	76.6990	77.9821	80.4073
Sr 216.596	152.074	152.956	152.608
Ti 334.941	94.5814	94.6180	94.6498
Tl 190.794	40.1014	43.5000	47.7463
V 292.401	99.5835	98.8806	98.2363
Zn 206.200	115.955	113.714	112.180

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.8358	ppb	0.4406	0.9	3714.95
Al 308.215	4714.11	ppb	9.3436	0.2	28008.1
As 188.980	104.435	ppb	3.0496	2.9	58.4155
B 249.678	221.129	ppb	0.7185	0.3	2066.12
Ba 389.178	144.573	ppb	0.5636	0.4	3957.82
Be 313.042	48.9281	ppb	0.0495	0.1	105454
Ca 370.602	12315	ppb	2.706	0.0	46700
Cd 226.502	48.9376	ppb	0.1772	0.4	2004.75
Co 228.615	55.7592	ppb	0.5700	1.0	724.636
Cr 267.716	97.0794	ppb	0.2593	0.3	4638.11
Cu 324.754	99.5495	ppb	0.7974	0.8	5629.63
Fe 271.441	21479.6	ppb	47.8557	0.2	36437.8
K 766.491	6567.89	ppb	32.3296	0.5	436375
Mg 279.078	10228.9	ppb	17.7171	0.2	22339.8
Mn 257.610	751.944	ppb	0.7299	0.1	175478
Mo 202.032	95.8966	ppb	0.2677	0.3	758.761
Na 330.237	16531.3	ppb	264.984	1.6	883.662
Ni 231.604	99.7075	ppb	0.6097	0.6	263.111
Pb 220.353	49.9875	ppb	1.3904	2.8	89.9990
Sb 206.834	43.1874	ppb	2.0535	4.8	47.0052
Se 196.026	97.9470	ppb	1.8240	1.9	50.3373
Sn 189.925	78.3628	ppb	1.8832	2.4	80.2210
Sr 216.596	152.546	ppb	0.4446	0.3	1807.96
Ti 334.941	94.6164	ppb	0.0342	0.0	30506.0
Tl 190.794	43.7825	ppb	3.8302	8.7	33.5315
V 292.401	98.9001	ppb	0.6738	0.7	3008.61
Zn 206.200	113.950	ppb	1.8984	1.7	142.915

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88234-a-1-c msd (Samp) 3/19/2013, 10:05:30 PM Rack 2, Tube 10**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	46.4664	46.1405	44.6758
Al 308.215	4272.90	4294.66	4276.06
As 188.980	95.7324	99.6571	101.526
B 249.678	195.035	196.465	196.126
Ba 389.178	131.647	132.422	131.615
Be 313.042	44.3876	44.5622	44.3386
Ca 370.602	11304	11322	11266
Cd 226.502	44.4514	44.4253	44.4826
Co 228.615	50.3892	50.9816	51.1929
Cr 267.716	88.2634	88.7801	88.4053
Cu 324.754	91.7617	90.2469	90.6842
Fe 271.441	19656.4	19756.4	19692.5
K 766.491	6015.71	6042.05	5982.09
Mg 279.078	9352.64	9375.45	9347.72
Mn 257.610	685.301	687.794	686.205
Mo 202.032	86.6341	87.1053	87.1718
Na 330.237	15264.7	14918.2	15162.6
Ni 231.604	88.8809	90.1301	89.2880
Pb 220.353	45.8987	43.7201	43.9161
Sb 206.834	38.7327	44.4034	43.3196
Se 196.026	86.4307	80.9367	94.6382
Sn 189.925	72.8890	79.5680	74.8508
Sr 216.596	138.744	139.553	138.928
Ti 334.941	86.0514	86.0782	85.5623
Tl 190.794	38.4213	39.6308	30.3804
V 292.401	90.0870	90.6235	89.8160
Zn 206.200	102.789	103.067	103.357

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	45.7609	ppb	0.9538	2.1	3406.26
Al 308.215	4281.21	ppb	11.7590	0.3	25461.0
As 188.980	98.9717	ppb	2.9568	3.0	55.3513
B 249.678	195.875	ppb	0.7475	0.4	1842.38
Ba 389.178	131.895	ppb	0.4570	0.3	3607.81
Be 313.042	44.4295	ppb	0.1175	0.3	95746.0
Ca 370.602	11297	ppb	28.96	0.3	42842
Cd 226.502	44.4531	ppb	0.0287	0.1	1822.31
Co 228.615	50.8546	ppb	0.4167	0.8	662.075
Cr 267.716	88.4829	ppb	0.2670	0.3	4227.18
Cu 324.754	90.8976	ppb	0.7796	0.9	5155.35
Fe 271.441	19701.8	ppb	50.6475	0.3	33422.1
K 766.491	6013.29	ppb	30.0557	0.5	399550
Mg 279.078	9358.60	ppb	14.7942	0.2	20440.5
Mn 257.610	686.433	ppb	1.2621	0.2	160195
Mo 202.032	86.9704	ppb	0.2931	0.3	689.477
Na 330.237	15115.1	ppb	178.032	1.2	807.765
Ni 231.604	89.4330	ppb	0.6371	0.7	236.091
Pb 220.353	44.5116	ppb	1.2052	2.7	80.2270
Sb 206.834	42.1519	ppb	3.0103	7.1	45.8894
Se 196.026	87.3352	ppb	6.8954	7.9	44.7957
Sn 189.925	75.7693	ppb	3.4329	4.5	77.5927
Sr 216.596	139.075	ppb	0.4240	0.3	1649.16
Ti 334.941	85.8973	ppb	0.2904	0.3	27692.4
Tl 190.794	36.1442	ppb	5.0280	13.9	27.5946
V 292.401	90.1755	ppb	0.4110	0.5	2743.58
Zn 206.200	103.071	ppb	0.2842	0.3	430.255

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680-88234-a-2-a (Samp) 3/19/2013, 10:10:56 PM Rack 2, Tube 11
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1499u	-0.1988u	0.6825
Al 308.215	5.3709	4.6290	1.2416
As 188.980	0.6672	-3.9180u	-2.1642u
B 249.678	8.3863	6.7242	6.7239
Ba 389.178	7.3939	6.9727	7.5231
Be 313.042	-0.0582u	-0.0465u	-0.0491u
Ca 370.602	11060	11067	11037
Cd 226.502	-0.1074	-0.1945	-0.1364
Co 228.615	0.3148	0.8856	0.0021u
Cr 267.716	0.3198	0.2351	0.3073
Cu 324.754	-0.0358	0.0916	-0.6711u
Fe 271.441	9314.79	9298.26	9276.30
K 766.491	767.803	771.332	769.578
Mg 279.078	2990.65	3021.29	3006.99
Mn 257.610	325.339	326.001	324.874
Mo 202.032	-0.0863u	0.1983	-0.6095u
Na 330.237	12597.2	12749.9	12718.1
Ni 231.604	-0.7212u	0.7985	-0.2942u
Pb 220.353	4.2062	0.5086	-0.5937u
Sb 206.834	1.6234	-2.1585u	0.4444
Se 196.026	5.7026	-3.5084u	-5.0174u
Sn 189.925	-1.9899u	0.2097	-2.1547u
Sr 216.596	49.2525	48.4582	49.1467
Ti 334.941	-0.0583u	-0.0771u	-0.0217
Tl 190.794	-1.1646u	0.7423u	-3.0393u
V 292.401	-0.1824u	0.0453	-0.0069u
Zn 206.200	1.3895	3.3544	1.7615

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1113	ppb	0.4953	445.1	-53.0273
Al 308.215	3.7471	ppb	2.2014	58.7	293.861
As 188.980	-1.8050	ppb	2.3136	128.2	-1.2516
B 249.678	7.2781	ppb	0.9597	13.2	168.915
Ba 389.178	7.2965	ppb	0.2878	3.9	186.070
Be 313.042	-0.0513	ppb	0.0061	11.9	-243.721
Ca 370.602	11055	ppb	15.86	0.1	42897
Cd 226.502	-0.1461	ppb	0.0444	30.4	26.3094
Co 228.615	0.4008	ppb	0.4480	111.8	18.1993
Cr 267.716	0.2874	ppb	0.0457	15.9	14.6206
Cu 324.754	-0.2051	ppb	0.4086	199.2	164.090
Fe 271.441	9296.45	ppb	19.3076	0.2	15768.4
K 766.491	769.571	ppb	1.7648	0.2	51367.2
Mg 279.078	3006.31	ppb	15.3315	0.5	6576.56
Mn 257.610	325.405	ppb	0.5665	0.2	75960.2
Mo 202.032	-0.1658	ppb	0.4098	247.1	12.7747
Na 330.237	12688.4	ppb	80.5720	0.6	681.261
Ni 231.604	-0.0723	ppb	0.7837	1084.2	0.8142
Pb 220.353	1.3737	ppb	2.5142	183.0	3.3350
Sb 206.834	-0.0302	ppb	1.9351	6408.6	1.8504
Se 196.026	-0.9411	ppb	5.8028	616.6	-1.2296
Sn 189.925	-1.3117	ppb	1.3201	100.6	-0.4910
Sr 216.596	48.9525	ppb	0.4313	0.9	589.675
Ti 334.941	-0.0524	ppb	0.0281	53.8	-32.2087
Tl 190.794	-1.1539	ppb	1.8908	163.9	-1.2877
V 292.401	-0.0480	ppb	0.1193	248.5	1.7346
Zn 206.200	2.1685	ppb	1.0437	48.1	2.5781

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88234-a-3-a (Samp) 3/19/2013, 10:16:22 PM Rack 2, Tube 12

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1541	0.3689	0.2111
Al 308.215	10.8532	12.3064	11.1229
As 188.980	1.8930	-4.6150u	-2.2659u
B 249.678	4.4050	2.8321	4.0513
Ba 389.178	6.3062	6.2307	7.5637
Be 313.042	-0.0387u	-0.0335u	-0.0312u
Ca 370.602	9799	9836	9863
Cd 226.502	-0.0324	-0.1790	0.0207
Co 228.615	1.2358	0.6525	1.2173
Cr 267.716	0.0616	0.1536	0.2750
Cu 324.754	-0.5134u	0.2783	-0.1274u
Fe 271.441	8551.76	8562.38	8588.51
K 766.491	801.461	803.446	809.609
Mg 279.078	2900.75	2892.44	2907.93
Mn 257.610	367.853	368.655	369.622
Mo 202.032	-1.0191u	-0.7683u	-0.1806u
Na 330.237	10949.3	10717.0	10829.3
Ni 231.604	1.9728	2.5004	1.9236
Pb 220.353	1.7266	0.1243	-0.5750u
Sb 206.834	-2.0703u	-3.2510u	-0.0570
Se 196.026	1.0522	-4.4825u	14.2729
Sn 189.925	-2.1913u	-4.2329u	-3.2291u
Sr 216.596	51.7352	50.8298	52.2256
Ti 334.941	0.1074	0.0252	0.0881
Tl 190.794	-1.3487u	0.7147u	-2.0495u
V 292.401	0.3480	0.0886	0.3699
Zn 206.200	112.008	113.984	113.369

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2447	ppb	0.1113	45.5	-42.8374
Al 308.215	11.4275	ppb	0.7730	6.8	338.951
As 188.980	-1.6627	ppb	3.2957	198.2	-1.1739
B 249.678	3.7628	ppb	0.8252	21.9	138.197
Ba 389.178	6.7002	ppb	0.7488	11.2	168.338
Be 313.042	-0.0345	ppb	0.0039	11.2	-207.673
Ca 370.602	9833	ppb	32.27	0.3	38130
Cd 226.502	-0.0636	ppb	0.1035	162.8	27.7172
Co 228.615	1.0352	ppb	0.3315	32.0	26.3575
Cr 267.716	0.1634	ppb	0.1070	65.5	8.6794
Cu 324.754	-0.1208	ppb	0.3959	327.6	168.448
Fe 271.441	8567.55	ppb	18.9136	0.2	14532.4
K 766.491	804.839	ppb	4.2488	0.5	53708.9
Mg 279.078	2900.37	ppb	7.7512	0.3	6344.41
Mn 257.610	368.710	ppb	0.8856	0.2	86052.8
Mo 202.032	-0.6560	ppb	0.4304	65.6	9.0022
Na 330.237	10831.8	ppb	116.170	1.1	580.194
Ni 231.604	2.1322	ppb	0.3198	15.0	6.5888
Pb 220.353	0.4253	ppb	1.1800	277.4	1.6505
Sb 206.834	-1.7928	ppb	1.6150	90.1	0.0107
Se 196.026	3.6142	ppb	9.6366	266.6	1.1441
Sn 189.925	-3.2178	ppb	1.0209	31.7	-2.4233
Sr 216.596	51.5969	ppb	0.7081	1.4	620.299
Ti 334.941	0.0735	ppb	0.0430	58.5	7.8698
Tl 190.794	-0.8945	ppb	1.4370	160.7	-1.1012
V 292.401	0.2688	ppb	0.1565	58.2	11.5977
Zn 206.200	113.120	ppb	1.0112	0.9	142.113

E03192013.wvq. All Data Report 3/20/2013, 1:33:49 PM

Cont Calib Verif (CCV) 3/19/2013, 10:21:58 PM Rack 2, Tube 13
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	497.448	498.260	493.925
Al 308.215	4974.93	4956.19	4958.87
As 188.980	489.411	479.803	495.162
B 249.678	2528.98	2537.93	2554.55
Ba 389.178	4899.82	4886.31	4884.10
Be 313.042	488.521	487.981	487.643
Ca 370.602	4919	4912	4910
Cd 226.502	494.458	492.388	492.518
Co 228.615	497.814	496.453	497.833
Cr 267.716	4879.79	4864.74	4862.01
Cu 324.754	4909.99	4852.80	4837.29
Fe 271.441	5026.53	5029.97	5030.71
K 766.491	9856.84	9866.76	9912.27
Mg 279.078	4934.40	4926.61	4922.10
Mn 257.610	4978.09	4975.76	4969.16
Mo 202.032	492.609	491.850	491.805
Na 330.237	7184.11	7524.75	7238.99
Ni 231.604	2485.65	2477.97	2473.59
Pb 220.353	492.035	494.012	490.487
Sb 206.834	943.276	955.973	949.689
Se 196.026	4894.53	4860.12	4838.34
Sn 189.925	5054.67	4991.84	5015.82
Sr 216.596	2417.36	2409.71	2404.12
Ti 334.941	478.387	477.957	477.738
Tl 190.794	5006.09	4989.41	4993.03
V 292.401	4914.51	4904.22	4914.54
Zn 206.200	2504.20	2498.27	2500.89

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	496.544	ppb	2.3041	0.5	37531.6	99.30886
Al 308.215	4963.33	ppb	10.1350	0.2	29439.6	99.26656
As 188.980	488.125	ppb	7.7601	1.6	274.359	97.62507
B 249.678	2540.49	ppb	12.9730	0.5	22774.2	101.61955
Ba 389.178	4890.08	ppb	8.5085	0.2	132825	97.80155
Be 313.042	488.049	ppb	0.4429	0.1	1053004	97.60971
Ca 370.602	4914	ppb	4.867	0.1	19316	98.27251
Cd 226.502	493.121	ppb	1.1593	0.2	19582.1	98.62430
Co 228.615	497.367	ppb	0.7912	0.2	6378.44	99.47336
Cr 267.716	4868.84	ppb	9.5773	0.2	232361	97.37688
Cu 324.754	4866.69	ppb	38.2910	0.8	266499	97.33383
Fe 271.441	5029.07	ppb	2.2272	0.0	8653.24	100.58140
K 766.491	9878.62	ppb	29.5601	0.3	656208	98.78624
Mg 279.078	4927.71	ppb	6.2203	0.1	10692.3	98.55411
Mn 257.610	4974.34	ppb	4.6306	0.1	1159723	99.48678
Mo 202.032	492.088	ppb	0.4515	0.1	3830.10	98.41758
Na 330.237	7315.95	ppb	182.897	2.5	368.517	97.54602
Ni 231.604	2479.07	ppb	6.1057	0.2	6511.50	99.16281
Pb 220.353	492.178	ppb	1.7669	0.4	880.199	98.43564
Sb 206.834	949.646	ppb	6.3486	0.7	1034.46	94.96461
Se 196.026	4864.33	ppb	28.3340	0.6	2527.91	97.28659
Sn 189.925	5020.78	ppb	31.7076	0.6	5086.87	100.41560
Sr 216.596	2410.40	ppb	6.6453	0.3	28295.5	96.41580
Ti 334.941	478.027	ppb	0.3301	0.1	154000	95.60546
Tl 190.794	4996.18	ppb	8.7732	0.2	3974.89	99.92352
V 292.401	4911.09	ppb	5.9497	0.1	150105	98.22177
Zn 206.200	2501.12	ppb	2.9797	0.1	3133.24	100.04478

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

Cont Calib Blank (CCB) 3/19/2013, 10:27:24 PM Rack 2, Tube 14
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.8016	-0.5530u	0.5920
Al 308.215	1.0428	-0.6104u	-0.5605u
As 188.980	0.5423	-4.0152u	5.0314
B 249.678	16.5890	13.1819	10.9668
Ba 389.178	1.3483	0.5770	0.7867
Be 313.042	0.0064	0.0006	-0.0053u
Ca 370.602	-0.4566u	-1.079u	-3.141u
Cd 226.502	0.0852	0.0234	-0.0072u
Co 228.615	-0.0970u	0.0677	0.6454
Cr 267.716	0.6577	0.5069	0.3503
Cu 324.754	0.0507	-0.4288u	-0.3719u
Fe 271.441	-1.2325u	11.9471	2.6815
K 766.491	0.5990	0.0982	0.3086
Mg 279.078	-0.7440u	3.2332	4.5379
Mn 257.610	0.5664	0.5274	0.4728
Mo 202.032	0.0032	0.4637	0.4276
Na 330.237	-35.2524u	-16.1969u	-151.229u
Ni 231.604	-1.2753u	-0.0742u	-0.8781u
Pb 220.353	1.8471	2.2641	-0.1377u
Sb 206.834	2.4634	-1.4913u	-2.9074u
Se 196.026	-0.3907u	-4.7837u	-7.8749u
Sn 189.925	-0.4441u	-1.6600u	-1.9921u
Sr 216.596	0.4095	-0.4281u	0.2852
Ti 334.941	0.0188	-0.0705u	-0.0186u
Tl 190.794	-2.6541u	2.0055	3.9818
V 292.401	0.4685	0.8646	0.6214
Zn 206.200	-0.7205u	-0.8782u	1.5251

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2802	ppb	0.7292	260.2	-39.3557	0.28021
Al 308.215	-0.0427	ppb	0.9404	2201.7	271.637	-0.04271
As 188.980	0.5195	ppb	4.5233	870.7	0.0575	0.51950
B 249.678	13.5792	ppb	2.8321	20.9	233.379	13.57922
Ba 389.178	0.9040	ppb	0.3988	44.1	-12.1625	0.90397
Be 313.042	0.0006	ppb	0.0058	1033.0	-134.221	0.00056
Ca 370.602	-1.559	ppb	1.405	90.1	6.735	-1.55872
Cd 226.502	0.0338	ppb	0.0471	139.3	9.5231	0.03381
Co 228.615	0.2054	ppb	0.3899	189.8	16.0302	0.20540
Cr 267.716	0.5049	ppb	0.1537	30.4	21.1995	0.50494
Cu 324.754	-0.2500	ppb	0.2620	104.8	158.637	-0.25002
Fe 271.441	4.4654	ppb	6.7685	151.6	11.1157	4.46535
K 766.491	0.3353	ppb	0.2515	75.0	289.921	0.33527
Mg 279.078	2.3424	ppb	2.7513	117.5	21.4679	2.34236
Mn 257.610	0.5222	ppb	0.0470	9.0	177.381	0.52220
Mo 202.032	0.2982	ppb	0.2561	85.9	16.8786	0.29817
Na 330.237	-67.5594	ppb	73.0836	108.2	-5.8175	-67.55937
Ni 231.604	-0.7425	ppb	0.6119	82.4	-1.1383	-0.74254
Pb 220.353	1.3245	ppb	1.2834	96.9	3.1710	1.32451
Sb 206.834	-0.6451	ppb	2.7836	431.5	0.9875	-0.64509
Se 196.026	-4.3498	ppb	3.7609	86.5	-3.1421	-4.34980
Sn 189.925	-1.3654	ppb	0.8150	59.7	-0.5564	-1.36543
Sr 216.596	0.0889	ppb	0.4520	508.5	9.5814	0.08888
Ti 334.941	-0.0235	ppb	0.0448	191.2	-38.5591	-0.02345
Tl 190.794	1.1111	ppb	3.4072	306.7	1.2737	1.11109
V 292.401	0.6515	ppb	0.1998	30.7	23.1139	0.65146
Zn 206.200	-0.0245	ppb	1.3444	5482.0	-0.1801	-0.02452

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88234-a-4-a (Samp) 3/19/2013, 10:32:48 PM Rack 2, Tube 15
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4434u	0.2450	0.2060
Al 308.215	32.7687	31.0535	30.4385
As 188.980	-1.8510u	-4.1770u	-2.2572u
B 249.678	16.3686	16.5258	15.3620
Ba 389.178	32.1258	33.3016	32.0824
Be 313.042	0.0869	0.0759	0.0799
Ca 370.602	5627	5636	5620
Cd 226.502	0.0301	0.0722	0.2450
Co 228.615	3.5365	3.5094	3.5953
Cr 267.716	0.4652	0.4645	0.5620
Cu 324.754	2.0383	2.0513	1.5331
Fe 271.441	2704.11	2702.08	2697.13
K 766.491	1767.20	1759.95	1754.68
Mg 279.078	4635.68	4645.33	4650.03
Mn 257.610	112.918	113.189	112.783
Mo 202.032	-0.0465u	-0.3040u	-0.4406u
Na 330.237	41897.1	41631.7	41536.1
Ni 231.604	4.1969	2.7046	1.7883
Pb 220.353	-1.9062u	1.0787	-1.5847u
Sb 206.834	-1.6895u	2.6406	1.5512
Se 196.026	4.6137	-3.7389u	-4.6284u
Sn 189.925	-2.3310u	-1.7340u	-4.9127u
Sr 216.596	46.8346	45.5459	45.3914
Ti 334.941	-0.1313u	-0.1952u	-0.1422u
Tl 190.794	1.4323	-9.0393u	0.9181
V 292.401	1.4917	1.3442	1.3420
Zn 206.200	11.2878	10.6190	11.1666

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0025	ppb	0.3867	15196.9	-62.1137
Al 308.215	31.4202	ppb	1.2076	3.8	456.587
As 188.980	-2.7617	ppb	1.2424	45.0	-1.7706
B 249.678	16.0855	ppb	0.6314	3.9	253.355
Ba 389.178	32.5033	ppb	0.6917	2.1	864.789
Be 313.042	0.0809	ppb	0.0055	6.9	35.5863
Ca 370.602	5628	ppb	8.065	0.1	22050
Cd 226.502	0.1158	ppb	0.1138	98.3	19.5258
Co 228.615	3.5471	ppb	0.0439	1.2	58.6525
Cr 267.716	0.4973	ppb	0.0561	11.3	22.6712
Cu 324.754	1.8743	ppb	0.2955	15.8	275.748
Fe 271.441	2701.11	ppb	3.5936	0.1	4584.53
K 766.491	1760.61	ppb	6.2853	0.4	117172
Mg 279.078	4643.68	ppb	7.3148	0.2	10153.8
Mn 257.610	112.963	ppb	0.2066	0.2	26428.5
Mo 202.032	-0.2637	ppb	0.2001	75.9	12.3646
Na 330.237	41688.3	ppb	187.064	0.4	2251.98
Ni 231.604	2.8966	ppb	1.2157	42.0	8.4746
Pb 220.353	-0.8040	ppb	1.6384	203.8	-0.6074
Sb 206.834	0.8341	ppb	2.2523	270.0	2.5942
Se 196.026	-1.2512	ppb	5.0986	407.5	-1.4864
Sn 189.925	-2.9926	ppb	1.6895	56.5	-2.1839
Sr 216.596	45.9240	ppb	0.7924	1.7	550.446
Ti 334.941	-0.1562	ppb	0.0342	21.9	-60.6308
Tl 190.794	-2.2296	ppb	5.9030	264.8	-1.6256
V 292.401	1.3926	ppb	0.0858	6.2	45.6506
Zn 206.200	11.0245	ppb	0.3563	3.2	437151

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88266-b-2-a (Samp) 3/19/2013, 10:38:13 PM Rack 2, Tube 16
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2763	-0.6813u	0.4445
Al 308.215	155.427	154.718	154.160
As 188.980	4.1277	-4.1405u	-1.7950u
B 249.678	-0.6867u	-0.9403u	-0.6867u
Ba 389.178	20.0599	18.6015	20.7795
Be 313.042	-0.0309u	-0.0294u	-0.0232u
Ca 370.602	1125	1112	1123
Cd 226.502	0.4659	0.3516	0.3758
Co 228.615	0.4991	1.3579	1.4812
Cr 267.716	0.3890	0.5190	0.5536
Cu 324.754	-0.4205u	-0.8136u	-0.1710u
Fe 271.441	207.571	194.715	202.876
K 766.491	1958.04	1942.45	1943.12
Mg 279.078	708.740	704.710	712.038
Mn 257.610	56.5276	56.1549	56.4580
Mo 202.032	0.2414	-1.1619u	-0.1735u
Na 330.237	1699.06	1879.14	1971.45
Ni 231.604	0.7946	-0.6425u	1.3287
Pb 220.353	0.7196	0.7945	0.7589
Sb 206.834	-5.1477u	2.9564	1.9040
Se 196.026	-6.6030u	-5.3552u	1.8677
Sn 189.925	-1.9922u	-0.6568u	-1.5868u
Sr 216.596	8.2189	8.0939	8.5162
Ti 334.941	7.4082	7.1876	7.4861
Tl 190.794	3.5448	-4.5059u	1.2798
V 292.401	0.3798	0.4095	0.2941
Zn 206.200	14.2378	11.2302	13.2258

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0132	ppb	0.6072	4615.5	-59.7357
Al 308.215	154.768	ppb	0.6351	0.4	1182.01
As 188.980	-0.6026	ppb	4.2611	707.1	-0.5671
B 249.678	-0.7712	ppb	0.1464	19.0	105.169
Ba 389.178	19.8136	ppb	1.1097	5.6	503.939
Be 313.042	-0.0278	ppb	0.0041	14.6	-195.353
Ca 370.602	1120	ppb	6.650	0.6	4435
Cd 226.502	0.3977	ppb	0.0602	15.1	24.4712
Co 228.615	1.1127	ppb	0.5350	48.1	27.8674
Cr 267.716	0.4872	ppb	0.0867	17.8	20.6878
Cu 324.754	-0.4684	ppb	0.3240	69.2	146.727
Fe 271.441	201.721	ppb	6.5057	3.2	345.849
K 766.491	1947.87	ppb	8.8129	0.5	129606
Mg 279.078	708.496	ppb	3.6701	0.5	1562.32
Mn 257.610	56.3802	ppb	0.1982	0.4	13204.4
Mo 202.032	-0.3647	ppb	0.7209	197.7	11.7152
Na 330.237	1849.88	ppb	138.532	7.5	97.6795
Ni 231.604	0.4936	ppb	1.0195	206.5	2.1122
Pb 220.353	0.7577	ppb	0.0375	4.9	2.1644
Sb 206.834	-0.0958	ppb	4.4067	4601.6	1.5738
Se 196.026	-3.3635	ppb	4.5731	136.0	-2.6139
Sn 189.925	-1.4119	ppb	0.6846	48.5	-0.6020
Sr 216.596	8.2763	ppb	0.2169	2.6	106.109
Ti 334.941	7.3606	ppb	0.1549	2.1	2343.88
Tl 190.794	0.1062	ppb	4.1517	3908.2	0.4011
V 292.401	0.3611	ppb	0.0599	16.6	14.5218
Zn 206.200	12.8979	ppb	1.5304	11.9	150713

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88266-b-3-a (Samp) 3/19/2013, 10:43:38 PM Rack 2, Tube 17
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1476	-0.3478u	0.4571
Al 308.215	110.994	113.320	106.654
As 188.980	-7.5274u	-2.6835u	4.9934
B 249.678	-2.3414u	-1.4052u	-1.7287u
Ba 389.178	18.5361	18.6890	19.2807
Be 313.042	-0.0344u	-0.0308u	-0.0299u
Ca 370.602	1092	1092	1090
Cd 226.502	0.3076	0.2785	0.2162
Co 228.615	1.9803	1.1711	1.9746
Cr 267.716	0.3384	0.6071	0.4749
Cu 324.754	-0.2327u	-0.2509u	0.1281
Fe 271.441	147.976	148.709	149.522
K 766.491	1898.22	1902.64	1894.60
Mg 279.078	689.903	683.752	682.456
Mn 257.610	58.1961	58.1990	57.9583
Mo 202.032	-0.8522u	-0.5162u	-0.4376u
Na 330.237	1544.25	1858.58	1641.00
Ni 231.604	0.4543	2.3822	1.9948
Pb 220.353	2.3475	0.1728	0.0349
Sb 206.834	3.5979	-0.1589u	-4.8042u
Se 196.026	3.1950	-10.4905u	3.3844
Sn 189.925	-0.8508u	-1.6065u	-4.3229u
Sr 216.596	8.4044	7.9305	8.2147
Ti 334.941	5.1640	5.1301	5.0947
Tl 190.794	-1.8777u	-2.4939u	-5.9805u
V 292.401	0.1353	0.2327	0.8202
Zn 206.200	10.5885	11.6327	13.6863

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0857	ppb	0.4060	474.0	-54.2305
Al 308.215	110.323	ppb	3.3834	3.1	920.603
As 188.980	-1.7392	ppb	6.3135	363.0	-1.2064
B 249.678	-1.8251	ppb	0.4755	26.1	95.8164
Ba 389.178	18.8353	ppb	0.3933	2.1	477.198
Be 313.042	-0.0317	ppb	0.0024	7.5	-203.646
Ca 370.602	1091	ppb	1.482	0.1	4327
Cd 226.502	0.2674	ppb	0.0467	17.5	19.1575
Co 228.615	1.7086	ppb	0.4655	27.2	35.4218
Cr 267.716	0.4734	ppb	0.1344	28.4	20.0186
Cu 324.754	-0.1185	ppb	0.2138	180.4	165.857
Fe 271.441	148.736	ppb	0.7736	0.5	255.959
K 766.491	1898.49	ppb	4.0243	0.2	126327
Mg 279.078	685.370	ppb	3.9787	0.6	1511.80
Mn 257.610	58.1178	ppb	0.1382	0.2	13609.1
Mo 202.032	-0.6020	ppb	0.2202	36.6	9.8731
Na 330.237	1681.28	ppb	160.989	9.6	88.6038
Ni 231.604	1.6104	ppb	1.0198	63.3	5.0441
Pb 220.353	0.8517	ppb	1.2972	152.3	2.3352
Sb 206.834	-0.4551	ppb	4.2089	924.9	1.2002
Se 196.026	-1.3037	ppb	7.9565	610.3	-1.5436
Sn 189.925	-2.2601	ppb	1.8260	80.8	-1.4613
Sr 216.596	8.1832	ppb	0.2385	2.9	104.965
Ti 334.941	5.1296	ppb	0.0346	0.7	1625.00
Tl 190.794	-3.4507	ppb	2.2124	64.1	-2.4311
V 292.401	0.3961	ppb	0.3705	93.5	15.5777
Zn 206.200	11.9692	ppb	1.5761	13.2	14.9035

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88266-b-4-a (Samp) 3/19/2013, 10:49:03 PM Rack 2, Tube 18

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4546u	0.1373	0.1923
Al 308.215	366.435	361.094	359.613
As 188.980	-2.1575u	-6.9647u	3.0953
B 249.678	-2.2062u	-3.4475u	-3.6502u
Ba 389.178	18.9949	19.6521	19.6351
Be 313.042	-0.0060u	-0.0112u	-0.0008u
Ca 370.602	1426	1410	1405
Cd 226.502	0.0649	0.0299	0.1208
Co 228.615	3.2244	3.1413	3.0070
Cr 267.716	1.0380	0.9560	0.9888
Cu 324.754	0.3824	0.2984	0.4092
Fe 271.441	374.051	372.596	370.646
K 766.491	1380.27	1370.37	1370.16
Mg 279.078	607.487	602.752	602.212
Mn 257.610	158.501	157.107	157.178
Mo 202.032	-0.4932u	-0.4744u	-0.8434u
Na 330.237	1965.42	1851.03	1778.89
Ni 231.604	0.7600	-0.1856u	1.0537
Pb 220.353	0.8550	-4.1223u	0.9092
Sb 206.834	-0.1870u	1.8845	-2.7623u
Se 196.026	-4.5957u	-1.7502u	2.5875
Sn 189.925	-2.7941u	-3.7256u	-0.3655u
Sr 216.596	7.6667	7.3243	7.4613
Ti 334.941	26.9860	26.7745	26.7019
Tl 190.794	-6.2098u	2.5105	-3.2210u
V 292.401	0.7655	0.6125	0.5198
Zn 206.200	6.4133	8.4156	7.9681

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0417	ppb	0.3587	860.6	-63.3799
Al 308.215	362.381	ppb	3.5887	1.0	2403.00
As 188.980	-2.0090	ppb	5.0317	250.5	-1.3579
B 249.678	-3.1013	ppb	0.7818	25.2	84.2296
Ba 389.178	19.4274	ppb	0.3746	1.9	493.402
Be 313.042	-0.0060	ppb	0.0052	87.3	-148.020
Ca 370.602	1414	ppb	10.76	0.8	5590
Cd 226.502	0.0719	ppb	0.0459	63.8	11.9779
Co 228.615	3.1242	ppb	0.1097	3.5	54.1326
Cr 267.716	0.9943	ppb	0.0413	4.2	45.4040
Cu 324.754	0.3633	ppb	0.0578	15.9	192.293
Fe 271.441	372.431	ppb	1.7083	0.5	635.539
K 766.491	1373.60	ppb	5.7772	0.4	91474.5
Mg 279.078	604.150	ppb	2.9020	0.5	1332.79
Mn 257.610	157.595	ppb	0.7848	0.5	36799.4
Mo 202.032	-0.6037	ppb	0.2078	34.4	9.8475
Na 330.237	1865.11	ppb	94.0617	5.0	98.3323
Ni 231.604	0.5427	ppb	0.6476	119.3	2.2448
Pb 220.353	-0.7860	ppb	2.8894	367.6	-0.5862
Sb 206.834	-0.3550	ppb	2.3279	655.9	1.3165
Se 196.026	-1.2528	ppb	3.6173	288.7	-1.4899
Sn 189.925	-2.2951	ppb	1.7348	75.6	-1.4965
Sr 216.596	7.4841	ppb	0.1723	2.3	96.8985
Ti 334.941	26.8208	ppb	0.1476	0.6	8612.80
Tl 190.794	-2.3068	ppb	4.4315	192.1	-1.6445
V 292.401	0.6326	ppb	0.1241	19.6	23.1956
Zn 206.200	7.5990	ppb	1.0599	13.8	94062

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88266-b-5-a (Samp) 3/19/2013, 10:54:27 PM Rack 2, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4951	-0.5549u	0.1174
Al 308.215	2037.37	2019.01	2025.57
As 188.980	-1.7718u	-2.5077u	-2.0194u
B 249.678	16.6617	17.0220	16.6843
Ba 389.178	35.3246	34.5569	34.3284
Be 313.042	0.0551	0.0551	0.0567
Ca 370.602	27007	27014	26933
Cd 226.502	0.1210	0.0439	-0.0234
Co 228.615	0.8155	-0.1736	0.6317
Cr 267.716	2.9414	2.9531	3.0065
Cu 324.754	0.6348	1.0309	0.5918
Fe 271.441	1922.89	1920.78	1926.29
K 766.491	2390.96	2385.65	2389.32
Mg 279.078	1155.27	1152.65	1152.13
Mn 257.610	39.3613	39.3643	39.2913
Mo 202.032	-0.4706u	-0.5034u	-0.1745u
Na 330.237	45430.4	45502.3	45376.1
Ni 231.604	0.2276	1.4811	0.7131
Pb 220.353	3.7668	3.0466	-0.7228u
Sb 206.834	1.3375	2.5081	-1.4974u
Se 196.026	-7.8798u	3.0634	3.0252
Sn 189.925	0.4341	-4.1982u	1.8675
Sr 216.596	191.861	192.046	191.672
Ti 334.941	94.6609	94.3558	96.5059
Tl 190.794	0.9419	-1.5170u	8.1056
V 292.401	4.0530	3.7751	3.7443
Zn 206.200	5.5270	6.8406	5.9244

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0192	ppb	0.5318	2772.9	-67.8999
Al 308.215	2027.32	ppb	9.3062	0.5	12194.9
As 188.980	-2.0996	ppb	0.3745	17.8	-1.2273
B 249.678	16.7893	ppb	0.2018	1.2	260.321
Ba 389.178	34.7367	ppb	0.5219	1.5	913.490
Be 313.042	0.0557	ppb	0.0009	1.6	-10.6256
Ca 370.602	26985	ppb	44.85	0.2	106788
Cd 226.502	0.0472	ppb	0.0722	153.1	14.7478
Co 228.615	0.4246	ppb	0.5261	123.9	21.5391
Cr 267.716	2.9670	ppb	0.0347	1.2	140.300
Cu 324.754	0.7525	ppb	0.2421	32.2	214.073
Fe 271.441	1923.32	ppb	2.7842	0.1	3265.24
K 766.491	2388.64	ppb	2.7213	0.1	158873
Mg 279.078	1153.35	ppb	1.6830	0.1	2533.62
Mn 257.610	39.3389	ppb	0.0413	0.1	9239.56
Mo 202.032	-0.3829	ppb	0.1812	47.3	11.4745
Na 330.237	45436.3	ppb	63.2908	0.1	2454.23
Ni 231.604	0.8073	ppb	0.6320	78.3	2.9723
Pb 220.353	2.0302	ppb	2.4112	118.8	4.3466
Sb 206.834	0.7827	ppb	2.0596	263.1	2.5491
Se 196.026	-0.5971	ppb	6.3071	1056.3	-1.1704
Sn 189.925	-0.6322	ppb	3.1703	501.5	0.2196
Sr 216.596	191.860	ppb	0.1868	0.1	2268.91
Ti 334.941	95.1742	ppb	1.1633	1.2	30633.4
Tl 190.794	2.5102	ppb	4.9993	199.2	2.2661
V 292.401	3.8575	ppb	0.1700	4.4	122.640
Zn 206.200	6.0974	ppb	0.6737	11.0	475126

E03192013.wvq. All Data Report 3/20/2013, 1:33:49 PM

680-88292-a-1-a (Samp) 3/19/2013, 10:59:52 PM Rack 2, Tube 20
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8063u	-0.3895u	-0.6328u
Al 308.215	11.9099	7.8773	10.7122
As 188.980	8.5577	4.8728	10.2043
B 249.678	90.8410	90.6128	93.4042
Ba 389.178	129.036	127.750	128.416
Be 313.042	-0.0722u	-0.0679u	-0.0572u
Ca 370.602	30439	30440	30519
Cd 226.502	0.0461	-0.0480u	0.3094
Co 228.615	0.6413	-0.0359u	0.6718
Cr 267.716	7.6397	7.6745	7.6500
Cu 324.754	0.6427	0.5734	0.9246
Fe 271.441	17.5669	18.5805	16.3165
K 766.491	7072.12	7077.99	7083.60
Mg 279.078	12759.1	12748.5	12756.2
Mn 257.610	0.4152	0.3960	0.4546
Mo 202.032	4.6817	4.2917	4.4857
Na 330.237	34398.5	34054.0	34219.9
Ni 231.604	1.2142	-0.2625u	-0.0489u
Pb 220.353	1.5879	1.0256	3.1900
Sb 206.834	-0.0203u	0.1108	-2.2740u
Se 196.026	3.6647	1.0293	10.5236
Sn 189.925	-0.7509u	-0.0284	-1.6383u
Sr 216.596	507.796	507.587	509.070
Ti 334.941	-0.1055	-0.1672	-0.1270
Tl 190.794	-0.9684u	-1.9259u	-2.2560u
V 292.401	43.7998	44.3821	44.2843
Zn 206.200	4.1348	6.8243	5.9754

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6096	ppb	0.2094	34.3	-130.555
Al 308.215	10.1665	ppb	2.0710	20.4	331.420
As 188.980	7.8783	ppb	2.7299	34.7	4.4324
B 249.678	91.6193	ppb	1.5499	1.7	929.659
Ba 389.178	128.401	ppb	0.6427	0.5	3490.03
Be 313.042	-0.0658	ppb	0.0077	11.7	-273.300
Ca 370.602	30466	ppb	46.06	0.2	120754
Cd 226.502	0.1025	ppb	0.1852	180.7	12.2507
Co 228.615	0.4257	ppb	0.4001	94.0	18.7320
Cr 267.716	7.6548	ppb	0.0179	0.2	362.652
Cu 324.754	0.7136	ppb	0.1860	26.1	211.022
Fe 271.441	17.4880	ppb	1.1340	6.5	33.5501
K 766.491	7077.90	ppb	5.7391	0.1	470240
Mg 279.078	12754.6	ppb	5.4677	0.0	27864.3
Mn 257.610	0.4219	ppb	0.0299	7.1	240.959
Mo 202.032	4.4864	ppb	0.1950	4.3	49.3509
Na 330.237	34224.1	ppb	172.326	0.5	1849.10
Ni 231.604	0.3009	ppb	0.7980	265.2	1.6024
Pb 220.353	1.9345	ppb	1.1231	58.1	4.2552
Sb 206.834	-0.7278	ppb	1.3406	184.2	0.9189
Se 196.026	5.0725	ppb	4.9012	96.6	1.7538
Sn 189.925	-0.8059	ppb	0.8064	100.1	0.0408
Sr 216.596	508.151	ppb	0.8027	0.2	5988.28
Ti 334.941	-0.1332	ppb	0.0313	23.5	-10.8644
Tl 190.794	-1.7168	ppb	0.6688	39.0	-0.9630
V 292.401	44.1554	ppb	0.3118	0.7	1355.13
Zn 206.200	5.6449	ppb	1.3749	24.4	6.9320

E03192013.wvq. All Data Report 3/20/2013, 1:33:49 PM

680-88292-a-2-a (Samp) 3/19/2013, 11:05:18 PM Rack 2, Tube 21
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2930u	-0.2119u	-0.4690u
Al 308.215	39.4673	36.6595	39.1302
As 188.980	3.7511	11.7693	3.6267
B 249.678	99.3369	98.5290	101.474
Ba 389.178	132.493	131.601	132.440
Be 313.042	-0.0710u	-0.0641u	-0.0676u
Ca 370.602	34253	34259	34302
Cd 226.502	-0.0135u	0.0688	-0.0726u
Co 228.615	0.4564	0.2511	-0.1155u
Cr 267.716	16.8268	16.8794	16.9618
Cu 324.754	-0.1863u	-0.1314u	0.1160
Fe 271.441	40.8424	35.4112	36.6036
K 766.491	7234.69	7226.45	7233.20
Mg 279.078	14491.8	14450.7	14500.6
Mn 257.610	0.8760	0.8196	0.8759
Mo 202.032	1.4190	1.0059	0.5633
Na 330.237	27288.5	27086.1	27224.3
Ni 231.604	0.1122	-0.0266u	1.6359
Pb 220.353	0.1086	1.5444	-1.3362u
Sb 206.834	-6.1597u	-4.4122u	-5.7069u
Se 196.026	7.1228	4.9686	-3.6581u
Sn 189.925	-0.6341u	0.5130	1.7251
Sr 216.596	574.367	571.409	574.764
Ti 334.941	0.4883	0.3804	0.4275
Tl 190.794	-1.2162u	-1.1231u	-0.3425u
V 292.401	32.1174	31.6103	31.9361
Zn 206.200	4.5504	2.8414	1.9529

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3246	ppb	0.1314	40.5	-112.127
Al 308.215	38.4190	ppb	1.5331	4.0	497.389
As 188.980	6.3824	ppb	4.6657	73.1	3.6205
B 249.678	99.7801	ppb	1.5219	1.5	1002.45
Ba 389.178	132.178	ppb	0.5004	0.4	3597.88
Be 313.042	-0.0676	ppb	0.0034	5.1	-273.760
Ca 370.602	34271	ppb	26.75	0.1	135833
Cd 226.502	-0.0058	ppb	0.0710	1228.3	8.0682
Co 228.615	0.1973	ppb	0.2897	146.8	15.9762
Cr 267.716	16.8893	ppb	0.0680	0.4	803.426
Cu 324.754	-0.0672	ppb	0.1610	239.5	168.335
Fe 271.441	37.6191	ppb	2.8544	7.6	67.5924
K 766.491	7231.45	ppb	4.3912	0.1	480436
Mg 279.078	14481.0	ppb	26.6578	0.2	31633.6
Mn 257.610	0.8572	ppb	0.0325	3.8	354.316
Mo 202.032	0.9960	ppb	0.4279	43.0	22.2391
Na 330.237	27199.6	ppb	103.436	0.4	1469.13
Ni 231.604	0.5738	ppb	0.9224	160.7	2.3195
Pb 220.353	0.1056	ppb	1.4403	1363.7	0.9907
Sb 206.834	-5.4262	ppb	0.9069	16.7	-3.8146
Se 196.026	2.8111	ppb	5.7051	202.9	0.5791
Sn 189.925	0.5347	ppb	1.1797	220.6	1.3977
Sr 216.596	573.513	ppb	1.8334	0.3	6757.59
Ti 334.941	0.4320	ppb	0.0541	12.5	180.837
Tl 190.794	-0.8939	ppb	0.4798	53.7	-0.3130
V 292.401	31.8879	ppb	0.2570	0.8	979.225
Zn 206.200	3.1149	ppb	1.3202	42.4	3.7273

E03192013.wvq. All Data Report 3/20/2013, 1:33:49 PM

680-88292-a-4-a (Samp) 3/19/2013, 11:10:44 PM Rack 2, Tube 22

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8643u	0.1016u	0.0194u
Al 308.215	104.912	105.510	101.744
As 188.980	7.7213	6.2882	11.5493
B 249.678	64.2995	63.1352	64.2123
Ba 389.178	98.6135	98.2425	98.0410
Be 313.042	-0.0603u	-0.0667u	-0.0531u
Ca 370.602	29552	29546	29594
Cd 226.502	-0.0239u	0.1410	0.0656
Co 228.615	0.5718	0.2959	0.2455
Cr 267.716	2.4440	2.0267	2.3314
Cu 324.754	0.2360	1.4605	0.6505
Fe 271.441	266.118	267.533	260.069
K 766.491	6042.48	6019.03	6023.05
Mg 279.078	12734.2	12758.1	12766.6
Mn 257.610	10.6814	10.7540	10.7839
Mo 202.032	2.1650	1.6938	1.9376
Na 330.237	15777.9	15599.0	15562.3
Ni 231.604	0.3383	3.4917	1.2576
Pb 220.353	1.1018	1.8293	-2.5150u
Sb 206.834	0.2246	0.6389	-3.4711u
Se 196.026	9.2902	5.4440	4.1420
Sn 189.925	-4.8599u	0.3902	-3.8549u
Sr 216.596	488.534	489.310	491.765
Ti 334.941	2.6429	2.7087	2.7848
Tl 190.794	-3.0010u	-6.9654u	-9.3035u
V 292.401	40.9327	40.9440	40.9229
Zn 206.200	1.1756	4.0222	2.5874

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2478	ppb	0.5355	216.1	-102.420
Al 308.215	104.056	ppb	2.0243	1.9	883.311
As 188.980	8.5196	ppb	2.7199	31.9	4.7856
B 249.678	63.8823	ppb	0.6485	1.0	681.966
Ba 389.178	98.2990	ppb	0.2904	0.3	2672.81
Be 313.042	-0.0600	ppb	0.0068	11.4	-258.120
Ca 370.602	29564	ppb	26.11	0.1	117156
Cd 226.502	0.0609	ppb	0.0825	135.5	11.3474
Co 228.615	0.3711	ppb	0.1756	47.3	18.1850
Cr 267.716	2.2673	ppb	0.2159	9.5	105.322
Cu 324.754	0.7823	ppb	0.6228	79.6	214.821
Fe 271.441	264.573	ppb	3.9647	1.5	452.478
K 766.491	6028.19	ppb	12.5405	0.2	400539
Mg 279.078	12753.0	ppb	16.8026	0.1	27860.6
Mn 257.610	10.7398	ppb	0.0527	0.5	2647.05
Mo 202.032	1.9321	ppb	0.2356	12.2	29.4862
Na 330.237	15646.4	ppb	115.383	0.7	844.084
Ni 231.604	1.6959	ppb	1.6217	95.6	5.2709
Pb 220.353	0.1387	ppb	2.3268	1677.5	1.0489
Sb 206.834	-0.8692	ppb	2.2628	260.3	0.7603
Se 196.026	6.2921	ppb	2.6768	42.5	2.3917
Sn 189.925	-2.7749	ppb	2.7867	100.4	-1.9622
Sr 216.596	489.870	ppb	1.6869	0.3	5773.38
Ti 334.941	2.7121	ppb	0.0710	2.6	907.528
Tl 190.794	-6.4233	ppb	3.1860	49.6	-4.7334
V 292.401	40.9332	ppb	0.0105	0.0	1257.51
Zn 206.200	2.5951	ppb	1.4233	54.8	431.098

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88292-a-7-a (Samp) 3/19/2013, 11:16:10 PM Rack 2, Tube 23

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4821u	0.0987u	-0.1012u
Al 308.215	7.2749	7.4643	3.2559
As 188.980	1.7036	-2.2333u	11.3076
B 249.678	48.0326	48.8260	47.5186
Ba 389.178	85.0933	85.3335	85.8410
Be 313.042	-0.0648u	-0.0695u	-0.0647u
Ca 370.602	32468	32384	32461
Cd 226.502	-0.1027u	-0.0519u	-0.1642u
Co 228.615	-0.0638u	0.4815	0.2206
Cr 267.716	0.5379	0.6029	0.5260
Cu 324.754	1.8479	1.8019	1.9258
Fe 271.441	7.8068	5.4604	12.7149
K 766.491	6253.09	6261.79	6241.02
Mg 279.078	12489.5	12473.5	12475.1
Mn 257.610	-0.2612	-0.3455	-0.2815
Mo 202.032	0.6253	0.6160	0.6210
Na 330.237	13264.4	13290.5	13332.6
Ni 231.604	0.5382	1.8223	1.1348
Pb 220.353	-1.6189u	4.9017	-1.7818u
Sb 206.834	-2.2068u	-5.0876u	-5.6086u
Se 196.026	-1.1308u	5.0508	-0.4230u
Sn 189.925	-2.0824u	-3.2300u	-1.6658u
Sr 216.596	485.316	484.367	488.061
Ti 334.941	-0.1852	-0.2092u	-0.1566
Tl 190.794	4.5899	0.8863	-1.7901u
V 292.401	26.0132	25.5624	25.8262
Zn 206.200	11.2217	9.3373	12.7642

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1616	ppb	0.2951	182.6	-95.8433
Al 308.215	5.9984	ppb	2.3769	39.6	306.711
As 188.980	3.5926	ppb	6.9653	193.9	2.0371
B 249.678	48.1257	ppb	0.6586	1.4	541.609
Ba 389.178	85.4226	ppb	0.3817	0.4	2321.77
Be 313.042	-0.0663	ppb	0.0027	4.1	-269.430
Ca 370.602	32438	ppb	46.53	0.1	128569
Cd 226.502	-0.1063	ppb	0.0563	52.9	4.0733
Co 228.615	0.2128	ppb	0.2727	128.2	16.1281
Cr 267.716	0.5556	ppb	0.0414	7.4	23.6122
Cu 324.754	1.8585	ppb	0.0626	3.4	273.770
Fe 271.441	8.6607	ppb	3.7019	42.7	18.3259
K 766.491	6251.97	ppb	10.4312	0.2	415398
Mg 279.078	12479.4	ppb	8.8292	0.1	27263.3
Mn 257.610	-0.2961	ppb	0.0440	14.9	71.8957
Mo 202.032	0.6208	ppb	0.0046	0.7	19.3353
Na 330.237	13295.8	ppb	34.4079	0.3	716.968
Ni 231.604	1.1651	ppb	0.6426	55.2	3.8717
Pb 220.353	0.5003	ppb	3.8126	762.0	1.6982
Sb 206.834	-4.3010	ppb	1.8323	42.6	-2.8035
Se 196.026	1.1657	ppb	3.3832	290.2	-0.2764
Sn 189.925	-2.3261	ppb	0.8101	34.8	-1.5071
Sr 216.596	485.915	ppb	1.9185	0.4	5727.12
Ti 334.941	-0.1837	ppb	0.0264	14.3	-26.6415
Tl 190.794	1.2287	ppb	3.2037	260.7	1.3774
V 292.401	25.8006	ppb	0.2265	0.9	794.034
Zn 206.200	11.1077	ppb	1.7163	15.5	43.8198

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88292-a-13-a (Samp) 3/19/2013, 11:21:36 PM Rack 2, Tube 24

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4270u	0.1035u	-1.0426u
Al 308.215	37.5447	35.6401	38.5583
As 188.980	-1.7988u	-3.5624u	-7.4862u
B 249.678	87.9240	87.6424	88.9336
Ba 389.178	168.762	167.634	167.164
Be 313.042	-0.0631u	-0.0591u	-0.0633u
Ca 370.602	32018	31996	31894
Cd 226.502	-0.1189u	-0.0518u	-0.0046
Co 228.615	0.8769	0.0027u	-0.0359u
Cr 267.716	1.1379	1.3611	1.2024
Cu 324.754	-0.2778u	0.2764	0.0964
Fe 271.441	542.756	546.175	542.236
K 766.491	7810.98	7820.85	7808.58
Mg 279.078	13548.9	13560.6	13543.8
Mn 257.610	110.129	110.267	110.133
Mo 202.032	114.181	114.868	114.101
Na 330.237	23028.0	22840.0	22907.9
Ni 231.604	0.4748	1.1681	2.0712
Pb 220.353	0.7019	1.7749	1.2433
Sb 206.834	1.8363	1.2570u	-2.3042u
Se 196.026	-2.1629u	-3.4700u	1.9414
Sn 189.925	0.8212	0.7860	-2.8972u
Sr 216.596	494.616	496.241	491.626
Ti 334.941	0.6448	0.6689	0.6933
Tl 190.794	-0.6319u	-4.0683u	-3.3060u
V 292.401	3.9770	3.8846	3.9405
Zn 206.200	4.3429	1.2626	1.5264

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4554	ppb	0.5736	126.0	-118.107
Al 308.215	37.2477	ppb	1.4816	4.0	506.469
As 188.980	-4.2824	ppb	2.9113	68.0	-2.4317
B 249.678	88.1667	ppb	0.6790	0.8	898.388
Ba 389.178	167.853	ppb	0.8210	0.5	4565.48
Be 313.042	-0.0618	ppb	0.0023	3.8	-280.823
Ca 370.602	31969	ppb	66.53	0.2	126663
Cd 226.502	-0.0584	ppb	0.0574	98.2	7.3002
Co 228.615	0.2813	ppb	0.5163	183.6	12.7552
Cr 267.716	1.2338	ppb	0.1149	9.3	56.9698
Cu 324.754	0.0317	ppb	0.2827	893.1	177.660
Fe 271.441	543.722	ppb	2.1401	0.4	925.703
K 766.491	7813.47	ppb	6.5009	0.1	519082
Mg 279.078	13551.1	ppb	8.6380	0.1	29601.5
Mn 257.610	110.176	ppb	0.0788	0.1	25833.9
Mo 202.032	114.383	ppb	0.4218	0.4	903.801
Na 330.237	22925.3	ppb	95.2166	0.4	1237.76
Ni 231.604	1.2380	ppb	0.8005	64.7	4.0743
Pb 220.353	1.2400	ppb	0.5366	43.3	2.8801
Sb 206.834	0.2630	ppb	2.2421	852.5	0.3282
Se 196.026	-1.2305	ppb	2.8236	229.5	-1.4895
Sn 189.925	-0.4300	ppb	2.1367	496.9	0.4174
Sr 216.596	494.161	ppb	2.3410	0.5	5819.76
Ti 334.941	0.6690	ppb	0.0243	3.6	252.786
Tl 190.794	-2.6687	ppb	1.8047	67.6	-1.9251
V 292.401	3.9340	ppb	0.0466	1.2	98.5655
Zn 206.200	2.3773	ppb	1.7074	71.8	2.8386

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

Cont Calib Verif (CCV) 3/19/2013, 11:27:02 PM Rack 2, Tube 25

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	499.763	497.298	499.995
Al 308.215	5008.11	4954.83	4945.71
As 188.980	487.532	487.718	484.363
B 249.678	2522.07	2535.32	2543.52
Ba 389.178	4899.64	4886.86	4880.44
Be 313.042	489.741	488.033	487.308
Ca 370.602	4943	4925	4917
Cd 226.502	495.120	493.654	492.338
Co 228.615	497.601	499.144	497.091
Cr 267.716	4871.71	4867.82	4847.85
Cu 324.754	4831.00	4909.37	4809.74
Fe 271.441	5052.37	5038.88	5019.53
K 766.491	9839.80	9850.13	9817.17
Mg 279.078	4939.66	4932.80	4921.53
Mn 257.610	4981.21	4974.53	4946.49
Mo 202.032	489.231	490.010	489.452
Na 330.237	7147.47	7413.74	7371.32
Ni 231.604	2477.49	2468.08	2470.89
Pb 220.353	489.821	492.549	490.939
Sb 206.834	952.230	949.279	954.316
Se 196.026	4862.67	4843.15	4840.12
Sn 189.925	5007.91	5022.95	5030.98
Sr 216.596	2410.50	2405.28	2394.90
Ti 334.941	479.047	478.122	476.920
Tl 190.794	4986.92	4989.15	4967.72
V 292.401	4926.07	4925.41	4909.20
Zn 206.200	2503.83	2502.12	2495.31

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	499.019	ppb	1.4943	0.3	37719.3	99.80371
Al 308.215	4969.55	ppb	33.7036	0.7	29475.6	99.39104
As 188.980	486.538	ppb	1.8853	0.4	273.466	97.30755
B 249.678	2533.64	ppb	10.8191	0.4	22713.0	101.34543
Ba 389.178	4888.98	ppb	9.7770	0.2	132795	97.77962
Be 313.042	488.361	ppb	1.2491	0.3	1053678	97.67213
Ca 370.602	4928	ppb	13.51	0.3	19372	98.56625
Cd 226.502	493.704	ppb	1.3917	0.3	19605.2	98.74072
Co 228.615	497.945	ppb	1.0690	0.2	6385.91	99.58909
Cr 267.716	4862.46	ppb	12.8056	0.3	232056	97.24920
Cu 324.754	4850.03	ppb	52.4702	1.1	265587	97.00069
Fe 271.441	5036.92	ppb	16.5055	0.3	8666.70	100.73849
K 766.491	9835.70	ppb	16.8593	0.2	653358	98.35698
Mg 279.078	4931.33	ppb	9.1523	0.2	10700.4	98.62658
Mn 257.610	4967.41	ppb	18.4246	0.4	1158107	99.34818
Mo 202.032	489.565	ppb	0.4014	0.1	3810.46	97.91292
Na 330.237	7310.85	ppb	143.066	2.0	368.251	97.47794
Ni 231.604	2472.15	ppb	4.8308	0.2	6493.34	98.88619
Pb 220.353	491.103	ppb	1.3711	0.3	878.281	98.22060
Sb 206.834	951.942	ppb	2.5307	0.3	1036.85	95.19419
Se 196.026	4848.65	ppb	12.2388	0.3	2519.76	96.97297
Sn 189.925	5020.62	ppb	11.7090	0.2	5086.70	100.41232
Sr 216.596	2403.56	ppb	7.9413	0.3	28215.3	96.14233
Ti 334.941	478.030	ppb	1.0665	0.2	154001	95.60599
Tl 190.794	4981.26	ppb	11.7789	0.2	3963.03	99.62521
V 292.401	4920.23	ppb	9.5575	0.2	150386	98.40451
Zn 206.200	2500.42	ppb	4.5953	0.2	3132.37	100.01685

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

Cont Calib Blank (CCB) 3/19/2013, 11:32:27 PM Rack 2, Tube 26
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0753u	0.4384	0.0040
Al 308.215	-0.1965u	1.9118	-0.3355u
As 188.980	0.8521	-0.0259u	0.9991
B 249.678	15.4175	13.0004	11.5535
Ba 389.178	0.8304	1.2525	2.0764
Be 313.042	-0.0020u	0.0035	0.0261
Ca 370.602	-3.622u	-2.888u	-4.269u
Cd 226.502	-0.0452u	0.0973	0.0897
Co 228.615	0.1952	0.6840	0.5419
Cr 267.716	0.6302	0.5319	0.9032
Cu 324.754	0.2564	-0.1790u	-0.1113u
Fe 271.441	1.6481	2.7167	4.1730
K 766.491	0.8863	-0.1257u	1.7316
Mg 279.078	1.9632	0.6610	2.8507
Mn 257.610	0.6172	0.5889	0.9409
Mo 202.032	0.1694	-0.6830u	-0.2172u
Na 330.237	91.4159	132.879	337.838
Ni 231.604	1.3718	0.0025	1.4679
Pb 220.353	1.2503	1.7176	1.8123
Sb 206.834	-0.0805u	5.2974	-4.3372u
Se 196.026	-5.3296u	11.9893	8.3883
Sn 189.925	-0.2502u	-0.7080u	1.2355
Sr 216.596	0.3634	-0.1512u	0.0568
Ti 334.941	0.0665	-0.0233u	-0.0208u
Tl 190.794	3.5959	3.5142	1.4008
V 292.401	0.9012	0.7748	1.1866
Zn 206.200	0.2502	1.8792	0.4383

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1224	ppb	0.2765	225.9	-51.3211	0.12239
Al 308.215	0.4599	ppb	1.2593	273.8	274.531	0.45995
As 188.980	0.6084	ppb	0.5543	91.1	0.1077	0.60843
B 249.678	13.3238	ppb	1.9522	14.7	231.104	13.32378
Ba 389.178	1.3864	ppb	0.6337	45.7	0.9299	1.38643
Be 313.042	0.0092	ppb	0.0149	162.2	-115.602	0.00918
Ca 370.602	-3.593	ppb	0.6907	19.2	-0.8253	-3.59289
Cd 226.502	0.0473	ppb	0.0801	169.5	10.0430	0.04728
Co 228.615	0.4737	ppb	0.2515	53.1	19.4741	0.47371
Cr 267.716	0.6884	ppb	0.1924	27.9	29.9597	0.68841
Cu 324.754	-0.0113	ppb	0.2343	2073.3	171.685	-0.01130
Fe 271.441	2.8459	ppb	1.2674	44.5	8.3966	2.84592
K 766.491	0.8307	ppb	0.9299	111.9	322.820	0.83073
Mg 279.078	1.8250	ppb	1.1014	60.4	20.3340	1.82496
Mn 257.610	0.7157	ppb	0.1955	27.3	222.460	0.71566
Mo 202.032	-0.2436	ppb	0.4268	175.2	12.6662	-0.24361
Na 330.237	187.377	ppb	131.941	70.4	7.9698	187.37744
Ni 231.604	0.9474	ppb	0.8197	86.5	3.2997	0.94740
Pb 220.353	1.5934	ppb	0.3009	18.9	3.6521	1.59340
Sb 206.834	0.2932	ppb	4.8282	1646.6	1.9688	0.29322
Se 196.026	5.0160	ppb	9.1386	182.2	1.7243	5.01600
Sn 189.925	0.0924	ppb	1.0160	1099.5	0.9206	0.09241
Sr 216.596	0.0897	ppb	0.2589	288.7	9.5754	0.08966
Ti 334.941	0.0074	ppb	0.0511	687.0	-28.6427	0.00745
Tl 190.794	2.8370	ppb	1.2444	43.9	2.6483	2.83698
V 292.401	0.9542	ppb	0.2110	22.1	32.4714	0.95422
Zn 206.200	0.8559	ppb	0.8911	104.1	0.9267	0.85589

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88400-c-2-a (Samp) 3/19/2013, 11:37:52 PM Rack 2, Tube 27
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0440u	0.0478u	-0.2246u
Al 308.215	98.3047	98.9969	95.8835
As 188.980	1.8727	0.0113	-3.4702u
B 249.678	14.1310	14.5897	14.3130
Ba 389.178	28.1257	28.7357	29.1518
Be 313.042	-0.0548u	-0.0479u	-0.0460u
Ca 370.602	35611	35622	35585
Cd 226.502	0.0372	0.1172	-0.0342
Co 228.615	0.5435	0.8595	0.5993
Cr 267.716	0.0904	0.2570	0.2804
Cu 324.754	0.2947	0.1876	0.0180
Fe 271.441	2321.90	2321.69	2322.74
K 766.491	3834.27	3843.98	3838.77
Mg 279.078	9386.02	9389.40	9383.05
Mn 257.610	92.2873	92.4621	92.2965
Mo 202.032	-0.8102u	-0.5602u	-0.1429u
Na 330.237	53632.3	53438.2	53472.3
Ni 231.604	1.2841	2.4704	0.0034
Pb 220.353	3.5262	-0.0323u	-0.9192u
Sb 206.834	-0.5991u	-2.3674u	-3.5013u
Se 196.026	3.8128	3.1240	6.5511
Sn 189.925	-3.3052u	2.2557	0.3914
Sr 216.596	110.591	110.107	110.883
Ti 334.941	1.8247	1.6530	1.7186
Tl 190.794	-3.4573u	-3.8102u	-1.4531u
V 292.401	-0.0732u	-0.6166u	-0.1828u
Zn 206.200	5.7862	7.5720	8.6516

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0443	ppb	0.1562	352.8	-68.9043
Al 308.215	97.7284	ppb	1.6348	1.7	846.578
As 188.980	-0.5287	ppb	2.7121	513.0	-0.2802
B 249.678	14.3446	ppb	0.2309	1.6	238.160
Ba 389.178	28.6711	ppb	0.5161	1.8	774.594
Be 313.042	-0.0496	ppb	0.0046	9.3	-235.898
Ca 370.602	35606	ppb	19.09	0.1	140895
Cd 226.502	0.0401	ppb	0.0757	188.9	15.5474
Co 228.615	0.6674	ppb	0.1687	25.3	21.9304
Cr 267.716	0.2093	ppb	0.1036	49.5	8.9752
Cu 324.754	0.1668	ppb	0.1395	83.6	182.186
Fe 271.441	2322.11	ppb	0.5552	0.0	3941.45
K 766.491	3839.01	ppb	4.8604	0.1	255177
Mg 279.078	9386.16	ppb	3.1809	0.0	20508.6
Mn 257.610	92.3487	ppb	0.0984	0.1	21654.4
Mo 202.032	-0.5044	ppb	0.3371	66.8	10.5165
Na 330.237	53514.2	ppb	103.613	0.2	2891.82
Ni 231.604	1.2526	ppb	1.2338	98.5	4.1493
Pb 220.353	0.8582	ppb	2.3527	274.1	2.3569
Sb 206.834	-2.1559	ppb	1.4626	67.8	-0.5181
Se 196.026	4.4960	ppb	1.8128	40.3	1.4922
Sn 189.925	-0.2194	ppb	2.8303	1290.1	0.6456
Sr 216.596	110.527	ppb	0.3921	0.4	1313.46
Ti 334.941	1.7321	ppb	0.0866	5.0	571.256
Tl 190.794	-2.9069	ppb	1.2713	43.7	-2.1274
V 292.401	-0.2908	ppb	0.2874	98.8	-5.9158
Zn 206.200	7.3366	ppb	1.4472	19.7	9.0778

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88400-c-3-a (Samp) 3/19/2013, 11:43:17 PM Rack 2, Tube 28

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4474u	-0.5427u	-0.6373u
Al 308.215	26.6962	26.0159	26.4674
As 188.980	1.5134	2.1014	1.9440
B 249.678	27.2000	27.2435	26.9595
Ba 389.178	128.255	126.927	127.452
Be 313.042	-0.0932u	-0.0776u	-0.0911u
Ca 370.602	129857	128734	128975
Cd 226.502	0.0314	-0.0476u	0.1371
Co 228.615	1.3556	1.4424	0.7494
Cr 267.716	1.0108	0.8861	0.8538
Cu 324.754	-0.6850u	-0.9050u	-0.5483u
Fe 271.441	257.641	259.695	266.321
K 766.491	10551.4	10500.0	10506.1
Mg 279.078	35069.9	34940.7	34963.5
Mn 257.610	324.985	323.928	324.343
Mo 202.032	-0.3843u	0.0563	-0.6594u
Na 330.237	88584.8	88803.2	88801.6
Ni 231.604	0.6523	2.0337	1.5743
Pb 220.353	0.9727	1.0047	-2.2534u
Sb 206.834	-2.6921u	-1.8947u	-0.5168u
Se 196.026	-1.7140u	0.9571	-1.9125u
Sn 189.925	-1.2609u	-2.3695u	-3.6145u
Sr 216.596	333.686	332.291	334.025
Ti 334.941	-0.0365	-0.0092	-0.0397
Tl 190.794	-0.3028u	2.8416	3.3044
V 292.401	-0.5133u	-0.5349u	-0.8596u
Zn 206.200	2.3222	2.9691	3.4910

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5424b	ppb	0.0949	17.5	-116.675
Al 308.215	26.3931b	ppb	0.3462	1.3	427.058
As 188.980	1.8529b	ppb	0.3044	16.4	1.8001
B 249.678	27.1343b	ppb	0.1530	0.6	354.106
Ba 389.178	127.544b	ppb	0.6687	0.5	3535.15
Be 313.042	-0.0873b	ppb	0.0085	9.7	-286.243
Ca 370.602	129188b	ppb	591.2	0.5	511995
Cd 226.502	0.0403b	ppb	0.0927	230.0	10.3913
Co 228.615	1.1824b	ppb	0.3776	31.9	28.5521
Cr 267.716	0.9169b	ppb	0.0829	9.0	43.8864
Cu 324.754	-0.7128b	ppb	0.1800	25.2	133.389
Fe 271.441	261.219b	ppb	4.5363	1.7	446.629
K 766.491	10519.1b	ppb	28.0692	0.3	698739
Mg 279.078	34991.4b	ppb	68.9708	0.2	76409.7
Mn 257.610	324.419b	ppb	0.5325	0.2	75924.2
Mo 202.032	-0.3291b	ppb	0.3610	109.7	11.9905
Na 330.237	88729.9b	ppb	125.669	0.1	4797.46
Ni 231.604	1.4201b	ppb	0.7035	49.5	4.5466
Pb 220.353	-0.0920b	ppb	1.8719	2034.7	0.7148
Sb 206.834	-1.7012b	ppb	1.1005	64.7	-0.0890
Se 196.026	-0.8898b	ppb	1.6025	180.1	-1.2585
Sn 189.925	-2.4149b	ppb	1.1775	48.8	-1.5153
Sr 216.596	333.334b	ppb	0.9188	0.3	3943.47
Ti 334.941	-0.0285b	ppb	0.0168	58.8	133.497
Tl 190.794	1.9477b	ppb	1.9627	100.8	1.5510
V 292.401	-0.6359b	ppb	0.1940	30.5	-16.5550
Zn 206.200	2.9274b	ppb	0.5855	20.0	3.5311

E03192013.wvq. All Data Report 3/20/2013, 1:33:49 PM

680-88279-a-1-a (Samp) 3/19/2013, 11:48:42 PM Rack 2, Tube 29

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.2200u	-1.1909u	-0.0288u
Al 308.215	487.206	486.083	482.114
As 188.980	-6.7595u	4.5884	-1.2478u
B 249.678	12.9706	11.8807	11.0832
Ba 389.178	84.3183	84.0463	83.7302
Be 313.042	0.8747	0.8690	0.8734
Ca 370.602	4937	4960	4923
Cd 226.502	0.2264	0.4912	0.4121
Co 228.615	24.1325	23.6466	24.5365
Cr 267.716	0.2748	0.2850	0.0136
Cu 324.754	136.738	136.121	135.690
Fe 271.441	4406.91	4413.14	4386.75
K 766.491	1607.26	1605.76	1598.51
Mg 279.078	2740.30	2742.40	2734.20
Mn 257.610	335.910	336.507	334.443
Mo 202.032	-0.5921u	-0.8045u	-0.9492u
Na 330.237	18495.5	18473.9	18322.1
Ni 231.604	8.8057	9.9572	8.2810
Pb 220.353	0.4890	1.7740	-0.6849u
Sb 206.834	-4.0943u	1.0100	2.1496
Se 196.026	-5.0977u	1.4431	-0.0320
Sn 189.925	-0.9122u	0.3937	-1.7333u
Sr 216.596	45.0485	45.5045	45.4483
Ti 334.941	-0.1516u	-0.1831u	-0.2081u
Tl 190.794	-5.3288u	-2.8123u	-2.3747u
V 292.401	-0.3170u	0.3552	0.3676
Zn 206.200	84.9395	86.8609	86.1617

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8132	ppb	0.6795	83.6	-122.919
Al 308.215	485.134	ppb	2.6753	0.6	3124.98
As 188.980	-1.1396	ppb	5.6747	497.9	-0.8785
B 249.678	11.9782	ppb	0.9475	7.9	215.201
Ba 389.178	84.0316	ppb	0.2943	0.4	2261.37
Be 313.042	0.8724	ppb	0.0030	0.3	1746.89
Ca 370.602	4940	ppb	18.79	0.4	19160
Cd 226.502	0.3766	ppb	0.1359	36.1	34.3645
Co 228.615	24.1052	ppb	0.4456	1.8	321.317
Cr 267.716	0.1911	ppb	0.1539	80.5	9.0148
Cu 324.754	136.183	ppb	0.5265	0.4	7627.31
Fe 271.441	4402.27	ppb	13.7949	0.3	7472.49
K 766.491	1603.84	ppb	4.6792	0.3	106763
Mg 279.078	2738.97	ppb	4.2615	0.2	5991.63
Mn 257.610	335.620	ppb	1.0617	0.3	78326.1
Mo 202.032	-0.7819	ppb	0.1796	23.0	8.2473
Na 330.237	18430.5	ppb	94.5198	0.5	992.760
Ni 231.604	9.0146	ppb	0.8574	9.5	24.5772
Pb 220.353	0.5260	ppb	1.2299	233.8	1.8053
Sb 206.834	-0.3116	ppb	3.3252	1067.2	1.4542
Se 196.026	-1.2289	ppb	3.4307	279.2	-1.4067
Sn 189.925	-0.7506	ppb	1.0727	142.9	0.0768
Sr 216.596	45.3338	ppb	0.2487	0.5	544.089
Ti 334.941	-0.1809	ppb	0.0283	15.6	-76.1447
Tl 190.794	-3.5053	ppb	1.5943	45.5	-2.9617
V 292.401	0.1353	ppb	0.3918	289.6	7.3788
Zn 206.200	85.9874	ppb	0.9725	1.1	4107.991

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88344-f-2-a (Samp) 3/19/2013, 11:54:08 PM Rack 2, Tube 30

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2922	-0.5056u	-0.2801u
Al 308.215	8718.25	8724.62	8731.44
As 188.980	-1.0091u	0.9221	-0.1825u
B 249.678	256.776	260.997	261.648
Ba 389.178	82.7608	83.6255	83.1976
Be 313.042	0.7561	0.7579	0.7636
Ca 370.602	10882	10895	10908
Cd 226.502	0.5448	0.3657	0.4285
Co 228.615	8.0754	7.7670	7.8839
Cr 267.716	11.4944	11.3509	11.3336
Cu 324.754	15.3007	15.2813	15.4344
Fe 271.441	14173.7	14184.3	14215.2
K 766.491	5443.54	5426.89	5410.73
Mg 279.078	5798.21	5816.00	5818.92
Mn 257.610	193.441	193.888	194.210
Mo 202.032	0.1418	0.0219u	-0.1310u
Na 330.237	42277.4	42196.4	42153.5
Ni 231.604	10.4836	12.1843	11.8699
Pb 220.353	19.9501	22.9664	16.3172
Sb 206.834	-3.1337u	4.2461	0.1969
Se 196.026	11.0497	8.2045	11.1887
Sn 189.925	2.3433	0.6811	-1.2305u
Sr 216.596	88.8604	89.8057	88.8862
Ti 334.941	127.217	126.179	126.861
Tl 190.794	-3.3774u	-0.5592u	-0.3921u
V 292.401	23.4192	23.6446	23.2859
Zn 206.200	98.9927	95.3928	100.638

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1645	ppb	0.4113	250.1	-76.3710
Al 308.215	8724.77	ppb	6.6008	0.1	51584.1
As 188.980	-0.0898	ppb	0.9690	1078.7	-0.3319
B 249.678	259.807	ppb	2.6450	1.0	2417.69
Ba 389.178	83.1946	ppb	0.4324	0.5	2264.30
Be 313.042	0.7592	ppb	0.0039	0.5	1501.25
Ca 370.602	10895	ppb	13.24	0.1	41799
Cd 226.502	0.4463	ppb	0.0909	20.4	62.2096
Co 228.615	7.9088	ppb	0.1557	2.0	117.689
Cr 267.716	11.3929	ppb	0.0883	0.8	545.880
Cu 324.754	15.3388	ppb	0.0833	0.5	1016.15
Fe 271.441	14191.1	ppb	21.5940	0.2	24070.0
K 766.491	5427.05	ppb	16.4083	0.3	360624
Mg 279.078	5811.04	ppb	11.2086	0.2	12700.7
Mn 257.610	193.846	ppb	0.3862	0.2	45323.6
Mo 202.032	0.0109	ppb	0.1368	1253.6	13.8403
Na 330.237	42209.1	ppb	62.9348	0.1	2274.82
Ni 231.604	11.5126	ppb	0.9049	7.9	31.3426
Pb 220.353	19.7445	ppb	3.3294	16.9	35.8842
Sb 206.834	0.4364	ppb	3.6957	846.9	2.5695
Se 196.026	10.1476	ppb	1.6843	16.6	4.5278
Sn 189.925	0.5980	ppb	1.7883	299.1	1.4559
Sr 216.596	89.1841	ppb	0.5385	0.6	1064.80
Ti 334.941	126.752	ppb	0.5278	0.4	40833.3
Tl 190.794	-1.4429	ppb	1.6774	116.2	-1.5503
V 292.401	23.4499	ppb	0.1813	0.8	723.204
Zn 206.200	98.3411	ppb	2.6825	2.7	436.499

E03192013.wvq. All Data Report 3/20/2013, 1:33:49 PM

680-88344-f-3-a (Samp) 3/19/2013, 11:59:33 PM Rack 2, Tube 31
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1365u	-0.4653u	-0.1901u
Al 308.215	276.790	275.051	275.705
As 188.980	-2.9080u	-6.3840u	0.1788
B 249.678	45.4135	46.5093	46.2159
Ba 389.178	40.6869	40.8007	41.4094
Be 313.042	-0.0747u	-0.0740u	-0.0822u
Ca 370.602	140236	139464	140279
Cd 226.502	0.2646	0.1563	0.0349
Co 228.615	0.1881	0.5128	0.6488
Cr 267.716	0.4989	0.6296	0.2166
Cu 324.754	0.7581	0.3260	0.6510
Fe 271.441	1114.02	1105.33	1117.18
K 766.491	2966.81	2973.53	2966.65
Mg 279.078	32017.3	31977.0	32122.9
Mn 257.610	17.1387	17.1772	17.1801
Mo 202.032	0.1263	0.2818	0.2133
Na 330.237	35659.2	35443.6	35718.4
Ni 231.604	0.3386	-0.3540u	1.7045
Pb 220.353	3.2682	-1.9584u	-0.1816u
Sb 206.834	-1.1341u	-4.2180u	-6.4912u
Se 196.026	2.8103	6.1251	5.6149
Sn 189.925	-2.4855u	-6.2990u	-3.1718u
Sr 216.596	439.824	435.248	438.943
Ti 334.941	4.3140	4.1412	4.7800
Tl 190.794	2.1418	-3.2794u	0.5826
V 292.401	0.0364	0.4256	0.2559
Zn 206.200	4.8817	5.7986	3.2002

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2640	ppb	0.1764	66.8	-101.814
Al 308.215	275.849	ppb	0.8784	0.3	1894.19
As 188.980	-3.0378	ppb	3.2833	108.1	-0.8781
B 249.678	46.0462	ppb	0.5672	1.2	522.078
Ba 389.178	40.9657	ppb	0.3885	0.9	1175.75
Be 313.042	-0.0770	ppb	0.0045	5.9	-252.163
Ca 370.602	139993	ppb	458.5	0.3	554719
Cd 226.502	0.1519	ppb	0.1150	75.7	17.2701
Co 228.615	0.4499	ppb	0.2367	52.6	19.2701
Cr 267.716	0.4483	ppb	0.2111	47.1	19.4704
Cu 324.754	0.5784	ppb	0.2251	38.9	204.327
Fe 271.441	1112.18	ppb	6.1345	0.6	1889.58
K 766.491	2968.99	ppb	3.9297	0.1	197409
Mg 279.078	32039.1	ppb	75.3196	0.2	69968.9
Mn 257.610	17.1653	ppb	0.0231	0.1	4279.60
Mo 202.032	0.2072	ppb	0.0779	37.6	16.1127
Na 330.237	35607.1	ppb	144.606	0.4	1923.53
Ni 231.604	0.5630	ppb	1.0474	186.0	2.3133
Pb 220.353	0.3761	ppb	2.6576	706.7	1.4724
Sb 206.834	-3.9477	ppb	2.6887	68.1	-2.4085
Se 196.026	4.8501	ppb	1.7849	36.8	1.6494
Sn 189.925	-3.9854	ppb	2.0328	51.0	-3.1236
Sr 216.596	438.005	ppb	2.4278	0.6	5176.12
Ti 334.941	4.4117	ppb	0.3304	7.5	1553.28
Tl 190.794	-0.1850	ppb	2.7909	1508.7	0.1762
V 292.401	0.2393	ppb	0.1952	81.5	10.7741
Zn 206.200	4.6268	ppb	1.3178	28.5	456699

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88344-f-4-a (Samp) 3/20/2013, 12:04:58 AM Rack 2, Tube 32

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5113u	0.2042	-0.0942u
Al 308.215	279.968	278.296	280.159
As 188.980	4.5989	-6.3783u	1.5550
B 249.678	-0.2909u	0.3542	-0.2506u
Ba 389.178	636.280	634.093	633.445
Be 313.042	0.5236	0.5252	0.5224
Ca 370.602	9707	9657	9666
Cd 226.502	-0.1651u	0.0159	-0.1676u
Co 228.615	3.1182	2.7680	2.4611
Cr 267.716	0.7949	0.6395	0.8056
Cu 324.754	0.8749	0.9980	0.4035
Fe 271.441	1654.40	1636.01	1640.17
K 766.491	7045.36	7026.52	7027.29
Mg 279.078	6269.69	6244.96	6241.08
Mn 257.610	431.678	429.794	430.242
Mo 202.032	1.3608	1.5036	1.4691
Na 330.237	5772.61	5721.64	5926.67
Ni 231.604	0.4034	1.2120	0.8076
Pb 220.353	-0.0392u	-0.3052u	-0.9743u
Sb 206.834	-5.0245u	-2.7177u	-2.4991u
Se 196.026	-4.8448u	6.6018	0.9184
Sn 189.925	-1.2232u	0.4483	-1.1271u
Sr 216.596	90.3493	90.0749	89.2668
Ti 334.941	37.1034	36.8973	36.7681
Tl 190.794	0.3247u	2.2615	-2.3709u
V 292.401	1.2559	1.2900	0.9378
Zn 206.200	4.4076	1.5495	3.7209

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1338	ppb	0.3594	268.7	-73.0483
Al 308.215	279.474	ppb	1.0247	0.4	1915.70
As 188.980	-0.0748	ppb	5.6672	7574.0	-0.2180
B 249.678	-0.0624	ppb	0.3614	578.7	110.221
Ba 389.178	634.606	ppb	1.4856	0.2	17222.1
Be 313.042	0.5238	ppb	0.0014	0.3	996.821
Ca 370.602	9677	ppb	26.64	0.3	38221
Cd 226.502	-0.1056	ppb	0.1053	99.7	8.2731
Co 228.615	2.7824	ppb	0.3288	11.8	49.9406
Cr 267.716	0.7467	ppb	0.0930	12.5	35.1406
Cu 324.754	0.7588	ppb	0.3137	41.3	214.410
Fe 271.441	1643.53	ppb	9.6446	0.6	2791.02
K 766.491	7033.06	ppb	10.6655	0.2	467262
Mg 279.078	6251.91	ppb	15.5170	0.2	13659.6
Mn 257.610	430.571	ppb	0.9844	0.2	100478
Mo 202.032	1.4445	ppb	0.0745	5.2	25.7016
Na 330.237	5806.97	ppb	106.746	1.8	311.111
Ni 231.604	0.8077	ppb	0.4043	50.1	2.9670
Pb 220.353	-0.4396	ppb	0.4818	109.6	0.0887
Sb 206.834	-3.4138	ppb	1.3992	41.0	-1.8531
Se 196.026	0.8918	ppb	5.7233	641.8	-0.2971
Sn 189.925	-0.6340	ppb	0.9385	148.0	0.1920
Sr 216.596	89.8970	ppb	0.5627	0.6	1067.58
Ti 334.941	36.9229	ppb	0.1691	0.5	11896.5
Tl 190.794	0.0717	ppb	2.3265	3242.7	-0.1211
V 292.401	1.1612	ppb	0.1943	16.7	39.1558
Zn 206.200	3.2260	ppb	1.4919	46.3	39069

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88344-f-5-a (Samp) 3/20/2013, 12:10:24 AM Rack 2, Tube 33

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8639u	-0.2692u	-0.5200u
Al 308.215	1147.19	1136.91	1147.04
As 188.980	-2.3762u	-0.5223u	0.0094
B 249.678	-3.6153u	-3.2350u	-4.0246u
Ba 389.178	241.382	239.429	240.747
Be 313.042	-0.0404u	-0.0397u	-0.0417u
Ca 370.602	24988	24961	24948
Cd 226.502	0.0338	-0.1606	-0.1213
Co 228.615	2.9406	2.8072	2.7843
Cr 267.716	3.9593	3.0802	3.7988
Cu 324.754	0.8449	0.7834	0.9657
Fe 271.441	14140.8	14122.1	14121.6
K 766.491	5381.14	5380.80	5383.75
Mg 279.078	17428.8	17422.1	17408.4
Mn 257.610	2306.42	2305.14	2301.09
Mo 202.032	0.2183	0.7104	-0.0851u
Na 330.237	42949.9	42653.1	42934.7
Ni 231.604	1.8356	0.0529	1.4875
Pb 220.353	1.1662	2.7378	1.8864
Sb 206.834	-3.6728u	-0.1850	0.8595
Se 196.026	-6.2310u	3.4099	-3.1981u
Sn 189.925	-1.4556u	-3.6848u	-3.0067u
Sr 216.596	88.2440	87.4528	89.1559
Ti 334.941	29.7745	30.9555	33.1345
Tl 190.794	8.5518	4.4274	5.4667
V 292.401	2.3124	2.1509	1.9976
Zn 206.200	3.7854	4.7294	4.9012

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5510	ppb	0.2986	54.2	-96.2245
Al 308.215	1143.71	ppb	5.8939	0.5	6998.33
As 188.980	-0.9630	ppb	1.2523	130.0	-0.7146
B 249.678	-3.6249	ppb	0.3949	10.9	67.3849
Ba 389.178	240.519	ppb	0.9963	0.4	6572.84
Be 313.042	-0.0406	ppb	0.0011	2.6	-220.920
Ca 370.602	24966	ppb	20.38	0.1	97621
Cd 226.502	-0.0827	ppb	0.1028	124.3	41.2131
Co 228.615	2.8440	ppb	0.0844	3.0	50.1559
Cr 267.716	3.6128	ppb	0.4682	13.0	183.526
Cu 324.754	0.8646	ppb	0.0927	10.7	224.181
Fe 271.441	14128.2	ppb	10.9291	0.1	23962.3
K 766.491	5381.90	ppb	1.6159	0.0	357626
Mg 279.078	17419.8	ppb	10.3990	0.1	38014.1
Mn 257.610	2304.22	ppb	2.7851	0.1	537373
Mo 202.032	0.2812	ppb	0.4015	142.8	15.9885
Na 330.237	42845.9	ppb	167.144	0.4	2310.81
Ni 231.604	1.1253	ppb	0.9450	84.0	4.0591
Pb 220.353	1.9301	ppb	0.7867	40.8	4.7456
Sb 206.834	-0.9994	ppb	2.3734	237.5	0.9868
Se 196.026	-2.0064	ppb	4.9297	245.7	-1.2407
Sn 189.925	-2.7157	ppb	1.1427	42.1	-1.8934
Sr 216.596	88.2842	ppb	0.8523	1.0	1055.91
Ti 334.941	31.2882	ppb	1.7045	5.4	10137.5
Tl 190.794	6.1486	ppb	2.1451	34.9	2.0285
V 292.401	2.1536	ppb	0.1574	7.3	69.3693
Zn 206.200	4.4720	ppb	0.6998	13.4	5.4665

mb 680-269805/1-a (Samp) 3/20/2013, 12:15:49 AM Rack 2, Tube 34

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1126u	-0.2257u	0.2355
Al 308.215	-2.0794u	0.3696	1.4848
As 188.980	2.7469	-6.8505u	-0.2908u
B 249.678	-3.1870u	-3.4159u	-2.9304u
Ba 389.178	1.0186	-0.3924u	0.8629
Be 313.042	-0.0595u	-0.0582u	-0.0529u
Ca 370.602	2.840	5.860	6.479
Cd 226.502	-0.1119u	-0.0725u	0.0160
Co 228.615	-0.1408u	-0.2640u	-0.2674u
Cr 267.716	-0.0511u	-0.0204u	0.1590
Cu 324.754	-1.2955u	-0.8803u	-0.5100u
Fe 271.441	2.4668	-3.4928u	2.5651
K 766.491	1.3005	1.0935	1.3231
Mg 279.078	5.7577	4.9317	4.0019
Mn 257.610	0.3272	0.3218	0.2221
Mo 202.032	-0.8460u	-0.9590u	-0.7727u
Na 330.237	4.2192	78.4243	210.662
Ni 231.604	0.4754	-0.1616u	0.3065
Pb 220.353	-0.2102u	-1.2359u	1.2093
Sb 206.834	-2.5309u	-1.3508u	-2.7497u
Se 196.026	-6.8876u	11.3025	2.4470
Sn 189.925	-1.6386u	1.6170	1.0991
Sr 216.596	-0.3266u	0.1356	0.4389
Ti 334.941	-0.1589u	-0.1927u	-0.2449u
Tl 190.794	-0.2442u	-4.5169u	0.3543
V 292.401	-0.2475u	0.0096	-0.6006u
Zn 206.200	2.0829	2.4072	4.1263

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0343	ppb	0.2404	701.2	-63.1962
Al 308.215	-0.0750	ppb	1.8232	2431.0	271.272
As 188.980	-1.4648	ppb	4.9053	334.9	-1.0589
B 249.678	-3.1778	ppb	0.2429	7.6	83.8732
Ba 389.178	0.4964	ppb	0.7736	155.8	-23.2382
Be 313.042	-0.0569	ppb	0.0035	6.1	-257.932
Ca 370.602	5.059	ppb	1.947	38.5	33.10
Cd 226.502	-0.0561	ppb	0.0655	116.7	5.9500
Co 228.615	-0.2240	ppb	0.0721	32.2	10.5884
Cr 267.716	0.0292	ppb	0.1135	388.8	-1.4973
Cu 324.754	-0.8953	ppb	0.3930	43.9	123.286
Fe 271.441	0.5130	ppb	3.4695	676.3	4.3819
K 766.491	1.2391	ppb	0.1265	10.2	349.933
Mg 279.078	4.8971	ppb	0.8784	17.9	27.0492
Mn 257.610	0.2904	ppb	0.0592	20.4	123.347
Mo 202.032	-0.8593	ppb	0.0939	10.9	7.8821
Na 330.237	97.7684	ppb	104.572	107.0	3.1067
Ni 231.604	0.2068	ppb	0.3300	159.6	1.3547
Pb 220.353	-0.0789	ppb	1.2279	1555.5	0.6653
Sb 206.834	-2.2105	ppb	0.7525	34.0	-0.6202
Se 196.026	2.2873	ppb	9.0961	397.7	0.3064
Sn 189.925	0.3591	ppb	1.7494	487.1	1.1907
Sr 216.596	0.0826	ppb	0.3855	466.6	9.5511
Ti 334.941	-0.1989	ppb	0.0433	21.8	-95.0725
Tl 190.794	-1.4689	ppb	2.6565	180.8	-0.7804
V 292.401	-0.2795	ppb	0.3064	109.6	-5.0897
Zn 206.200	2.8721	ppb	1.0982	38.2	3.4638

ics 680-269805/2-a (Samp) 3/20/2013, 12:21:15 AM Rack 2, Tube 35
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	50.8586	51.1906	50.6623
Al 308.215	4876.95	4844.46	4926.51
As 188.980	78.3537	90.2134	87.6878
B 249.678	197.849	198.751	201.017
Ba 389.178	100.606	100.649	101.230
Be 313.042	50.3934	50.1318	50.6262
Ca 370.602	4946	4910	4973
Cd 226.502	51.9729	51.4331	52.1469
Co 228.615	51.0545	51.5230	51.7635
Cr 267.716	101.493	100.965	101.529
Cu 324.754	100.375	99.2151	100.803
Fe 271.441	5056.97	5041.34	5074.86
K 766.491	5272.90	5252.29	5303.25
Mg 279.078	5087.75	5054.38	5109.50
Mn 257.610	528.230	524.848	529.524
Mo 202.032	97.0974	97.0704	97.5853
Na 330.237	4510.85	4437.32	4354.09
Ni 231.604	101.048	101.270	101.743
Pb 220.353	51.6875	51.7573	52.9970
Sb 206.834	34.3471	29.4254	34.8068
Se 196.026	90.1486	102.434	90.0869
Sn 189.925	29.6144	30.9626	35.8965
Sr 216.596	100.979	100.305	101.396
Ti 334.941	93.2886	92.8868	93.7856
Tl 190.794	43.4731	40.4895	42.6344
V 292.401	102.485	101.827	103.093
Zn 206.200	108.101	105.610	107.583

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.9038	ppb	0.2670	0.5	3797.51
Al 308.215	4882.64	ppb	41.3167	0.8	28999.3
As 188.980	85.4183	ppb	6.2471	7.3	47.8070
B 249.678	199.205	ppb	1.6319	0.8	1885.06
Ba 389.178	100.828	ppb	0.3485	0.3	2726.73
Be 313.042	50.3838	ppb	0.2474	0.5	108596
Ca 370.602	4943	ppb	32.02	0.6	19133
Cd 226.502	51.8510	ppb	0.3722	0.7	2078.07
Co 228.615	51.4470	ppb	0.3606	0.7	670.126
Cr 267.716	101.329	ppb	0.3157	0.3	4835.87
Cu 324.754	100.131	ppb	0.8216	0.8	5656.14
Fe 271.441	5057.72	ppb	16.7715	0.3	8589.12
K 766.491	5276.15	ppb	25.6329	0.5	350604
Mg 279.078	5083.88	ppb	27.7626	0.5	11107.0
Mn 257.610	527.534	ppb	2.4147	0.5	123083
Mo 202.032	97.2511	ppb	0.2898	0.3	770.163
Na 330.237	4434.09	ppb	78.4337	1.8	234.494
Ni 231.604	101.353	ppb	0.3551	0.4	267.095
Pb 220.353	52.1472	ppb	0.7367	1.4	93.8044
Sb 206.834	32.8598	ppb	2.9831	9.1	35.9426
Se 196.026	94.2232	ppb	7.1108	7.5	48.2435
Sn 189.925	32.1578	ppb	3.3072	10.3	33.4070
Sr 216.596	100.893	ppb	0.5507	0.5	1192.26
Ti 334.941	93.3203	ppb	0.4502	0.5	30060.7
Tl 190.794	42.1990	ppb	1.5387	3.6	33.1998
V 292.401	102.468	ppb	0.6328	0.6	3117.54
Zn 206.200	107.098	ppb	1.3144	1.2	134.288

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

Icsd 680-269805/3-a (Samp) 3/20/2013, 12:26:42 AM Rack 2, Tube 36

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	50.7184	51.3321	50.6815
Al 308.215	4897.35	4880.43	4883.35
As 188.980	127.104	117.116	130.195
B 249.678	199.547	202.530	201.186
Ba 389.178	100.064	102.118	99.9632
Be 313.042	50.2855	50.5466	50.1101
Ca 370.602	4907	4944	4890
Cd 226.502	51.6913	52.1373	51.4018
Co 228.615	51.6974	51.5011	51.1563
Cr 267.716	100.948	101.625	100.758
Cu 324.754	97.6923	99.6914	99.4455
Fe 271.441	5091.65	5110.97	5063.42
K 766.491	5239.59	5266.03	5209.11
Mg 279.078	5069.88	5087.49	5053.97
Mn 257.610	527.366	530.191	525.196
Mo 202.032	98.4973	99.2661	98.3192
Na 330.237	4503.50	4244.24	4351.12
Ni 231.604	100.847	100.608	101.221
Pb 220.353	51.4575	50.2376	48.5726
Sb 206.834	47.7288	53.7586	54.9495
Se 196.026	98.3643	107.236	110.935
Sn 189.925	118.295	122.566	120.211
Sr 216.596	100.154	99.9653	99.6728
Ti 334.941	102.167	102.795	102.011
Tl 190.794	46.2833	40.5750	39.1186
V 292.401	101.638	103.031	101.713
Zn 206.200	106.825	109.056	104.605

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.9107	ppb	0.3654	0.7	3798.03
Al 308.215	4887.04	ppb	9.0469	0.2	29025.5
As 188.980	124.805	ppb	6.8355	5.5	69.9736
B 249.678	201.087	ppb	1.4939	0.7	1901.84
Ba 389.178	100.715	ppb	1.2162	1.2	2723.66
Be 313.042	50.3141	ppb	0.2196	0.4	108445
Ca 370.602	4914	ppb	27.77	0.6	19017
Cd 226.502	51.7434	ppb	0.3705	0.7	2073.85
Co 228.615	51.4516	ppb	0.2739	0.5	670.306
Cr 267.716	101.110	ppb	0.4558	0.5	4825.46
Cu 324.754	98.9431	ppb	1.0901	1.1	5591.20
Fe 271.441	5088.68	ppb	23.9148	0.5	8641.71
K 766.491	5238.24	ppb	28.4832	0.5	348087
Mg 279.078	5070.45	ppb	16.7657	0.3	11077.7
Mn 257.610	527.584	ppb	2.5050	0.5	123095
Mo 202.032	98.6942	ppb	0.5032	0.5	781.382
Na 330.237	4366.29	ppb	130.296	3.0	230.750
Ni 231.604	100.892	ppb	0.3090	0.3	265.884
Pb 220.353	50.0893	ppb	1.4482	2.9	90.1179
Sb 206.834	52.1456	ppb	3.8712	7.4	55.9334
Se 196.026	105.512	ppb	6.4602	6.1	54.1091
Sn 189.925	120.358	ppb	2.1392	1.8	122.753
Sr 216.596	99.9308	ppb	0.2426	0.2	1180.87
Ti 334.941	102.324	ppb	0.4151	0.4	32961.4
Tl 190.794	41.9923	ppb	3.7868	9.0	33.0340
V 292.401	102.127	ppb	0.7838	0.8	3106.79
Zn 206.200	106.828	ppb	2.2255	2.1	133.949

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

Cont Calib Verif (CCV) 3/20/2013, 12:32:07 AM Rack 2, Tube 37
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	492.107	494.538	495.508
Al 308.215	4966.47	4937.65	4982.87
As 188.980	479.286	490.234	485.672
B 249.678	2513.15	2543.26	2546.05
Ba 389.178	4834.27	4847.66	4853.41
Be 313.042	483.789	485.193	485.903
Ca 370.602	4848	4872	4871
Cd 226.502	490.003	491.797	492.025
Co 228.615	494.076	496.474	497.202
Cr 267.716	4810.82	4829.84	4831.82
Cu 324.754	4761.18	4836.30	4792.79
Fe 271.441	5014.04	5034.93	5038.34
K 766.491	9737.15	9760.44	9766.81
Mg 279.078	4886.20	4917.06	4920.51
Mn 257.610	4944.24	4955.31	4961.13
Mo 202.032	482.123	486.516	486.836
Na 330.237	7173.65	7460.39	7437.86
Ni 231.604	2458.82	2469.30	2466.75
Pb 220.353	495.263	496.735	491.481
Sb 206.834	944.035	937.406	940.661
Se 196.026	4772.69	4807.11	4798.46
Sn 189.925	4960.97	5010.29	4981.29
Sr 216.596	2370.71	2378.32	2384.07
Ti 334.941	470.018	472.406	472.946
Tl 190.794	4947.87	4965.57	4949.85
V 292.401	4883.92	4886.05	4898.18
Zn 206.200	2505.31	2513.13	2508.14

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	494.051	ppb	1.7524	0.4	37341.8	98.81021
Al 308.215	4962.33	ppb	22.8939	0.5	29433.8	99.24657
As 188.980	485.064	ppb	5.4995	1.1	272.637	97.01283
B 249.678	2534.15	ppb	18.2394	0.7	22717.7	101.36608
Ba 389.178	4845.12	ppb	9.8204	0.2	131603	96.90231
Be 313.042	484.962	ppb	1.0758	0.2	1046343	96.99239
Ca 370.602	4864	ppb	13.62	0.3	19118	97.27344
Cd 226.502	491.275	ppb	1.1074	0.2	19508.8	98.25507
Co 228.615	495.917	ppb	1.6357	0.3	6359.92	99.18343
Cr 267.716	4824.16	ppb	11.5965	0.2	230228	96.48318
Cu 324.754	4796.76	ppb	37.7186	0.8	262672	95.93517
Fe 271.441	5029.10	ppb	13.1584	0.3	8652.50	100.58209
K 766.491	9754.80	ppb	15.6171	0.2	647986	97.54800
Mg 279.078	4907.92	ppb	18.8887	0.4	10649.5	98.15849
Mn 257.610	4953.56	ppb	8.5816	0.2	1154878	99.07118
Mo 202.032	485.159	ppb	2.6335	0.5	3776.26	97.03175
Na 330.237	7357.30	ppb	159.442	2.2	370.738	98.09736
Ni 231.604	2464.96	ppb	5.4646	0.2	6474.43	98.59825
Pb 220.353	494.493	ppb	2.7099	0.5	884.336	98.89858
Sb 206.834	940.701	ppb	3.3149	0.4	1025.11	94.07006
Se 196.026	4792.75	ppb	17.9061	0.4	2490.72	95.85505
Sn 189.925	4984.18	ppb	24.7861	0.5	5049.79	99.68362
Sr 216.596	2377.70	ppb	6.7015	0.3	27911.1	95.10786
Ti 334.941	471.790	ppb	1.5580	0.3	151990	94.35803
Tl 190.794	4954.43	ppb	9.6969	0.2	3941.67	99.08856
V 292.401	4889.38	ppb	7.6947	0.2	149441	97.78767
Zn 206.200	2508.86	ppb	3.9624	0.2	3142.99	100.35435

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

Cont Calib Blank (CCB) 3/20/2013, 12:37:33 AM Rack 2, Tube 38

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1449u	0.3584	0.5026
Al 308.215	0.4455	-1.9967u	0.0631
As 188.980	-0.4200u	-2.9004u	-6.1822u
B 249.678	15.1593	14.1522	10.6469
Ba 389.178	0.5996	1.5195	0.9509
Be 313.042	0.0008	0.0041	0.0267
Ca 370.602	-2.441u	-3.339u	2.602
Cd 226.502	-0.0874u	-0.0430u	0.1357
Co 228.615	0.4405	1.2379	-0.1166u
Cr 267.716	0.6121	0.4121	1.1172
Cu 324.754	0.1859	-0.5284u	0.6624
Fe 271.441	0.1358	-2.7657u	1.1417
K 766.491	0.4362	0.2301	1.4740
Mg 279.078	3.1384	0.6583	4.3705
Mn 257.610	0.5477	0.6166	0.9548
Mo 202.032	0.0205	-0.1826u	-0.0713u
Na 330.237	258.567	146.658	36.5257
Ni 231.604	0.6925	2.0935	0.0167
Pb 220.353	-2.6419u	1.3435	-2.4765u
Sb 206.834	6.8958	1.0124	2.6491
Se 196.026	1.2237	-0.7211u	5.0455
Sn 189.925	1.6061	2.2900	0.0496
Sr 216.596	-0.1566u	-0.4370u	0.6835
Ti 334.941	0.0607	-0.0248u	0.0437
Tl 190.794	4.5086	7.3756	-0.4773u
V 292.401	0.4581	0.4217	0.9693
Zn 206.200	-1.5604u	1.5997	0.4590

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2387	ppb	0.3400	142.4	-42.4800	0.23869
Al 308.215	-0.4960	ppb	1.3136	264.8	268.922	-0.49604
As 188.980	-3.1675	ppb	2.8903	91.2	-2.0175	-3.16752
B 249.678	13.3195	ppb	2.3687	17.8	231.066	13.31948
Ba 389.178	1.0234	ppb	0.4642	45.4	-8.9281	1.02337
Be 313.042	0.0105	ppb	0.0141	134.4	-112.724	0.01051
Ca 370.602	-1.059	ppb	3.202	302.3	9.209	-1.05944
Cd 226.502	0.0018	ppb	0.1181	6624.9	8.2388	0.00178
Co 228.615	0.5206	ppb	0.6808	130.8	20.0712	0.52062
Cr 267.716	0.7138	ppb	0.3634	50.9	31.1730	0.71379
Cu 324.754	0.1067	ppb	0.5994	561.9	178.147	0.10666
Fe 271.441	-0.4961	ppb	2.0289	409.0	2.7493	-0.49608
K 766.491	0.7134	ppb	0.6667	93.5	315.030	0.71341
Mg 279.078	2.7224	ppb	1.8907	69.5	22.2939	2.72240
Mn 257.610	0.7064	ppb	0.2179	30.8	220.302	0.70636
Mo 202.032	-0.0778	ppb	0.1017	130.8	13.9562	-0.07778
Na 330.237	147.251	ppb	111.022	75.4	5.8014	147.25052
Ni 231.604	0.9342	ppb	1.0593	113.4	3.2652	0.93425
Pb 220.353	-1.2583	ppb	2.2547	179.2	-1.4439	-1.25830
Sb 206.834	3.5191	ppb	3.0367	86.3	5.3153	3.51912
Se 196.026	1.8493	ppb	2.9338	158.6	0.0790	1.84934
Sn 189.925	1.3153	ppb	1.1481	87.3	2.1593	1.31525
Sr 216.596	0.0300	ppb	0.5831	1945.8	8.8689	0.02997
Ti 334.941	0.0265	ppb	0.0453	170.6	-22.4809	0.02653
Tl 190.794	3.8023	ppb	3.9738	104.5	3.4169	3.80229
V 292.401	0.6164	ppb	0.3062	49.7	22.0971	0.61639
Zn 206.200	0.1661	ppb	1.6003	1863.4	4.00589	0.16611

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

ics 680-269805/4-a (Samp) 3/20/2013, 12:42:59 AM Rack 2, Tube 39
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	197.725	180.941	181.135
Al 308.215	1928.00	1942.06	1940.79
As 188.980	217.102	215.023	213.396
B 249.678	397.031	401.606	404.876
Ba 389.178	196.000	194.957	195.715
Be 313.042	198.753	199.674	200.081
Ca 370.602	19258	19323	19408
Cd 226.502	198.973	200.335	200.837
Co 228.615	199.996	203.117	199.077
Cr 267.716	195.303	195.642	197.239
Cu 324.754	195.045	196.845	197.610
Fe 271.441	20702.3	20823.5	20812.7
K 766.491	20229.3	20240.5	20198.2
Mg 279.078	20039.9	20149.6	20220.7
Mn 257.610	2043.31	2054.72	2060.31
Mo 202.032	191.728	193.323	194.725
Na 330.237	17430.3	17853.6	17845.1
Ni 231.604	203.595	198.363	201.576
Pb 220.353	194.609	200.482	199.977
Sb 206.834	156.783	164.009	171.257
Se 196.026	185.418	196.542	196.423
Sn 189.925	179.851	188.215	188.401
Sr 216.596	205.951	206.498	207.050
Ti 334.941	194.411	195.196	196.015
Tl 190.794	48.5434	46.2200	45.9776
V 292.401	198.773	199.310	199.740
Zn 206.200	194.963	197.608	199.353

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	186.600	ppb	9.6348	5.2	14089.0
Al 308.215	1936.95	ppb	7.7758	0.4	11686.3
As 188.980	215.174	ppb	1.8575	0.9	120.777
B 249.678	401.171	ppb	3.9405	1.0	3673.13
Ba 389.178	195.557	ppb	0.5393	0.3	5372.55
Be 313.042	199.502	ppb	0.6805	0.3	430441
Ca 370.602	19330	ppb	75.41	0.4	74644
Cd 226.502	200.048	ppb	0.9643	0.5	7997.20
Co 228.615	200.730	ppb	2.1178	1.1	2576.86
Cr 267.716	196.061	ppb	1.0340	0.5	9365.77
Cu 324.754	196.500	ppb	1.3168	0.7	10937.6
Fe 271.441	20779.5	ppb	67.0576	0.3	35273.8
K 766.491	20222.7	ppb	21.8955	0.1	1343051
Mg 279.078	20136.7	ppb	91.0924	0.5	43951.4
Mn 257.610	2052.78	ppb	8.6650	0.4	478794
Mo 202.032	193.259	ppb	1.4994	0.8	1515.54
Na 330.237	17709.7	ppb	242.005	1.4	946.142
Ni 231.604	201.178	ppb	2.6386	1.3	529.578
Pb 220.353	198.356	ppb	3.2549	1.6	355.231
Sb 206.834	164.016	ppb	7.2369	4.4	173.194
Se 196.026	192.794	ppb	6.3883	3.3	99.9522
Sn 189.925	185.489	ppb	4.8839	2.6	188.744
Sr 216.596	206.500	ppb	0.5493	0.3	2437.24
Ti 334.941	195.207	ppb	0.8020	0.4	62964.1
Tl 190.794	46.9137	ppb	1.4166	3.0	34.6059
V 292.401	199.274	ppb	0.4844	0.2	6058.91
Zn 206.200	197.308	ppb	2.2102	1.1	247.501

E03192013.wvq. All Data Report 3/20/2013, 1:33:49 PM

icsd 680-269805/5-a (Samp) 3/20/2013, 12:48:24 AM Rack 2, Tube 40
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	171.624	172.590	172.696
Al 308.215	1911.05	1909.57	1910.70
As 188.980	215.581	210.294	210.759
B 249.678	393.641	395.217	398.120
Ba 389.178	193.189	192.002	193.727
Be 313.042	197.512	197.252	197.022
Ca 370.602	19168	19128	19069
Cd 226.502	198.131	198.176	197.841
Co 228.615	198.206	195.819	198.040
Cr 267.716	194.175	193.350	192.860
Cu 324.754	195.679	192.791	194.969
Fe 271.441	20410.6	20415.2	20417.2
K 766.491	20082.0	20049.0	20034.4
Mg 279.078	19929.1	19893.1	19910.5
Mn 257.610	2030.55	2027.30	2027.35
Mo 202.032	192.483	191.779	190.600
Na 330.237	17667.1	17660.8	17542.0
Ni 231.604	195.310	196.852	197.436
Pb 220.353	194.893	194.239	198.250
Sb 206.834	157.792	164.286	163.520
Se 196.026	185.475	191.859	197.115
Sn 189.925	178.915	186.973	184.805
Sr 216.596	206.455	205.586	205.277
Ti 334.941	193.557	192.923	192.265
Tl 190.794	45.2571	48.8204	47.4470
V 292.401	196.943	196.378	196.650
Zn 206.200	190.150	190.617	194.879

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	172.303	ppb	0.5908	0.3	13004.9
Al 308.215	1910.44	ppb	0.7726	0.0	11530.1
As 188.980	212.211	ppb	2.9275	1.4	119.112
B 249.678	395.659	ppb	2.2718	0.6	3624.25
Ba 389.178	192.973	ppb	0.8827	0.5	5301.06
Be 313.042	197.262	ppb	0.2454	0.1	425607
Ca 370.602	19122	ppb	49.44	0.3	73851
Cd 226.502	198.049	ppb	0.1822	0.1	7917.01
Co 228.615	197.355	ppb	1.3330	0.7	2533.74
Cr 267.716	193.462	ppb	0.6646	0.3	9241.56
Cu 324.754	194.480	ppb	1.5048	0.8	10826.9
Fe 271.441	20414.4	ppb	3.4077	0.0	34653.9
K 766.491	20055.1	ppb	24.3531	0.1	1331927
Mg 279.078	19910.9	ppb	17.9750	0.1	43458.6
Mn 257.610	2028.40	ppb	1.8593	0.1	473108
Mo 202.032	191.621	ppb	0.9515	0.5	1502.83
Na 330.237	17623.3	ppb	70.4852	0.4	941.642
Ni 231.604	196.533	ppb	1.0985	0.6	517.372
Pb 220.353	195.794	ppb	2.1519	1.1	350.654
Sb 206.834	161.866	ppb	3.5489	2.2	170.940
Se 196.026	191.483	ppb	5.8291	3.0	99.2624
Sn 189.925	183.564	ppb	4.1699	2.3	186.794
Sr 216.596	205.773	ppb	0.6103	0.3	2428.69
Ti 334.941	192.915	ppb	0.6459	0.3	62224.2
Tl 190.794	47.1748	ppb	1.7972	3.8	34.8541
V 292.401	196.657	ppb	0.2827	0.1	5979.36
Zn 206.200	191.882	ppb	2.6959	1.4	240.684

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88280-a-1-b (Samp) 3/20/2013, 12:53:50 AM Rack 2, Tube 41

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2913u	0.0657u	0.2532
Al 308.215	180.267	178.355	177.728
As 188.980	-1.7698u	-5.4324u	-0.2239
B 249.678	3610.36	3633.78	3657.43
Ba 389.178	51.5038	51.9915	51.4578
Be 313.042	-0.0023u	-0.0031u	-0.0073u
Ca 370.602	20478	20445	20389
Cd 226.502	46.7196	46.6588	46.3887
Co 228.615	3.2494	3.3173	3.1547
Cr 267.716	-0.2497u	-0.0754	0.1635
Cu 324.754	16.1071	16.1817	15.9172
Fe 271.441	23.5079	18.1782	21.6959
K 766.491	12231.3	12251.9	12281.4
Mg 279.078	837.818	841.704	838.463
Mn 257.610	7.9339	7.8817	7.9361
Mo 202.032	0.1675	-0.3118u	0.2272
Na 330.237	605068x	606619x	609431x
Ni 231.604	74.3891	76.8029	76.7806
Pb 220.353	-2.0412u	-0.3139u	-0.4397u
Sb 206.834	-2.5917u	-1.2160u	-1.0105u
Se 196.026	7.8424	13.5005	2.2477
Sn 189.925	-2.7899u	2.3766	-0.6896u
Sr 216.596	147.878	147.043	145.369
Ti 334.941	0.3424	0.2581	0.2389
Tl 190.794	-0.6127u	-1.6672u	5.9043
V 292.401	0.0398u	-0.3135u	-0.4050u
Zn 206.200	26.3679	24.8464	23.0166

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0092b	ppb	0.2766	3008.9	-66.7279
Al 308.215	178.783b	ppb	1.3224	0.7	1323.35
As 188.980	-2.4754b	ppb	2.6750	108.1	-1.4712
B 249.678	3633.86b	ppb	23.5349	0.6	32533.8
Ba 389.178	51.6511b	ppb	0.2958	0.6	1368.79
Be 313.042	-0.0042b	ppb	0.0027	63.8	-216.861
Ca 370.602	20437b	ppb	44.84	0.2	81008
Cd 226.502	46.5891b	ppb	0.1761	0.4	1852.71
Co 228.615	3.2405b	ppb	0.0817	2.5	54.8340
Cr 267.716	-0.0539b	ppb	0.2075	385.0	4.7789
Cu 324.754	16.0687b	ppb	0.1364	0.8	1051.80
Fe 271.441	21.1273b	ppb	2.7100	12.8	39.8075
K 766.491	12254.9b	ppb	25.2027	0.2	813990
Mg 279.078	839.328b	ppb	2.0826	0.2	1848.73
Mn 257.610	7.9172b	ppb	0.0308	0.4	1904.01
Mo 202.032	0.0276b	ppb	0.2955	1068.6	14.7768
Na 330.237	607039xb	ppb	2211.57	0.4	32834.7
Ni 231.604	75.9909b	ppb	1.3872	1.8	200.381
Pb 220.353	-0.9316b	ppb	0.9630	103.4	-0.8632
Sb 206.834	-1.6061b	ppb	0.8597	53.5	-0.0106
Se 196.026	7.8636b	ppb	5.6264	71.6	3.2059
Sn 189.925	-0.3676b	ppb	2.5982	706.7	0.7251
Sr 216.596	146.763b	ppb	1.2775	0.9	1735.53
Ti 334.941	0.2798b	ppb	0.0550	19.7	9.5946
Tl 190.794	1.2081b	ppb	4.1010	339.5	1.3426
V 292.401	-0.2262b	ppb	0.2349	103.8	-9.0282
Zn 206.200	24.7436b	ppb	1.6780	187.8	430.9697

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88280-a-1-bSD^5 (Samp) 3/20/2013, 12:59:15 AM Rack 2, Tube 42**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1230	-0.2087u	-0.0381u
Al 308.215	34.7812	34.8714	34.3483
As 188.980	-5.3307u	-10.0595u	2.0679
B 249.678	721.740	720.664	720.249
Ba 389.178	10.2963	10.1051	10.4525
Be 313.042	-0.0512u	-0.0486u	-0.0460u
Ca 370.602	4045	4035	4023
Cd 226.502	8.9890	9.0396	8.9672
Co 228.615	1.4471	0.6163	0.2008
Cr 267.716	0.0385	0.1072	0.0431
Cu 324.754	2.4933	2.7157	2.6181
Fe 271.441	3.1689	6.2232	9.9531
K 766.491	2002.05	2003.65	1999.56
Mg 279.078	165.897	168.793	170.581
Mn 257.610	1.5141	1.4933	1.5204
Mo 202.032	-0.2243u	-0.8247u	-0.3909u
Na 330.237	109747x	109845x	109582x
Ni 231.604	15.8776	16.3383	15.6024
Pb 220.353	1.6564	-1.3889u	1.2522
Sb 206.834	-1.2342u	1.5896	-3.0378u
Se 196.026	0.5602	1.4131	6.0983
Sn 189.925	-1.8480u	-0.3439u	0.1537
Sr 216.596	28.6428	28.4929	28.0423
Ti 334.941	-0.1194u	-0.1851u	-0.0767u
Tl 190.794	-2.3226u	-6.9391u	-2.0673u
V 292.401	-0.4120u	-0.6408u	-0.1813u
Zn 206.200	5.2651	3.4114	5.0264

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0413b	ppb	0.1659	401.8	-65.0380
Al 308.215	34.6670b	ppb	0.2796	0.8	475.663
As 188.980	-4.4408b	ppb	6.1125	137.6	-2.7031
B 249.678	720.884b	ppb	0.7697	0.1	6544.02
Ba 389.178	10.2846b	ppb	0.1740	1.7	243.133
Be 313.042	-0.0486b	ppb	0.0026	5.4	-253.098
Ca 370.602	4034b	ppb	11.31	0.3	16001
Cd 226.502	8.9986b	ppb	0.0371	0.4	364.487
Co 228.615	0.7547b	ppb	0.6346	84.1	23.0825
Cr 267.716	0.0630b	ppb	0.0384	61.0	1.9582
Cu 324.754	2.6090b	ppb	0.1115	4.3	315.102
Fe 271.441	6.4484b	ppb	3.3977	52.7	14.5502
K 766.491	2001.76b	ppb	2.0613	0.1	133184
Mg 279.078	168.424b	ppb	2.3637	1.4	384.056
Mn 257.610	1.5093b	ppb	0.0142	0.9	408.073
Mo 202.032	-0.4800b	ppb	0.3100	64.6	10.8311
Na 330.237	109724xb	ppb	132.913	0.1	5933.20
Ni 231.604	15.9394b	ppb	0.3718	2.3	42.6721
Pb 220.353	0.5066b	ppb	1.6539	326.5	1.7102
Sb 206.834	-0.8941b	ppb	2.3324	260.9	0.7388
Se 196.026	2.6905b	ppb	2.9819	110.8	0.5163
Sn 189.925	-0.6794b	ppb	1.0422	153.4	0.1877
Sr 216.596	28.3927b	ppb	0.3126	1.1	342.649
Ti 334.941	-0.1271b	ppb	0.0546	43.0	-80.8305
Tl 190.794	-3.7763b	ppb	2.7420	72.6	-2.6193
V 292.401	-0.4114b	ppb	0.2297	55.8	-10.1953
Zn 206.200	4.5676b	ppb	1.0984	22.1	5.5959

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680-88280-a-1-bPDS (Samp) **3/20/2013, 1:04:41 AM** **Rack 2, Tube 43****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	42.2206	40.1814	41.3745
Al 308.215	2352.53	2350.19	2342.50
As 188.980	2631.11	2628.60	2621.68
B 249.678	4773.83	4800.51	4805.36
Ba 389.178	2257.21	2257.71	2254.97
Be 313.042	55.2535	55.2220	55.2887
Ca 370.602	25639	25666	25687
Cd 226.502	103.216	103.039	102.477
Co 228.615	566.695	571.689	567.198
Cr 267.716	218.895	219.282	218.545
Cu 324.754	292.328	293.284	292.948
Fe 271.441	1117.33	1109.90	1124.13
K 766.491	19485.6	19503.8	19547.6
Mg 279.078	6346.86	6363.44	6364.52
Mn 257.610	570.697	571.433	570.088
Mo 202.032	551.947	555.684	553.901
Na 330.237	607444x	608886x	608031x
Ni 231.604	628.858	634.211	630.500
Pb 220.353	549.031	545.547	553.206
Sb 206.834	568.855	562.494	567.107
Se 196.026	2278.02	2266.01	2262.58
Sn 189.925	1100.26	1106.54	1109.45
Sr 216.596	701.480	700.676	699.073
Ti 334.941	1085.14	1085.15	1086.09
Tl 190.794	2210.17	2201.41	2178.58
V 292.401	555.141	555.290	556.074
Zn 206.200	605.690	605.336	605.502

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	41.2588b	ppb	1.0245	2.5	3041.20
Al 308.215	2348.41b	ppb	5.2498	0.2	14149.0
As 188.980	2627.13b	ppb	4.8821	0.2	1478.39
B 249.678	4793.23b	ppb	16.9770	0.4	42876.8
Ba 389.178	2256.63b	ppb	1.4613	0.1	61283.1
Be 313.042	55.2547b	ppb	0.0334	0.1	118935
Ca 370.602	25664b	ppb	23.81	0.1	101884
Cd 226.502	102.911b	ppb	0.3860	0.4	4089.90
Co 228.615	568.528b	ppb	2.7497	0.5	7289.43
Cr 267.716	218.907b	ppb	0.3685	0.2	10454.8
Cu 324.754	292.853b	ppb	0.4849	0.2	16211.9
Fe 271.441	1117.12b	ppb	7.1169	0.6	1990.06
K 766.491	19512.3b	ppb	31.8832	0.2	1295886
Mg 279.078	6358.27b	ppb	9.8964	0.2	13888.8
Mn 257.610	570.740b	ppb	0.6736	0.1	133150
Mo 202.032	553.844b	ppb	1.8689	0.3	4319.24
Na 330.237	608120xb	ppb	725.114	0.1	32879.3
Ni 231.604	631.190b	ppb	2.7423	0.4	1658.48
Pb 220.353	549.261b	ppb	3.8347	0.7	980.758
Sb 206.834	566.152b	ppb	3.2863	0.6	583.843
Se 196.026	2268.87b	ppb	8.1095	0.4	1178.16
Sn 189.925	1105.42b	ppb	4.6948	0.4	1120.89
Sr 216.596	700.410b	ppb	1.2252	0.2	8215.91
Ti 334.941	1085.46b	ppb	0.5465	0.1	349649
Tl 190.794	2196.72b	ppb	16.3105	0.7	1749.22
V 292.401	555.502b	ppb	0.5013	0.1	16907.5
Zn 206.200	605.509b	ppb	0.1772	0.0	750.807

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mb 680-269773/1-a (Samp) 3/20/2013, 1:10:16 AM Rack 2, Tube 44

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0754	-0.0200u	0.2517
Al 308.215	-0.6548u	-2.2958u	-1.7940u
As 188.980	-6.9813u	-1.4229u	1.6456
B 249.678	34.0341	30.5636	27.4578
Ba 389.178	-0.1090u	0.5908	-0.0087u
Be 313.042	-0.0550u	-0.0581u	-0.0511u
Ca 370.602	-1.756u	-1.183u	-4.893u
Cd 226.502	0.0284	0.1385	0.1176
Co 228.615	0.0346	0.2183	0.4133
Cr 267.716	-0.0264u	0.1553	0.0932
Cu 324.754	-0.5336u	-0.7859u	-0.3907u
Fe 271.441	-0.8220u	0.4480	-0.4820u
K 766.491	1.0948	1.0541	0.6837
Mg 279.078	0.9656	8.5693	1.9801
Mn 257.610	-0.0591u	0.0035	-0.0245u
Mo 202.032	0.5938	-0.7755u	0.1531
Na 330.237	80.9954	145.452	192.762
Ni 231.604	-0.4565u	0.9484	0.7639
Pb 220.353	0.2143	-3.4053u	3.9060
Sb 206.834	0.6733	-0.4336u	1.7798
Se 196.026	-1.3714u	0.3738	-0.9773u
Sn 189.925	1.4269	1.2738	-1.7285u
Sr 216.596	-0.0618u	0.0391	-0.1277u
Ti 334.941	0.3059	0.2622	0.2279
Tl 190.794	-7.4031u	2.4105	-3.8903u
V 292.401	0.0218	-0.1929u	-0.2220u
Zn 206.200	0.7951	0.3386	1.5985

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1024	ppb	0.1378	134.7	-52.8416
Al 308.215	-1.5815	ppb	0.8409	53.2	262.578
As 188.980	-2.2529	ppb	4.3730	194.1	-1.5028
B 249.678	30.6852	ppb	3.2898	10.7	386.003
Ba 389.178	0.1577	ppb	0.3784	239.9	-32.4370
Be 313.042	-0.0547	ppb	0.0035	6.4	-253.579
Ca 370.602	-2.610	ppb	1.997	76.5	2.981
Cd 226.502	0.0948	ppb	0.0585	61.7	11.9315
Co 228.615	0.2221	ppb	0.1894	85.3	16.2538
Cr 267.716	0.0740	ppb	0.0923	124.7	0.6417
Cu 324.754	-0.5701	ppb	0.2001	35.1	141.121
Fe 271.441	-0.2853	ppb	0.6574	230.4	3.0631
K 766.491	0.9442	ppb	0.2265	24.0	330.354
Mg 279.078	3.8383	ppb	4.1284	107.6	24.7431
Mn 257.610	-0.0267	ppb	0.0314	117.4	49.4179
Mo 202.032	-0.0095	ppb	0.6990	7325.3	14.4881
Na 330.237	139.736	ppb	56.1020	40.1	5.3898
Ni 231.604	0.4186	ppb	0.7634	182.4	1.9110
Pb 220.353	0.2384	ppb	3.6557	1533.7	1.2301
Sb 206.834	0.6731	ppb	1.1067	164.4	2.3526
Se 196.026	-0.6583	ppb	0.9153	139.0	-1.2242
Sn 189.925	0.3240	ppb	1.7792	549.1	1.1552
Sr 216.596	-0.0501	ppb	0.0840	167.6	7.9272
Ti 334.941	0.2654	ppb	0.0391	14.7	54.4676
Tl 190.794	-2.9609	ppb	4.9724	167.9	-1.9684
V 292.401	-0.1310	ppb	0.1331	101.6	-0.8002
Zn 206.200	0.9107	ppb	0.6379	70.0	40.9971

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ics 680-269773/2-a (Samp) 3/20/2013, 1:15:43 AM Rack 2, Tube 45
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	50.7598	52.8591	52.1073
Al 308.215	4882.63	4888.20	4872.99
As 188.980	198.460	201.171	197.324
B 249.678	207.986	207.665	210.814
Ba 389.178	99.4328	99.4231	99.1467
Be 313.042	50.0759	50.1923	50.0753
Ca 370.602	4889	4897	4877
Cd 226.502	51.8548	51.5175	51.7216
Co 228.615	51.2882	51.1197	50.7609
Cr 267.716	100.674	101.123	101.088
Cu 324.754	98.5166	100.426	100.717
Fe 271.441	5145.84	5147.06	5139.69
K 766.491	5207.47	5219.93	5210.90
Mg 279.078	5054.92	5057.16	5043.87
Mn 257.610	524.663	525.092	524.005
Mo 202.032	101.769	101.717	102.102
Na 330.237	4256.00	3930.44	3818.25
Ni 231.604	101.392	99.3472	100.337
Pb 220.353	51.9863	47.9212	51.3185
Sb 206.834	81.1265	83.8254	84.6199
Se 196.026	119.686	111.646	114.684
Sn 189.925	300.006	305.769	297.740
Sr 216.596	100.021	100.879	99.1630
Ti 334.941	120.011	120.375	119.847
Tl 190.794	36.6797	41.3822	39.0754
V 292.401	102.166	102.123	102.045
Zn 206.200	103.542	102.226	104.998

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.9087	ppb	1.0636	2.0	3873.73
Al 308.215	4881.27	ppb	7.6944	0.2	28992.0
As 188.980	198.985	ppb	1.9765	1.0	111.721
B 249.678	208.822	ppb	1.7325	0.8	1970.79
Ba 389.178	99.3342	ppb	0.1625	0.2	2686.20
Be 313.042	50.1145	ppb	0.0674	0.1	108013
Ca 370.602	4887	ppb	10.16	0.2	18910
Cd 226.502	51.6980	ppb	0.1699	0.3	2072.20
Co 228.615	51.0563	ppb	0.2693	0.5	665.506
Cr 267.716	100.962	ppb	0.2501	0.2	4818.39
Cu 324.754	99.8865	ppb	1.1954	1.2	5642.95
Fe 271.441	5144.19	ppb	3.9517	0.1	8735.78
K 766.491	5212.77	ppb	6.4328	0.1	346395
Mg 279.078	5051.98	ppb	7.1154	0.1	11037.4
Mn 257.610	524.587	ppb	0.5479	0.1	122396
Mo 202.032	101.863	ppb	0.2090	0.2	806.015
Na 330.237	4001.57	ppb	227.377	5.7	210.880
Ni 231.604	100.359	ppb	1.0224	1.0	264.483
Pb 220.353	50.4086	ppb	2.1799	4.3	90.6736
Sb 206.834	83.1906	ppb	1.8312	2.2	88.1147
Se 196.026	115.339	ppb	4.0595	3.5	59.2146
Sn 189.925	301.172	ppb	4.1394	1.4	305.917
Sr 216.596	100.021	ppb	0.8581	0.9	1181.85
Ti 334.941	120.077	ppb	0.2705	0.2	38680.8
Tl 190.794	39.0458	ppb	2.3514	6.0	30.6873
V 292.401	102.111	ppb	0.0616	0.1	3105.95
Zn 206.200	103.588	ppb	1.3866	1.3	120.875

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ics 680-269773/3-a (Samp) 3/20/2013, 1:21:08 AM Rack 2, Tube 46
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	212.355	211.268	211.246
Al 308.215	1989.30	1991.71	1991.96
As 188.980	223.615	224.406	224.108
B 249.678	414.011	414.980	417.327
Ba 389.178	200.269	199.994	200.867
Be 313.042	204.617	204.685	204.832
Ca 370.602	19752	19772	19803
Cd 226.502	204.949	204.737	205.354
Co 228.615	204.846	206.012	205.133
Cr 267.716	202.475	202.060	202.980
Cu 324.754	202.122	202.579	200.381
Fe 271.441	21410.3	21374.5	21439.5
K 766.491	20531.1	20556.2	20558.7
Mg 279.078	20654.9	20628.9	20663.2
Mn 257.610	2103.00	2103.70	2102.84
Mo 202.032	199.526	200.889	201.758
Na 330.237	17939.7	18252.0	17972.2
Ni 231.604	204.434	203.516	203.259
Pb 220.353	200.935	205.074	205.024
Sb 206.834	158.435	175.835	178.945
Se 196.026	197.943	196.318	202.703
Sn 189.925	194.037	193.694	199.797
Sr 216.596	212.907	211.629	213.044
Ti 334.941	201.782	201.772	202.210
Tl 190.794	42.3297	42.8958	48.8407
V 292.401	204.564	205.251	204.539
Zn 206.200	195.367	199.763	198.678

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	211.623	ppb	0.6336	0.3	15986.4
Al 308.215	1990.99	ppb	1.4675	0.1	12005.0
As 188.980	224.043	ppb	0.3993	0.2	125.765
B 249.678	415.439	ppb	1.7046	0.4	3799.85
Ba 389.178	200.377	ppb	0.4463	0.2	5506.17
Be 313.042	204.711	ppb	0.1098	0.1	441684
Ca 370.602	19775	ppb	25.34	0.1	76347
Cd 226.502	205.013	ppb	0.3133	0.2	8195.82
Co 228.615	205.331	ppb	0.6073	0.3	2635.57
Cr 267.716	202.505	ppb	0.4610	0.2	9673.63
Cu 324.754	201.694	ppb	1.1597	0.6	11222.2
Fe 271.441	21408.1	ppb	32.5225	0.2	36340.4
K 766.491	20548.7	ppb	15.2451	0.1	1364698
Mg 279.078	20649.0	ppb	17.9234	0.1	45069.1
Mn 257.610	2103.18	ppb	0.4546	0.0	490549
Mo 202.032	200.724	ppb	1.1250	0.6	1573.53
Na 330.237	18054.6	ppb	171.711	1.0	964.537
Ni 231.604	203.736	ppb	0.6174	0.3	536.311
Pb 220.353	203.678	ppb	2.3752	1.2	364.736
Sb 206.834	171.072	ppb	11.0532	6.5	180.531
Se 196.026	198.988	ppb	3.3187	1.7	103.188
Sn 189.925	195.843	ppb	3.4291	1.8	199.233
Sr 216.596	212.527	ppb	0.7807	0.4	2508.12
Ti 334.941	201.921	ppb	0.2501	0.1	65129.9
Tl 190.794	44.6888	ppb	3.6069	8.1	32.7493
V 292.401	204.785	ppb	0.4042	0.2	6225.93
Zn 206.200	197.936	ppb	2.2900	1.2	248.275

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680-88248-b-1-a (Samp) 3/20/2013, 1:26:34 AM Rack 2, Tube 47

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6305u	-0.5669u	-0.7197u
Al 308.215	33.6527	34.7213	33.3656
As 188.980	-2.2914u	1.2436	10.2366
B 249.678	12.6713	13.7171	12.5231
Ba 389.178	8.7148	9.4253	9.6022
Be 313.042	-0.0378u	-0.0347u	-0.0459u
Ca 370.602	5910	5914	5930
Cd 226.502	0.0732	0.0883	0.2665
Co 228.615	-0.0323u	0.0314	0.1892
Cr 267.716	0.4987	0.6571	0.6535
Cu 324.754	5.0635	4.9616	5.7990
Fe 271.441	414.712	417.106	416.790
K 766.491	1500.58	1493.31	1500.08
Mg 279.078	615.716	612.896	614.948
Mn 257.610	22.3315	22.2348	22.4043
Mo 202.032	0.4743	0.6752	0.7112
Na 330.237	5519.12	5408.65	5499.85
Ni 231.604	1.4210	1.7564	1.3412
Pb 220.353	1.1010	0.2414	1.8499
Sb 206.834	-0.1276u	4.8440	0.8555
Se 196.026	2.1860	-1.1721u	-5.8825u
Sn 189.925	-2.9791u	-0.7096u	-0.9449u
Sr 216.596	28.4630	28.9036	28.9912
Ti 334.941	0.6483	0.6179	0.5090
Tl 190.794	-0.0884u	1.0134	-2.5826u
V 292.401	-0.0579u	0.7200	0.4529
Zn 206.200	147.832	148.253	146.602

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6390	ppb	0.0767	12.0	-110.347
Al 308.215	33.9132	ppb	0.7144	2.1	471.384
As 188.980	3.0629	ppb	6.4591	210.9	1.5307
B 249.678	12.9705	ppb	0.6508	5.0	227.589
Ba 389.178	9.2474	ppb	0.4697	5.1	217.008
Be 313.042	-0.0394	ppb	0.0058	14.7	-219.104
Ca 370.602	5918	ppb	10.33	0.2	23426
Cd 226.502	0.1427	ppb	0.1075	75.4	14.8662
Co 228.615	0.0627	ppb	0.1140	181.8	14.1996
Cr 267.716	0.6031	ppb	0.0905	15.0	26.1731
Cu 324.754	5.2747	ppb	0.4569	8.7	461.161
Fe 271.441	416.203	ppb	1.3009	0.3	709.297
K 766.491	1497.99	ppb	4.0622	0.3	99734.2
Mg 279.078	614.520	ppb	1.4581	0.2	1357.78
Mn 257.610	22.3235	ppb	0.0850	0.4	5265.04
Mo 202.032	0.6202	ppb	0.1277	20.6	19.3614
Na 330.237	5475.87	ppb	59.0101	1.1	292.759
Ni 231.604	1.5062	ppb	0.2203	14.6	4.7759
Pb 220.353	1.0641	ppb	0.8049	75.6	2.7094
Sb 206.834	1.8573	ppb	2.6329	141.8	3.5898
Se 196.026	-1.6228	ppb	4.0531	249.8	-1.7170
Sn 189.925	-1.5445	ppb	1.2480	80.8	-0.7324
Sr 216.596	28.7859	ppb	0.2831	1.0	347.884
Ti 334.941	0.5917	ppb	0.0732	12.4	162.362
Tl 190.794	-0.5525	ppb	1.8424	333.4	-0.0934
V 292.401	0.3717	ppb	0.3953	106.4	14.4363
Zn 206.200	147.562	ppb	0.8579	0.6	436.427

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Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1162u	-0.2530u	-0.3412u
Al 308.215	5.6467	5.6771	6.7553
As 188.980	-2.1098u	-2.4173u	1.1156
B 249.678	-1.1219u	-2.1650u	-1.7004u
Ba 389.178	2.4143	1.6556	1.1221
Be 313.042	-0.0571u	-0.0451u	-0.0584u
Ca 370.602	1170	1173	1177
Cd 226.502	0.2111	0.0897	-0.1345u
Co 228.615	0.0884	0.0624	-0.2891u
Cr 267.716	0.1719	0.4301	0.0793
Cu 324.754	0.1186	0.3548	0.8077
Fe 271.441	79.5612	78.7046	82.3823
K 766.491	303.564	301.770	302.194
Mg 279.078	123.419	122.773	122.231
Mn 257.610	4.4268	4.4169	4.4104
Mo 202.032	-0.5911u	-0.1893u	-0.2702u
Na 330.237	1118.82	1218.30	975.507
Ni 231.604	-0.1003u	0.3390	0.8392
Pb 220.353	-1.2083u	-1.5874u	1.0870
Sb 206.834	4.2623	1.2335	-0.7152u
Se 196.026	-0.1747u	1.7168	2.5604
Sn 189.925	-0.1989u	-1.6922u	-2.0150u
Sr 216.596	5.8949	5.8915	5.5010
Ti 334.941	-0.0256u	-0.0437u	-0.0475u
Tl 190.794	1.5844	-3.1659u	-8.4461u
V 292.401	0.2656	-0.2038u	0.4046
Zn 206.200	30.9919	31.7934	29.3930

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2368	ppb	0.1134	47.9	-78.8092
Al 308.215	6.0263	ppb	0.6315	10.5	307.252
As 188.980	-1.1372	ppb	1.9570	172.1	-0.8664
B 249.678	-1.6624	ppb	0.5226	31.4	97.3220
Ba 389.178	1.7307	ppb	0.6494	37.5	10.7893
Be 313.042	-0.0535	ppb	0.0073	13.6	-250.566
Ca 370.602	1174	ppb	3.723	0.3	4656
Cd 226.502	0.0554	ppb	0.1753	316.1	10.5789
Co 228.615	-0.0461	ppb	0.2108	457.7	12.8364
Cr 267.716	0.2271	ppb	0.1818	80.1	7.9981
Cu 324.754	0.4270	ppb	0.3502	82.0	195.703
Fe 271.441	80.2161	ppb	1.9243	2.4	139.461
K 766.491	302.509	ppb	0.9377	0.3	20354.3
Mg 279.078	122.808	ppb	0.5946	0.5	284.435
Mn 257.610	4.4180	ppb	0.0083	0.2	1086.63
Mo 202.032	-0.3502	ppb	0.2125	60.7	11.8347
Na 330.237	1104.21	ppb	122.055	11.1	57.3045
Ni 231.604	0.3593	ppb	0.4701	130.8	1.7569
Pb 220.353	-0.5696	ppb	1.4471	254.1	-0.2116
Sb 206.834	1.5936	ppb	2.5082	157.4	3.3171
Se 196.026	1.3675	ppb	1.4006	102.4	-0.1699
Sn 189.925	-1.3020	ppb	0.9689	74.4	-0.4910
Sr 216.596	5.7625	ppb	0.2265	3.9	76.4824
Ti 334.941	-0.0389	ppb	0.0117	30.1	-43.0222
Tl 190.794	-3.3425	ppb	5.0176	150.1	-2.2808
V 292.401	0.1554	ppb	0.3188	205.1	8.0612
Zn 206.200	30.7261	ppb	1.2221	4.0	38.4931

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Cont Calib Verif (CCV) 3/20/2013, 1:37:26 AM Rack 2, Tube 49
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	495.220	494.720	495.616
Al 308.215	4981.60	4942.92	4925.88
As 188.980	482.664	501.751	483.510
B 249.678	2516.75	2543.80	2544.81
Ba 389.178	4852.13	4849.17	4835.76
Be 313.042	486.967	486.407	484.645
Ca 370.602	4876	4879	4862
Cd 226.502	490.803	491.723	489.717
Co 228.615	496.932	497.451	493.470
Cr 267.716	4822.86	4830.82	4822.65
Cu 324.754	4799.99	4832.40	4832.06
Fe 271.441	5021.27	5020.83	5021.71
K 766.491	9794.08	9806.35	9703.90
Mg 279.078	4904.29	4911.98	4902.29
Mn 257.610	4947.10	4965.12	4935.85
Mo 202.032	485.060	485.410	484.531
Na 330.237	7464.47	7053.11	7374.21
Ni 231.604	2460.27	2458.63	2460.30
Pb 220.353	493.734	493.744	492.246
Sb 206.834	944.364	939.665	943.022
Se 196.026	4796.56	4795.92	4793.79
Sn 189.925	4955.07	4994.27	4960.27
Sr 216.596	2378.21	2381.74	2382.94
Ti 334.941	473.005	472.738	472.997
Tl 190.794	4953.19	4940.77	4942.65
V 292.401	4903.97	4900.39	4880.83
Zn 206.200	2484.32	2514.11	2502.72

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	495.185	ppb	0.4493	0.1	37428.1	99.03708
Al 308.215	4950.13	ppb	28.5537	0.6	29361.7	99.00269
As 188.980	489.309	ppb	10.7838	2.2	275.026	97.86174
B 249.678	2535.12	ppb	15.9166	0.6	22726.3	101.40469
Ba 389.178	4845.69	ppb	8.7246	0.2	131619	96.91370
Be 313.042	486.006	ppb	1.2117	0.2	1048597	97.20121
Ca 370.602	4872	ppb	8.932	0.2	19152	97.44868
Cd 226.502	490.748	ppb	1.0038	0.2	19487.9	98.14951
Co 228.615	495.951	ppb	2.1642	0.4	6360.43	99.19026
Cr 267.716	4825.45	ppb	4.6556	0.1	230289	96.50892
Cu 324.754	4821.48	ppb	18.6137	0.4	264025	96.42964
Fe 271.441	5021.27	ppb	0.4400	0.0	8639.50	100.42544
K 766.491	9768.11	ppb	55.9447	0.6	648870	97.68111
Mg 279.078	4906.18	ppb	5.1140	0.1	10645.8	98.12369
Mn 257.610	4949.36	ppb	14.7639	0.3	1153898	98.98712
Mo 202.032	485.000	ppb	0.4423	0.1	3775.02	97.00005
Na 330.237	7297.26	ppb	216.204	3.0	367.540	97.29684
Ni 231.604	2459.73	ppb	0.9552	0.0	6460.71	98.38925
Pb 220.353	493.241	ppb	0.8621	0.2	882.101	98.64822
Sb 206.834	942.350	ppb	2.4204	0.3	1026.81	94.23502
Se 196.026	4795.43	ppb	1.4489	0.0	2492.10	95.90851
Sn 189.925	4969.87	ppb	21.2893	0.4	5035.29	99.39735
Sr 216.596	2380.97	ppb	2.4597	0.1	27949.7	95.23862
Ti 334.941	472.913	ppb	0.1522	0.0	152352	94.58266
Tl 190.794	4945.54	ppb	6.6946	0.1	3934.60	98.91079
V 292.401	4895.06	ppb	12.4564	0.3	149615	97.90126
Zn 206.200	2500.38	ppb	15.0325	0.6	4312.34	100.01524

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Cont Calib Blank (CCB) 3/20/2013, 1:42:52 AM Rack 2, Tube 50

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2890	0.0314	-0.3766u
Al 308.215	-0.6314u	-0.3210u	0.5766
As 188.980	-8.3627u	-1.1439u	-2.8742u
B 249.678	16.8663	14.3999	12.1354
Ba 389.178	0.0931	0.7731	0.9390
Be 313.042	-0.0058u	-0.0050u	-0.0196u
Ca 370.602	-0.7624u	1.841	2.046
Cd 226.502	-0.0115u	0.1510	0.0496
Co 228.615	0.3086	0.4625	0.5708
Cr 267.716	0.7812	0.6377	0.2519
Cu 324.754	-0.3118u	-0.0876u	-0.3673u
Fe 271.441	1.9731	10.2319	-0.6484u
K 766.491	0.2297	-0.1033u	-0.1554u
Mg 279.078	1.7289	2.0164	-0.3417u
Mn 257.610	0.4944	0.4753	0.3426
Mo 202.032	-0.2390u	-0.5894u	0.1108
Na 330.237	7.9416	-71.6563u	-106.851u
Ni 231.604	1.3615	-1.2385u	0.4805
Pb 220.353	-2.7752u	-1.1902u	-2.3236u
Sb 206.834	2.6052	6.7913	-1.2335u
Se 196.026	-4.2301u	2.3711	7.5108
Sn 189.925	2.4373	0.9692	-2.3991u
Sr 216.596	0.0461	-0.0252u	-0.2286u
Ti 334.941	-0.0397u	-0.0729u	-0.0725u
Tl 190.794	-0.3281u	4.0880	0.6892
V 292.401	0.5631	0.5936	0.7499
Zn 206.200	2.9199	0.6152	0.4496

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0187	ppb	0.3356	1790.1	-62.0101	-0.01875
Al 308.215	-0.1253	ppb	0.6274	500.8	271.070	-0.12527
As 188.980	-4.1269	ppb	3.7689	91.3	-2.5574	-4.12690
B 249.678	14.4672	ppb	2.3662	16.4	241.304	14.46720
Ba 389.178	0.6017	ppb	0.4482	74.5	-20.3834	0.60174
Be 313.042	-0.0101	ppb	0.0082	80.7	-157.224	-0.01014
Ca 370.602	1.042	ppb	1.566	150.3	17.34	1.04156
Cd 226.502	0.0631	ppb	0.0821	130.2	10.6747	0.06305
Co 228.615	0.4473	ppb	0.1318	29.5	19.1423	0.44731
Cr 267.716	0.5569	ppb	0.2737	49.1	23.6813	0.55693
Cu 324.754	-0.2556	ppb	0.1481	57.9	158.314	-0.25557
Fe 271.441	3.8522	ppb	5.6784	147.4	10.0965	3.85219
K 766.491	-0.0097	ppb	0.2089	2163.2	267.018	-0.00966
Mg 279.078	1.1345	ppb	1.2865	113.4	18.8316	1.13451
Mn 257.610	0.4374	ppb	0.0826	18.9	157.605	0.43744
Mo 202.032	-0.2392	ppb	0.3501	146.4	12.7011	-0.23920
Na 330.237	-56.8551	ppb	58.8101	103.4	-5.2468	-56.85515
Ni 231.604	0.2012	ppb	1.3223	657.3	1.3400	0.20117
Pb 220.353	-2.0963	ppb	0.8165	39.0	-2.9410	-2.09633
Sb 206.834	2.7210	ppb	4.0137	147.5	4.4886	2.72096
Se 196.026	1.8839	ppb	5.8856	312.4	0.0969	1.88391
Sn 189.925	0.3358	ppb	2.4796	738.4	1.1670	0.33580
Sr 216.596	-0.0693	ppb	0.1425	205.8	7.7306	-0.06926
Ti 334.941	-0.0617	ppb	0.0191	30.9	-50.9049	-0.06173
Tl 190.794	1.4830	ppb	2.3126	155.9	1.5703	1.48305
V 292.401	0.6355	ppb	0.1002	15.8	22.7451	0.63552
Zn 206.200	1.3282	ppb	1.3899	104.8	4.5208	1.32823

E03192013.wvq. All Data Report 3/20/2013, 1:33:49 PM

680-88248-b-1-aPDS (Samp) **3/20/2013, 1:48:18 AM** **Rack 2, Tube 51****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	45.4121	45.4880	44.4669
Al 308.215	1961.13	1983.36	1965.34
As 188.980	2294.28	2332.00	2332.84
B 249.678	1037.06	1055.33	1058.66
Ba 389.178	2037.93	2057.33	2041.78
Be 313.042	49.9302	50.5099	49.9919
Ca 370.602	10669	10796	10671
Cd 226.502	51.2135	52.1214	51.8122
Co 228.615	522.698	525.239	521.960
Cr 267.716	201.306	203.004	200.947
Cu 324.754	258.899	258.647	258.025
Fe 271.441	1415.41	1424.23	1422.55
K 766.491	6844.94	6927.50	6885.51
Mg 279.078	5678.09	5731.88	5688.35
Mn 257.610	539.711	545.875	542.237
Mo 202.032	501.120	508.681	503.614
Na 330.237	10417.1	10375.4	10575.2
Ni 231.604	505.730	515.377	511.557
Pb 220.353	510.653	516.822	512.034
Sb 206.834	502.244	507.247	508.347
Se 196.026	1983.13	1997.19	1966.26
Sn 189.925	991.418	1011.81	1009.64
Sr 216.596	536.076	542.597	536.574
Ti 334.941	993.782	1004.86	993.325
Tl 190.794	2082.24	2120.95	2092.04
V 292.401	505.879	512.744	509.095
Zn 206.200	658.415	666.446	667.667

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	45.1223	ppb	0.5689	1.3	3341.06
Al 308.215	1969.94	ppb	11.8061	0.6	11917.5
As 188.980	2319.70	ppb	22.0203	0.9	1305.26
B 249.678	1050.35	ppb	11.6313	1.1	9482.23
Ba 389.178	2045.68	ppb	10.2734	0.5	55551.5
Be 313.042	50.1440	ppb	0.3184	0.6	107987
Ca 370.602	10712	ppb	72.69	0.7	42575
Cd 226.502	51.7157	ppb	0.4616	0.9	2063.40
Co 228.615	523.299	ppb	1.7201	0.3	6710.79
Cr 267.716	201.752	ppb	1.0990	0.5	9626.25
Cu 324.754	258.523	ppb	0.4498	0.2	14332.1
Fe 271.441	1420.73	ppb	4.6852	0.3	2497.43
K 766.491	6885.99	ppb	41.2833	0.6	457497
Mg 279.078	5699.44	ppb	28.5579	0.5	12451.0
Mn 257.610	542.607	ppb	3.0986	0.6	126591
Mo 202.032	504.472	ppb	3.8528	0.8	3935.47
Na 330.237	10455.9	ppb	105.421	1.0	549.542
Ni 231.604	510.888	ppb	4.8584	1.0	1342.55
Pb 220.353	513.170	ppb	3.2374	0.6	916.400
Sb 206.834	505.946	ppb	3.2531	0.6	521.866
Se 196.026	1982.19	ppb	15.4865	0.8	1029.20
Sn 189.925	1004.29	ppb	11.1980	1.1	1018.18
Sr 216.596	538.416	ppb	3.6295	0.7	6313.20
Ti 334.941	997.321	ppb	6.5295	0.7	321303
Tl 190.794	2098.41	ppb	20.1237	1.0	1670.93
V 292.401	509.240	ppb	3.4346	0.7	15504.9
Zn 206.200	664.176	ppb	5.0263	0.8	834.628

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88248-b-1-b ms (Samp) 3/20/2013, 1:53:43 AM Rack 2, Tube 52

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	51.3119	51.7194	51.1006
Al 308.215	4937.05	4999.23	4970.85
As 188.980	162.218	160.466	152.839
B 249.678	222.287	223.732	222.973
Ba 389.178	110.284	111.794	111.491
Be 313.042	50.8522	51.0600	50.7179
Ca 370.602	11026	11098	11021
Cd 226.502	52.0529	52.1828	51.9838
Co 228.615	51.6647	51.8580	52.1631
Cr 267.716	102.500	102.358	102.441
Cu 324.754	107.692	107.853	107.270
Fe 271.441	5588.20	5614.07	5575.19
K 766.491	6867.44	6904.55	6870.84
Mg 279.078	5719.16	5747.04	5709.56
Mn 257.610	553.946	555.535	551.802
Mo 202.032	101.766	103.419	103.265
Na 330.237	9836.84	10144.3	9883.91
Ni 231.604	103.490	102.989	102.108
Pb 220.353	53.6676	51.6272	52.1486
Sb 206.834	65.3883	70.5200	65.0194
Se 196.026	106.177	112.980	119.805
Sn 189.925	190.367	194.857	197.699
Sr 216.596	130.677	132.561	130.897
Ti 334.941	111.130	111.670	111.125
Tl 190.794	48.5742	45.5783	46.5930
V 292.401	104.032	104.309	103.968
Zn 206.200	254.059	254.705	252.645

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.3773	ppb	0.3145	0.6	3832.11
Al 308.215	4969.04	ppb	31.1292	0.6	29508.2
As 188.980	158.508	ppb	4.9867	3.1	88.9831
B 249.678	222.997	ppb	0.7225	0.3	2096.87
Ba 389.178	111.190	ppb	0.7990	0.7	3011.03
Be 313.042	50.8767	ppb	0.1724	0.3	109660
Ca 370.602	11048	ppb	43.23	0.4	43281
Cd 226.502	52.0732	ppb	0.1011	0.2	2088.22
Co 228.615	51.8953	ppb	0.2513	0.5	676.008
Cr 267.716	102.433	ppb	0.0713	0.1	4888.92
Cu 324.754	107.605	ppb	0.3010	0.3	6065.55
Fe 271.441	5592.48	ppb	19.7928	0.4	9496.15
K 766.491	6880.94	ppb	20.5111	0.3	457162
Mg 279.078	5725.25	ppb	19.4661	0.3	12507.0
Mn 257.610	553.761	ppb	1.8737	0.3	129203
Mo 202.032	102.817	ppb	0.9133	0.9	813.400
Na 330.237	9955.03	ppb	165.631	1.7	531.678
Ni 231.604	102.862	ppb	0.6997	0.7	271.068
Pb 220.353	52.4812	ppb	1.0601	2.0	94.3854
Sb 206.834	66.9759	ppb	3.0748	4.6	71.2975
Se 196.026	112.988	ppb	6.8139	6.0	58.0035
Sn 189.925	194.308	ppb	3.6965	1.9	197.670
Sr 216.596	131.378	ppb	1.0304	0.8	1551.45
Ti 334.941	111.308	ppb	0.3133	0.3	35858.8
Tl 190.794	46.9152	ppb	1.5237	3.2	36.9022
V 292.401	104.103	ppb	0.1814	0.2	3166.47
Zn 206.200	253.803	ppb	1.0538	0.4	218.784

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88248-b-1-c msd (Samp) 3/20/2013, 1:59:09 AM Rack 2, Tube 53

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	50.6071	50.1730	51.0864
Al 308.215	4913.00	4892.86	4850.64
As 188.980	118.193	110.051	110.528
B 249.678	212.603	213.289	214.951
Ba 389.178	109.476	109.048	109.190
Be 313.042	50.1259	49.8681	49.9590
Ca 370.602	10816	10757	10773
Cd 226.502	51.3694	51.2546	50.9518
Co 228.615	51.7831	50.5231	50.3674
Cr 267.716	100.990	100.855	100.560
Cu 324.754	106.086	104.625	105.533
Fe 271.441	5477.44	5446.88	5457.60
K 766.491	6734.08	6718.60	6737.33
Mg 279.078	5643.15	5623.88	5616.01
Mn 257.610	545.981	543.177	542.964
Mo 202.032	99.6117	98.7859	99.6441
Na 330.237	9881.38	9768.30	9883.48
Ni 231.604	100.737	102.108	104.043
Pb 220.353	52.5887	52.5429	48.2687
Sb 206.834	51.0050	50.1756	47.9853
Se 196.026	105.221	96.5815	92.4874
Sn 189.925	103.921	104.317	100.877
Sr 216.596	128.817	127.940	128.650
Ti 334.941	100.994	100.450	100.586
Tl 190.794	48.0805	42.0896	37.1322
V 292.401	101.934	101.815	101.543
Zn 206.200	252.313	253.932	252.275

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.6222	ppb	0.4569	0.9	3774.85
Al 308.215	4885.50	ppb	31.8240	0.7	29016.5
As 188.980	112.924	ppb	4.5693	4.0	63.3284
B 249.678	213.614	ppb	1.2074	0.6	2013.27
Ba 389.178	109.238	ppb	0.2184	0.2	2957.49
Be 313.042	49.9843	ppb	0.1307	0.3	107734
Ca 370.602	10782	ppb	30.75	0.3	42236
Cd 226.502	51.1919	ppb	0.2157	0.4	2052.93
Co 228.615	50.8912	ppb	0.7763	1.5	663.068
Cr 267.716	100.802	ppb	0.2201	0.2	4810.98
Cu 324.754	105.415	ppb	0.7373	0.7	5945.54
Fe 271.441	5460.64	ppb	15.5052	0.3	9272.35
K 766.491	6730.01	ppb	10.0086	0.1	447140
Mg 279.078	5627.68	ppb	13.9606	0.2	12294.1
Mn 257.610	544.041	ppb	1.6839	0.3	126936
Mo 202.032	99.3472	ppb	0.4864	0.5	786.440
Na 330.237	9844.39	ppb	65.9008	0.7	525.833
Ni 231.604	102.296	ppb	1.6613	1.6	269.578
Pb 220.353	51.1335	ppb	2.4810	4.9	91.9884
Sb 206.834	49.7220	ppb	1.5601	3.1	53.4089
Se 196.026	98.0968	ppb	6.5009	6.6	50.2630
Sn 189.925	103.038	ppb	1.8820	1.8	105.214
Sr 216.596	128.469	ppb	0.4654	0.4	1517.31
Ti 334.941	100.677	ppb	0.2831	0.3	32433.1
Tl 190.794	42.4341	ppb	5.4823	12.9	33.3504
V 292.401	101.764	ppb	0.2005	0.2	3095.50
Zn 206.200	252.840	ppb	0.9461	0.4	217.577

680-88303-a-1-a (Samp) 3/20/2013, 2:04:34 AM Rack 2, Tube 54
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2618u	0.0507	0.6275
Al 308.215	504.476	498.844	496.680
As 188.980	0.3373	-5.9401u	-0.4889u
B 249.678	11.4540	11.6221	11.8217
Ba 389.178	11.5508	11.8696	12.8186
Be 313.042	-0.0463u	-0.0407u	-0.0410u
Ca 370.602	6270	6232	6189
Cd 226.502	0.0584	0.1817	0.3524
Co 228.615	0.6598	0.3695	0.0442
Cr 267.716	0.6444	0.6695	0.5643
Cu 324.754	11.0046	11.0605	11.1053
Fe 271.441	529.708	532.519	527.693
K 766.491	1963.09	1961.87	1954.56
Mg 279.078	1375.20	1376.30	1370.18
Mn 257.610	13.4494	13.3903	13.3362
Mo 202.032	-0.0766u	0.4378	0.3660
Na 330.237	5064.29	5062.64	5117.04
Ni 231.604	8.0202	6.7023	6.7421
Pb 220.353	1.5816	-1.8172u	2.3389
Sb 206.834	-1.5422u	1.9994	-1.8259u
Se 196.026	-5.2020u	-5.2283u	3.0184
Sn 189.925	0.0817	4.3146	2.2972
Sr 216.596	15.6922	16.4730	16.3197
Ti 334.941	17.1437	17.1801	16.9614
Tl 190.794	-7.0166u	-3.1749u	1.3924
V 292.401	0.8130	0.9044	0.7994
Zn 206.200	242.244	240.538	243.954

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1388	ppb	0.4511	325.0	-50.7859
Al 308.215	500.000	ppb	4.0244	0.8	3212.50
As 188.980	-2.0306	ppb	3.4109	168.0	-1.3348
B 249.678	11.6326	ppb	0.1841	1.6	215.550
Ba 389.178	12.0797	ppb	0.6595	5.5	296.450
Be 313.042	-0.0427	ppb	0.0032	7.4	-225.856
Ca 370.602	6230	ppb	40.28	0.6	24657
Cd 226.502	0.1975	ppb	0.1476	74.8	17.3532
Co 228.615	0.3578	ppb	0.3079	86.0	18.4572
Cr 267.716	0.6261	ppb	0.0549	8.8	27.2784
Cu 324.754	11.0568	ppb	0.0505	0.5	777.646
Fe 271.441	529.973	ppb	2.4243	0.5	902.308
K 766.491	1959.84	ppb	4.6115	0.2	130401
Mg 279.078	1373.89	ppb	3.2655	0.2	3015.78
Mn 257.610	13.3919	ppb	0.0566	0.4	3188.40
Mo 202.032	0.2424	ppb	0.2786	114.9	16.4164
Na 330.237	5081.32	ppb	30.9435	0.6	270.505
Ni 231.604	7.1549	ppb	0.7497	10.5	19.6133
Pb 220.353	0.7011	ppb	2.2136	315.7	2.0403
Sb 206.834	-0.4562	ppb	2.1314	467.2	1.1996
Se 196.026	-2.4706	ppb	4.7537	192.4	-2.1591
Sn 189.925	2.2312	ppb	2.1172	94.9	3.0923
Sr 216.596	16.1617	ppb	0.4137	2.6	199.405
Ti 334.941	17.0951	ppb	0.1172	0.7	5483.24
Tl 190.794	-2.9330	ppb	4.2098	143.5	-1.9828
V 292.401	0.8389	ppb	0.0571	6.8	29.1525
Zn 206.200	242.245	ppb	1.7079	0.7	240.502

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88363-a-1-a (Samp) 3/20/2013, 2:10:00 AM Rack 2, Tube 55

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	197.112	196.981	197.056
Al 308.215	2267.93	2262.21	2269.58
As 188.980	-27.1368u	-24.3513u	-30.8002u
B 249.678	67.2427	66.0227	66.1839
Ba 389.178	30.5006	31.0940	30.5408
Be 313.042	-0.0524u	-0.0439u	-0.0441u
Ca 370.602	20736	20800	20754
Cd 226.502	8738.21x	8743.09x	8725.38x
Co 228.615	-1.6202	-1.9464	-1.9178
Cr 267.716	6445.51	6463.24	6447.45
Cu 324.754	169.243	169.383	168.579
Fe 271.441	1395.12	1398.79	1395.86
K 766.491	3496.01	3502.82	3508.07
Mg 279.078	2328.88	2328.19	2325.11
Mn 257.610	19.3495	19.3570	19.3133
Mo 202.032	1.5449	1.0803	1.5517
Na 330.237	13169.5	13355.5	13637.1
Ni 231.604	152.821	150.752	150.691
Pb 220.353	15.6902	8.1763	8.8766
Sb 206.834	-0.7653	0.4799	-4.5265
Se 196.026	-1.9472u	3.6741	-2.2094u
Sn 189.925	5.4333	3.6340	2.4870
Sr 216.596	95.7606	96.9175	94.9740
Ti 334.941	910.225	913.880	912.136
Tl 190.794	4.4294	1.9018	1.4786
V 292.401	37.3096	37.5848	37.0632
Zn 206.200	705.429	704.701	702.883

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	197.049b	ppb	0.0655	0.0	14876.4
Al 308.215	2266.57b	ppb	3.8662	0.2	13601.9
As 188.980	-27.4294b	ppb	3.2344	11.8	-15.5255
B 249.678	66.4831b	ppb	0.6628	1.0	704.158
Ba 389.178	30.7118b	ppb	0.3316	1.1	806.967
Be 313.042	-0.0468b	ppb	0.0048	10.3	-231.124
Ca 370.602	20763b	ppb	32.73	0.2	82374
Cd 226.502	8735.56xb	ppb	9.1494	0.1	346527
Co 228.615	-1.8282b	ppb	0.1806	9.9	39.8928
Cr 267.716	6452.06b	ppb	9.7257	0.2	307876
Cu 324.754	169.068b	ppb	0.4296	0.3	9426.00
Fe 271.441	1396.59b	ppb	1.9397	0.1	2385.35
K 766.491	3502.30b	ppb	6.0465	0.2	232821
Mg 279.078	2327.39b	ppb	2.0055	0.1	5097.14
Mn 257.610	19.3400b	ppb	0.0234	0.1	4584.05
Mo 202.032	1.3923b	ppb	0.2702	19.4	25.2639
Na 330.237	13387.4b	ppb	235.428	1.8	708.589
Ni 231.604	151.421b	ppb	1.2129	0.8	398.512
Pb 220.353	10.9144b	ppb	4.1507	38.0	19.7274
Sb 206.834	-1.6039b	ppb	2.6064	162.5	66.2468
Se 196.026	-0.1608b	ppb	3.3237	2066.5	-0.9521
Sn 189.925	3.8514b	ppb	1.4851	38.6	4.7446
Sr 216.596	95.8840b	ppb	0.9776	1.0	1136.34
Ti 334.941	912.080b	ppb	1.8284	0.2	293823
Tl 190.794	2.6033b	ppb	1.5956	61.3	2.3931
V 292.401	37.3192b	ppb	0.2609	0.7	715.576
Zn 206.200	704.338b	ppb	1.3113	0.2	869.573

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

680-88363-a-3-a (Samp) 3/20/2013, 2:15:25 AM Rack 2, Tube 56
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.2472	1.3108	1.5510
Al 308.215	30.9110	30.6736	31.7628
As 188.980	-4.0399u	-5.5367u	1.1714
B 249.678	48.6911	47.8858	48.7111
Ba 389.178	24.8667	25.2203	25.2901
Be 313.042	-0.0641u	-0.0629u	-0.0713u
Ca 370.602	12700	12732	12677
Cd 226.502	86.5899	86.5295	86.1600
Co 228.615	0.2237	0.2931	-0.3055u
Cr 267.716	25.0102	24.9989	24.7889
Cu 324.754	2.6824	2.6260	2.8151
Fe 271.441	22.9135	25.4122	22.1777
K 766.491	3524.96	3524.47	3512.76
Mg 279.078	2211.00	2205.01	2201.47
Mn 257.610	4.5602	4.4505	4.5257
Mo 202.032	-0.3674u	0.0803	-0.5802u
Na 330.237	13253.6	13188.5	12953.5
Ni 231.604	3.5013	2.8489	3.2573
Pb 220.353	0.5992	1.3918	2.9181
Sb 206.834	-1.4954u	-0.4366u	-3.2816u
Se 196.026	-4.0905u	0.8339	3.1012
Sn 189.925	0.5646	-1.6444u	-2.0669u
Sr 216.596	86.9919	87.2728	88.2229
Ti 334.941	6.7129	6.6527	6.6589
Tl 190.794	-5.1795u	0.3465	1.4971
V 292.401	0.1537	0.2914	0.2881
Zn 206.200	8.1279	8.8102	7.3372

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.3697	ppb	0.1602	11.7	39.1284
Al 308.215	31.1158	ppb	0.5728	1.8	454.822
As 188.980	-2.8018	ppb	3.5213	125.7	-1.7140
B 249.678	48.4293	ppb	0.4708	1.0	544.300
Ba 389.178	25.1257	ppb	0.2270	0.9	652.519
Be 313.042	-0.0661	ppb	0.0045	6.8	-274.961
Ca 370.602	12703	ppb	27.61	0.2	50357
Cd 226.502	86.4264	ppb	0.2327	0.3	3436.49
Co 228.615	0.0704	ppb	0.3274	464.9	14.6094
Cr 267.716	24.9327	ppb	0.1247	0.5	1186.60
Cu 324.754	2.7078	ppb	0.0971	3.6	320.522
Fe 271.441	23.5011	ppb	1.6954	7.2	43.4169
K 766.491	3520.73	ppb	6.9045	0.2	234044
Mg 279.078	2205.83	ppb	4.8167	0.2	4832.39
Mn 257.610	4.5121	ppb	0.0561	1.2	1122.67
Mo 202.032	-0.2891	ppb	0.3371	116.6	12.3127
Na 330.237	13131.9	ppb	157.836	1.2	708.065
Ni 231.604	3.2025	ppb	0.3296	10.3	9.2227
Pb 220.353	1.6364	ppb	1.1787	72.0	3.7256
Sb 206.834	-1.7379	ppb	1.4379	82.7	0.1120
Se 196.026	-0.0518	ppb	3.6767	7095.7	-0.9077
Sn 189.925	-1.0489	ppb	1.4132	134.7	-0.2236
Sr 216.596	87.4959	ppb	0.6451	0.7	1038.97
Ti 334.941	6.6748	ppb	0.0331	0.5	2129.67
Tl 190.794	-1.1119	ppb	3.5692	321.0	-0.5023
V 292.401	0.2444	ppb	0.0786	32.2	9.1053
Zn 206.200	8.0918	ppb	0.7371	9.1	9.9666

E03192013.wvq. All Data Report 3/20/2013, 1:33:49 PM

680-88363-a-2-a (Samp) 3/20/2013, 2:20:51 AM Rack 2, Tube 57

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	6.7635	6.3849	5.7809
Al 308.215	63.3446	59.6071	63.7375
As 188.980	-4.2607u	-2.1615u	-0.1634
B 249.678	45.1662	47.2846	45.2592
Ba 389.178	24.9893	23.3716	24.4290
Be 313.042	-0.0653u	-0.0525u	-0.0714u
Ca 370.602	12745	12698	12675
Cd 226.502	256.751	255.483	255.839
Co 228.615	0.5259	0.0565	0.0314
Cr 267.716	105.820	105.386	105.077
Cu 324.754	5.0118	4.8585	5.3502
Fe 271.441	63.6381	71.3709	75.4435
K 766.491	3437.59	3412.96	3416.00
Mg 279.078	2184.51	2171.56	2176.43
Mn 257.610	3.6588	3.5910	3.6313
Mo 202.032	0.0774	0.1213	-0.6061u
Na 330.237	11053.9	10843.2	10771.1
Ni 231.604	4.3078	4.7501	5.1244
Pb 220.353	-0.2625u	2.5917	2.4859
Sb 206.834	-1.1517u	-4.9089u	-0.8392
Se 196.026	3.2748	-5.9458u	-0.1240u
Sn 189.925	-3.4597u	-0.0930u	-0.6392u
Sr 216.596	87.0033	87.0826	86.4438
Ti 334.941	19.0618	19.0908	19.2632
Tl 190.794	-2.8175u	-2.2042u	-0.9019u
V 292.401	0.8697	0.5214	0.5531
Zn 206.200	18.5241	18.8111	17.9568

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	6.3098	ppb	0.4956	7.9	413.763
Al 308.215	62.2297	ppb	2.2797	3.7	637.842
As 188.980	-2.1952	ppb	2.0488	93.3	-1.3730
B 249.678	45.9033	ppb	1.1971	2.6	521.724
Ba 389.178	24.2633	ppb	0.8215	3.4	629.089
Be 313.042	-0.0631	ppb	0.0097	15.3	-268.180
Ca 370.602	12706	ppb	35.40	0.3	50367
Cd 226.502	256.024	ppb	0.6541	0.3	10164.1
Co 228.615	0.2046	ppb	0.2786	136.1	16.9689
Cr 267.716	105.428	ppb	0.3735	0.4	5027.04
Cu 324.754	5.0735	ppb	0.2516	5.0	450.019
Fe 271.441	70.1508	ppb	5.9965	8.5	122.721
K 766.491	3422.18	ppb	13.4284	0.4	227500
Mg 279.078	2177.50	ppb	6.5449	0.3	4770.56
Mn 257.610	3.6270	ppb	0.0341	0.9	916.282
Mo 202.032	-0.1358	ppb	0.4079	300.4	13.5016
Na 330.237	10889.4	ppb	146.933	1.3	586.562
Ni 231.604	4.7274	ppb	0.4087	8.6	13.2285
Pb 220.353	1.6050	ppb	1.6182	100.8	3.6609
Sb 206.834	-2.2999	ppb	2.2648	98.5	0.3544
Se 196.026	-0.9317	ppb	4.6631	500.5	-1.3648
Sn 189.925	-1.3973	ppb	1.8069	129.3	-0.5774
Sr 216.596	86.8432	ppb	0.3482	0.4	1031.29
Ti 334.941	19.1386	ppb	0.1089	0.6	6145.18
Tl 190.794	-1.9745	ppb	0.9782	49.5	-1.1898
V 292.401	0.6481	ppb	0.1926	29.7	16.0707
Zn 206.200	18.4306	ppb	0.4347	2.4	4307681

E03192013.wvq. All Data Report 3/20/2013, 1:33:49 PM

680-88370-e-1-a (Samp) **3/20/2013, 2:26:16 AM** **Rack 2, Tube 58**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3322u	-0.4242u	-0.2015u
Al 308.215	76.0817	74.9937	75.6878
As 188.980	4.6036	4.4228	7.7959
B 249.678	93.9673	92.7519	93.2319
Ba 389.178	16.7479	17.0885	17.1455
Be 313.042	-0.0462u	-0.0493u	-0.0390u
Ca 370.602	67427	67699	67745
Cd 226.502	0.2375	0.1322	0.1701
Co 228.615	0.0458	0.5114	0.2827
Cr 267.716	2.2800	2.2701	2.3315
Cu 324.754	71.9465	72.1743	72.3267
Fe 271.441	718.689	715.608	720.964
K 766.491	218050x	217501x	217636x
Mg 279.078	19097.9	19143.0	19153.5
Mn 257.610	22.0945	22.0801	22.1198
Mo 202.032	0.4063	-0.0455u	0.3719
Na 330.237	440897x	441562x	440890x
Ni 231.604	1.0155	3.9831	4.4287
Pb 220.353	2.1941	0.9041	3.8739
Sb 206.834	1.4936	4.5193	-2.4231u
Se 196.026	-0.8501u	0.8261	14.9304
Sn 189.925	0.4445	1.5513	-0.4711u
Sr 216.596	221.638	221.516	221.476
Ti 334.941	2.4055	2.3727	2.5126
Tl 190.794	-13.2922u	-12.9968u	-9.3206u
V 292.401	-0.0013u	0.2231	-0.0551u
Zn 206.200	67.9528	68.2386	66.5287

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3193b	ppb	0.1119	35.1	-95.6087
Al 308.215	75.5877b	ppb	0.5509	0.7	716.414
As 188.980	5.6075b	ppb	1.8974	33.8	3.4364
B 249.678	93.3170b	ppb	0.6121	0.7	944.524
Ba 389.178	16.9940b	ppb	0.2150	1.3	484.705
Be 313.042	-0.0448b	ppb	0.0053	11.8	-276.566
Ca 370.602	67624b	ppb	171.9	0.3	267948
Cd 226.502	0.1799b	ppb	0.0534	29.7	14.8025
Co 228.615	0.2800b	ppb	0.2328	83.2	17.2216
Cr 267.716	2.2939b	ppb	0.0330	1.4	114.590
Cu 324.754	72.1492b	ppb	0.1913	0.3	4121.42
Fe 271.441	718.420b	ppb	2.6880	0.4	1221.85
K 766.491	217729xb	ppb	285.740	0.1	14457461
Mg 279.078	19131.5b	ppb	29.5721	0.2	41787.0
Mn 257.610	22.0981b	ppb	0.0201	0.1	5337.99
Mo 202.032	0.2442b	ppb	0.2515	103.0	16.4229
Na 330.237	441116xb	ppb	386.081	0.1	23858.7
Ni 231.604	3.1424b	ppb	1.8554	59.0	9.0792
Pb 220.353	2.3240b	ppb	1.4891	64.1	4.9595
Sb 206.834	1.1966b	ppb	3.4807	290.9	2.9391
Se 196.026	4.9688b	ppb	8.6676	174.4	1.7099
Sn 189.925	0.5082b	ppb	1.0127	199.3	1.5654
Sr 216.596	221.543b	ppb	0.0841	0.0	2621.98
Ti 334.941	2.4303b	ppb	0.0732	3.0	812.300
Tl 190.794	-11.8698b	ppb	2.2127	18.6	-9.1179
V 292.401	0.0555b	ppb	0.1475	265.7	1.2038
Zn 206.200	67.5734b	ppb	0.9159	204.4	848269

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680-88419-a-1-a (Samp) **3/20/2013, 2:31:42 AM** **Rack 2, Tube 59**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.8727u	-1.8197u	-1.0916u
Al 308.215	138.182	135.367	136.892
As 188.980	-2.2317u	-2.9014u	2.8224
B 249.678	134.054	136.262	136.623
Ba 389.178	5.0956	4.7052	5.3307
Be 313.042	-0.0928u	-0.0995u	-0.0930u
Ca 370.602	156554	156207	157378
Cd 226.502	-0.0201u	0.0981	0.0456
Co 228.615	0.3911	0.5735	-0.1006u
Cr 267.716	0.2820	0.1680	0.2222
Cu 324.754	5.3204	5.1845	5.7954
Fe 271.441	80.8152	70.1918	77.4888
K 766.491	10034.8	9972.67	9958.16
Mg 279.078	1737.07	1731.01	1731.42
Mn 257.610	9.4773	9.4623	9.4365
Mo 202.032	1.2836	-0.0570u	0.9743
Na 330.237	46405.7	46021.0	46202.0
Ni 231.604	1.9020	1.3656	2.5672
Pb 220.353	0.0804	-0.4595u	-2.7647u
Sb 206.834	-0.6926u	-0.3441u	9.3225
Se 196.026	-1.0741u	-2.5574u	3.1728
Sn 189.925	-3.7806u	0.5814	0.7640
Sr 216.596	2523.79	2532.69	2536.11
Ti 334.941	0.3635	0.3101	0.3269
Tl 190.794	-5.7193u	-2.1481u	1.8082
V 292.401	-1.3611u	-1.3877u	-1.4286u
Zn 206.200	53.4755	53.8173	50.9413

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.2613	ppb	0.4958	39.3	-276.091
Al 308.215	136.814	ppb	1.4093	1.0	1076.58
As 188.980	-0.7702	ppb	3.1293	406.3	0.5425
B 249.678	135.646	ppb	1.3906	1.0	1322.43
Ba 389.178	5.0438	ppb	0.3160	6.3	105.707
Be 313.042	-0.0951	ppb	0.0038	4.0	-284.725
Ca 370.602	156713	ppb	601.3	0.4	621086
Cd 226.502	0.0412	ppb	0.0592	143.7	9.7489
Co 228.615	0.2880	ppb	0.3487	121.1	17.0929
Cr 267.716	0.2241	ppb	0.0570	25.5	8.6799
Cu 324.754	5.4334	ppb	0.3208	5.9	469.752
Fe 271.441	76.1653	ppb	5.4340	7.1	132.712
K 766.491	9988.56	ppb	40.7323	0.4	663507
Mg 279.078	1733.17	ppb	3.3853	0.2	3800.30
Mn 257.610	9.4587	ppb	0.0206	0.2	2274.49
Mo 202.032	0.7336	ppb	0.7019	95.7	20.2645
Na 330.237	46209.6	ppb	192.445	0.4	2497.05
Ni 231.604	1.9449	ppb	0.6020	31.0	5.9212
Pb 220.353	-1.0479	ppb	1.5111	144.2	-1.0695
Sb 206.834	2.7619	ppb	5.6843	205.8	4.5179
Se 196.026	-0.1529	ppb	2.9741	1945.1	-0.9586
Sn 189.925	-0.8117	ppb	2.5727	316.9	0.1049
Sr 216.596	2530.86	ppb	6.3572	0.3	29792.4
Ti 334.941	0.3335	ppb	0.0273	8.2	81.3578
Tl 190.794	-2.0197	ppb	3.7654	186.4	-1.2336
V 292.401	-1.3925	ppb	0.0340	2.4	-39.9346
Zn 206.200	52.7447	ppb	1.5711	3.0	661839

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680-88407-h-1-a (Samp) 3/20/2013, 2:37:09 AM Rack 2, Tube 60

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1524	0.1859	-0.3939u
Al 308.215	74.8195	69.5360	71.9086
As 188.980	-5.0265u	4.1715	1.9274
B 249.678	4381.48	4408.31	4436.39
Ba 389.178	77.3349	77.1185	77.3189
Be 313.042	-0.0688u	-0.0712u	-0.0657u
Ca 370.602	42611	42432	42533
Cd 226.502	0.0858	0.2144	0.1187
Co 228.615	0.1725	-0.4115u	0.5199
Cr 267.716	0.8143	0.7854	0.7651
Cu 324.754	10.5963	10.5367	10.3837
Fe 271.441	463.600	457.615	461.785
K 766.491	5799.31	5778.55	5767.17
Mg 279.078	6523.03	6518.41	6541.22
Mn 257.610	36.7599	36.7077	36.7569
Mo 202.032	3.3965	3.4540	3.1620
Na 330.237	104186x	103449x	103395x
Ni 231.604	0.7319	0.6498	1.4109
Pb 220.353	5.1454	5.5510	6.1679
Sb 206.834	-2.2543u	0.5550	-1.2275u
Se 196.026	9.6386	-3.3980u	-2.3429u
Sn 189.925	0.7531	0.6089	-5.4866u
Sr 216.596	156.794	155.782	155.893
Ti 334.941	1.5534	1.5263	1.4783
Tl 190.794	-4.8438u	0.2326	-0.1439u
V 292.401	-0.0363u	-0.3947u	-0.2491u
Zn 206.200	74.0350	75.5317	76.7137

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0186b	ppb	0.3255	1754.2	-69.4031
Al 308.215	72.0880b	ppb	2.6463	3.7	696.316
As 188.980	0.3575b	ppb	4.7958	1341.6	0.2897
B 249.678	4408.72b	ppb	27.4584	0.6	39446.8
Ba 389.178	77.2575b	ppb	0.1206	0.2	2082.49
Be 313.042	-0.0685b	ppb	0.0028	4.0	-281.241
Ca 370.602	42525b	ppb	89.86	0.2	168503
Cd 226.502	0.1396b	ppb	0.0668	47.8	14.3717
Co 228.615	0.0937b	ppb	0.4707	502.6	14.5144
Cr 267.716	0.7883b	ppb	0.0247	3.1	36.8147
Cu 324.754	10.5056b	ppb	0.1097	1.0	747.570
Fe 271.441	461.000b	ppb	3.0687	0.7	785.248
K 766.491	5781.68b	ppb	16.2979	0.3	384171
Mg 279.078	6527.55b	ppb	12.0594	0.2	14267.8
Mn 257.610	36.7415b	ppb	0.0293	0.1	8666.52
Mo 202.032	3.3375b	ppb	0.1547	4.6	40.4856
Na 330.237	103677xb	ppb	442.111	0.4	5605.36
Ni 231.604	0.9309b	ppb	0.4178	44.9	3.2659
Pb 220.353	5.6214b	ppb	0.5149	9.2	10.8510
Sb 206.834	-0.9756b	ppb	1.4215	145.7	0.6130
Se 196.026	1.2992b	ppb	7.2413	557.4	-0.1947
Sn 189.925	-1.3749b	ppb	3.5616	259.0	-0.4996
Sr 216.596	156.156b	ppb	0.5553	0.4	1849.94
Ti 334.941	1.5193b	ppb	0.0381	2.5	483.204
Tl 190.794	-1.5850b	ppb	2.8285	178.4	-0.9359
V 292.401	-0.2267b	ppb	0.1802	79.5	-5.3364
Zn 206.200	75.4268b	ppb	1.3424	1.8	94.7079

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Cont Calib Verif (CCV) 3/20/2013, 2:42:35 AM Rack 3, Tube 1
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	494.959	495.541	498.938
Al 308.215	4987.88	4970.76	4919.46
As 188.980	493.244	487.292	497.589
B 249.678	2564.40	2575.08	2574.46
Ba 389.178	4859.20	4844.87	4832.95
Be 313.042	488.600	486.041	484.210
Ca 370.602	4893	4879	4861
Cd 226.502	492.889	490.241	489.565
Co 228.615	496.599	495.917	492.913
Cr 267.716	4844.03	4819.29	4811.27
Cu 324.754	4713.35	4785.47	4879.86
Fe 271.441	5038.30	5015.48	5011.94
K 766.491	9800.83	9781.08	9693.76
Mg 279.078	4923.73	4905.36	4890.70
Mn 257.610	4972.68	4948.76	4934.61
Mo 202.032	485.902	483.905	484.434
Na 330.237	7524.72	7486.44	7086.33
Ni 231.604	2469.43	2453.06	2463.75
Pb 220.353	494.029	489.344	489.185
Sb 206.834	939.333	949.381	954.874
Se 196.026	4813.59	4802.24	4764.68
Sn 189.925	5001.35	4951.91	4968.35
Sr 216.596	2394.36	2379.95	2372.92
Ti 334.941	475.161	472.693	471.525
Tl 190.794	4960.94	4938.91	4938.25
V 292.401	4911.64	4897.21	4880.06
Zn 206.200	2501.04	2490.53	2496.20

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	496.479	ppb	2.1492	0.4	37526.4	99.29585
Al 308.215	4959.37	ppb	35.6040	0.7	29416.2	99.18735
As 188.980	492.708	ppb	5.1695	1.0	276.939	98.54169
B 249.678	2571.31	ppb	5.9954	0.2	23049.2	102.85237
Ba 389.178	4845.67	ppb	13.1430	0.3	131618	96.91346
Be 313.042	486.283	ppb	2.2049	0.5	1049195	97.25667
Ca 370.602	4878	ppb	15.93	0.3	19175	97.55939
Cd 226.502	490.898	ppb	1.7568	0.4	19493.8	98.17969
Co 228.615	495.143	ppb	1.9607	0.4	6350.00	99.02855
Cr 267.716	4824.86	ppb	17.0733	0.4	230262	96.49729
Cu 324.754	4792.90	ppb	83.5035	1.7	262460	95.85791
Fe 271.441	5021.90	ppb	14.3103	0.3	8640.37	100.43809
K 766.491	9758.56	ppb	56.9769	0.6	648236	97.58558
Mg 279.078	4906.60	ppb	16.5486	0.3	10646.7	98.13194
Mn 257.610	4952.02	ppb	19.2426	0.4	1154519	99.04034
Mo 202.032	484.747	ppb	1.0348	0.2	3773.05	96.94945
Na 330.237	7365.83	ppb	242.810	3.3	371.287	98.21102
Ni 231.604	2462.08	ppb	8.3109	0.3	6466.88	98.48325
Pb 220.353	490.853	ppb	2.7521	0.6	877.832	98.17058
Sb 206.834	947.862	ppb	7.8810	0.8	1032.44	94.78624
Se 196.026	4793.50	ppb	25.5985	0.5	2491.10	95.87004
Sn 189.925	4973.87	ppb	25.1795	0.5	5039.35	99.47734
Sr 216.596	2382.41	ppb	10.9282	0.5	27966.7	95.29652
Ti 334.941	473.126	ppb	1.8567	0.4	152421	94.62529
Tl 190.794	4946.03	ppb	12.9133	0.3	3934.99	98.92065
V 292.401	4896.30	ppb	15.8067	0.3	149653	97.92606
Zn 206.200	2495.92	ppb	5.2604	0.2	3126.75	99.83694

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

Cont Calib Blank (CCB) 3/20/2013, 2:48:01 AM Rack 3, Tube 2

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4143	0.3340	0.0197
Al 308.215	0.1756	-0.7581u	-1.4669u
As 188.980	4.3216	8.7943	2.9657
B 249.678	25.7267	21.1910	18.4474
Ba 389.178	0.3897	1.4154	0.3366
Be 313.042	-0.0078u	-0.0110u	-0.0256u
Ca 370.602	2.079	0.1779	1.475
Cd 226.502	0.0139	0.0622	0.2044
Co 228.615	-0.1151u	0.2180	0.2176
Cr 267.716	0.7372	0.6244	0.5472
Cu 324.754	-0.1993u	0.1924	-0.1163u
Fe 271.441	4.3703	7.8410	-1.9290u
K 766.491	0.5866	0.1827	0.4205
Mg 279.078	0.7923	4.8239	4.8875
Mn 257.610	0.5199	0.4294	0.4202
Mo 202.032	0.2818	0.0695	-0.5626u
Na 330.237	-79.7397u	61.8958	-98.0694u
Ni 231.604	-0.6465u	0.4276	0.5316
Pb 220.353	0.8741	1.2913	1.7342
Sb 206.834	0.9846	2.1023	3.7670
Se 196.026	9.5929	5.9909	3.2057
Sn 189.925	-0.0462u	0.3742	0.4601
Sr 216.596	0.1019	0.8144	0.1902
Ti 334.941	-0.0464u	0.0093	-0.0256u
Tl 190.794	6.4801	2.2232	3.7248
V 292.401	0.6452	0.3728	0.3679
Zn 206.200	1.4930	1.9009	0.2185

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2560	ppb	0.2085	81.5	-41.1788	0.25600
Al 308.215	-0.6832	ppb	0.8238	120.6	267.806	-0.68316
As 188.980	5.3605	ppb	3.0500	56.9	2.7822	5.36055
B 249.678	21.7884	ppb	3.6762	16.9	306.625	21.78836
Ba 389.178	0.7139	ppb	0.6081	85.2	-17.3327	0.71390
Be 313.042	-0.0148	ppb	0.0095	64.1	-167.350	-0.01482
Ca 370.602	1.244	ppb	0.9712	78.1	18.29	1.24379
Cd 226.502	0.0935	ppb	0.0990	105.9	11.8797	0.09352
Co 228.615	0.1068	ppb	0.1922	179.9	14.7885	0.10682
Cr 267.716	0.6363	ppb	0.0955	15.0	27.4694	0.63629
Cu 324.754	-0.0411	ppb	0.2064	502.3	170.058	-0.04109
Fe 271.441	3.4274	ppb	4.9528	144.5	9.3502	3.42743
K 766.491	0.3966	ppb	0.2030	51.2	293.993	0.39659
Mg 279.078	3.5013	ppb	2.3462	67.0	23.9986	3.50126
Mn 257.610	0.4565	ppb	0.0551	12.1	162.067	0.45653
Mo 202.032	-0.0704	ppb	0.4393	623.6	14.0135	-0.07044
Na 330.237	-38.6378	ppb	87.5456	226.6	-4.2592	-38.63776
Ni 231.604	0.1043	ppb	0.6522	625.6	1.0854	0.10425
Pb 220.353	1.2999	ppb	0.4301	33.1	3.1277	1.29986
Sb 206.834	2.2846	ppb	1.4001	61.3	4.0339	2.28461
Se 196.026	6.2632	ppb	3.2023	51.1	2.3723	6.26316
Sn 189.925	0.2627	ppb	0.2709	103.1	1.0930	0.26272
Sr 216.596	0.3689	ppb	0.3884	105.3	12.8863	0.36885
Ti 334.941	-0.0209	ppb	0.0281	134.6	-37.7408	-0.02091
Tl 190.794	4.1427	ppb	2.1590	52.1	3.6881	4.14268
V 292.401	0.4620	ppb	0.1587	34.4	17.4078	0.46198
Zn 206.200	1.2041	ppb	0.8776	72.8	43.3648	1.20411

CRI (Samp) 3/20/2013, 2:53:28 AM Rack 3, Tube 3
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	9.3852	9.5149	9.3736
Al 308.215	219.572	219.728	223.100
As 188.980	18.8359	18.1192	15.4079
B 249.678	103.113	101.791	105.578
Ba 389.178	10.4767	10.3172	10.4561
Be 313.042	3.9928	3.9716	4.0469
Ca 370.602	548.2	549.2	556.0
Cd 226.502	5.0557	4.9215	5.0829
Co 228.615	10.7981	9.3625	10.0584
Cr 267.716	10.2897	9.7366	10.0193
Cu 324.754	19.3309	18.6773	19.4930
Fe 271.441	48.5197	58.1632	56.3028
K 766.491	1021.54	1014.69	1039.98
Mg 279.078	520.298	516.908	523.089
Mn 257.610	11.0648	11.0240	11.3189
Mo 202.032	8.7540	9.1214	9.3673
Na 330.237	1007.00	1006.24	923.813
Ni 231.604	38.7508	39.1370	39.5906
Pb 220.353	10.7874	10.9430	11.3906
Sb 206.834	20.6385	21.0028	22.3871
Se 196.026	22.7446	16.7360	22.7906
Sn 189.925	50.1873	47.5618	50.8273
Sr 216.596	9.5844	9.7546	9.8462
Ti 334.941	10.2347	10.0125	10.2712
Tl 190.794	20.8542	17.3488	25.3805
V 292.401	10.4042	10.0675	10.4350
Zn 206.200	21.8499	20.8954	22.0138

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.4246	ppb	0.0785	0.8	653.680
Al 308.215	220.800	ppb	1.9936	0.9	1571.50
As 188.980	17.4543	ppb	1.8081	10.4	9.5902
B 249.678	103.494	ppb	1.9217	1.9	1035.56
Ba 389.178	10.4166	ppb	0.0868	0.8	247.972
Be 313.042	4.0038	ppb	0.0388	1.0	8504.55
Ca 370.602	551.1	ppb	4.283	0.8	2195
Cd 226.502	5.0200	ppb	0.0864	1.7	207.450
Co 228.615	10.0730	ppb	0.7179	7.1	142.094
Cr 267.716	10.0152	ppb	0.2766	2.8	475.087
Cu 324.754	19.1671	ppb	0.4318	2.3	1221.55
Fe 271.441	54.3286	ppb	5.1159	9.4	97.2903
K 766.491	1025.40	ppb	13.0775	1.3	68354.4
Mg 279.078	520.098	ppb	3.0955	0.6	1151.68
Mn 257.610	11.1359	ppb	0.1598	1.4	2655.34
Mo 202.032	9.0809	ppb	0.3086	3.4	85.1378
Na 330.237	979.015	ppb	47.8082	4.9	50.5258
Ni 231.604	39.1595	ppb	0.4204	1.1	103.654
Pb 220.353	11.0403	ppb	0.3132	2.8	20.5087
Sb 206.834	21.3428	ppb	0.9225	4.3	23.8086
Se 196.026	20.7571	ppb	3.4824	16.8	9.9064
Sn 189.925	49.5254	ppb	1.7304	3.5	50.9967
Sr 216.596	9.7284	ppb	0.1329	1.4	121.955
Ti 334.941	10.1728	ppb	0.1400	1.4	3248.96
Tl 190.794	21.1945	ppb	4.0266	19.0	17.2567
V 292.401	10.3022	ppb	0.2038	2.0	316.510
Zn 206.200	21.5863	ppb	0.6040	2.8	26.9741

E03192013.wvq. All Data Report 3/20/2013, 1:33:49 PM

CCV (Samp) 3/20/2013, 2:58:54 AM Rack 3, Tube 4

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	494.125	498.815	494.150
Al 308.215	4936.79	4986.98	4957.77
As 188.980	471.239	491.338	492.608
B 249.678	2527.46	2542.57	2546.83
Ba 389.178	4839.73	4856.24	4829.94
Be 313.042	486.590	487.142	484.047
Ca 370.602	4872	4886	4852
Cd 226.502	490.877	491.773	489.433
Co 228.615	495.066	496.339	492.814
Cr 267.716	4825.28	4841.43	4815.32
Cu 324.754	4841.08	4793.36	4801.16
Fe 271.441	5005.88	5022.45	5001.91
K 766.491	9691.17	9741.69	9720.93
Mg 279.078	4899.03	4902.35	4875.64
Mn 257.610	4948.16	4952.07	4924.37
Mo 202.032	484.759	486.163	484.713
Na 330.237	7329.48	7162.12	7210.55
Ni 231.604	2456.80	2465.94	2453.21
Pb 220.353	492.081	490.749	491.308
Sb 206.834	954.662	945.058	947.215
Se 196.026	4799.65	4805.83	4779.19
Sn 189.925	4989.24	4975.50	4949.54
Sr 216.596	2385.19	2388.70	2372.89
Ti 334.941	472.724	474.065	470.921
Tl 190.794	4945.71	4942.16	4912.74
V 292.401	4885.16	4904.04	4876.59
Zn 206.200	2505.23	2502.66	2501.40

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	495.697	ppb	2.7009	0.5	37466.9
Al 308.215	4960.51	ppb	25.2035	0.5	29422.9
As 188.980	485.062	ppb	11.9877	2.5	272.636
B 249.678	2538.95	ppb	10.1800	0.4	22760.5
Ba 389.178	4841.97	ppb	13.2953	0.3	131518
Be 313.042	485.926	ppb	1.6503	0.3	1048425
Ca 370.602	4870	ppb	17.02	0.3	19144
Cd 226.502	490.695	ppb	1.1806	0.2	19485.7
Co 228.615	494.740	ppb	1.7854	0.4	6344.91
Cr 267.716	4827.34	ppb	13.1730	0.3	230380
Cu 324.754	4811.87	ppb	25.5958	0.5	263499
Fe 271.441	5010.08	ppb	10.8968	0.2	8620.34
K 766.491	9717.93	ppb	25.3961	0.3	645538
Mg 279.078	4892.34	ppb	14.5598	0.3	10615.7
Mn 257.610	4941.53	ppb	14.9941	0.3	1152074
Mo 202.032	485.212	ppb	0.8242	0.2	3776.68
Na 330.237	7234.05	ppb	86.1198	1.2	364.108
Ni 231.604	2458.65	ppb	6.5607	0.3	6457.87
Pb 220.353	491.379	ppb	0.6689	0.1	878.772
Sb 206.834	948.978	ppb	5.0386	0.5	1033.63
Se 196.026	4794.89	ppb	13.9420	0.3	2491.82
Sn 189.925	4971.43	ppb	20.1628	0.4	5036.88
Sr 216.596	2382.26	ppb	8.2997	0.3	27964.9
Ti 334.941	472.570	ppb	1.5776	0.3	152241
Tl 190.794	4933.53	ppb	18.0981	0.4	3925.04
V 292.401	4888.59	ppb	14.0438	0.3	149417
Zn 206.200	2503.10	ppb	1.9482	0.1	3135.77

E03192013.vvq. All Data Report 3/20/2013, 1:33:49 PM

CCB (Samp) 3/20/2013, 3:04:20 AM Rack 3, Tube 5

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0987u	-0.5629u	0.3050
Al 308.215	-1.4116u	-0.7201u	-1.1623u
As 188.980	-0.9546u	-5.5734u	1.7180
B 249.678	18.9908	16.0871	13.2483
Ba 389.178	0.6777	0.0964	1.3105
Be 313.042	-0.0130u	-0.0128u	-0.0037u
Ca 370.602	-3.700u	-2.440u	-1.376u
Cd 226.502	-0.0726u	0.0977	0.0906
Co 228.615	-0.2977u	-0.3058u	0.0228
Cr 267.716	0.6663	0.5110	0.5733
Cu 324.754	0.0032	0.0732	-0.4505u
Fe 271.441	-2.4536u	3.8609	-0.6391u
K 766.491	0.2910	0.3168	0.0483
Mg 279.078	4.1047	4.1562	7.1838
Mn 257.610	0.5391	0.4691	0.5187
Mo 202.032	0.3822	0.3432	-0.5603u
Na 330.237	97.5246	-112.237u	-29.9697u
Ni 231.604	-1.1784u	-0.2503u	0.4843
Pb 220.353	-3.0244u	-0.8731u	1.5371
Sb 206.834	2.1956	0.5246	3.0288
Se 196.026	-1.0775u	-2.2549u	7.5007
Sn 189.925	0.8830	-1.7468u	-0.4253u
Sr 216.596	0.5319	-0.0152u	0.6314
Ti 334.941	-0.0283u	-0.0522u	-0.0356u
Tl 190.794	-1.7445u	3.7647	2.4543
V 292.401	0.7153	0.3806	0.2210
Zn 206.200	0.7777	-0.9119u	0.2484

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1189	ppb	0.4343	365.4	-69.6095
Al 308.215	-1.0980	ppb	0.3502	31.9	265.392
As 188.980	-1.6034	ppb	3.6888	230.1	-1.1372
B 249.678	16.1087	ppb	2.8713	17.8	255.951
Ba 389.178	0.6949	ppb	0.6072	87.4	-17.8430
Be 313.042	-0.0098	ppb	0.0053	53.8	-156.564
Ca 370.602	-2.505	ppb	1.163	46.4	3.366
Cd 226.502	0.0386	ppb	0.0964	249.9	9.7005
Co 228.615	-0.1936	ppb	0.1874	96.8	10.9405
Cr 267.716	0.5835	ppb	0.0782	13.4	24.9536
Cu 324.754	-0.1247	ppb	0.2843	227.9	165.486
Fe 271.441	0.2561	ppb	3.2510	1269.6	3.8952
K 766.491	0.2187	ppb	0.1481	67.7	282.181
Mg 279.078	5.1482	ppb	1.7631	34.2	27.5940
Mn 257.610	0.5090	ppb	0.0360	7.1	174.306
Mo 202.032	0.0550	ppb	0.5333	969.2	14.9889
Na 330.237	-14.8941	ppb	105.690	709.6	-2.9660
Ni 231.604	-0.3148	ppb	0.8332	264.7	-0.0151
Pb 220.353	-0.7868	ppb	2.2820	290.0	-0.6011
Sb 206.834	1.9164	ppb	1.2752	66.5	3.6491
Se 196.026	1.3895	ppb	5.3252	383.3	-0.1600
Sn 189.925	-0.4297	ppb	1.3149	306.0	0.3916
Sr 216.596	0.3827	ppb	0.3482	91.0	13.0429
Ti 334.941	-0.0387	ppb	0.0122	31.6	-43.4616
Tl 190.794	1.4915	ppb	2.8780	193.0	1.5766
V 292.401	0.4390	ppb	0.2523	57.5	16.6665
Zn 206.200	0.0381	ppb	0.8642	2267.8	40.1014

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

Blank (Blk)	3/21/2013, 9:49:15 AM		Rack S, Tube 1
Label	Replicates Concentration		
Ag 328.068	0.3785	-0.1307	-0.2478
Al 308.215	-0.4386	-1.3554	1.7939
As 188.980	0.9676	0.9493	-1.9169
B 249.678	0.1160	0.2446	-0.3606
Ba 389.178	0.3157	-0.4549	0.1393
Be 313.042	-0.0009	0.0024	-0.0016
Ca 370.602	0.1301	-3.818	3.688
Cd 226.502	-0.0870	-0.1161	0.2031
Co 228.615	0.1333	0.3020	-0.4353
Cr 267.716	0.3193	-0.2065	-0.1129
Cu 324.754	-0.3955	-0.1162	0.5117
Fe 271.441	-0.7274	1.2791	-0.5517
K 766.491	-0.1508	-0.3596	0.5104
Mg 279.078	-1.8341	4.3564	-2.5222
Mn 257.610	0.0338	0.0048	-0.0386
Mo 202.032	-0.3299	0.1323	0.1976
Na 330.237	-134.349	76.4492	57.9001
Ni 231.604	0.7372	-0.5710	-0.1662
Pb 220.353	1.5444	-3.9174	2.3731
Sb 206.834	-4.0162	2.4087	1.6074
Se 196.026	5.9561	-10.0982	4.1422
Sn 189.925	-1.1690	1.1744	-0.0054
Sr 216.596	-0.2835	0.1752	0.1083
Ti 334.941	0.0081	-0.0142	0.0061
Tl 190.794	-1.5190	3.5245	-2.0055
V 292.401	0.0828	0.1086	-0.1914
Zn 206.200	0.9178	-0.7605	-0.1573

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	0.0000	ppb	23.757	43.8	-54.3016
Al 308.215	0.0000	ppb	9.462	3.6	266.024
As 188.980	0.0000	ppb	1.035	45.9	-2.2570
B 249.678	0.0000	ppb	3.018	6.8	44.6216
Ba 389.178	0.0000	ppb	10.668	41.6	-25.6357
Be 313.042	0.0000	ppb	4.428	1.6	-270.844
Ca 370.602	0.0000	ppb	13.795	572.3	-2.410
Cd 226.502	0.0000	ppb	6.963	78.0	8.9245
Co 228.615	0.0000	ppb	4.929	34.6	14.2614
Cr 267.716	0.0000	ppb	12.817	170.2	7.5320
Cu 324.754	0.0000	ppb	24.363	14.7	165.743
Fe 271.441	0.0000	ppb	1.942	28.5	6.8241
K 766.491	0.0000	ppb	27.770	9.1	305.386
Mg 279.078	0.0000	ppb	8.280	27.8	29.8200
Mn 257.610	0.0000	ppb	8.605	12.3	69.7033
Mo 202.032	0.0000	ppb	2.110	21.7	9.7235
Na 330.237	0.0000	ppb	6.262	101.9	-6.1421
Ni 231.604	0.0000	ppb	1.780	128.5	-1.3847
Pb 220.353	0.0000	ppb	5.840	852.2	0.6853
Sb 206.834	0.0000	ppb	3.542	114.6	-3.0912
Se 196.026	0.0000	ppb	4.119	672.3	0.6127
Sn 189.925	0.0000	ppb	1.088	232.3	-0.4684
Sr 216.596	0.0000	ppb	2.678	45.8	5.8446
Ti 334.941	0.0000	ppb	3.700	3.0	-121.467
Tl 190.794	0.0000	ppb	2.316	358.5	-0.6459
V 292.401	0.0000	ppb	5.002	135.8	3.6839
Zn 206.200	0.0000	ppb	1.158	61.2	1.8937

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

HIGH STD (Std) 3/21/2013, 9:54:39 AM Rack S, Tube 2

Label	Replicates Concentration		
Ag 328.068	1003.03	996.084	1000.89
Al 308.215	10006.9	10020.3	9972.85
As 188.980	993.220	1006.31	1000.47
B 249.678	4982.96	5002.23	5014.81
Ba 389.178	10009.4	10028.4	9962.19
Be 313.042	1000.26	1003.65	996.093
Ca 370.602	9991	10038	9971
Cd 226.502	1000.71	1002.45	996.841
Co 228.615	1002.55	1000.32	997.129
Cr 267.716	10014.9	10025.8	9959.36
Cu 324.754	9967.59	10032.9	9999.55
Fe 271.441	10014.5	10011.9	9973.59
K 766.491	20033.3	20021.9	19944.8
Mg 279.078	10020.0	10008.6	9971.44
Mn 257.610	10023.8	10025.2	9950.99
Mo 202.032	999.978	1002.72	997.301
Na 330.237	15278.4	14935.2	14786.4
Ni 231.604	5016.40	4996.70	4986.90
Pb 220.353	997.301	1007.94	994.756
Sb 206.834	5013.74	5008.14	4978.12
Se 196.026	10034.2	10013.6	9952.21
Sn 189.925	9979.73	10003.4	10016.9
Sr 216.596	5002.52	5017.14	4980.34
Ti 334.941	1000.32	1002.87	996.810
Tl 190.794	10046.7	10011.4	9941.84
V 292.401	10002.5	10029.3	9968.20
Zn 206.200	5010.02	5012.82	4977.15

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	1000.00	ppb	253.738	0.4	71294.4
Al 308.215	10000.0	ppb	142.790	0.2	58683.3
As 188.980	1000.00	ppb	4.091	0.7	621.454
B 249.678	5000.00	ppb	151.872	0.3	47368.8
Ba 389.178	10000.0	ppb	900.834	0.3	264196
Be 313.042	1000.00	ppb	7849.660	0.4	2073707
Ca 370.602	10000	ppb	127.102	0.3	36735
Cd 226.502	1000.00	ppb	113.220	0.3	39467.8
Co 228.615	1000.00	ppb	34.759	0.3	12773.7
Cr 267.716	10000.0	ppb	1627.331	0.4	456968
Cu 324.754	10000.0	ppb	1711.276	0.3	524550
Fe 271.441	10000.0	ppb	40.032	0.2	17483.4
K 766.491	20000.0	ppb	2943.717	0.2	1223211
Mg 279.078	10000.0	ppb	55.458	0.3	21885.3
Mn 257.610	10000.0	ppb	10027.973	0.4	2362214
Mo 202.032	1000.00	ppb	19.879	0.3	7345.85
Na 330.237	15000.0	ppb	13.537	1.7	798.572
Ni 231.604	5000.00	ppb	39.913	0.3	13283.1
Pb 220.353	1000.00	ppb	11.953	0.7	1709.44
Sb 206.834	5000.00	ppb	19.376	0.4	5054.76
Se 196.026	10000.0	ppb	19.977	0.4	4685.07
Sn 189.925	10000.0	ppb	17.451	0.2	9283.24
Sr 216.596	5000.00	ppb	200.271	0.4	54055.4
Ti 334.941	1000.00	ppb	912.986	0.3	299856
Tl 190.794	10000.0	ppb	40.357	0.5	7561.65
V 292.401	10000.0	ppb	921.612	0.3	300881
Zn 206.200	5000.00	ppb	27.019	0.4	6812.97

Ag 328.068 Calibration (ppb) 3/21/2013, 9:54:39 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-54.3016	0.0000	0.0000	-	-
HIGH STD		71294.4	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 71.3 x + -54.3$

Al 308.215 Calibration (ppb) 3/21/2013, 9:54:39 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		266.024	0.0000	0.0000	-	-
HIGH STD		58683.3	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 5.8 x + 266.0$

As 188.980 Calibration (ppb) 3/21/2013, 9:54:39 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-2.2570	0.0000	0.0000	-	-
HIGH STD		621.454	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 0.6 x + -2.3$

B 249.678 Calibration (ppb) 3/21/2013, 9:54:39 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		44.6216	0.0000	0.0000	-	-
HIGH STD		47368.8	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 9.5 x + 44.6$

Ba 389.178 Calibration (ppb) 3/21/2013, 9:54:39 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-25.6357	0.0000	0.0000	-	-
HIGH STD		264196	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 26.4 x + -25.6$

Be 313.042 Calibration (ppb) 3/21/2013, 9:54:39 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-270.844	0.0000	0.0000	-	-
HIGH STD		2073707	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation: $y = 2074.0 x + -270.8$

Ca 370.602 Calibration (ppb) 3/21/2013, 9:54:39 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-2.410	0.0000	0.0000	-	-
HIGH STD		36735	10000	10000	0.0000	0.0

Curve Type: Linear Equation: $y = 3.7 x + -2.4$

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

Cd 226.502 Calibration (ppb) 3/21/2013, 9:54:39 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		8.9245	0.0000	0.0000	-	-
HIGH STD		39467.8	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 39.5 x + 8.9$ **Co 228.615 Calibration (ppb) 3/21/2013, 9:54:39 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		14.2614	0.0000	0.0000	-	-
HIGH STD		12773.7	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation: $y = 12.8 x + 14.3$ **Cr 267.716 Calibration (ppb) 3/21/2013, 9:54:39 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		7.5320	0.0000	0.0000	-	-
HIGH STD		456968	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: $y = 45.7 x + 7.5$ **Cu 324.754 Calibration (ppb) 3/21/2013, 9:54:39 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		165.743	0.0000	0.0000	-	-
HIGH STD		524550	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 52.4 x + 165.7$ **Fe 271.441 Calibration (ppb) 3/21/2013, 9:54:39 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		6.8241	0.0000	0.0000	-	-
HIGH STD		17483.4	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 1.7 x + 6.8$ **K 766.491 Calibration (ppb) 3/21/2013, 9:54:39 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		305.386	0.0000	0.0000	-	-
HIGH STD		1223211	20000.0	20000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 61.1 x + 305.4$ **Mg 279.078 Calibration (ppb) 3/21/2013, 9:54:39 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		29.8200	0.0000	0.0000	-	-
HIGH STD		21885.3	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: $y = 2.2 x + 29.8$

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

Mn 257.610 Calibration (ppb) 3/21/2013, 9:54:39 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		69.7033	0.0000	0.0000	-	-
HIGH STD		2362214	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 236.2 x + 69.7$ **Mo 202.032 Calibration (ppb) 3/21/2013, 9:54:39 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		9.7235	0.0000	0.0000	-	-
HIGH STD		7345.85	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 7.3 x + 9.7$ **Na 330.237 Calibration (ppb) 3/21/2013, 9:54:39 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-6.1421	0.0000	0.0000	-	-
HIGH STD		798.572	15000.0	15000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 0.1 x + -6.1$ **Ni 231.604 Calibration (ppb) 3/21/2013, 9:54:39 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-1.3847	0.0000	0.0000	-	-
HIGH STD		13283.1	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 2.7 x + -1.4$ **Pb 220.353 Calibration (ppb) 3/21/2013, 9:54:39 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.6853	0.0000	0.0000	-	-
HIGH STD		1709.44	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation: $y = 1.7 x + 0.7$ **Sb 206.834 Calibration (ppb) 3/21/2013, 9:54:39 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-3.0912	0.0000	0.0000	-	-
HIGH STD		5054.76	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 1.0 x + -3.1$ **Se 196.026 Calibration (ppb) 3/21/2013, 9:54:39 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.6127	0.0000	0.0000	-	-
HIGH STD		4685.07	10000.0	10000.00	-0.0020	0.0

Curve Type: Linear Equation: $y = 0.5 x + 0.6$

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Sn 189.925 Calibration (ppb) 3/21/2013, 9:54:39 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-0.4684	0.0000	0.0000	-	-
HIGH STD		9283.24	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: $y = 0.9 x + -0.5$ **Sr 216.596 Calibration (ppb) 3/21/2013, 9:54:39 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		5.8446	0.0000	0.0000	-	-
HIGH STD		54055.4	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 10.8 x + 5.8$ **Ti 334.941 Calibration (ppb) 3/21/2013, 9:54:39 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-121.467	0.0000	0.0000	-	-
HIGH STD		299856	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 300.0 x + -121.5$ **Tl 190.794 Calibration (ppb) 3/21/2013, 9:54:39 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-0.6459	0.0000	0.0000	-	-
HIGH STD		7561.65	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 0.8 x + -0.6$ **V 292.401 Calibration (ppb) 3/21/2013, 9:54:39 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		3.6839	0.0000	0.0000	-	-
HIGH STD		300881	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: $y = 30.1 x + 3.7$ **Zn 206.200 Calibration (ppb) 3/21/2013, 9:54:39 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		1.8937	0.0000	0.0000	-	-
HIGH STD		6812.97	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 1.4 x + 1.9$ **Lab Control Sample (LCS) 3/21/2013, 10:00:03 AM Rack S, Tube 2****Weight: 1 Volume: 1 Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	989.201	1011.42x	1004.59
Al 308.215	10010.3	10048.3	10020.9
As 188.980	1001.60	1007.03	990.068
B 249.678	5009.54x	5067.41x	5058.21x
Ba 389.178	10007.0	10050.3	10032.6

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Label	Replicates Concentration		
Be 313.042	999.407	1006.45	1002.45
Ca 370.602	9971	10018	9988
Cd 226.502	1002.11x	1008.07x	1002.12
Co 228.615	998.854	1008.09	1000.47
Cr 267.716	9997.92	10039.9	10003.0
Cu 324.754	9902.57	10012.0	9955.14
Fe 271.441	10016.0	10067.8	10016.0
K 766.491	19945.1	20068.3	20094.5
Mg 279.078	10022.1	10053.8	10013.5
Mn 257.610	10006.5	10042.5	10000.9
Mo 202.032	997.858	1007.72	1006.77
Na 330.237	15072.3	15056.1	15224.6
Ni 231.604	5026.28	5035.90	5023.47
Pb 220.353	1002.50	1003.03	997.053
Sb 206.834	5018.09x	5043.98x	5008.64x
Se 196.026	10049.4x	10094.4x	10046.6
Sn 189.925	10042.3x	10042.3	10041.0
Sr 216.596	5020.93x	5038.87	5018.76
Ti 334.941	1000.34	1004.11	1001.52
Tl 190.794	10008.0	10056.6	10038.6
V 292.401	9987.68	10050.9	10022.0
Zn 206.200	5050.42	5057.04	5052.71

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	1001.73xb	ppb	11.3786	1.1	71304.7	100.17348
Al 308.215	10026.5b	ppb	19.5880	0.2	58792.1	100.26503
As 188.980	999.564b	ppb	8.6610	0.9	620.894	99.95641
B 249.678	5045.05xb	ppb	31.0983	0.6	47785.6	100.90099
Ba 389.178	10030.0b	ppb	21.7898	0.2	265065	100.29983
Be 313.042	1002.77b	ppb	3.5340	0.4	2078878	100.27699
Ca 370.602	9993b	ppb	23.82	0.2	36403	99.92699
Cd 226.502	1004.10xb	ppb	3.4399	0.3	39655.8	100.41011
Co 228.615	1002.47b	ppb	4.9328	0.5	12824.6	100.24724
Cr 267.716	10013.6b	ppb	22.9100	0.2	457535	100.13601
Cu 324.754	9956.58b	ppb	54.7387	0.5	522201	99.56579
Fe 271.441	10033.3b	ppb	29.9190	0.3	17795.9	100.33286
K 766.491	20035.9b	ppb	79.7789	0.4	1225409	100.17973
Mg 279.078	10029.8b	ppb	21.2653	0.2	21782.9	100.29785
Mn 257.610	10016.6b	ppb	22.5687	0.2	2366217	100.16612
Mo 202.032	1004.12b	ppb	5.4414	0.5	7356.44	100.41175
Na 330.237	15117.7b	ppb	92.9762	0.6	754.514	100.78441
Ni 231.604	5028.55b	ppb	6.5183	0.1	13359.2	100.57104
Pb 220.353	1000.86b	ppb	3.3064	0.3	1710.67	100.08586
Sb 206.834	5023.57xb	ppb	18.2975	0.4	5174.49	100.47141
Se 196.026	10063.5xb	ppb	26.8431	0.3	4717.09	100.63483
Sn 189.925	10041.8xb	ppb	0.7589	0.0	9322.09	100.41836
Sr 216.596	5026.19xb	ppb	11.0362	0.2	54221.4	100.52376
Ti 334.941	1001.99b	ppb	1.9281	0.2	300502	100.19901
Tl 190.794	10034.4b	ppb	24.5761	0.2	7580.00	100.34366
V 292.401	10020.2b	ppb	31.6618	0.3	300614	100.20200
Zn 206.200	5053.39b	ppb	3.3611	0.1	6858.92	101.06783

Initial Calib Verif (ICV)

3/21/2013, 10:07:47 AM

Rack S, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1000.66	1008.51x	1008.12x
Al 308.215	956.205	950.395	953.436

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Label	Replicates Concentration		
As 188.980	1000.33	1010.63	1013.12
B 249.678	1049.97	1056.88	1058.55
Ba 389.178	1016.23	1021.05	1020.61
Be 313.042	1024.99x	1028.26x	1026.52x
Ca 370.602	995.8	991.8	993.5
Cd 226.502	1020.22x	1022.22x	1020.51x
Co 228.615	972.817	986.399	973.279
Cr 267.716	1010.64	1012.81	1010.73
Cu 324.754	992.853	1007.35	995.738
Fe 271.441	990.790	993.141	987.768
K 766.491	10009.0	10066.9	10072.9
Mg 279.078	1025.97	1021.30	1021.92
Mn 257.610	1028.17	1030.30	1028.77
Mo 202.032	1008.28x	1009.10x	1013.09x
Na 330.237	9935.33	10087.0	9766.71
Ni 231.604	1021.53	1025.83	1025.94
Pb 220.353	1035.27	1041.91	1037.29
Sb 206.834	1016.21	1024.38	1020.86
Se 196.026	1004.18	992.047	1010.11
Sn 189.925	5079.43	5161.99	5137.46
Sr 216.596	5112.86x	5119.23x	5108.42x
Ti 334.941	1019.27	1023.10	1021.26
Tl 190.794	1058.59	1061.11	1068.58
V 292.401	1007.42	1012.26	1010.05
Zn 206.200	1019.52	1010.75	1007.94

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	1005.76xb	ppb	4.4240	0.4	71502.2	100.57606
Al 308.215	953.345b	ppb	2.9064	0.3	5952.14	95.33455
As 188.980	1008.02b	ppb	6.7824	0.7	626.186	100.80235
B 249.678	1055.13b	ppb	4.5469	0.4	10030.3	105.51326Q
Ba 389.178	1019.30b	ppb	2.6649	0.3	26919.6	101.92994
Be 313.042	1026.59xb	ppb	1.6341	0.2	2128644	102.65910
Ca 370.602	993.7b	ppb	2.012	0.2	3803	99.36936
Cd 226.502	1020.98xb	ppb	1.0780	0.1	40298.6	102.09823
Co 228.615	977.499b	ppb	7.7118	0.8	12477.8	97.74986
Cr 267.716	1011.39b	ppb	1.2307	0.1	46212.2	101.13926
Cu 324.754	998.648b	ppb	7.6759	0.8	52552.1	99.86482
Fe 271.441	990.566b	ppb	2.6932	0.3	1903.91	99.05663
K 766.491	10049.6b	ppb	35.3001	0.4	614792	100.49614
Mg 279.078	1023.06b	ppb	2.5366	0.2	2248.59	102.30621
Mn 257.610	1029.08b	ppb	1.0965	0.1	243162	102.90823
Mo 202.032	1010.16xb	ppb	2.5755	0.3	7418.41	101.01583
Na 330.237	9929.69b	ppb	160.234	1.6	510.258	99.29687
Ni 231.604	1024.44b	ppb	2.5142	0.2	2720.47	102.44375
Pb 220.353	1038.16b	ppb	3.4057	0.3	1772.59	103.81557
Sb 206.834	1020.48b	ppb	4.1013	0.4	1034.43	102.04833
Se 196.026	1002.11b	ppb	9.2078	0.9	470.283	100.21138
Sn 189.925	5126.29b	ppb	42.3977	0.8	4758.64	102.52590
Sr 216.596	5113.51xb	ppb	5.4334	0.1	55229.0	102.27012
Ti 334.941	1021.21b	ppb	1.9140	0.2	306223	102.12105
Tl 190.794	1062.76b	ppb	5.1961	0.5	802.305	106.27598Q
V 292.401	1009.91b	ppb	2.4216	0.2	30124.4	100.99123
Zn 206.200	1012.74b	ppb	6.0414	0.6	1378.81	101.27378

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

Initial Calib Blank (ICB) 3/21/2013, 10:13:11 AM Rack S, Tube 1

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.6541	0.1498	0.8819
Al 308.215	-2.9813u	-4.8335u	-5.8867u
As 188.980	-3.5151u	3.0706	2.8842
B 249.678	21.6944	20.4711	17.5146
Ba 389.178	-0.1343u	0.5177	0.6349
Be 313.042	0.1639	0.1629	0.1890
Ca 370.602	1.497	-2.655u	1.317
Cd 226.502	0.0265	0.3518	0.2061
Co 228.615	0.6402	0.6143	0.6765
Cr 267.716	0.0869	0.3021	0.0719
Cu 324.754	-0.0003	0.2890	0.0543
Fe 271.441	-2.0074u	-6.1604u	-8.7822u
K 766.491	0.1958	0.2277	0.8738
Mg 279.078	-6.7458u	-5.0581u	-8.0261u
Mn 257.610	0.1981	0.2487	0.2876
Mo 202.032	2.6713	2.6712	2.0000
Na 330.237	12.1771	-10.0215u	-66.8956u
Ni 231.604	0.7993	2.0024	1.8933
Pb 220.353	1.4317	1.2073	2.5433
Sb 206.834	9.3757	7.5464	9.3355
Se 196.026	-5.1802u	-5.2751u	-2.1532u
Sn 189.925	-0.1193u	0.1491	2.4697
Sr 216.596	0.8086	1.2841	1.1284
Ti 334.941	0.5337	0.4297	0.4845
Tl 190.794	4.3894	-0.9914u	3.5107
V 292.401	0.2962	0.2980	0.1929
Zn 206.200	0.5406	0.3799	-0.5678u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.5620	ppb	0.3746	66.7	-14.2571	0.56195
Al 308.215	-4.5671	ppb	1.4709	32.2	239.675	-4.56715
As 188.980	0.8132	ppb	3.7496	461.1	-1.7504	0.81322
B 249.678	19.8933	ppb	2.1489	10.8	232.911	19.89334
Ba 389.178	0.3394	ppb	0.4144	122.1	-16.6762	0.33942
Be 313.042	0.1719	ppb	0.0148	8.6	85.3031	0.17193
Ca 370.602	0.0530	ppb	2.347	4424.7	-1.892	0.05304
Cd 226.502	0.1948	ppb	0.1630	83.7	16.6051	0.19480
Co 228.615	0.6437	ppb	0.0313	4.9	22.3953	0.64369
Cr 267.716	0.1536	ppb	0.1288	83.8	14.5495	0.15364
Cu 324.754	0.1143	ppb	0.1537	134.4	171.807	0.11434
Fe 271.441	-5.6500	ppb	3.4161	60.5	-3.0035	-5.64999
K 766.491	0.4325	ppb	0.3825	88.5	331.829	0.43246
Mg 279.078	-6.6100	ppb	1.4886	22.5	15.3704	-6.61001
Mn 257.610	0.2448	ppb	0.0449	18.3	127.491	0.24481
Mo 202.032	2.4475	ppb	0.3876	15.8	27.6783	2.44751
Na 330.237	-21.5800	ppb	40.7839	189.0	-7.3034	-21.58000
Ni 231.604	1.5650	ppb	0.6653	42.5	2.7732	1.56498
Pb 220.353	1.7274	ppb	0.7154	41.4	3.6334	1.72742
Sb 206.834	8.7525	ppb	1.0448	11.9	5.7337	8.75252
Se 196.026	-4.2029	ppb	1.7757	42.2	-1.3561	-4.20286
Sn 189.925	0.8332	ppb	1.4236	170.9	0.3051	0.83318
Sr 216.596	1.0737	ppb	0.2424	22.6	17.3388	1.07368
Ti 334.941	0.4826	ppb	0.0520	10.8	23.2789	0.48263
Tl 190.794	2.3029	ppb	2.8866	125.3	1.0948	2.30287
V 292.401	0.2623	ppb	0.0602	22.9	11.0276	0.26235
Zn 206.200	0.1176	ppb	0.5990	509.5	2.0530	0.11757

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

CRI (CRI) **3/21/2013, 10:20:05 AM** **Rack S, Tube 4**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	9.6769	10.1875	10.0477
Al 308.215	200.124	201.267	201.328
As 188.980	24.4662	23.1320	23.0348
B 249.678	112.046	113.027	112.847
Ba 389.178	10.2467	9.9472	10.7073
Be 313.042	4.2711	4.2597	4.2784
Ca 370.602	511.6	518.2	517.7
Cd 226.502	5.1737	5.4145	5.2886
Co 228.615	10.9518	11.5566	10.7402
Cr 267.716	10.4054	10.4386	10.1898
Cu 324.754	19.4205	20.8185	20.1799
Fe 271.441	56.3210	56.7076	39.0909
K 766.491	1063.05	1061.42	1064.94
Mg 279.078	522.627	526.154	528.864
Mn 257.610	10.7353	10.7867	10.8192
Mo 202.032	10.0569	11.0293	10.2332
Na 330.237	982.355	1107.91	1204.10
Ni 231.604	43.0828	42.3618	43.4704
Pb 220.353	12.7503	13.4938	12.3077
Sb 206.834	21.4010	25.7054	25.9711
Se 196.026	17.1628	31.9137	26.2163
Sn 189.925	52.9513	52.5718	51.8444
Sr 216.596	11.1848	10.8881	11.1730
Ti 334.941	10.5579	10.4982	10.5734
Tl 190.794	25.2759	21.6919	24.2725
V 292.401	10.7468	11.0210	10.5538
Zn 206.200	19.9463	22.7006	19.3368

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	9.9707	ppb	0.2639	2.6	656.727	99.70679
Al 308.215	200.906	ppb	0.6781	0.3	1440.89	100.45322
As 188.980	23.5443	ppb	0.7998	3.4	12.4288	117.72163
B 249.678	112.640	ppb	0.5224	0.5	1110.69	112.64009
Ba 389.178	10.3004	ppb	0.3829	3.7	248.275	103.00407
Be 313.042	4.2697	ppb	0.0094	0.2	8582.24	106.74316
Ca 370.602	515.9	ppb	3.700	0.7	1890	103.17134
Cd 226.502	5.2923	ppb	0.1204	2.3	217.894	105.84500
Co 228.615	11.0829	ppb	0.4237	3.8	155.573	110.82875
Cr 267.716	10.3446	ppb	0.1351	1.3	480.189	103.44609
Cu 324.754	20.1396	ppb	0.6998	3.5	1222.04	100.69817
Fe 271.441	50.7065	ppb	10.0613	19.8	97.2876	101.41299
K 766.491	1063.14	ppb	1.7600	0.2	65311.2	106.31378
Mg 279.078	525.882	ppb	3.1274	0.6	1178.93	105.17637
Mn 257.610	10.7804	ppb	0.0423	0.4	2618.98	107.80381
Mo 202.032	10.4398	ppb	0.5181	5.0	86.2879	104.39796
Na 330.237	1098.12	ppb	111.198	10.1	52.5100	109.81227
Ni 231.604	42.9716	ppb	0.5626	1.3	112.788	107.42908
Pb 220.353	12.8506	ppb	0.5994	4.7	22.6186	128.50620R
Sb 206.834	24.3592	ppb	2.5653	10.5	21.5519	121.79585R
Se 196.026	25.0976	ppb	7.4388	29.6	12.3717	125.48794R
Sn 189.925	52.4559	ppb	0.5625	1.1	48.2308	104.91171
Sr 216.596	11.0820	ppb	0.1680	1.5	124.600	110.81984
Ti 334.941	10.5432	ppb	0.0397	0.4	3043.73	105.43176
Tl 190.794	23.7468	ppb	1.8489	7.8	17.3030	94.98702
V 292.401	10.7739	ppb	0.2348	2.2	325.065	107.73884
Zn 206.200	20.6612	ppb	1.7922	8.7	30.0114	103.30609

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

Interf Check A (ICSA) **3/21/2013, 10:25:31 AM** **Rack S, Tube 5**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.8121u	0.5941	-0.1653u
Al 308.215	536714	537905	537537
As 188.980	5.5627	-3.8136u	4.1500
B 249.678	-15.0191u	-15.6303u	-15.6082u
Ba 389.178	-2.6925	-3.0328	-1.2984
Be 313.042	-0.1456u	-0.1393u	-0.1470u
Ca 370.602	497541	498918	500104
Cd 226.502	1.2346	1.6132	1.5913
Co 228.615	0.4902u	1.4360	1.0726
Cr 267.716	0.4745	0.6856	0.8907
Cu 324.754	0.8420	0.3671	-0.4359
Fe 271.441	199419	199610	199801
K 766.491	-1.2165u	-1.8476u	-1.4570u
Mg 279.078	554679	553076	551228
Mn 257.610	1.5238	1.6556	1.5401
Mo 202.032	2.0788	2.0408	2.0010
Na 330.237	-248.634u	-797.274u	-685.339u
Ni 231.604	7.0626	3.0948	5.3915
Pb 220.353	0.0811u	-6.7072u	-3.8427u
Sb 206.834	7.4603	3.9619	-4.5915u
Se 196.026	-12.6005u	-8.4859u	-12.5606u
Sn 189.925	1.0873	-0.5482u	0.8842
Sr 216.596	2.3793	3.1788	2.7676
Ti 334.941	0.0523	0.0826	-0.0864
Tl 190.794	4.2740u	-7.8848u	5.4447u
V 292.401	-3.0473u	-3.2685u	-2.7165u
Zn 206.200	21.4996	20.8550	17.5988

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1277	ppb	0.7038	551.0	-70.8050	-0.12774
Al 308.215	537385	ppb	609.676	0.1	3139526	-
As 188.980	1.9664	ppb	5.0552	257.1	1.1280	1.96636
B 249.678	-15.4192	ppb	0.3467	2.2	-289.493	-15.41919
Ba 389.178	-2.3412	ppb	0.9190	39.3	1891.79	-2.34123
Be 313.042	-0.1440	ppb	0.0041	2.8	-350.681	-0.14399
Ca 370.602	498854	ppb	1283	0.3	1813938	-
Cd 226.502	1.4797	ppb	0.2126	14.4	587.357	1.47971
Co 228.615	0.9996	ppb	0.4771	47.7	19.7051	0.99957
Cr 267.716	0.6836	ppb	0.2081	30.4	88.7367	0.68361
Cu 324.754	0.2577	ppb	0.6459	250.6	241.247	0.25771
Fe 271.441	199610	ppb	190.969	0.1	348856	-
K 766.491	-1.5070	ppb	0.3185	21.1	213.238	-1.50704
Mg 279.078	552994	ppb	1727.22	0.3	1208498	-
Mn 257.610	1.5732	ppb	0.0718	4.6	3783.04	1.57317
Mo 202.032	2.0402	ppb	0.0389	1.9	14.5867	2.04020
Na 330.237	-577.083	ppb	289.898	50.2	-99.6537	-577.08270
Ni 231.604	5.1830	ppb	1.9921	38.4	16.7737	5.18300
Pb 220.353	-3.4896	ppb	3.4079	97.7	-15.3935	-3.48961
Sb 206.834	2.2769	ppb	6.2000	272.3	3.7935	2.27691
Se 196.026	-11.2157	ppb	2.3641	21.1	-5.9286	-11.21566
Sn 189.925	0.4744	ppb	0.8914	187.9	0.1980	0.47445
Sr 216.596	2.7752	ppb	0.3998	14.4	168.141	2.77522
Ti 334.941	0.0162	ppb	0.0901	556.5	2623.80	0.01619
Tl 190.794	0.6113	ppb	7.3811	1207.5	-7.9441	0.61129
V 292.401	-3.0108	ppb	0.2778	9.2	-83.9212	-3.01078
Zn 206.200	19.9845	ppb	2.0911	10.5	291.1121	19.98447

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

Interf Check AB (ICSAB) 3/21/2013, 10:30:56 AM Rack S, Tube 6
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	227.607	227.492	225.826
Al 308.215	542534	540938	540867
As 188.980	117.567	117.614	122.093
B 249.678	-16.8182u	-17.2214u	-15.1127u
Ba 389.178	520.086	519.415	519.230
Be 313.042	506.985	505.200	505.663
Ca 370.602	503561	501289	502838
Cd 226.502	1007.76	1003.21	1002.34
Co 228.615	497.998	495.544	495.047
Cr 267.716	512.203	509.356	510.196
Cu 324.754	542.698	536.601	544.786
Fe 271.441	201760	200881	200786
K 766.491	-0.9420u	-1.4263u	-1.5544u
Mg 279.078	561755	556327	557934
Mn 257.610	506.796	505.223	504.904
Mo 202.032	1089.42	1087.42	1090.78
Na 330.237	-328.097u	-440.668u	-596.469u
Ni 231.604	991.271	993.509	988.882
Pb 220.353	47.0292	51.9576	51.5375
Sb 206.834	651.300	652.626	649.034
Se 196.026	65.5386	54.3465	58.8907
Sn 189.925	1074.42	1073.72	1061.75
Sr 216.596	3.6814	3.7746	3.3432
Ti 334.941	-6.5072	-6.5931	-6.4734
Tl 190.794	107.327	116.613	98.5995
V 292.401	508.578	506.794	505.891
Zn 206.200	1004.44	1005.35	996.603

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	226.975	ppb	0.9968	0.4	16137.8	113.48767
Al 308.215	541446	ppb	942.443	0.2	3163386	108.28922
As 188.980	119.091	ppb	2.5995	2.2	73.9025	119.09138
B 249.678	-16.3841	ppb	1.1193	6.8	-299.878	-
Ba 389.178	519.577	ppb	0.4503	0.1	15710.2	103.91534
Be 313.042	505.949	ppb	0.9266	0.2	1049072	101.18989
Ca 370.602	502563	ppb	1161	0.2	1827457	100.51250
Cd 226.502	1004.44	ppb	2.9073	0.3	40166.4	100.44363
Co 228.615	496.196	ppb	1.5800	0.3	6298.45	99.23924
Cr 267.716	510.585	ppb	1.4630	0.3	23377.9	102.11700
Cu 324.754	541.362	ppb	4.2529	0.8	28642.6	108.27234
Fe 271.441	201142	ppb	537.107	0.3	351619	100.57117
K 766.491	-1.3076	ppb	0.3230	24.7	225.434	-
Mg 279.078	558672	ppb	2788.35	0.5	1220897	111.73436
Mn 257.610	505.641	ppb	1.0125	0.2	122886	101.12820
Mo 202.032	1089.21	ppb	1.6940	0.2	7989.14	108.92051
Na 330.237	-455.078	ppb	134.765	29.6	-101.079	-
Ni 231.604	991.221	ppb	2.3140	0.2	2636.61	99.12208
Pb 220.353	50.1748	ppb	2.7323	5.4	74.6742	100.34959
Sb 206.834	650.987	ppb	1.8160	0.3	654.293	108.49780
Se 196.026	59.5919	ppb	5.6289	9.4	27.3503	119.18385
Sn 189.925	1069.96	ppb	7.1216	0.7	993.081	106.99632
Sr 216.596	3.5997	ppb	0.2270	6.3	121.417	-
Ti 334.941	-6.5245	ppb	0.0617	0.9	692.209	-
Tl 190.794	107.513	ppb	9.0080	8.4	72.3177	107.51302
V 292.401	507.088	ppb	1.3671	0.3	14995.1	101.41751
Zn 206.200	1002.13	ppb	4.8994	0.5	1365.66	100.21310

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

Cont Calib Verif (CCV) 3/21/2013, 10:36:21 AM Rack 1, Tube 1
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	507.694	508.800	508.536
Al 308.215	5093.09	5087.23	5115.55
As 188.980	500.056	488.292	494.635
B 249.678	2522.22	2545.17	2572.68
Ba 389.178	5000.58	4995.66	5023.11
Be 313.042	496.447	496.203	500.040
Ca 370.602	5097	5089	5116
Cd 226.502	501.737	502.305	504.219
Co 228.615	501.827	502.022	506.363
Cr 267.716	5005.30	5003.95	5033.86
Cu 324.754	4942.27	4914.13	4812.73
Fe 271.441	5114.14	5122.15	5147.02
K 766.491	9970.26	9949.14	10037.8
Mg 279.078	5047.05	5038.49	5073.33
Mn 257.610	5008.01	5001.34	5037.37
Mo 202.032	502.714	502.168	504.810
Na 330.237	7429.44	7283.04	7516.83
Ni 231.604	2531.74	2533.52	2544.62
Pb 220.353	512.958	507.932	512.623
Sb 206.834	990.287	987.399	998.164
Se 196.026	4975.60	5000.12	5016.29
Sn 189.925	5082.20	5090.67	5143.38
Sr 216.596	2508.42	2500.69	2515.86
Ti 334.941	493.705	492.569	496.678
Tl 190.794	5143.05	5161.11	5178.02
V 292.401	4984.96	4980.37	5020.36
Zn 206.200	2547.49	2550.22	2556.83

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	508.343	ppb	0.5778	0.1	36159.9	101.66869
Al 308.215	5098.62	ppb	14.9471	0.3	30028.1	101.97246
As 188.980	494.328	ppb	5.8880	1.2	305.916	98.86562
B 249.678	2546.69	ppb	25.2649	1.0	24143.8	101.86765
Ba 389.178	5006.45	ppb	14.6360	0.3	132294	100.12897
Be 313.042	497.563	ppb	2.1478	0.4	1031378	99.51268
Ca 370.602	5100	ppb	13.67	0.3	18570	102.00999
Cd 226.502	502.754	ppb	1.3003	0.3	19860.4	100.55073
Co 228.615	503.404	ppb	2.5647	0.5	6446.39	100.68079
Cr 267.716	5014.37	ppb	16.8932	0.3	229117	100.28745
Cu 324.754	4889.71	ppb	68.1380	1.4	256538	97.79418
Fe 271.441	5127.77	ppb	17.1437	0.3	9096.09	102.55541
K 766.491	9985.75	ppb	46.3397	0.5	610887	99.85747
Mg 279.078	5052.96	ppb	18.1565	0.4	10989.5	101.05917
Mn 257.610	5015.57	ppb	19.1722	0.4	1184861	100.31148
Mo 202.032	503.231	ppb	1.3948	0.3	3691.70	100.64613
Na 330.237	7409.77	ppb	118.129	1.6	366.069	98.79693
Ni 231.604	2536.63	ppb	6.9818	0.3	6738.30	101.46504
Pb 220.353	511.171	ppb	2.8103	0.5	874.037	102.23418
Sb 206.834	991.950	ppb	5.5718	0.6	1047.63	99.19498
Se 196.026	4997.33	ppb	20.4873	0.4	2342.73	99.94670
Sn 189.925	5105.42	ppb	33.1459	0.6	4739.26	102.10834
Sr 216.596	2508.32	ppb	7.5834	0.3	27061.7	100.33292
Ti 334.941	494.317	ppb	2.1215	0.4	148187	98.86348
Tl 190.794	5160.73	ppb	17.4892	0.3	3898.22	103.21451
V 292.401	4995.23	ppb	21.8849	0.4	149865	99.90453
Zn 206.200	2551.51	ppb	4.8018	0.2	3464.38	102.06051

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

Cont Calib Blank (CCB) 3/21/2013, 10:41:45 AM Rack 1, Tube 2

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1140u	0.7554	-0.0799u
Al 308.215	6.8714	4.7633	5.8995
As 188.980	4.9771	3.3506	-3.1414u
B 249.678	27.0564	24.1703	20.7660
Ba 389.178	0.6222	0.0608	0.5568
Be 313.042	0.0700	0.0547	0.0510
Ca 370.602	13.37	15.00	10.62
Cd 226.502	-0.0122u	-0.0279u	0.0959
Co 228.615	0.2865	-0.1275u	-0.0085u
Cr 267.716	0.4966	0.4831	0.3678
Cu 324.754	0.0806	-0.1995u	0.5020
Fe 271.441	9.0102	1.6810	3.9945
K 766.491	-0.7982u	-0.2511u	-0.7414u
Mg 279.078	11.3414	12.3371	13.5534
Mn 257.610	0.5903	0.5339	0.4922
Mo 202.032	1.6977	1.7374	1.8054
Na 330.237	-40.6232u	62.8114	92.8344
Ni 231.604	0.5524	1.1926	1.1821
Pb 220.353	0.9231	-1.4858u	1.7442
Sb 206.834	0.7427	7.0575	-0.4425u
Se 196.026	-6.2982u	0.3127	1.1937
Sn 189.925	-1.9655u	-2.3006u	-1.7989u
Sr 216.596	0.6456	1.0522	0.8537
Ti 334.941	0.2922	0.2044	0.1916
Tl 190.794	7.9309	3.8450	-0.6004u
V 292.401	0.6557	0.6460	0.6391
Zn 206.200	-0.7097u	0.6560	0.8347

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1872	ppb	0.4924	263.1	-40.9772	0.18716
Al 308.215	5.8447	ppb	1.0551	18.1	300.401	5.84472
As 188.980	1.7288	ppb	4.2954	248.5	-1.1792	1.72876
B 249.678	23.9975	ppb	3.1488	13.1	271.749	23.99753
Ba 389.178	0.4133	ppb	0.3070	74.3	-14.6568	0.41327
Be 313.042	0.0586	ppb	0.0101	17.3	-149.693	0.05857
Ca 370.602	13.00	ppb	2.214	17.0	44.92	12.99605
Cd 226.502	0.0186	ppb	0.0674	362.6	9.6722	0.01860
Co 228.615	0.0502	ppb	0.2131	424.6	14.8439	0.05019
Cr 267.716	0.4492	ppb	0.0708	15.8	28.0554	0.44918
Cu 324.754	0.1277	ppb	0.3531	276.6	172.485	0.12767
Fe 271.441	4.8952	ppb	3.7467	76.5	15.3897	4.89524
K 766.491	-0.5969	ppb	0.3008	50.4	268.889	-0.59690
Mg 279.078	12.4106	ppb	1.1078	8.9	56.9343	12.41061
Mn 257.610	0.5388	ppb	0.0492	9.1	197.057	0.53881
Mo 202.032	1.7469	ppb	0.0545	3.1	22.5371	1.74685
Na 330.237	38.3409	ppb	70.0131	182.6	-4.0877	38.34090
Ni 231.604	0.9757	ppb	0.3666	37.6	1.2077	0.97570
Pb 220.353	0.3938	ppb	1.6788	426.3	1.3557	0.39384
Sb 206.834	2.4526	ppb	4.0318	164.4	-0.6286	2.45256
Se 196.026	-1.5973	ppb	4.0949	256.4	-0.1355	-1.59726
Sn 189.925	-2.0217	ppb	0.2555	12.6	-2.3452	-2.02166
Sr 216.596	0.8505	ppb	0.2033	23.9	14.9661	0.85051
Ti 334.941	0.2294	ppb	0.0548	23.9	-52.5734	0.22944
Tl 190.794	3.7252	ppb	4.2669	114.5	2.1701	3.72519
V 292.401	0.6469	ppb	0.0083	1.3	22.7228	0.64693
Zn 206.200	0.2603	ppb	0.8448	324.5	2.2468	0.26032

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

mb 680-269879/1-a (Samp) **3/21/2013, 10:51:46 AM** **Rack 1, Tube 3**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0673	0.1688	-0.0544u
Al 308.215	2.5707	0.3621	3.7294
As 188.980	-3.0669u	-5.6230u	3.1521
B 249.678	3.9547	5.2456	4.9031
Ba 389.178	-0.2065u	-1.0268u	-1.2529u
Be 313.042	0.0002	-0.0155u	-0.0111u
Ca 370.602	13.77	8.111	8.628
Cd 226.502	-0.0029u	0.1388	0.1878
Co 228.615	0.4563	0.1054	0.0513
Cr 267.716	0.2493	0.0711	0.2628
Cu 324.754	0.2040	0.7440	1.1125
Fe 271.441	11.0203	10.4309	17.8064
K 766.491	10.7192	10.7516	10.7221
Mg 279.078	3.8994	-2.6291u	2.1065
Mn 257.610	0.3367	0.3083	0.2848
Mo 202.032	-0.1809u	0.8807	0.4769
Na 330.237	242.932	160.676	253.960
Ni 231.604	1.4428	1.1750	1.0466
Pb 220.353	2.0428	0.1711	-1.6559u
Sb 206.834	1.5770	2.2481	-1.8149u
Se 196.026	-3.3293u	-1.1368u	-1.5390u
Sn 189.925	12.3017	12.7849	16.9495
Sr 216.596	0.0283	0.8020	0.7091
Ti 334.941	0.3753	0.2741	0.3032
Tl 190.794	2.9235	0.3223	-0.1180u
V 292.401	0.0620	-0.3904u	-0.0088u
Zn 206.200	1.7616	0.4218	3.6788

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0606	ppb	0.1118	184.5	-49.9931
Al 308.215	2.2208	ppb	1.7107	77.0	279.033
As 188.980	-1.8459	ppb	4.5132	244.5	-3.4084
B 249.678	4.7011	ppb	0.6687	14.2	89.1060
Ba 389.178	-0.8287	ppb	0.5506	66.4	-47.5099
Be 313.042	-0.0088	ppb	0.0081	91.5	-289.164
Ca 370.602	10.17	ppb	3.130	30.8	33.93
Cd 226.502	0.1079	ppb	0.0990	91.8	13.2121
Co 228.615	0.2043	ppb	0.2199	107.6	16.8607
Cr 267.716	0.1944	ppb	0.1070	55.0	16.4242
Cu 324.754	0.6868	ppb	0.4569	66.5	201.770
Fe 271.441	13.0859	ppb	4.0987	31.3	29.6868
K 766.491	10.7310	ppb	0.0180	0.2	961.535
Mg 279.078	1.1256	ppb	3.3730	299.7	32.2762
Mn 257.610	0.3099	ppb	0.0260	8.4	142.949
Mo 202.032	0.3922	ppb	0.5358	136.6	12.6006
Na 330.237	219.189	ppb	50.9732	23.3	5.5978
Ni 231.604	1.2215	ppb	0.2022	16.6	1.8608
Pb 220.353	0.1860	ppb	1.8494	994.4	1.0026
Sb 206.834	0.6701	ppb	2.1781	325.1	-2.4113
Se 196.026	-2.0017	ppb	1.1672	58.3	-0.3250
Sn 189.925	14.0120	ppb	2.5554	18.2	12.5401
Sr 216.596	0.5131	ppb	0.4224	82.3	11.3716
Ti 334.941	0.3175	ppb	0.0521	16.4	-26.2218
Tl 190.794	1.0426	ppb	1.6437	157.7	0.1416
V 292.401	-0.1124	ppb	0.2434	216.5	0.2308
Zn 206.200	1.9541	ppb	1.6370	83.8	4.5547

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

ics 680-269879/2-a (Samp) 3/21/2013, 10:57:10 AM Rack 1, Tube 4
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	43.5038	42.2667	45.1131
Al 308.215	5218.80	5194.10	5192.86
As 188.980	106.966	109.061	114.681
B 249.678	205.117	205.654	208.988
Ba 389.178	108.301	108.183	109.270
Be 313.042	54.7496	54.6074	55.0942
Ca 370.602	5377	5349	5417
Cd 226.502	55.6088	55.6772	56.0023
Co 228.615	55.2465	54.3318	54.3946
Cr 267.716	113.546	113.337	114.412
Cu 324.754	108.348	108.416	108.188
Fe 271.441	5370.92	5357.51	5392.04
K 766.491	5440.82	5393.70	5421.00
Mg 279.078	5328.48	5307.96	5348.11
Mn 257.610	551.747	550.168	554.499
Mo 202.032	109.761	109.753	110.839
Na 330.237	5301.32	4974.97	5012.85
Ni 231.604	108.307	107.943	108.972
Pb 220.353	58.9784	54.2594	58.8773
Sb 206.834	53.9227	57.3166	56.8682
Se 196.026	99.5077	103.074	116.406
Sn 189.925	222.871	222.412	231.242
Sr 216.596	113.817	113.308	114.384
Ti 334.941	111.392	111.266	112.408
Tl 190.794	45.0702	46.5103	49.0453
V 292.401	110.227	110.250	111.355
Zn 206.200	112.633	109.507	111.624

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	43.6279	ppb	1.4272	3.3	3056.88
Al 308.215	5201.92	ppb	14.6292	0.3	30666.8
As 188.980	110.236	ppb	3.9891	3.6	66.4584
B 249.678	206.586	ppb	2.0969	1.0	1994.83
Ba 389.178	108.585	ppb	0.5966	0.5	2869.06
Be 313.042	54.8171	ppb	0.2503	0.5	113397
Ca 370.602	5381	ppb	34.51	0.6	19299
Cd 226.502	55.7628	ppb	0.2103	0.4	2223.22
Co 228.615	54.6576	ppb	0.5109	0.9	710.766
Cr 267.716	113.765	ppb	0.5701	0.5	5208.45
Cu 324.754	108.318	ppb	0.1168	0.1	5849.40
Fe 271.441	5373.49	ppb	17.4081	0.3	9407.75
K 766.491	5418.50	ppb	23.6570	0.4	331621
Mg 279.078	5328.18	ppb	20.0754	0.4	11665.1
Mn 257.610	552.138	ppb	2.1922	0.4	130535
Mo 202.032	110.117	ppb	0.6249	0.6	817.076
Na 330.237	5096.38	ppb	178.493	3.5	263.842
Ni 231.604	108.407	ppb	0.5218	0.5	286.758
Pb 220.353	57.3717	ppb	2.6958	4.7	98.5169
Sb 206.834	56.0359	ppb	1.8437	3.3	53.7636
Se 196.026	106.329	ppb	8.9069	8.4	50.5163
Sn 189.925	225.508	ppb	4.9705	2.2	208.891
Sr 216.596	113.836	ppb	0.5383	0.5	1233.40
Ti 334.941	111.689	ppb	0.6262	0.6	33409.2
Tl 190.794	46.8752	ppb	2.0125	4.3	34.0092
V 292.401	110.610	ppb	0.6445	0.6	3303.06
Zn 206.200	111.255	ppb	1.5950	1.4	453.159

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

ics 680-269879/3-a (Samp) 3/21/2013, 11:02:34 AM Rack 1, Tube 5
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	147.477	146.105	148.944
Al 308.215	2154.09	2152.69	2153.66
As 188.980	224.308	222.681	220.324
B 249.678	414.252	418.224	419.803
Ba 389.178	212.775	211.994	213.540
Be 313.042	217.089	217.168	217.664
Ca 370.602	21311	21331	21388
Cd 226.502	213.795	213.740	214.630
Co 228.615	213.541	211.713	214.247
Cr 267.716	222.657	222.471	223.837
Cu 324.754	216.328	215.476	218.337
Fe 271.441	22172.6	22133.2	22166.4
K 766.491	21138.5	21055.8	20988.8
Mg 279.078	21374.2	21341.7	21409.6
Mn 257.610	2185.71	2184.47	2191.95
Mo 202.032	218.679	219.227	219.990
Na 330.237	18334.9	17981.5	18444.2
Ni 231.604	213.905	215.145	211.578
Pb 220.353	220.121	217.644	222.264
Sb 206.834	211.219	218.215	211.220
Se 196.026	210.622	214.149	218.372
Sn 189.925	225.451	228.017	226.606
Sr 216.596	235.313	234.111	236.246
Ti 334.941	221.549	221.520	222.479
Tl 190.794	57.3755	57.2400	56.0890
V 292.401	217.956	217.252	217.903
Zn 206.200	204.783	202.820	202.580

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	147.509	ppb	1.4197	1.0	10471.1
Al 308.215	2153.48	ppb	0.7160	0.0	12871.3
As 188.980	222.438	ppb	2.0031	0.9	136.369
B 249.678	417.426	ppb	2.8599	0.7	3974.49
Ba 389.178	212.770	ppb	0.7728	0.4	5698.30
Be 313.042	217.307	ppb	0.3121	0.1	450376
Ca 370.602	21344	ppb	39.49	0.2	76434
Cd 226.502	214.055	ppb	0.4989	0.2	8512.79
Co 228.615	213.167	ppb	1.3075	0.6	2732.07
Cr 267.716	222.988	ppb	0.7410	0.3	10208.0
Cu 324.754	216.714	ppb	1.4687	0.7	11540.8
Fe 271.441	22157.4	ppb	21.1832	0.1	38766.9
K 766.491	21061.0	ppb	75.0328	0.4	1288088
Mg 279.078	21375.1	ppb	33.9380	0.2	46713.6
Mn 257.610	2187.38	ppb	4.0104	0.2	516930
Mo 202.032	219.299	ppb	0.6581	0.3	1616.99
Na 330.237	18253.5	ppb	241.823	1.3	962.833
Ni 231.604	213.543	ppb	1.8111	0.8	566.446
Pb 220.353	220.010	ppb	2.3121	1.1	376.583
Sb 206.834	213.551	ppb	4.0387	1.9	214.302
Se 196.026	214.381	ppb	3.8800	1.8	101.406
Sn 189.925	226.691	ppb	1.2849	0.6	210.002
Sr 216.596	235.223	ppb	1.0699	0.5	2548.39
Ti 334.941	221.849	ppb	0.5452	0.2	66533.8
Tl 190.794	56.9015	ppb	0.7069	1.2	39.1948
V 292.401	217.703	ppb	0.3918	0.2	6497.00
Zn 206.200	203.395	ppb	1.2987	0.6	478.397

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88401-b-12-c (Samp) 3/21/2013, 11:07:59 AM Rack 1, Tube 6

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8491u	-1.9935u	-1.5745u
Al 308.215	163378	163256	163536
As 188.980	3.5001	8.6986	10.3194
B 249.678	8.6873u	5.5639u	4.7588u
Ba 389.178	500.846	500.737	501.275
Be 313.042	2.6454	2.6550	2.6349
Ca 370.602	7003	7004	6989
Cd 226.502	-1.6754	-1.3887	-1.6108
Co 228.615	20.1750	20.1734	20.8469
Cr 267.716	246.741	246.877	247.007
Cu 324.754	82.1562	81.3094	80.7784
Fe 271.441	156490	156497	156429
K 766.491	9691.69	9620.95	9621.07
Mg 279.078	8361.26	8366.86	8376.79
Mn 257.610	703.748	703.685	703.377
Mo 202.032	2.3232	0.6175u	1.8612
Na 330.237	623.248u	290.763u	239.622u
Ni 231.604	41.7052	42.0842	41.9203
Pb 220.353	104.915	97.3959	104.530
Sb 206.834	5.0235	5.9894	11.2222
Se 196.026	-8.6042u	5.7615	11.3627
Sn 189.925	4.0450	3.0547	0.6593
Sr 216.596	59.2663	60.3692	60.4068
Ti 334.941	3247.90	3245.71	3247.98
Tl 190.794	11.1907	10.1586	-1.4007u
V 292.401	451.965	450.295	451.339
Zn 206.200	163.982	163.768	164.509

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.4723	ppb	0.5790	39.3	-156.016
Al 308.215	163390	ppb	140.354	0.1	954738
As 188.980	7.5060	ppb	3.5627	47.5	0.8726
B 249.678	6.3367	ppb	2.0752	32.7	-43.6309
Ba 389.178	500.953	ppb	0.2845	0.1	13490.9
Be 313.042	2.6451	ppb	0.0101	0.4	5212.92
Ca 370.602	6999	ppb	8.134	0.1	11660
Cd 226.502	-1.5583	ppb	0.1504	9.7	351.419
Co 228.615	20.3984	ppb	0.3884	1.9	359.931
Cr 267.716	246.875	ppb	0.1332	0.1	11330.1
Cu 324.754	81.4147	ppb	0.6949	0.9	4479.07
Fe 271.441	156472	ppb	37.1160	0.0	273475
K 766.491	9644.57	ppb	40.8075	0.4	590025
Mg 279.078	8368.30	ppb	7.8659	0.1	18286.0
Mn 257.610	703.604	ppb	0.1986	0.0	166753
Mo 202.032	1.6006	ppb	0.8822	55.1	12.6389
Na 330.237	384.544	ppb	208.299	54.2	-61.3957
Ni 231.604	41.9032	ppb	0.1901	0.5	113.307
Pb 220.353	102.280	ppb	4.2345	4.1	170.765
Sb 206.834	7.4117	ppb	3.3351	45.0	10.3533
Se 196.026	2.8400	ppb	10.2991	362.6	1.0909
Sn 189.925	2.5863	ppb	1.7408	67.3	1.9319
Sr 216.596	60.0141	ppb	0.6479	1.1	719.165
Ti 334.941	3247.20	ppb	1.2894	0.0	974033
Tl 190.794	6.6495	ppb	6.9908	105.1	-2.3148
V 292.401	451.200	ppb	0.8436	0.2	13616.6
Zn 206.200	164.086	ppb	0.3815	0.2	224.787

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680-88401-b-13-c (Samp) 3/21/2013, 11:13:25 AM Rack 1, Tube 7
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.2029u	-1.1996u	-2.2566u
Al 308.215	122513	122532	122593
As 188.980	34.0601	36.3333	38.4318
B 249.678	-9.9738u	-9.7172u	-8.8085u
Ba 389.178	227.921	226.604	226.369
Be 313.042	3.1945	3.1860	3.1977
Ca 370.602	11785	11786	11793
Cd 226.502	-2.2017	-1.9719	-2.1070
Co 228.615	11.7397	10.7880	11.9647
Cr 267.716	224.922	224.271	225.287
Cu 324.754	66.3559	65.6747	65.0748
Fe 271.441	197645	197845	197978
K 766.491	5896.07	5875.96	5869.43
Mg 279.078	2456.36	2461.21	2461.30
Mn 257.610	831.434	830.534	832.726
Mo 202.032	3.1210	2.9806	3.8724
Na 330.237	664.416u	622.676u	507.542u
Ni 231.604	41.6861	46.0182	44.6184
Pb 220.353	86.0043	84.6669	81.6614
Sb 206.834	3.8838	3.1541	4.8109
Se 196.026	-3.7890u	-15.3927u	-9.9317u
Sn 189.925	8.5967	2.0759	4.2130
Sr 216.596	63.0255	63.6056	62.8002
Ti 334.941	1463.79	1455.67	1461.36
Tl 190.794	8.1477u	10.2368u	4.2729u
V 292.401	412.667	412.274	411.868
Zn 206.200	120.868	124.031	123.701

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.5530	ppb	0.6093	39.2	-161.897
Al 308.215	122546	ppb	41.5731	0.0	716139
As 188.980	36.2751	ppb	2.1864	6.0	18.4307
B 249.678	-9.4998	ppb	0.6123	6.4	-232.644
Ba 389.178	226.965	ppb	0.8370	0.4	6300.77
Be 313.042	3.1927	ppb	0.0061	0.2	6347.04
Ca 370.602	11788	ppb	4.081	0.0	24997
Cd 226.502	-2.0936	ppb	0.1155	5.5	436.784
Co 228.615	11.4975	ppb	0.6247	5.4	194.872
Cr 267.716	224.827	ppb	0.5147	0.2	10329.3
Cu 324.754	65.7018	ppb	0.6410	1.0	3668.44
Fe 271.441	197822	ppb	167.730	0.1	345739
K 766.491	5880.48	ppb	13.8881	0.2	359869
Mg 279.078	2459.62	ppb	2.8300	0.1	5390.65
Mn 257.610	831.565	ppb	1.1015	0.1	197065
Mo 202.032	3.3247	ppb	0.4795	14.4	23.2614
Na 330.237	598.211	ppb	81.2478	13.6	-48.5409
Ni 231.604	44.1076	ppb	2.2108	5.0	120.018
Pb 220.353	84.1108	ppb	2.2242	2.6	141.484
Sb 206.834	3.9496	ppb	0.8304	21.0	7.5838
Se 196.026	-9.7045	ppb	5.8052	59.8	-5.0238
Sn 189.925	4.9619	ppb	3.3242	67.0	4.1388
Sr 216.596	63.1438	ppb	0.4155	0.7	770.428
Ti 334.941	1460.27	ppb	4.1679	0.3	437970
Tl 190.794	7.5525	ppb	3.0262	40.1	-3.4043
V 292.401	412.270	ppb	0.3995	0.1	12416.6
Zn 206.200	122.867	ppb	1.7385	1.4	158.693

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680-88401-b-14-c (Samp) **3/21/2013, 11:18:50 AM** **Rack 1, Tube 8**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2276u	-0.5515u	-0.3879u
Al 308.215	94410.2	94501.7	94201.4
As 188.980	27.9023	31.3660	32.5231
B 249.678	-18.2461u	-16.6440u	-17.7566u
Ba 389.178	105.439	105.314	104.680
Be 313.042	2.3045	2.3093	2.3024
Ca 370.602	3261u	3294u	3269u
Cd 226.502	-1.9168	-2.1722	-2.0186
Co 228.615	6.1321	5.8426	5.8205
Cr 267.716	357.202	356.499	355.432
Cu 324.754	57.2987	57.8099	58.5095
Fe 271.441	182662	182511	181883
K 766.491	2915.48	2910.74	2884.40
Mg 279.078	1404.93	1409.15	1405.11
Mn 257.610	595.824	594.637	593.508
Mo 202.032	3.3267	3.7102	2.6103
Na 330.237	357.477u	-71.1686u	105.789u
Ni 231.604	24.1087	27.3465	24.7650
Pb 220.353	60.8123	56.0571	59.9518
Sb 206.834	11.5964	0.2082	3.1582
Se 196.026	-1.0785u	-15.1443u	-11.7842u
Sn 189.925	6.2090	5.0092	6.8234
Sr 216.596	29.1840	29.0267	28.5290
Ti 334.941	1117.31	1114.31	1110.16
Tl 190.794	10.4829	7.3528u	3.7143u
V 292.401	395.618	395.927	394.486
Zn 206.200	80.1575	78.2042	77.4935

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3890	ppb	0.1620	41.6	-78.6779
Al 308.215	94371.1	ppb	153.919	0.2	551550
As 188.980	30.5971	ppb	2.4044	7.9	14.9805
B 249.678	-17.5489	ppb	0.8210	4.7	-293.977
Ba 389.178	105.144	ppb	0.4073	0.4	3053.36
Be 313.042	2.3054	ppb	0.0035	0.2	4501.93
Ca 370.602	3275	ppb	17.45	0.5	-4881
Cd 226.502	-2.0359	ppb	0.1286	6.3	398.575
Co 228.615	5.9318	ppb	0.1739	2.9	115.273
Cr 267.716	356.377	ppb	0.8913	0.3	16335.4
Cu 324.754	57.8727	ppb	0.6079	1.1	3253.19
Fe 271.441	182352	ppb	412.677	0.2	318701
K 766.491	2903.54	ppb	16.7444	0.6	177843
Mg 279.078	1406.40	ppb	2.3883	0.2	3098.54
Mn 257.610	594.656	ppb	1.1580	0.2	141055
Mo 202.032	3.2157	ppb	0.5583	17.4	23.2932
Na 330.237	130.699	ppb	215.406	164.8	-65.6413
Ni 231.604	25.4067	ppb	1.7117	6.7	69.9903
Pb 220.353	58.9404	ppb	2.5338	4.3	99.1411
Sb 206.834	4.9876	ppb	5.9104	118.5	9.5032
Se 196.026	-9.3356	ppb	7.3456	78.7	-4.8045
Sn 189.925	6.0138	ppb	0.9227	15.3	5.1117
Sr 216.596	28.9132	ppb	0.3419	1.2	393.380
Ti 334.941	1113.92	ppb	3.5921	0.3	334065
Tl 190.794	7.1833	ppb	3.3875	47.2	-2.8189
V 292.401	395.344	ppb	0.7586	0.2	11893.3
Zn 206.200	78.6184	ppb	1.3795	1.8	418.083

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680-88401-b-15-c (Samp) **3/21/2013, 11:24:16 AM** **Rack 1, Tube 9**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.6793u	0.6917	0.0023
Al 308.215	70148.2	70191.6	69883.9
As 188.980	6.6322	7.2869	10.5650
B 249.678	1.2040u	1.9801u	1.8545u
Ba 389.178	36.7895	36.7029	37.0068
Be 313.042	1.4113	1.4114	1.4145
Ca 370.602	2045	2062	2050
Cd 226.502	-0.0511	-0.2644	-0.0489
Co 228.615	5.8879	5.5552	5.5854
Cr 267.716	65.2343	65.4027	64.7207
Cu 324.754	16.8979	16.3827	16.7209
Fe 271.441	32863.7	32896.0	32734.2
K 766.491	868.490	866.701	860.413
Mg 279.078	796.763	799.617	789.363
Mn 257.610	91.4329	91.5201	91.1437
Mo 202.032	1.7847	1.1360	2.1257
Na 330.237	229.031u	-96.9138u	290.728
Ni 231.604	9.2935	10.3876	8.7353
Pb 220.353	24.2757	22.0351	25.5619
Sb 206.834	-2.6159u	3.3711	2.0802
Se 196.026	1.9453	-0.2999u	-8.9761u
Sn 189.925	6.5640	3.7774	5.6055
Sr 216.596	11.0145	11.6328	11.4517
Ti 334.941	506.322	504.707	501.776
Tl 190.794	5.1065	3.3312	0.1062u
V 292.401	131.221	131.548	131.360
Zn 206.200	22.7046	23.4860	21.6378

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0049	ppb	0.6855	13883.6	-53.0584
Al 308.215	70074.6	ppb	166.547	0.2	409620
As 188.980	8.1614	ppb	2.1072	25.8	2.5129
B 249.678	1.6796	ppb	0.4166	24.8	29.4554
Ba 389.178	36.8331	ppb	0.1566	0.4	1003.52
Be 313.042	1.4124	ppb	0.0018	0.1	2660.54
Ca 370.602	2052	ppb	8.726	0.4	4555
Cd 226.502	-0.1215	ppb	0.1238	101.9	88.7721
Co 228.615	5.6762	ppb	0.1840	3.2	99.6863
Cr 267.716	65.1192	ppb	0.3553	0.5	2991.36
Cu 324.754	16.6672	ppb	0.2618	1.6	1048.63
Fe 271.441	32831.3	ppb	85.6134	0.3	57386.9
K 766.491	865.201	ppb	4.2421	0.5	53208.3
Mg 279.078	795.248	ppb	5.2920	0.7	1750.66
Mn 257.610	91.3656	ppb	0.1970	0.2	21747.7
Mo 202.032	1.6822	ppb	0.5027	29.9	20.1442
Na 330.237	140.948	ppb	208.292	147.8	-13.0115
Ni 231.604	9.4721	ppb	0.8405	8.9	24.4992
Pb 220.353	23.9575	ppb	1.7848	7.4	40.0418
Sb 206.834	0.9451	ppb	3.1508	333.4	-0.7721
Se 196.026	-2.4436	ppb	5.7677	236.0	-0.7237
Sn 189.925	5.3156	ppb	1.4157	26.6	4.4667
Sr 216.596	11.3663	ppb	0.3179	2.8	142.248
Ti 334.941	504.268	ppb	2.3048	0.5	151159
Tl 190.794	2.8480	ppb	2.5349	89.0	0.1804
V 292.401	131.377	ppb	0.1641	0.1	3959.96
Zn 206.200	22.6095	ppb	0.9278	4.1	32.5271

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680-88401-b-16-g (Samp) 3/21/2013, 11:29:41 AM Rack 1, Tube 10

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	5.0433	6.0468	5.2600
Al 308.215	29839.5	29815.9	29938.9
As 188.980	45.9187	49.8584	48.9881
B 249.678	3.8239u	4.0910u	3.8797u
Ba 389.178	644.355	643.422	644.265
Be 313.042	1.8238	1.8123	1.8167
Ca 370.602	15966	15928	16013
Cd 226.502	1.1339	1.3504	1.4173
Co 228.615	21.4311	21.8679	21.3501
Cr 267.716	75.2645	74.7014	75.5144
Cu 324.754	5464.54	5461.32	5455.41
Fe 271.441	81744.3	81710.1	82162.3
K 766.491	2056.56	2059.99	2058.54
Mg 279.078	1980.48	1978.61	1986.03
Mn 257.610	1801.29	1797.73	1809.13
Mo 202.032	4.3942	4.2934	3.5591
Na 330.237	281.698u	-4.3890u	193.305u
Ni 231.604	26.8313	29.6568	27.2035
Pb 220.353	5586.55	5560.58	5600.63
Sb 206.834	10.3086	5.0942	2.9033
Se 196.026	10.5543	-1.6008u	0.2679
Sn 189.925	89.2694	94.0350	97.0597
Sr 216.596	118.581	117.483	119.377
Ti 334.941	447.584	445.991	448.049
Tl 190.794	8.4104	5.1877u	8.0261
V 292.401	116.627	116.906	117.280
Zn 206.200	868.343	855.446	870.132

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	5.4500	ppb	0.5281	9.7	338.024
Al 308.215	29864.7	ppb	65.2818	0.2	174726
As 188.980	48.2551	ppb	2.0696	4.3	27.1297
B 249.678	3.9315	ppb	0.1409	3.6	4.2979
Ba 389.178	644.014	ppb	0.5147	0.1	17129.7
Be 313.042	1.8176	ppb	0.0058	0.3	3499.46
Ca 370.602	15969	ppb	42.58	0.3	51101
Cd 226.502	1.3006	ppb	0.1482	11.4	271.602
Co 228.615	21.5497	ppb	0.2786	1.3	298.656
Cr 267.716	75.1601	ppb	0.4165	0.6	3467.91
Cu 324.754	5460.42	ppb	4.6273	0.1	286526
Fe 271.441	81872.2	ppb	251.832	0.3	143096
K 766.491	2058.36	ppb	1.7215	0.1	126165
Mg 279.078	1981.70	ppb	3.8616	0.2	4337.13
Mn 257.610	1802.72	ppb	5.8330	0.3	426137
Mo 202.032	4.0823	ppb	0.4558	11.2	35.2828
Na 330.237	156.871	ppb	146.482	93.4	-33.6353
Ni 231.604	27.8972	ppb	1.5352	5.5	74.4716
Pb 220.353	5582.59	ppb	20.3171	0.4	9539.56
Sb 206.834	6.1020	ppb	3.8041	62.3	5.6677
Se 196.026	3.0738	ppb	6.5453	212.9	1.9422
Sn 189.925	93.4547	ppb	3.9274	4.2	86.2974
Sr 216.596	118.481	ppb	0.9511	0.8	1321.40
Ti 334.941	447.208	ppb	1.0791	0.2	134052
Tl 190.794	7.2081	ppb	1.7602	24.4	-0.3284
V 292.401	116.938	ppb	0.3280	0.3	3523.84
Zn 206.200	864.640	ppb	8.0126	0.9	4179.53

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

680-88401-b-16-gSD^5 (Samp) 3/21/2013, 11:35:08 AM Rack 1, Tube 11

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.3402	0.5996	1.1848
Al 308.215	6137.22	6079.44	6043.33
As 188.980	15.5892	20.2495	6.2030
B 249.678	0.2842u	1.5520u	1.2246u
Ba 389.178	129.644	131.069	129.501
Be 313.042	0.3717	0.3631	0.3493
Ca 370.602	3275	3252	3219
Cd 226.502	0.2441	0.2436	0.1507
Co 228.615	4.1577	4.5817	4.7441
Cr 267.716	15.1767	15.1041	14.8749
Cu 324.754	1119.38	1103.55	1110.63
Fe 271.441	16838.1	16766.9	16698.9
K 766.491	423.189	421.151	418.419
Mg 279.078	412.090	409.865	403.479
Mn 257.610	367.283	364.083	362.086
Mo 202.032	0.7093	0.8818	0.5263
Na 330.237	11.6408u	254.884	87.4703u
Ni 231.604	6.0672	5.6593	5.3703
Pb 220.353	1164.87	1153.55	1143.36
Sb 206.834	-0.5370u	3.3262	7.0535
Se 196.026	-1.5018u	-7.8213u	4.8876
Sn 189.925	21.2267	20.3367	21.1777
Sr 216.596	24.1791	24.5965	23.7194
Ti 334.941	92.3226	91.2102	90.4887
Tl 190.794	-1.5150u	4.1739	4.1184
V 292.401	23.5797	23.3575	23.5505
Zn 206.200	175.890	176.286	173.723

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.0416	ppb	0.3905	37.5	20.7261
Al 308.215	6086.66	ppb	47.3610	0.8	35822.3
As 188.980	14.0139	ppb	7.1545	51.1	6.3380
B 249.678	1.0203	ppb	0.6581	64.5	38.4018
Ba 389.178	130.072	ppb	0.8670	0.7	3439.63
Be 313.042	0.3614	ppb	0.0113	3.1	478.747
Ca 370.602	3249	ppb	27.89	0.9	10384
Cd 226.502	0.2128	ppb	0.0538	25.3	60.6003
Co 228.615	4.4945	ppb	0.3028	6.7	73.5333
Cr 267.716	15.0519	ppb	0.1575	1.0	700.624
Cu 324.754	1111.19	ppb	7.9300	0.7	58439.8
Fe 271.441	16768.0	ppb	69.5967	0.4	29312.4
K 766.491	420.920	ppb	2.3935	0.6	26042.6
Mg 279.078	408.478	ppb	4.4699	1.1	917.782
Mn 257.610	364.484	ppb	2.6216	0.7	86215.2
Mo 202.032	0.7058	ppb	0.1777	25.2	14.0035
Na 330.237	117.998	ppb	124.462	105.5	-7.1429
Ni 231.604	5.6989	ppb	0.3501	6.1	14.1122
Pb 220.353	1153.93	ppb	10.7588	0.9	1972.38
Sb 206.834	3.2809	ppb	3.7955	115.7	0.7561
Se 196.026	-1.4785	ppb	6.3545	429.8	-0.1036
Sn 189.925	20.9137	ppb	0.5003	2.4	18.9484
Sr 216.596	24.1650	ppb	0.4387	1.8	274.199
Ti 334.941	91.3405	ppb	0.9239	1.0	27283.0
Tl 190.794	2.2591	ppb	3.2686	144.7	0.0163
V 292.401	23.4959	ppb	0.1207	0.5	711.012
Zn 206.200	175.300	ppb	1.3890	0.8	240.651

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88401-b-16-gPDS (Samp) **3/21/2013, 11:40:34 AM** **Rack 1, Tube 12****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.2719	49.7430	48.8852
Al 308.215	31292.1	31266.6	31285.4
As 188.980	2229.11	2231.42	2222.01
B 249.678	1030.93	1035.11	1044.65
Ba 389.178	2707.21	2703.66	2705.26
Be 313.042	53.7955	53.6249	53.4766
Ca 370.602	20657	20618	20575
Cd 226.502	53.6440	53.3142	53.5250
Co 228.615	540.826	542.849	537.673
Cr 267.716	288.746	287.802	286.674
Cu 324.754	5782.26	5566.50	5662.65
Fe 271.441	80751.5	80748.0	81012.4
K 766.491	7546.64	7559.07	7568.82
Mg 279.078	7125.31	7105.38	7092.02
Mn 257.610	2293.22	2271.80	2289.75
Mo 202.032	533.488	531.794	530.256
Na 330.237	5181.26	5208.34	5031.14
Ni 231.604	549.647	552.163	546.572
Pb 220.353	6003.82	5985.87	5984.86
Sb 206.834	528.810	532.158	518.571
Se 196.026	2033.05	2052.76	2079.23
Sn 189.925	1147.73	1145.69	1148.36
Sr 216.596	659.747	658.141	654.064
Ti 334.941	1504.17	1497.64	1492.99
Tl 190.794	2186.49	2187.12	2188.16
V 292.401	635.452	635.036	633.926
Zn 206.200	1355.87	1358.05	1359.98

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.9667	ppb	1.2090	2.4	3497.78
Al 308.215	31281.4	ppb	13.1883	0.0	183063
As 188.980	2227.51	ppb	4.9069	0.2	1386.27
B 249.678	1036.90	ppb	7.0351	0.7	9781.97
Ba 389.178	2705.38	ppb	1.7765	0.1	71613.6
Be 313.042	53.6323	ppb	0.1596	0.3	110851
Ca 370.602	20616	ppb	40.96	0.2	68495
Cd 226.502	53.4944	ppb	0.1670	0.3	2328.90
Co 228.615	540.449	ppb	2.6087	0.5	6929.36
Cr 267.716	287.741	ppb	1.0371	0.4	13180.5
Cu 324.754	5670.47	ppb	108.088	1.9	297550
Fe 271.441	80837.3	ppb	151.621	0.2	141376
K 766.491	7558.17	ppb	11.1184	0.1	462452
Mg 279.078	7107.57	ppb	16.7528	0.2	15531.4
Mn 257.610	2284.92	ppb	11.4986	0.5	540065
Mo 202.032	531.846	ppb	1.6163	0.3	3906.09
Na 330.237	5140.25	ppb	95.4544	1.9	221.944
Ni 231.604	549.461	ppb	2.8000	0.5	1460.20
Pb 220.353	5991.52	ppb	10.6691	0.2	10236.9
Sb 206.834	526.513	ppb	7.0787	1.3	527.493
Se 196.026	2055.01	ppb	23.1745	1.1	963.284
Sn 189.925	1147.26	ppb	1.3955	0.1	1064.63
Sr 216.596	657.317	ppb	2.9295	0.4	7118.49
Ti 334.941	1498.27	ppb	5.6123	0.4	449371
Tl 190.794	2187.26	ppb	0.8453	0.0	1648.03
V 292.401	634.805	ppb	0.7891	0.1	18997.4
Zn 206.200	1357.97	ppb	2.0583	0.2	4151.01

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

Cont Calib Verif (CCV) 3/21/2013, 11:45:59 AM Rack 1, Tube 13
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	512.850	506.520	507.664
Al 308.215	5019.58	5012.70	5046.93
As 188.980	473.945	472.824	477.980
B 249.678	2492.70	2508.30	2541.49
Ba 389.178	5000.49	4991.32	5023.82
Be 313.042	502.447	500.795	503.846
Ca 370.602	5097	5085	5115
Cd 226.502	501.376	499.986	504.231
Co 228.615	499.592	498.065	503.372
Cr 267.716	5121.29	5109.61	5133.29
Cu 324.754	4937.03	4919.42	4860.13
Fe 271.441	5042.37	5034.49	5072.99
K 766.491	9926.79	9955.33	10051.7
Mg 279.078	4972.19	4964.43	4995.04
Mn 257.610	4996.74	4973.41	5013.57
Mo 202.032	503.387	503.703	507.799
Na 330.237	7392.08	7349.83	7665.10
Ni 231.604	2520.49	2511.14	2522.77
Pb 220.353	517.578	517.459	525.131
Sb 206.834	977.653	985.821	996.820
Se 196.026	4890.92	4916.11	4964.17
Sn 189.925	5149.09	5141.50	5211.65
Sr 216.596	2554.21	2544.21	2560.16
Ti 334.941	498.303	497.547	498.774
Tl 190.794	5129.25	5180.25	5200.34
V 292.401	4984.72	4973.72	5016.41
Zn 206.200	2494.02	2498.75	2514.56

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	509.011	ppb	3.3735	0.7	36210.1	101.80226
Al 308.215	5026.40	ppb	18.1089	0.4	29605.9	100.52805
As 188.980	474.916	ppb	2.7119	0.6	293.810	94.98327
B 249.678	2514.16	ppb	24.9216	1.0	23835.9	100.56654
Ba 389.178	5005.21	ppb	16.7559	0.3	132261	100.10417
Be 313.042	502.363	ppb	1.5275	0.3	1041333	100.47254
Ca 370.602	5099	ppb	15.07	0.3	18567	101.97534
Cd 226.502	501.864	ppb	2.1644	0.4	19825.2	100.37285
Co 228.615	500.343	ppb	2.7316	0.5	6407.11	100.06861
Cr 267.716	5121.40	ppb	11.8438	0.2	234008	102.42797
Cu 324.754	4905.53	ppb	40.2863	0.8	257368	98.11055
Fe 271.441	5049.95	ppb	20.3417	0.4	8960.26	100.99899
K 766.491	9977.95	ppb	65.4642	0.7	610410	99.77950
Mg 279.078	4977.22	ppb	15.9132	0.3	10824.4	99.54440
Mn 257.610	4994.57	ppb	20.1707	0.4	1179899	99.89145
Mo 202.032	504.963	ppb	2.4610	0.5	3704.44	100.99258
Na 330.237	7469.00	ppb	171.135	2.3	369.692	99.58671
Ni 231.604	2518.13	ppb	6.1590	0.2	6689.16	100.72530
Pb 220.353	520.056	ppb	4.3956	0.8	889.222	104.01125
Sb 206.834	986.765	ppb	9.6182	1.0	1041.40	98.67649
Se 196.026	4923.73	ppb	37.2202	0.8	2308.25	98.47464
Sn 189.925	5167.42	ppb	38.4976	0.7	4796.81	103.34833
Sr 216.596	2552.86	ppb	8.0554	0.3	27543.9	102.11435
Ti 334.941	498.208	ppb	0.6187	0.1	149354	99.64163
Tl 190.794	5169.95	ppb	36.6475	0.7	3905.22	103.39896
V 292.401	4991.62	ppb	22.1665	0.4	149764	99.83232
Zn 206.200	2502.44	ppb	10.7610	0.4	3397.80	100.09772

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

Cont Calib Blank (CCB) 3/21/2013, 11:51:23 AM Rack 1, Tube 14
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2039u	-0.4227u	0.0822
Al 308.215	-1.9475u	0.1340	-0.1248u
As 188.980	-2.3124u	4.6076	1.3980
B 249.678	27.0607	24.2551	20.8702
Ba 389.178	0.2387	0.1672	-0.3328u
Be 313.042	0.0564	0.0449	0.0419
Ca 370.602	-2.071u	-0.2217u	2.147
Cd 226.502	-0.0580u	-0.3320u	0.1321
Co 228.615	0.5324	0.3823	-0.4495u
Cr 267.716	0.4494	0.3497	0.6626
Cu 324.754	0.4836	0.1022	0.1080
Fe 271.441	9.3809	8.2068	2.1594
K 766.491	-0.5866u	-0.4243u	-0.0946u
Mg 279.078	-0.3769u	-4.5158u	-5.2632u
Mn 257.610	0.5154	0.4734	0.4542
Mo 202.032	1.4124	1.2799	1.2784
Na 330.237	114.885	-137.315u	159.799
Ni 231.604	0.6024	1.2691	0.4541
Pb 220.353	-0.1608u	0.7504	-1.7300u
Sb 206.834	1.6053	3.6065	5.5039
Se 196.026	-3.6112u	2.7025	-2.9989u
Sn 189.925	1.5283	0.7121	0.6830
Sr 216.596	0.3905	-0.0743u	0.8330
Ti 334.941	0.2854	0.2868	0.2656
Tl 190.794	8.0840	4.9001	7.5062
V 292.401	0.5013	0.2711	0.4843
Zn 206.200	0.2832	-1.6344u	-0.3436u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1815	ppb	0.2532	139.6	-67.2647	-0.18146
Al 308.215	-0.6461	ppb	1.1344	175.6	262.384	-0.64612
As 188.980	1.2310	ppb	3.4630	281.3	-1.4895	1.23105
B 249.678	24.0620	ppb	3.0998	12.9	272.358	24.06197
Ba 389.178	0.0244	ppb	0.3114	1277.5	-24.9858	0.02437
Be 313.042	0.0477	ppb	0.0076	16.0	-172.037	0.04774
Ca 370.602	-0.0486	ppb	2.114	4348.1	-3.071	-0.04862
Cd 226.502	-0.0859	ppb	0.2333	271.5	5.5490	-0.08593
Co 228.615	0.1550	ppb	0.5289	341.1	16.2091	0.15505
Cr 267.716	0.4872	ppb	0.1598	32.8	29.7967	0.48720
Cu 324.754	0.2313	ppb	0.2185	94.5	177.899	0.23128
Fe 271.441	6.5824	ppb	3.8751	58.9	18.3491	6.58239
K 766.491	-0.3685	ppb	0.2507	68.0	282.853	-0.36851
Mg 279.078	-3.3853	ppb	2.6320	77.7	22.4146	-3.38529
Mn 257.610	0.4810	ppb	0.0313	6.5	183.320	0.48100
Mo 202.032	1.3236	ppb	0.0770	5.8	19.4324	1.32359
Na 330.237	45.7901	ppb	160.155	349.8	-3.6843	45.79006
Ni 231.604	0.7752	ppb	0.4341	56.0	0.6750	0.77519
Pb 220.353	-0.3801	ppb	1.2546	330.1	0.0342	-0.38013
Sb 206.834	3.5719	ppb	1.9495	54.6	0.5141	3.57192
Se 196.026	-1.3025	ppb	3.4820	267.3	0.0026	-1.30251
Sn 189.925	0.9745	ppb	0.4799	49.2	0.4363	0.97449
Sr 216.596	0.3831	ppb	0.4537	118.4	9.9391	0.38307
Ti 334.941	0.2793	ppb	0.0119	4.3	-37.7070	0.27929
Tl 190.794	6.8301	ppb	1.6962	24.8	4.5184	6.83010
V 292.401	0.4189	ppb	0.1283	30.6	16.0276	0.41888
Zn 206.200	-0.5649	ppb	0.9777	173.1	430.1227	-0.56491

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88401-b-16-h ms (Samp) **3/21/2013, 11:56:47 AM** **Rack 1, Tube 15****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	55.8139	54.6445	54.9070
Al 308.215	54134.7	54108.6	53764.9
As 188.980	153.102	161.790	152.680
B 249.678	172.559	172.013	173.822
Ba 389.178	319.239	318.439	316.030
Be 313.042	56.1868	56.2273	55.8585
Ca 370.602	13738	13755	13662
Cd 226.502	53.8794	53.7135	53.3953
Co 228.615	61.8313	62.9337	62.0703
Cr 267.716	244.994	245.377	243.663
Cu 324.754	564.680	559.142	560.309
Fe 271.441	90917.6	90884.3	90293.6
K 766.491	8215.48	8222.66	8194.70
Mg 279.078	8224.29	8226.18	8176.78
Mn 257.610	992.036	991.652	985.366
Mo 202.032	82.4826	83.6273	82.8131
Na 330.237	4660.00	4672.65	4459.53
Ni 231.604	129.304	130.288	129.049
Pb 220.353	443.471	439.100	432.873
Sb 206.834	3.3685	10.7943	13.9442
Se 196.026	96.3689	94.5402	91.5855
Sn 189.925	47.3986	44.1573	47.7584
Sr 216.596	189.907	188.646	188.863
Ti 334.941	348.877	349.121	347.003
Tl 190.794	55.9380	53.1350	49.4838
V 292.401	274.106	275.206	273.645
Zn 206.200	284.211	280.013	273.839

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	55.1218	ppb	0.6136	1.1	3876.62
Al 308.215	54002.7	ppb	206.410	0.4	315741
As 188.980	155.857	ppb	5.1424	3.3	94.1107
B 249.678	172.798	ppb	0.9281	0.5	1594.11
Ba 389.178	317.903	ppb	1.6705	0.5	8547.27
Be 313.042	56.0909	ppb	0.2023	0.4	116043
Ca 370.602	13718	ppb	49.09	0.4	41943
Cd 226.502	53.6627	ppb	0.2460	0.5	2360.84
Co 228.615	62.2784	ppb	0.5799	0.9	812.931
Cr 267.716	244.678	ppb	0.8996	0.4	11211.1
Cu 324.754	561.377	ppb	2.9197	0.5	29631.3
Fe 271.441	90698.5	ppb	351.040	0.4	158529
K 766.491	8210.94	ppb	14.5224	0.2	502366
Mg 279.078	8209.08	ppb	27.9927	0.3	17955.0
Mn 257.610	989.685	ppb	3.7453	0.4	234144
Mo 202.032	82.9743	ppb	0.5892	0.7	613.291
Na 330.237	4597.40	ppb	119.558	2.6	207.116
Ni 231.604	129.547	ppb	0.6541	0.5	344.742
Pb 220.353	438.481	ppb	5.3259	1.2	748.824
Sb 206.834	9.3690	ppb	5.4300	58.0	10.1124
Se 196.026	94.1648	ppb	2.4137	2.6	44.3654
Sn 189.925	46.4381	ppb	1.9834	4.3	42.6493
Sr 216.596	189.139	ppb	0.6742	0.4	2084.13
Ti 334.941	348.333	ppb	1.1590	0.3	104424
Tl 190.794	52.8523	ppb	3.2364	6.1	34.7889
V 292.401	274.319	ppb	0.8018	0.3	8229.78
Zn 206.200	279.354	ppb	5.2172	1.9	430.816

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

680-88401-b-16-i msd (Samp) 3/21/2013, 12:02:11 PM Rack 1, Tube 16**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	62.4401	62.8584	62.0045
Al 308.215	34512.1	34502.5	34408.6
As 188.980	152.401	151.322	151.024
B 249.678	186.748	187.675	186.909
Ba 389.178	663.287	662.417	660.440
Be 313.042	55.0484	55.0871	54.8439
Ca 370.602	14282	14294	14242
Cd 226.502	54.1076	54.1296	53.8601
Co 228.615	67.0515	68.0994	67.8859
Cr 267.716	227.751	228.354	226.996
Cu 324.754	10024.3	10119.7	10221.6
Fe 271.441	67661.9	67673.9	67461.6
K 766.491	6809.51	6839.32	6816.16
Mg 279.078	7715.84	7709.32	7679.46
Mn 257.610	1705.03	1705.79	1697.95
Mo 202.032	90.2519	89.9366	89.0379
Na 330.237	4378.89	4413.36	4702.61
Ni 231.604	145.035	146.803	145.279
Pb 220.353	12151.9	12152.9	12097.4
Sb 206.834	46.8863	46.8040	44.4986
Se 196.026	102.256	97.9784	82.9682
Sn 189.925	773.490	780.263	787.053
Sr 216.596	187.877	187.554	186.685
Ti 334.941	428.640	429.081	428.862
Tl 190.794	49.1854	53.5157	46.7877
V 292.401	194.488	193.870	194.338
Zn 206.200	824.453	828.214	823.413

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	62.4343	ppb	0.4270	0.7	4401.09
Al 308.215	34474.4	ppb	57.1942	0.2	201664
As 188.980	151.582	ppb	0.7243	0.5	91.6846
B 249.678	187.111	ppb	0.4955	0.3	1751.46
Ba 389.178	662.048	ppb	1.4594	0.2	17601.1
Be 313.042	54.9931	ppb	0.1307	0.2	113765
Ca 370.602	14273	ppb	27.10	0.2	46196
Cd 226.502	54.0324	ppb	0.1497	0.3	2316.00
Co 228.615	67.6789	ppb	0.5537	0.8	884.090
Cr 267.716	227.700	ppb	0.6806	0.3	10433.7
Cu 324.754	10121.9	ppb	98.6812	1.0	530962
Fe 271.441	67599.2	ppb	119.246	0.2	118160
K 766.491	6821.66	ppb	15.6478	0.2	417418
Mg 279.078	7701.54	ppb	19.3967	0.3	16835.7
Mn 257.610	1702.92	ppb	4.3205	0.3	402554
Mo 202.032	89.7421	ppb	0.6299	0.7	664.269
Na 330.237	4498.29	ppb	177.783	4.0	204.189
Ni 231.604	145.706	ppb	0.9578	0.7	387.181
Pb 220.353	12134.1	ppb	31.7418	0.3	20734.2
Sb 206.834	46.0630	ppb	1.3554	2.9	46.5765
Se 196.026	94.4008	ppb	10.1293	10.7	44.7928
Sn 189.925	780.268	ppb	6.7815	0.9	723.916
Sr 216.596	187.372	ppb	0.6166	0.3	2055.03
Ti 334.941	428.861	ppb	0.2207	0.1	128575
Tl 190.794	49.8296	ppb	3.4099	6.8	32.5836
V 292.401	194.232	ppb	0.3225	0.2	5821.26
Zn 206.200	825.360	ppb	2.5253	0.3	4125.64

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680-88401-b-17-c (Samp) 3/21/2013, 12:07:35 PM Rack 1, Tube 17
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3942u	-1.0518u	-1.0380u
Al 308.215	14479.5	14438.2	14412.7
As 188.980	16.0798	14.7110	13.5383
B 249.678	2.9847	4.6060	3.9507
Ba 389.178	60.1309	59.8904	60.2461
Be 313.042	0.3439	0.3403	0.3461
Ca 370.602	1497	1497	1496
Cd 226.502	-0.1577	-0.3358	-0.3575
Co 228.615	0.5745	1.2989	1.1272
Cr 267.716	38.7634	38.5818	38.8945
Cu 324.754	38.1378	38.6062	39.7418
Fe 271.441	24287.1	24299.2	24236.7
K 766.491	534.186	534.531	533.160
Mg 279.078	577.133	578.219	577.159
Mn 257.610	42.0010	41.9593	41.8249
Mo 202.032	2.5989	2.2750	2.1669
Na 330.237	-254.918u	263.617	-24.8606u
Ni 231.604	6.2518	5.6944	6.3386
Pb 220.353	42.3210	39.2150	39.8989
Sb 206.834	2.0259	2.2502	4.9157
Se 196.026	2.0418	2.6391	-12.9846u
Sn 189.925	6.0614	5.5092	7.7358
Sr 216.596	11.4899	12.7876	12.2022
Ti 334.941	198.661	198.360	197.388
Tl 190.794	3.8274	2.0928	-0.0400u
V 292.401	67.9173	67.7805	67.1016
Zn 206.200	20.9157	22.4323	23.3734

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8280	ppb	0.3758	45.4	-113.337
Al 308.215	14443.4	ppb	33.7202	0.2	84639.7
As 188.980	14.7763	ppb	1.2720	8.6	6.7212
B 249.678	3.8471	ppb	0.8156	21.2	58.0112
Ba 389.178	60.0891	ppb	0.1815	0.3	1603.42
Be 313.042	0.3434	ppb	0.0029	0.8	439.966
Ca 370.602	1497	ppb	0.5335	0.0	3249
Cd 226.502	-0.2837	ppb	0.1096	38.6	60.4642
Co 228.615	1.0002	ppb	0.3786	37.8	31.6586
Cr 267.716	38.7466	ppb	0.1570	0.4	1783.63
Cu 324.754	38.8286	ppb	0.8248	2.1	2208.78
Fe 271.441	24274.3	ppb	33.1148	0.1	42430.9
K 766.491	533.959	ppb	0.7131	0.1	32954.4
Mg 279.078	577.504	ppb	0.6196	0.1	1291.36
Mn 257.610	41.9284	ppb	0.0920	0.2	10045.0
Mo 202.032	2.3469	ppb	0.2248	9.6	25.5747
Na 330.237	-5.3870	ppb	259.815	4823.0	-15.7801
Ni 231.604	6.0949	ppb	0.3496	5.7	15.3264
Pb 220.353	40.4783	ppb	1.6321	4.0	69.4797
Sb 206.834	3.0639	ppb	1.6076	52.5	0.9082
Se 196.026	-2.7679	ppb	8.8530	319.8	-0.8320
Sn 189.925	6.4355	ppb	1.1595	18.0	5.5062
Sr 216.596	12.1599	ppb	0.6499	5.3	147.295
Ti 334.941	198.136	ppb	0.6651	0.3	59321.6
Tl 190.794	1.9600	ppb	1.9371	98.8	-0.1320
V 292.401	67.5998	ppb	0.4368	0.6	2037.88
Zn 206.200	22.2405	ppb	1.2400	5.6	320914

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680-88401-b-18-c (Samp) **3/21/2013, 12:13:00 PM** **Rack 1, Tube 18**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.2309u	-0.6107u	0.1415
Al 308.215	18474.7	18625.4	18612.3
As 188.980	7.8631	3.6629	18.8937
B 249.678	1.5057u	1.4174u	1.6980u
Ba 389.178	41.8987	43.1627	43.0452
Be 313.042	0.3265	0.3260	0.3281
Ca 370.602	1631	1630	1627
Cd 226.502	-0.4460	-0.3066	-0.3637
Co 228.615	1.9422	1.4634	2.0577
Cr 267.716	39.8719	40.0863	40.2059
Cu 324.754	49.9231	51.5144	49.7909
Fe 271.441	26453.8	26685.2	26699.0
K 766.491	462.466	466.417	467.566
Mg 279.078	533.608	535.888	533.187
Mn 257.610	73.2331	73.8521	73.7456
Mo 202.032	2.6586	3.1986	2.9011
Na 330.237	-5.9623u	248.571	151.322u
Ni 231.604	5.4171	3.9889	4.9941
Pb 220.353	48.0309	49.5447	44.8369
Sb 206.834	1.7235	1.4568	2.3011
Se 196.026	4.1237	-10.8282u	-3.9142u
Sn 189.925	4.8529	4.1204	6.0506
Sr 216.596	6.6916	6.9070	6.5404
Ti 334.941	272.440	274.664	274.603
Tl 190.794	4.8174	2.7434	-0.6325u
V 292.401	71.0261	71.4610	71.3647
Zn 206.200	23.8913	24.8133	25.0962

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5667	ppb	0.6873	121.3	-94.2926
Al 308.215	18570.8	ppb	83.5217	0.4	108751
As 188.980	10.1399	ppb	7.8665	77.6	3.8066
B 249.678	1.5404	ppb	0.1435	9.3	33.9939
Ba 389.178	42.7022	ppb	0.6983	1.6	1147.64
Be 313.042	0.3269	ppb	0.0011	0.3	405.792
Ca 370.602	1630	ppb	2.141	0.1	3536
Cd 226.502	-0.3721	ppb	0.0701	18.8	62.9226
Co 228.615	1.8211	ppb	0.3151	17.3	44.1358
Cr 267.716	40.0547	ppb	0.1692	0.4	1844.19
Cu 324.754	50.4095	ppb	0.9592	1.9	2816.76
Fe 271.441	26612.7	ppb	137.757	0.5	46517.6
K 766.491	465.483	ppb	2.6754	0.6	28767.5
Mg 279.078	534.227	ppb	1.4533	0.3	1195.40
Mn 257.610	73.6102	ppb	0.3309	0.4	17534.9
Mo 202.032	2.9194	ppb	0.2704	9.3	29.6504
Na 330.237	131.310	ppb	128.441	97.8	-9.7818
Ni 231.604	4.8000	ppb	0.7336	15.3	11.9360
Pb 220.353	47.4708	ppb	2.4033	5.1	81.3156
Sb 206.834	1.8272	ppb	0.4316	23.6	-0.2837
Se 196.026	-3.5396	ppb	7.4830	211.4	-1.2011
Sn 189.925	5.0080	ppb	0.9744	19.5	4.1810
Sr 216.596	6.7130	ppb	0.1842	2.7	89.3811
Ti 334.941	273.902	ppb	1.2672	0.5	82049.9
Tl 190.794	2.3094	ppb	2.7507	119.1	0.0087
V 292.401	71.2839	ppb	0.2284	0.3	2149.73
Zn 206.200	24.6002	ppb	0.6301	2.6	35.3021

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680-88401-b-19-c (Samp) 3/21/2013, 12:18:24 PM Rack 1, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.4710u	-0.8201u	-0.8044u
Al 308.215	28040.7	27922.7	27931.4
As 188.980	13.0172	22.5827	20.7288
B 249.678	2.4250u	2.0568u	2.3484u
Ba 389.178	195.363	197.019	197.285
Be 313.042	0.9194	0.9243	0.9174
Ca 370.602	4736	4732	4724
Cd 226.502	-0.3174	-0.3427	-0.4771
Co 228.615	10.3401	10.6625	10.6287
Cr 267.716	76.3881	76.7861	76.5518
Cu 324.754	35.2483	34.8804	34.6504
Fe 271.441	50153.9	49967.4	49968.1
K 766.491	1970.44	1959.52	1964.00
Mg 279.078	2118.21	2118.64	2114.47
Mn 257.610	349.912	348.318	348.520
Mo 202.032	2.4576	2.5858	2.6964
Na 330.237	86.9183u	-45.6189u	-102.849u
Ni 231.604	9.8743	9.2453	9.2801
Pb 220.353	37.9703	36.6972	35.6414
Sb 206.834	4.1140	1.6241	2.9532
Se 196.026	1.6976	-8.2086u	-2.0016u
Sn 189.925	2.1957	4.0056	2.3618
Sr 216.596	29.2475	29.1506	30.2075
Ti 334.941	336.348	336.005	336.066
Tl 190.794	-3.4669u	4.8710	0.1634u
V 292.401	104.970	104.423	104.772
Zn 206.200	69.0905	67.7294	67.7337

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0319	ppb	0.3804	36.9	-127.099
Al 308.215	27964.9	ppb	65.7417	0.2	163628
As 188.980	18.7762	ppb	5.0729	27.0	8.9787
B 249.678	2.2767	ppb	0.1943	8.5	18.8286
Ba 389.178	196.556	ppb	1.0415	0.5	5255.56
Be 313.042	0.9204	ppb	0.0035	0.4	1636.84
Ca 370.602	4730	ppb	6.282	0.1	12748
Cd 226.502	-0.3791	ppb	0.0858	22.6	122.981
Co 228.615	10.5438	ppb	0.1772	1.7	156.443
Cr 267.716	76.5753	ppb	0.2001	0.3	3519.34
Cu 324.754	34.9264	ppb	0.3016	0.9	2011.78
Fe 271.441	50029.8	ppb	107.473	0.2	87444.4
K 766.491	1964.65	ppb	5.4878	0.3	120435
Mg 279.078	2117.11	ppb	2.2944	0.1	4651.78
Mn 257.610	348.917	ppb	0.8681	0.2	82639.9
Mo 202.032	2.5799	ppb	0.1195	4.6	25.9067
Na 330.237	-20.5164	ppb	97.3421	474.5	-26.0943
Ni 231.604	9.4665	ppb	0.3535	3.7	24.8303
Pb 220.353	36.7696	ppb	1.1661	3.2	62.8771
Sb 206.834	2.8971	ppb	1.2459	43.0	1.6952
Se 196.026	-2.8375	ppb	5.0057	176.4	-0.9597
Sn 189.925	2.8544	ppb	1.0004	35.0	2.1825
Sr 216.596	29.5352	ppb	0.5843	2.0	345.982
Ti 334.941	336.139	ppb	0.1828	0.1	100731
Tl 190.794	0.5225	ppb	4.1805	800.1	-2.5422
V 292.401	104.722	ppb	0.2772	0.3	3154.51
Zn 206.200	68.1845	ppb	0.7846	1.2	94.5793

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680-88401-b-23-c (Samp) 3/21/2013, 12:23:49 PM Rack 1, Tube 20
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5272	0.1123u	-1.7558u
Al 308.215	39172.8	39132.7	39162.3
As 188.980	86.9067	90.6572	90.8915
B 249.678	35.5406	35.0639	36.4055
Ba 389.178	1038.67	1036.47	1039.60
Be 313.042	4.0411	4.0245	4.0292
Ca 370.602	37758	37749	37754
Cd 226.502	2.2161	2.4472	2.2289
Co 228.615	25.7261	25.5790	25.6626
Cr 267.716	78.6713	78.7231	78.7102
Cu 324.754	286.775	285.216	285.448
Fe 271.441	121714	121309	121560
K 766.491	2242.03	2235.97	2239.30
Mg 279.078	4807.93	4801.15	4793.64
Mn 257.610	2257.14	2254.68	2237.31
Mo 202.032	6.9726	6.9531	7.3622
Na 330.237	648.191u	767.993u	513.356u
Ni 231.604	49.6960	50.8658	49.0561
Pb 220.353	3230.27	3245.11	3237.56
Sb 206.834	-0.5367	3.6864	-5.1730u
Se 196.026	-9.9661u	1.2620	-2.6163u
Sn 189.925	24.7972	24.0168	30.7441
Sr 216.596	524.932	524.805	523.884
Ti 334.941	760.120	758.956	759.325
Tl 190.794	8.5317u	15.3975	12.2770
V 292.401	129.295	129.213	128.761
Zn 206.200	1869.32	1867.27	1871.36

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3721	ppb	1.2162	326.8	-92.0059
Al 308.215	39155.9	ppb	20.7740	0.1	229003
As 188.980	89.4851	ppb	2.2361	2.5	52.6160
B 249.678	35.6700	ppb	0.6801	1.9	267.100
Ba 389.178	1038.25	ppb	1.6073	0.2	27619.1
Be 313.042	4.0316	ppb	0.0086	0.2	8097.95
Ca 370.602	37754	ppb	4.506	0.0	127470
Cd 226.502	2.2974	ppb	0.1299	5.7	413.362
Co 228.615	25.6559	ppb	0.0738	0.3	358.118
Cr 267.716	78.7015	ppb	0.0270	0.0	3641.04
Cu 324.754	285.813	ppb	0.8415	0.3	15190.1
Fe 271.441	121528	ppb	204.419	0.2	212401
K 766.491	2239.10	ppb	3.0383	0.1	137216
Mg 279.078	4800.91	ppb	7.1505	0.1	10495.8
Mn 257.610	2249.71	ppb	10.8067	0.5	531850
Mo 202.032	7.0960	ppb	0.2308	3.3	55.3482
Na 330.237	643.180	ppb	127.393	19.8	-30.2189
Ni 231.604	49.8727	ppb	0.9177	1.8	133.699
Pb 220.353	3237.65	ppb	7.4181	0.2	5532.38
Sb 206.834	-0.6745	ppb	4.4313	657.0	-0.2768
Se 196.026	-3.7734	ppb	5.7028	151.1	-1.4184
Sn 189.925	26.5194	ppb	3.6795	13.9	24.1657
Sr 216.596	524.540	ppb	0.5720	0.1	5728.91
Ti 334.941	759.467	ppb	0.5946	0.1	227742
Tl 190.794	12.0687	ppb	3.4376	28.5	1.3096
V 292.401	129.090	ppb	0.2876	0.2	3893.68
Zn 206.200	1869.32	ppb	2.0421	0.1	2548.10

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680-88401-b-24-c (Samp) 3/21/2013, 12:29:15 PM Rack 1, Tube 21

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6433u	-1.7771u	-0.5458u
Al 308.215	58659.3	58796.7	58659.8
As 188.980	87.2022	82.9474	88.4960
B 249.678	7.2474u	5.5775u	7.2389u
Ba 389.178	1810.45	1814.21	1810.62
Be 313.042	4.8590	4.8676	4.8602
Ca 370.602	22401	22416	22385
Cd 226.502	1.1269	0.7741	0.6909
Co 228.615	58.5207	59.4012	59.3155
Cr 267.716	86.9581	87.3563	87.5422
Cu 324.754	867.930	869.040	868.834
Fe 271.441	206761	207377	206644
K 766.491	2255.40	2258.57	2252.54
Mg 279.078	1679.84	1687.40	1685.49
Mn 257.610	8665.12	8692.20	8673.92
Mo 202.032	2.7523	3.8179	2.6616
Na 330.237	706.067u	580.809u	573.905u
Ni 231.604	43.5256	41.3447	42.6218
Pb 220.353	1866.63	1878.65	1876.21
Sb 206.834	2.6584	1.7741	3.9004
Se 196.026	-1.9381u	11.5489	0.7145
Sn 189.925	32.6268	31.3441	34.5723
Sr 216.596	231.809	234.133	231.792
Ti 334.941	642.432	645.271	644.024
Tl 190.794	30.7089	34.3237	33.8569
V 292.401	173.276	173.682	173.579
Zn 206.200	1344.40	1355.11	1343.29

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9887	ppb	0.6845	69.2	-96.0822
Al 308.215	58705.3	ppb	79.2293	0.1	343203
As 188.980	86.2152	ppb	2.9030	3.4	49.5713
B 249.678	6.6879	ppb	0.9617	14.4	-88.2924
Ba 389.178	1811.76	ppb	2.1273	0.1	48186.6
Be 313.042	4.8623	ppb	0.0047	0.1	9812.76
Ca 370.602	22401	ppb	15.63	0.1	63185
Cd 226.502	0.8640	ppb	0.2315	26.8	577.631
Co 228.615	59.0791	ppb	0.4856	0.8	778.320
Cr 267.716	87.2856	ppb	0.2984	0.3	4078.61
Cu 324.754	868.602	ppb	0.5905	0.1	45776.7
Fe 271.441	206927	ppb	394.024	0.2	361656
K 766.491	2255.51	ppb	3.0174	0.1	138219
Mg 279.078	1684.24	ppb	3.9332	0.2	3587.58
Mn 257.610	8677.08	ppb	13.8169	0.2	2050311
Mo 202.032	3.0772	ppb	0.6430	20.9	21.4257
Na 330.237	620.260	ppb	74.3908	12.0	-53.3546
Ni 231.604	42.4974	ppb	1.0958	2.6	115.913
Pb 220.353	1873.83	ppb	6.3525	0.3	3203.05
Sb 206.834	2.7776	ppb	1.0681	38.5	5.3449
Se 196.026	3.4418	ppb	7.1452	207.6	2.9087
Sn 189.925	32.8477	ppb	1.6254	4.9	30.0317
Sr 216.596	232.578	ppb	1.3470	0.6	2606.94
Ti 334.941	643.909	ppb	1.4230	0.2	193073
Tl 190.794	32.9632	ppb	1.9662	6.0	6.6902
V 292.401	173.512	ppb	0.2112	0.1	5228.47
Zn 206.200	1347.60	ppb	6.5226	0.5	1837.39

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88401-b-25-c (Samp) 3/21/2013, 12:34:41 PM Rack 1, Tube 22
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.2199u	0.1309	0.4125
Al 308.215	91311.1	91835.9	91222.1
As 188.980	1.5428	0.7306	8.3920
B 249.678	15.2337	14.4508	14.9177
Ba 389.178	76.1335	76.7452	74.8259
Be 313.042	1.1762	1.1827	1.1765
Ca 370.602	4938	4975	4943
Cd 226.502	0.0562	0.3160	-0.0510
Co 228.615	4.1636	3.8301	3.3918
Cr 267.716	49.7919	50.2656	49.7316
Cu 324.754	22.7102	23.2131	22.6730
Fe 271.441	17469.0	17536.6	17426.4
K 766.491	1888.39	1893.04	1877.02
Mg 279.078	1670.52	1682.32	1664.41
Mn 257.610	70.9144	71.3175	70.6726
Mo 202.032	0.6493	0.0239u	0.5477
Na 330.237	302.144	312.497	156.275u
Ni 231.604	17.6227	17.2403	16.8514
Pb 220.353	26.4972	20.5148	24.2159
Sb 206.834	1.0838	4.3542	2.4965
Se 196.026	-0.9963u	1.6309	1.0187
Sn 189.925	-1.8965u	-0.3569u	3.9864
Sr 216.596	31.1304	31.3717	31.0364
Ti 334.941	391.854	394.580	392.109
Tl 190.794	3.4036	2.4252	8.5528
V 292.401	64.8019	64.9709	64.6439
Zn 206.200	44.0823	46.7206	44.2595

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2255	ppb	0.8726	387.0	-70.5967
Al 308.215	91456.4	ppb	331.694	0.4	534528
As 188.980	3.5551	ppb	4.2085	118.4	-0.1785
B 249.678	14.8674	ppb	0.3939	2.6	168.778
Ba 389.178	75.9015	ppb	0.9805	1.3	2013.39
Be 313.042	1.1785	ppb	0.0037	0.3	2181.72
Ca 370.602	4952	ppb	20.37	0.4	16627
Cd 226.502	0.1071	ppb	0.1888	176.3	58.2961
Co 228.615	3.7952	ppb	0.3871	10.2	73.1240
Cr 267.716	49.9297	ppb	0.2925	0.6	2294.33
Cu 324.754	22.8654	ppb	0.3017	1.3	1369.55
Fe 271.441	17477.3	ppb	55.5626	0.3	30552.5
K 766.491	1886.15	ppb	8.2443	0.4	115634
Mg 279.078	1672.42	ppb	9.1047	0.5	3658.57
Mn 257.610	70.9682	ppb	0.3258	0.5	16890.9
Mo 202.032	0.4069	ppb	0.3356	82.5	11.6951
Na 330.237	256.972	ppb	87.3598	34.0	-1.2729
Ni 231.604	17.2381	ppb	0.3856	2.2	44.8185
Pb 220.353	23.7427	ppb	3.0191	12.7	39.3307
Sb 206.834	2.6448	ppb	1.6402	62.0	0.4653
Se 196.026	0.5511	ppb	1.3746	249.4	0.7738
Sn 189.925	0.5777	ppb	3.0507	528.1	0.0698
Sr 216.596	31.1795	ppb	0.1729	0.6	350.295
Ti 334.941	392.848	ppb	1.5057	0.4	117739
Tl 190.794	4.7939	ppb	3.2919	68.7	2.2454
V 292.401	64.8056	ppb	0.1635	0.3	1956.16
Zn 206.200	45.0208	ppb	1.4748	3.3	63.0945

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88401-b-26-c (Samp) 3/21/2013, 12:40:06 PM Rack 1, Tube 23
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5689u	-0.7655u	-0.2667u
Al 308.215	106269	106347	106275
As 188.980	68.3345	66.7623	67.9320
B 249.678	0.9056u	-0.3764u	0.6334u
Ba 389.178	463.894	461.674	462.143
Be 313.042	3.1593	3.1422	3.1521
Ca 370.602	11283	11260	11254
Cd 226.502	-1.6692	-1.3914	-1.5361
Co 228.615	16.1640	16.0445	16.2559
Cr 267.716	184.516	185.129	184.943
Cu 324.754	250.176	250.626	250.004
Fe 271.441	179154	179317	179050
K 766.491	3184.28	3173.58	3167.16
Mg 279.078	2248.13	2251.00	2251.84
Mn 257.610	1445.54	1448.79	1447.47
Mo 202.032	2.5604	2.9607	2.7760
Na 330.237	241.636u	204.918u	250.542u
Ni 231.604	42.7581	44.4572	43.4891
Pb 220.353	395.078	393.047	395.014
Sb 206.834	1.6109	7.0579	2.9752
Se 196.026	1.5033u	5.2167	4.0160
Sn 189.925	2.2230	6.2929	4.7453
Sr 216.596	105.616	106.971	105.686
Ti 334.941	974.609	978.569	978.581
Tl 190.794	8.3322u	8.3556u	10.2869u
V 292.401	373.762	374.603	373.431
Zn 206.200	274.440	273.874	271.356

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5337	ppb	0.2513	47.1	-88.4621
Al 308.215	106297	ppb	43.7221	0.0	621218
As 188.980	67.6763	ppb	0.8167	1.2	38.2044
B 249.678	0.3875	ppb	0.6754	174.3	-121.364
Ba 389.178	462.570	ppb	1.1702	0.3	12494.9
Be 313.042	3.1512	ppb	0.0086	0.3	6260.70
Ca 370.602	11265	ppb	15.16	0.1	24757
Cd 226.502	-1.5322	ppb	0.1389	9.1	410.710
Co 228.615	16.1548	ppb	0.1060	0.7	241.378
Cr 267.716	184.863	ppb	0.3141	0.2	8500.73
Cu 324.754	250.269	ppb	0.3208	0.1	13341.4
Fe 271.441	179174	ppb	134.371	0.1	313147
K 766.491	3175.01	ppb	8.6487	0.3	194442
Mg 279.078	2250.33	ppb	1.9444	0.1	4924.58
Mn 257.610	1447.27	ppb	1.6330	0.1	342450
Mo 202.032	2.7657	ppb	0.2004	7.2	20.1846
Na 330.237	232.366	ppb	24.1837	10.4	-59.6557
Ni 231.604	43.5682	ppb	0.8523	2.0	118.185
Pb 220.353	394.379	ppb	1.1546	0.3	672.364
Sb 206.834	3.8813	ppb	2.8343	73.0	6.7172
Se 196.026	3.5787	ppb	1.8950	53.0	1.4641
Sn 189.925	4.4204	ppb	2.0543	46.5	3.6362
Sr 216.596	106.091	ppb	0.7630	0.7	1226.94
Ti 334.941	977.253	ppb	2.2900	0.2	293071
Tl 190.794	8.9916	ppb	1.1219	12.5	-2.2824
V 292.401	373.932	ppb	0.6047	0.2	11257.8
Zn 206.200	273.223	ppb	1.6417	0.6	273.610

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680-88401-b-27-c (Samp) 3/21/2013, 12:45:33 PM Rack 1, Tube 24

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2360	-0.8876u	-1.5615u
Al 308.215	78176.6	78515.1	78042.7
As 188.980	31.8916	29.9120	25.8326
B 249.678	-12.5601u	-12.9867u	-12.3637u
Ba 389.178	58.8634	59.0957	58.3352
Be 313.042	2.1006	2.0873	2.0840
Ca 370.602	3670u	3676u	3655u
Cd 226.502	-1.9604	-2.4008	-2.3371
Co 228.615	4.7286	5.7518	5.6824
Cr 267.716	260.133	261.462	260.572
Cu 324.754	49.2512	48.7722	49.2578
Fe 271.441	191819	192688	191227
K 766.491	1425.46	1422.84	1411.73
Mg 279.078	857.170	861.282	856.583
Mn 257.610	183.619	184.389	183.592
Mo 202.032	2.0561	2.3592	2.7463
Na 330.237	9.3435u	143.785u	211.175u
Ni 231.604	17.2166	16.6935	16.0667
Pb 220.353	52.3316	54.9455	48.1201
Sb 206.834	-0.6812	0.0581	2.8270
Se 196.026	3.1890	-2.6673u	2.4492u
Sn 189.925	7.8668	4.2822	2.7896
Sr 216.596	26.1609	24.8114	25.2660
Ti 334.941	976.356	979.348	977.570
Tl 190.794	6.8582u	2.3982u	-0.9173u
V 292.401	408.236	409.365	407.102
Zn 206.200	64.4166	65.8373	61.9896

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7377	ppb	0.9081	123.1	-105.236
Al 308.215	78244.8	ppb	243.484	0.3	457344
As 188.980	29.2121	ppb	3.0896	10.6	14.0218
B 249.678	-12.6369	ppb	0.3185	2.5	-256.568
Ba 389.178	58.7648	ppb	0.3897	0.7	1841.87
Be 313.042	2.0906	ppb	0.0088	0.4	4054.64
Ca 370.602	3667	ppb	10.89	0.3	-4385
Cd 226.502	-2.2327	ppb	0.2380	10.7	415.539
Co 228.615	5.3876	ppb	0.5718	10.6	103.893
Cr 267.716	260.722	ppb	0.6768	0.3	11964.3
Cu 324.754	49.0938	ppb	0.2785	0.6	2795.66
Fe 271.441	191911	ppb	735.210	0.4	335407
K 766.491	1420.01	ppb	7.2895	0.5	87132.1
Mg 279.078	858.345	ppb	2.5603	0.3	1914.39
Mn 257.610	183.867	ppb	0.4529	0.2	44044.4
Mo 202.032	2.3872	ppb	0.3459	14.5	16.7019
Na 330.237	121.434	ppb	102.755	84.6	-67.9652
Ni 231.604	16.6590	ppb	0.5757	3.5	46.9440
Pb 220.353	51.7991	ppb	3.4437	6.6	87.2280
Sb 206.834	0.7347	ppb	1.8494	251.7	4.5359
Se 196.026	0.9903	ppb	3.1891	322.0	-0.1257
Sn 189.925	4.9795	ppb	2.6094	52.4	4.1515
Sr 216.596	25.4128	ppb	0.6866	2.7	359.733
Ti 334.941	977.758	ppb	1.5049	0.2	293216
Tl 190.794	2.7797	ppb	3.9018	140.4	-6.0636
V 292.401	408.234	ppb	1.1313	0.3	12285.3
Zn 206.200	64.0812	ppb	1.9457	3.0	88.5218

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

Cont Calib Verif (CCV) 3/21/2013, 12:50:57 PM Rack 1, Tube 25
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	515.013	512.583	514.960
Al 308.215	5046.04	5092.43	5067.88
As 188.980	477.327	481.681	477.721
B 249.678	2493.06	2531.99	2537.90
Ba 389.178	5017.77	5059.88	5035.71
Be 313.042	503.985	507.461	505.695
Ca 370.602	5112	5166	5144
Cd 226.502	503.607	508.386	506.915
Co 228.615	500.964	503.804	502.345
Cr 267.716	5152.27	5189.49	5173.12
Cu 324.754	4937.63	5016.47	4949.79
Fe 271.441	5087.49	5127.94	5091.89
K 766.491	9935.58	10056.9	9973.91
Mg 279.078	5005.06	5029.55	5013.52
Mn 257.610	5017.05	5050.38	5043.92
Mo 202.032	505.761	511.160	510.841
Na 330.237	7395.99	7305.75	7386.71
Ni 231.604	2520.92	2547.49	2546.26
Pb 220.353	516.415	525.729	520.185
Sb 206.834	993.236	996.977	1006.33
Se 196.026	4913.17	4988.93	4928.85
Sn 189.925	5176.47	5202.00	5176.52
Sr 216.596	2568.44	2586.07	2579.74
Ti 334.941	500.757	503.764	502.050
Tl 190.794	5208.12	5242.53	5235.50
V 292.401	5006.49	5041.39	5016.92
Zn 206.200	2508.51	2535.97	2534.75

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	514.185	ppb	1.3880	0.3	36579.1	102.83707
Al 308.215	5068.78	ppb	23.2062	0.5	29853.5	101.37567
As 188.980	478.910	ppb	2.4082	0.5	296.299	95.78197
B 249.678	2520.98	ppb	24.3608	1.0	23900.4	100.83936
Ba 389.178	5037.79	ppb	21.1285	0.4	133122	100.75571
Be 313.042	505.713	ppb	1.7379	0.3	1048281	101.14269
Ca 370.602	5141	ppb	27.06	0.5	18718	102.81568
Cd 226.502	506.302	ppb	2.4477	0.5	20000.4	101.26048
Co 228.615	502.371	ppb	1.4199	0.3	6433.06	100.47417
Cr 267.716	5171.63	ppb	18.6575	0.4	236303	103.43257
Cu 324.754	4967.96	ppb	42.4427	0.9	260642	99.35928
Fe 271.441	5102.44	ppb	22.1944	0.4	9052.81	102.04876
K 766.491	9988.79	ppb	61.9999	0.6	611072	99.88785
Mg 279.078	5016.04	ppb	12.4408	0.2	10908.5	100.32084
Mn 257.610	5037.12	ppb	17.6779	0.4	1189949	100.74232
Mo 202.032	509.254	ppb	3.0295	0.6	3735.86	101.85078
Na 330.237	7362.82	ppb	49.6387	0.7	363.767	98.17089
Ni 231.604	2538.22	ppb	14.9932	0.6	6742.54	101.52885
Pb 220.353	520.776	ppb	4.6849	0.9	890.453	104.15520
Sb 206.834	998.848	ppb	6.7443	0.7	1054.00	99.88476
Se 196.026	4943.65	ppb	39.9921	0.8	2317.59	98.87301
Sn 189.925	5185.00	ppb	14.7285	0.3	4813.14	103.69996
Sr 216.596	2578.08	ppb	8.9312	0.3	27816.1	103.12334
Ti 334.941	502.190	ppb	1.5085	0.3	150549	100.43806
Tl 190.794	5228.72	ppb	18.1818	0.3	3949.62	104.57435
V 292.401	5021.60	ppb	17.9144	0.4	150663	100.43195
Zn 206.200	2526.41	ppb	15.5159	0.6	3430.34	101.05632

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Cont Calib Blank (CCB) 3/21/2013, 12:56:21 PM Rack 1, Tube 26
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0671u	-1.1514u	0.7952
Al 308.215	-1.3087u	-0.7533u	-3.6558u
As 188.980	2.9978	5.1428	-4.1641u
B 249.678	25.6056	21.1896	19.0250
Ba 389.178	0.4885	1.5164	0.3929
Be 313.042	0.0545	0.0501	0.0494
Ca 370.602	1.852	1.741	5.005
Cd 226.502	-0.0167u	-0.1314u	0.2629
Co 228.615	-0.3927u	0.1751	0.3844
Cr 267.716	0.6100	0.5553	0.3162
Cu 324.754	0.3490	0.1499	-0.1072u
Fe 271.441	5.9037	5.6377	0.2016
K 766.491	-0.6582u	-0.7263u	-1.2365u
Mg 279.078	-3.1494u	-4.0096u	2.0552
Mn 257.610	0.5694	0.5325	0.4774
Mo 202.032	1.0530	0.1829	0.4589
Na 330.237	-166.566u	39.2341	-79.8937u
Ni 231.604	1.2875	-0.0762u	0.8930
Pb 220.353	1.4410	1.3469	2.0290
Sb 206.834	7.3669	3.0174	7.2516
Se 196.026	-6.3945u	7.7795	-0.1108u
Sn 189.925	2.5538	0.2400	1.7466
Sr 216.596	1.1287	0.3229	0.8038
Ti 334.941	0.2833	0.2547	0.3269
Tl 190.794	6.3660	6.1688	2.3501
V 292.401	0.4064	0.6455	0.7775
Zn 206.200	2.1545	-0.2693u	-1.9383u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1411	ppb	0.9754	691.3	-64.3889	-0.14109
Al 308.215	-1.9059	ppb	1.5407	80.8	254.953	-1.90595
As 188.980	1.3255	ppb	4.8736	367.7	-1.4305	1.32551
B 249.678	21.9401	ppb	3.3539	15.3	252.273	21.94005
Ba 389.178	0.7993	ppb	0.6229	77.9	-4.5040	0.79925
Be 313.042	0.0514	ppb	0.0028	5.4	-164.441	0.05136
Ca 370.602	2.866	ppb	1.853	64.7	7.423	2.86608
Cd 226.502	0.0383	ppb	0.2028	530.1	10.4561	0.03826
Co 228.615	0.0556	ppb	0.4021	723.8	14.9593	0.05555
Cr 267.716	0.4938	ppb	0.1562	31.6	30.0951	0.49383
Cu 324.754	0.1305	ppb	0.2287	175.2	172.601	0.13055
Fe 271.441	3.9143	ppb	3.2181	82.2	13.6961	3.91433
K 766.491	-0.8737	ppb	0.3161	36.2	251.963	-0.87370
Mg 279.078	-1.7013	ppb	3.2815	192.9	26.0952	-1.70126
Mn 257.610	0.5265	ppb	0.0463	8.8	194.075	0.52645
Mo 202.032	0.5650	ppb	0.4446	78.7	13.8665	0.56496
Na 330.237	-69.0751	ppb	103.326	149.6	-9.8525	-69.07509
Ni 231.604	0.7014	ppb	0.7017	100.0	0.4790	0.70143
Pb 220.353	1.6056	ppb	0.3697	23.0	3.4281	1.60565
Sb 206.834	5.8786	ppb	2.4786	42.2	2.8551	5.87865
Se 196.026	0.4247	ppb	7.1022	1672.1	0.8117	0.42474
Sn 189.925	1.5135	ppb	1.1744	77.6	0.9367	1.51347
Sr 216.596	0.7518	ppb	0.4054	53.9	13.9435	0.75179
Ti 334.941	0.2883	ppb	0.0364	12.6	-34.9760	0.28832
Tl 190.794	4.9617	ppb	2.2638	45.6	3.1055	4.96166
V 292.401	0.6098	ppb	0.1881	30.8	21.8773	0.60983
Zn 206.200	-0.0177	ppb	2.0580	11598.5	430.8678	-0.01774

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88401-b-28-c (Samp) 3/21/2013, 1:01:45 PM Rack 1, Tube 27
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.3967u	-1.1548u	-0.2355u
Al 308.215	105020	104941	104872
As 188.980	7.3345	12.6529	2.9131u
B 249.678	-28.0111u	-29.7869u	-26.9503u
Ba 389.178	143.312	142.595	142.122
Be 313.042	3.1369	3.1283	3.1373
Ca 370.602	5026u	5044u	5128u
Cd 226.502	-4.2860	-4.4397	-4.3235
Co 228.615	7.3953	6.6323	6.9744
Cr 267.716	438.290	437.760	435.759
Cu 324.754	101.736	100.737	101.181
Fe 271.441	400794	400236	400796
K 766.491	2202.66	2203.55	2205.93
Mg 279.078	1457.45	1451.40	1450.93
Mn 257.610	333.887	333.745	333.244
Mo 202.032	2.3955u	2.3486u	2.9147u
Na 330.237	44.2053u	-48.8491u	173.826u
Ni 231.604	16.3584	11.9699	14.2564
Pb 220.353	133.037	135.363	129.476
Sb 206.834	5.9365	-2.7047	-1.1290
Se 196.026	4.3460u	-2.3900u	-10.3048u
Sn 189.925	1.1580	6.1130	7.3500
Sr 216.596	39.1732	39.9656	38.8301
Ti 334.941	1508.04	1507.71	1500.69
Tl 190.794	2.3085u	12.3835u	4.9820u
V 292.401	755.441	756.768	755.976
Zn 206.200	133.976	134.187	135.534

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9290	ppb	0.6127	65.9	-117.496
Al 308.215	104945	ppb	74.1825	0.1	613310
As 188.980	7.6335	ppb	4.8768	63.9	-1.5833
B 249.678	-28.2494	ppb	1.4332	5.1	-602.968
Ba 389.178	142.676	ppb	0.5991	0.4	4402.07
Be 313.042	3.1342	ppb	0.0051	0.2	6204.48
Ca 370.602	5066	ppb	54.65	1.1	-18893
Cd 226.502	-4.3497	ppb	0.0801	1.8	873.153
Co 228.615	7.0007	ppb	0.3822	5.5	131.522
Cr 267.716	437.270	ppb	1.3349	0.3	20077.8
Cu 324.754	101.218	ppb	0.5003	0.5	5590.68
Fe 271.441	400609	ppb	322.939	0.1	700142
K 766.491	2204.04	ppb	1.6889	0.1	135072
Mg 279.078	1453.26	ppb	3.6335	0.3	3243.29
Mn 257.610	333.625	ppb	0.3379	0.1	80011.5
Mo 202.032	2.5530	ppb	0.3142	12.3	6.5847
Na 330.237	56.3944	ppb	111.837	198.3	-141.845
Ni 231.604	14.1949	ppb	2.1949	15.5	44.8240
Pb 220.353	132.626	ppb	2.9647	2.2	224.594
Sb 206.834	0.7009	ppb	4.6020	656.6	10.9946
Se 196.026	-2.7829	ppb	7.3333	263.5	-3.2203
Sn 189.925	4.8737	ppb	3.2768	67.2	4.0485
Sr 216.596	39.3229	ppb	0.5824	1.5	596.852
Ti 334.941	1505.48	ppb	4.1497	0.3	451551
Tl 190.794	6.5580	ppb	5.2191	79.6	-11.4141
V 292.401	756.062	ppb	0.6677	0.1	22748.2
Zn 206.200	134.566	ppb	0.8451	0.6	184.095

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88348-a-33-c (Samp) 3/21/2013, 1:07:09 PM Rack 1, Tube 28
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	2.9033	2.6472	3.5023
Al 308.215	70404.4	70366.4	70383.4
As 188.980	99.8405	102.725	95.3337
B 249.678	-21.7530u	-23.3357u	-22.9846u
Ba 389.178	2497.15	2486.44	2491.76
Be 313.042	7.5946	7.5781	7.5742
Ca 370.602	49650	49684	49600
Cd 226.502	13.9313	13.4032	14.1220
Co 228.615	71.9595	72.4504	73.6493
Cr 267.716	334.168	332.950	333.602
Cu 324.754	46651.1x	46308.1x	47047.0x
Fe 271.441	333859	332849	332887
K 766.491	8437.93	8428.34	8444.09
Mg 279.078	8081.39	8077.42	8076.03
Mn 257.610	5567.29	5563.71	5557.83
Mo 202.032	7.7017	8.2367	7.6551
Na 330.237	118.667u	131.965u	136.756u
Ni 231.604	128.301	131.175	130.786
Pb 220.353	3593.89	3615.71	3597.17
Sb 206.834	9.2763	-1.2669	5.1529
Se 196.026	2.1178	0.3132u	-1.8631u
Sn 189.925	7.4346	5.9212	7.0313
Sr 216.596	172.378	170.996	171.349
Ti 334.941	436.488	436.020	435.031
Tl 190.794	25.2560	32.2861	27.7644
V 292.401	231.255	230.947	230.312
Zn 206.200	7374.59	7344.05	7376.44

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	3.0176b	ppb	0.4389	14.5	178.517
Al 308.215	70384.7b	ppb	19.0391	0.0	411431
As 188.980	99.2997b	ppb	3.7252	3.8	56.6449
B 249.678	-22.6911b	ppb	0.8312	3.7	-486.753
Ba 389.178	2491.78b	ppb	5.3541	0.2	66380.0
Be 313.042	7.5823b	ppb	0.0108	0.1	15466.5
Ca 370.602	49645b	ppb	42.59	0.1	151149
Cd 226.502	13.8188b	ppb	0.3723	2.7	1416.96
Co 228.615	72.6864b	ppb	0.8692	1.2	942.022
Cr 267.716	333.574b	ppb	0.6095	0.2	15347.9
Cu 324.754	46668.8xb	ppb	369.788	0.8	2447506
Fe 271.441	333198b	ppb	572.071	0.2	582338
K 766.491	8436.79b	ppb	7.9398	0.1	516175
Mg 279.078	8078.28b	ppb	2.7805	0.0	17634.0
Mn 257.610	5562.94b	ppb	4.7776	0.1	1315096
Mo 202.032	7.8645b	ppb	0.3231	4.1	49.9698
Na 330.237	129.129b	ppb	9.3715	7.3	-164.598
Ni 231.604	130.087b	ppb	1.5591	1.2	351.319
Pb 220.353	3602.26b	ppb	11.7633	0.3	6155.71
Sb 206.834	4.3874b	ppb	5.3131	121.1	12.1663
Se 196.026	0.1893b	ppb	1.9933	1053.0	-0.1688
Sn 189.925	6.7957b	ppb	0.7837	11.5	5.8543
Sr 216.596	171.574b	ppb	0.7181	0.4	2001.01
Ti 334.941	435.846b	ppb	0.7437	0.2	130707
Tl 190.794	28.4355b	ppb	3.5628	12.5	1.7829
V 292.401	230.838b	ppb	0.4808	0.2	6933.38
Zn 206.200	7365.03b	ppb	18.1872	0.2	41033.8

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

680-88348-a-34-c (Samp) 3/21/2013, 1:12:33 PM Rack 1, Tube 29

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5743	0.5596	1.0817
Al 308.215	93230.3	92812.0	92817.2
As 188.980	362.193	359.828	360.956
B 249.678	42.0303	40.5297	41.1122
Ba 389.178	2204.96	2207.67	2205.44
Be 313.042	16.1523	16.1267	16.1245
Ca 370.602	217784	217323	218568
Cd 226.502	10.5798	10.6192	10.4036
Co 228.615	97.2994	96.1941	95.0962
Cr 267.716	268.324	268.803	267.769
Cu 324.754	371.595	371.813	372.948
Fe 271.441	368415	367936	367579
K 766.491	14264.5	14298.7	14285.4
Mg 279.078	54089.3	54146.0	54021.7
Mn 257.610	21083.8	21872.0	21566.9
Mo 202.032	16.8854	16.3127	16.9633
Na 330.237	5375.15	5610.82	5344.13
Ni 231.604	105.371	104.183	106.409
Pb 220.353	3110.68	3102.75	3093.12
Sb 206.834	8.8642	3.0546	-1.1509
Se 196.026	18.3574	19.0216	1.5466
Sn 189.925	85.6427	91.5513	93.9259
Sr 216.596	527.596	529.308	528.061
Ti 334.941	1533.95	1534.34	1533.52
Tl 190.794	88.5065	96.0862	82.3089
V 292.401	321.495	321.884	322.131
Zn 206.200	5076.92	5097.86	5084.51

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.7385	ppb	0.2973	40.3	70.3399
Al 308.215	92953.2	ppb	240.011	0.3	543270
As 188.980	360.992	ppb	1.1827	0.3	220.889
B 249.678	41.2241	ppb	0.7565	1.8	85.6206
Ba 389.178	2206.02	ppb	1.4446	0.1	59023.6
Be 313.042	16.1345	ppb	0.0155	0.1	33247.7
Ca 370.602	217891	ppb	629.8	0.3	766744
Cd 226.502	10.5342	ppb	0.1148	1.1	1376.69
Co 228.615	96.1966	ppb	1.1016	1.1	1270.50
Cr 267.716	268.299	ppb	0.5171	0.2	12439.8
Cu 324.754	372.119	ppb	0.7265	0.2	19791.1
Fe 271.441	367977	ppb	419.469	0.1	643123
K 766.491	14282.9	ppb	17.2806	0.1	873635
Mg 279.078	54085.7	ppb	62.2451	0.1	117921
Mn 257.610	21507.5	ppb	397.445	1.8	5081772
Mo 202.032	16.7205	ppb	0.3553	2.1	113.012
Na 330.237	5443.37	ppb	145.847	2.7	118.778
Ni 231.604	105.321	ppb	1.1138	1.1	286.248
Pb 220.353	3102.18	ppb	8.7958	0.3	5303.71
Sb 206.834	3.5893	ppb	5.0289	140.1	11.5153
Se 196.026	12.9752	ppb	9.9030	76.3	9.3265
Sn 189.925	90.3733	ppb	4.2654	4.7	83.5225
Sr 216.596	528.322	ppb	0.8856	0.2	5888.26
Ti 334.941	1533.94	ppb	0.4066	0.0	460338
Tl 190.794	88.9672	ppb	6.9002	7.8	28.6095
V 292.401	321.837	ppb	0.3207	0.1	9692.18
Zn 206.200	5086.43	ppb	10.6044	0.2	6930.02

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88348-a-35-e (Samp) 3/21/2013, 1:17:58 PM Rack 1, Tube 30

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.6999	1.5004	1.7920
Al 308.215	107257	107053	106826
As 188.980	248.321	256.264	245.296
B 249.678	29.5300u	31.2041	31.4782
Ba 389.178	3681.42	3670.47	3678.68
Be 313.042	14.4158	14.3982	14.3925
Ca 370.602	129735	127830	129380
Cd 226.502	28.1593	28.4928	28.5995
Co 228.615	106.433	106.862	107.311
Cr 267.716	436.419	434.899	435.045
Cu 324.754	996.847	985.862	1002.72
Fe 271.441	310376	310270	310337
K 766.491	11970.9	11992.3	12044.7
Mg 279.078	20226.1	20185.1	20157.5
Mn 257.610	18117.7	18101.5	18081.3
Mo 202.032	15.8593	16.6574	16.1476
Na 330.237	1103.54u	841.417u	939.967u
Ni 231.604	164.577	165.093	165.776
Pb 220.353	3912.37	3914.62	3924.73
Sb 206.834	4.1599	2.1767	13.1724
Se 196.026	4.6067	-9.9666u	8.4378
Sn 189.925	112.531	114.700	110.841
Sr 216.596	745.355	741.886	741.579
Ti 334.941	1517.28	1515.13	1515.63
Tl 190.794	72.3910	67.1957	70.7711
V 292.401	373.398	373.686	373.827
Zn 206.200	10320.7	10315.5	10310.3

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.6641	ppb	0.1491	9.0	114.190
Al 308.215	107045	ppb	215.715	0.2	625590
As 188.980	249.960	ppb	5.6647	2.3	151.505
B 249.678	30.7374	ppb	1.0546	3.4	41.0153
Ba 389.178	3676.86	ppb	5.6998	0.2	97690.9
Be 313.042	14.4022	ppb	0.0121	0.1	29626.0
Ca 370.602	128982	ppb	1013	0.8	445437
Cd 226.502	28.4172	ppb	0.2297	0.8	1933.03
Co 228.615	106.869	ppb	0.4393	0.4	1408.97
Cr 267.716	435.454	ppb	0.8385	0.2	20050.4
Cu 324.754	995.143	ppb	8.5577	0.9	52442.9
Fe 271.441	310328	ppb	53.3440	0.0	542374
K 766.491	12002.6	ppb	37.9948	0.3	734209
Mg 279.078	20189.6	ppb	34.4806	0.2	43880.1
Mn 257.610	18100.2	ppb	18.2552	0.1	4276565
Mo 202.032	16.2214	ppb	0.4041	2.5	112.189
Na 330.237	961.641	ppb	132.399	13.8	-143.956
Ni 231.604	165.149	ppb	0.6012	0.4	443.999
Pb 220.353	3917.24	ppb	6.5827	0.2	6695.44
Sb 206.834	6.5030	ppb	5.8604	90.1	14.7099
Se 196.026	1.0260	ppb	9.7106	946.5	3.3071
Sn 189.925	112.691	ppb	1.9343	1.7	104.201
Sr 216.596	742.940	ppb	2.0970	0.3	8174.74
Ti 334.941	1516.01	ppb	1.1241	0.1	454790
Tl 190.794	70.1193	ppb	2.6583	3.8	20.3990
V 292.401	373.637	ppb	0.2190	0.1	11239.3
Zn 206.200	10315.5	ppb	5.2971	0.1	14052.7

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88420-a-32-c (Samp) 3/21/2013, 1:23:33 PM Rack 1, Tube 31
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	10.0240	9.4541	10.2359
Al 308.215	135506	135380	135259
As 188.980	335.197	326.094	335.301
B 249.678	-21.5968u	-19.4729u	-20.7701u
Ba 389.178	2960.09	2957.57	2957.09
Be 313.042	20.9253	20.9071	20.9168
Ca 370.602	97997	97960	97887
Cd 226.502	47.9434	47.4825	47.7499
Co 228.615	155.426	157.176	157.177
Cr 267.716	463.660	463.109	463.689
Cu 324.754	1754.93	1780.06	1755.67
Fe 271.441	568544	568524	568298
K 766.491	12602.3	12597.7	12614.6
Mg 279.078	31218.9	31083.0	31118.8
Mn 257.610	26554.5	26526.3	26540.4
Mo 202.032	18.1540	18.4475	18.2928
Na 330.237	1005.32u	856.094u	1020.44u
Ni 231.604	200.923	202.114	203.777
Pb 220.353	6000.25	5978.72	5980.25
Sb 206.834	-2.0108	9.6124	-2.8970
Se 196.026	17.0522	13.2123	-10.3044u
Sn 189.925	705.262	716.835	709.704
Sr 216.596	475.346	475.487	474.019
Ti 334.941	1624.35	1622.22	1622.50
Tl 190.794	143.216	130.562	142.636
V 292.401	514.745	514.059	514.552
Zn 206.200	12831.7	12795.8	12779.9

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.9047	ppb	0.4043	4.1	749.324
Al 308.215	135382	ppb	123.287	0.1	791123
As 188.980	332.197	ppb	5.2857	1.6	199.888
B 249.678	-20.6132	ppb	1.0706	5.2	-689.156
Ba 389.178	2958.25	ppb	1.6105	0.1	79155.3
Be 313.042	20.9164	ppb	0.0091	0.0	43114.1
Ca 370.602	97948	ppb	56.08	0.1	307432
Cd 226.502	47.7253	ppb	0.2314	0.5	3360.23
Co 228.615	156.593	ppb	1.0108	0.6	2036.35
Cr 267.716	463.486	ppb	0.3268	0.1	21423.1
Cu 324.754	1763.56	ppb	14.2963	0.8	92816.2
Fe 271.441	568455	ppb	136.630	0.0	993502
K 766.491	12604.8	ppb	8.7313	0.1	771032
Mg 279.078	31140.2	ppb	70.4741	0.2	67713.0
Mn 257.610	26540.4	ppb	14.1123	0.1	6271049
Mo 202.032	18.2981	ppb	0.1468	0.8	114.039
Na 330.237	960.617	ppb	90.8351	9.5	-245.008
Ni 231.604	202.271	ppb	1.4338	0.7	548.072
Pb 220.353	5986.41	ppb	12.0136	0.2	10232.4
Sb 206.834	1.5682	ppb	6.9805	445.1	16.1043
Se 196.026	6.6533	ppb	14.8108	222.6	6.2430
Sn 189.925	710.600	ppb	5.8383	0.8	659.262
Sr 216.596	474.951	ppb	0.8099	0.2	5380.44
Ti 334.941	1623.02	ppb	1.1601	0.1	486977
Tl 190.794	138.805	ppb	7.1438	5.1	53.0228
V 292.401	514.452	ppb	0.3539	0.1	15475.7
Zn 206.200	12802.5	ppb	26.5584	0.2	17440.4

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

680-88420-a-33-c (Samp) 3/21/2013, 1:28:59 PM Rack 1, Tube 32

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.2012	0.9308	1.9539
Al 308.215	93248.4	92631.3	92852.2
As 188.980	159.827	174.904	171.702
B 249.678	-2.2676u	-2.4291u	-2.0799u
Ba 389.178	2772.99	2768.94	2772.44
Be 313.042	10.7891	10.7897	10.7844
Ca 370.602	97063	97028	97067
Cd 226.502	29.6246	29.2410	29.2637
Co 228.615	105.282	106.400	105.118
Cr 267.716	510.898	509.638	510.272
Cu 324.754	981.566	979.859	976.959
Fe 271.441	323376	325733	326314
K 766.491	8873.36	8847.58	8878.27
Mg 279.078	18805.2	18785.5	18788.1
Mn 257.610	16479.7	16489.3	16476.2
Mo 202.032	12.4182	13.1801	12.0263
Na 330.237	524.233u	688.549u	670.748u
Ni 231.604	144.552	145.028	143.644
Pb 220.353	3049.13	3020.21	3032.35
Sb 206.834	-2.5826	-0.7587	3.9352
Se 196.026	-1.1085	5.3016	15.0022
Sn 189.925	68.3853	70.8245	68.6297
Sr 216.596	493.040	491.285	491.964
Ti 334.941	1082.36	1082.00	1083.64
Tl 190.794	66.3749	65.3750	64.5133
V 292.401	369.402	369.891	368.740
Zn 206.200	9544.29	9540.06	9535.71

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.3620	ppb	0.5302	38.9	95.5143
Al 308.215	92910.6	ppb	312.655	0.3	543019
As 188.980	168.811	ppb	7.9435	4.7	100.485
B 249.678	-2.2589	ppb	0.1747	7.7	-284.800
Ba 389.178	2771.46	ppb	2.1952	0.1	73787.2
Be 313.042	10.7877	ppb	0.0029	0.0	22118.3
Ca 370.602	97053	ppb	21.77	0.0	326653
Cd 226.502	29.3764	ppb	0.2152	0.7	2007.65
Co 228.615	105.600	ppb	0.6978	0.7	1380.73
Cr 267.716	510.269	ppb	0.6301	0.1	23464.9
Cu 324.754	979.461	ppb	2.3288	0.2	51625.0
Fe 271.441	325141	ppb	1555.89	0.5	568263
K 766.491	8866.41	ppb	16.4840	0.2	542444
Mg 279.078	18793.0	ppb	10.7080	0.1	40861.7
Mn 257.610	16481.7	ppb	6.7586	0.0	3894297
Mo 202.032	12.5416	ppb	0.5867	4.7	84.4765
Na 330.237	627.843	ppb	90.1695	14.4	-156.915
Ni 231.604	144.408	ppb	0.7032	0.5	389.187
Pb 220.353	3033.90	ppb	14.5208	0.5	5186.15
Sb 206.834	0.1980	ppb	3.3626	1698.5	9.3901
Se 196.026	6.3984	ppb	8.1112	126.8	5.3526
Sn 189.925	69.2799	ppb	1.3433	1.9	63.8845
Sr 216.596	492.096	ppb	0.8853	0.2	5466.37
Ti 334.941	1082.67	ppb	0.8653	0.1	324790
Tl 190.794	65.4211	ppb	0.9317	1.4	18.0808
V 292.401	369.344	ppb	0.5775	0.2	11099.0
Zn 206.200	9540.02	ppb	4.2902	0.0	43096.1

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88420-a-34-c (Samp) 3/21/2013, 1:34:24 PM Rack 1, Tube 33

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.9920	1.5527	2.0352
Al 308.215	81073.3	81160.9	81227.5
As 188.980	251.155	253.220	254.122
B 249.678	95.6832	98.2797	97.2833
Ba 389.178	4376.12	4378.14	4387.50
Be 313.042	12.5706	12.5726	12.5981
Ca 370.602	377190	376883	378284
Cd 226.502	15.7608	15.9195	15.9301
Co 228.615	90.7218	90.8220	91.1223
Cr 267.716	368.292	368.758	369.169
Cu 324.754	800.446	797.378	794.204
Fe 271.441	293220	293419	293220
K 766.491	10655.3	10658.4	10689.8
Mg 279.078	15591.5	15605.1	15630.0
Mn 257.610	7619.18	7604.12	7602.00
Mo 202.032	22.4151	22.3058	21.8929
Na 330.237	1609.41u	1966.05u	2134.22u
Ni 231.604	157.805	155.631	158.594
Pb 220.353	3155.88	3166.65	3176.33
Sb 206.834	6.4783	0.9646	6.0709
Se 196.026	-3.0782u	3.3728	-0.0120u
Sn 189.925	54.5887	55.0516	56.2653
Sr 216.596	1359.13	1363.47	1360.79
Ti 334.941	1488.29	1492.66	1494.83
Tl 190.794	30.7149	30.8382	32.9107
V 292.401	361.137	361.744	360.378
Zn 206.200	7511.57	7505.40	7520.70

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.8600	ppb	0.2670	14.4	56.9627
Al 308.215	81153.9	ppb	77.3169	0.1	474341
As 188.980	252.832	ppb	1.5213	0.6	155.516
B 249.678	97.0821	ppb	1.3099	1.3	685.443
Ba 389.178	4380.58	ppb	6.0702	0.1	116243
Be 313.042	12.5804	ppb	0.0153	0.1	25939.2
Ca 370.602	377452	ppb	736.1	0.2	1359550
Cd 226.502	15.8701	ppb	0.0949	0.6	1392.93
Co 228.615	90.8887	ppb	0.2084	0.2	1204.75
Cr 267.716	368.740	ppb	0.4389	0.1	16954.8
Cu 324.754	797.342	ppb	3.1211	0.4	42065.5
Fe 271.441	293287	ppb	114.821	0.0	512590
K 766.491	10667.8	ppb	19.1112	0.2	652592
Mg 279.078	15608.9	ppb	19.5108	0.1	34047.6
Mn 257.610	7608.43	ppb	9.3678	0.1	1798198
Mo 202.032	22.2046	ppb	0.2754	1.2	156.992
Na 330.237	1903.23	ppb	267.989	14.1	-66.0381
Ni 231.604	157.343	ppb	1.5346	1.0	422.882
Pb 220.353	3166.28	ppb	10.2317	0.3	5410.40
Sb 206.834	4.5046	ppb	3.0725	68.2	11.5590
Se 196.026	0.0942	ppb	3.2268	3425.3	0.5295
Sn 189.925	55.3019	ppb	0.8658	1.6	51.0358
Sr 216.596	1361.13	ppb	2.1888	0.2	14874.5
Ti 334.941	1491.93	ppb	3.3293	0.2	447539
Tl 190.794	31.4880	ppb	1.2337	3.9	3.4653
V 292.401	361.086	ppb	0.6843	0.2	10864.4
Zn 206.200	7512.56	ppb	7.6994	0.1	41234.7

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

mb 680-269947/1-a (Samp) 3/21/2013, 1:39:50 PM Rack 1, Tube 34

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2167	-0.6866u	0.1359
Al 308.215	12.6336	10.2946	12.4819
As 188.980	2.6146	0.2933	2.0935
B 249.678	2.2713	1.6496	2.5487
Ba 389.178	-0.6486u	-0.3563u	0.0058
Be 313.042	-0.0195u	-0.0140u	-0.0125u
Ca 370.602	75.09	67.21	54.80
Cd 226.502	0.1317	0.1842	0.1071
Co 228.615	-0.1645u	0.6387	0.2380
Cr 267.716	0.4129	0.5902	0.4365
Cu 324.754	-0.4359u	-0.0949u	-0.1454u
Fe 271.441	54.9120	43.8053	40.3989
K 766.491	11.3456	12.4303	11.8738
Mg 279.078	3.8650	3.1860	4.0409
Mn 257.610	4.8276	4.6553	4.4873
Mo 202.032	0.0812	0.3583	0.2834
Na 330.237	242.935	134.913	296.667
Ni 231.604	0.5187	1.9777	1.2292
Pb 220.353	1.4440	1.3975	0.1341
Sb 206.834	-0.6179u	3.7214	2.9541
Se 196.026	-0.7220u	-4.4778u	-3.0501u
Sn 189.925	15.8859	17.1409	15.4714
Sr 216.596	0.3872	0.4883	0.3530
Ti 334.941	1.1359	1.1294	0.8542
Tl 190.794	-2.3003u	-1.5494u	0.9825
V 292.401	-0.2413u	-0.0042u	-0.0168u
Zn 206.200	9.2299	8.4287	8.8906

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1113	ppb	0.4998	449.0	-62.2396
Al 308.215	11.8034	ppb	1.3088	11.1	334.995
As 188.980	1.6671	ppb	1.2180	73.1	-1.2171
B 249.678	2.1565	ppb	0.4604	21.4	64.9868
Ba 389.178	-0.3330	ppb	0.3278	98.4	-34.3447
Be 313.042	-0.0154	ppb	0.0037	24.0	-302.735
Ca 370.602	65.70	ppb	10.23	15.6	234.7
Cd 226.502	0.1410	ppb	0.0394	27.9	14.6133
Co 228.615	0.2374	ppb	0.4016	169.2	17.3036
Cr 267.716	0.4799	ppb	0.0963	20.1	29.4940
Cu 324.754	-0.2254	ppb	0.1840	81.6	153.941
Fe 271.441	46.3721	ppb	7.5894	16.4	87.9013
K 766.491	11.8832	ppb	0.5424	4.6	1031.99
Mg 279.078	3.6973	ppb	0.4514	12.2	37.8286
Mn 257.610	4.6567	ppb	0.1702	3.7	1169.85
Mo 202.032	0.2410	ppb	0.1433	59.5	11.4887
Na 330.237	224.838	ppb	82.3813	36.6	5.8287
Ni 231.604	1.2419	ppb	0.7296	58.8	1.9158
Pb 220.353	0.9919	ppb	0.7432	74.9	2.3801
Sb 206.834	2.0192	ppb	2.3158	114.7	-1.0415
Se 196.026	-2.7499	ppb	1.8958	68.9	-0.6748
Sn 189.925	16.1661	ppb	0.8693	5.4	14.5399
Sr 216.596	0.4095	ppb	0.0703	17.2	10.2740
Ti 334.941	1.0398	ppb	0.1608	15.5	190.463
Tl 190.794	-0.9557	ppb	1.7200	180.0	-1.3756
V 292.401	-0.0874	ppb	0.1334	152.6	1.0051
Zn 206.200	8.8497	ppb	0.4922	4.5	13.9475

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

ics 680-269947/2-a (Samp) 3/21/2013, 1:45:16 PM Rack 1, Tube 35
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	37.1814	38.4434	37.3582
Al 308.215	5065.39	5032.62	5031.22
As 188.980	110.461	104.009	107.034
B 249.678	201.880	201.711	202.468
Ba 389.178	104.224	104.468	105.765
Be 313.042	53.4480	53.0528	53.1607
Ca 370.602	5204	5167	5176
Cd 226.502	53.9212	53.6999	53.8724
Co 228.615	53.0748	52.2456	52.5095
Cr 267.716	109.119	108.613	109.057
Cu 324.754	104.878	104.834	103.531
Fe 271.441	5226.83	5194.43	5199.00
K 766.491	5282.58	5231.32	5217.90
Mg 279.078	5205.87	5177.58	5176.74
Mn 257.610	536.641	533.674	534.726
Mo 202.032	106.819	104.563	104.839
Na 330.237	4925.56	5025.72	5101.23
Ni 231.604	106.191	106.554	107.411
Pb 220.353	57.9068	54.8842	57.0808
Sb 206.834	54.1017	51.9077	56.9445
Se 196.026	105.783	101.341	100.483
Sn 189.925	226.437	223.805	220.129
Sr 216.596	109.977	108.633	109.826
Ti 334.941	107.588	106.515	106.995
Tl 190.794	40.1660	47.7967	39.7193
V 292.401	106.472	104.941	105.493
Zn 206.200	107.860	109.455	108.143

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	37.6610	ppb	0.6833	1.8	2631.18
Al 308.215	5043.07	ppb	19.3358	0.4	29738.4
As 188.980	107.168	ppb	3.2280	3.0	64.5465
B 249.678	202.019	ppb	0.3973	0.2	1951.77
Ba 389.178	104.819	ppb	0.8282	0.8	2768.80
Be 313.042	53.2205	ppb	0.2042	0.4	110087
Ca 370.602	5182	ppb	19.38	0.4	18586
Cd 226.502	53.8312	ppb	0.1162	0.2	2146.55
Co 228.615	52.6100	ppb	0.4237	0.8	684.682
Cr 267.716	108.930	ppb	0.2761	0.3	4987.43
Cu 324.754	104.414	ppb	0.7649	0.7	5644.59
Fe 271.441	5206.75	ppb	17.5372	0.3	9116.04
K 766.491	5243.93	ppb	34.1366	0.7	320947
Mg 279.078	5186.73	ppb	16.5834	0.3	11356.2
Mn 257.610	535.013	ppb	1.5042	0.3	126488
Mo 202.032	105.407	ppb	1.2303	1.2	782.537
Na 330.237	5017.50	ppb	88.1233	1.8	259.719
Ni 231.604	106.719	ppb	0.6260	0.6	282.269
Pb 220.353	56.6239	ppb	1.5623	2.8	97.2473
Sb 206.834	54.3180	ppb	2.5253	4.6	52.0408
Se 196.026	102.536	ppb	2.8450	2.8	48.7364
Sn 189.925	223.457	ppb	3.1681	1.4	206.987
Sr 216.596	109.479	ppb	0.7362	0.7	1186.38
Ti 334.941	107.032	ppb	0.5377	0.5	32011.6
Tl 190.794	42.5607	ppb	4.5401	10.7	30.7710
V 292.401	105.635	ppb	0.7752	0.7	3154.46
Zn 206.200	108.486	ppb	0.8513	0.8	149.397

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

ics 680-269947/3-a (Samp) 3/21/2013, 1:50:42 PM Rack 1, Tube 36
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	225.571	224.098	222.001
Al 308.215	2250.00	2250.81	2256.80
As 188.980	221.104	223.212	222.193
B 249.678	408.903	410.878	413.609
Ba 389.178	209.839	209.370	210.395
Be 313.042	214.870	214.965	215.379
Ca 370.602	20884	20869	20902
Cd 226.502	208.918	209.365	209.442
Co 228.615	207.951	206.780	207.286
Cr 267.716	217.703	217.821	218.629
Cu 324.754	215.260	213.672	211.606
Fe 271.441	21641.9	21739.7	21696.0
K 766.491	20496.2	20532.3	20450.7
Mg 279.078	21009.6	21057.4	21072.1
Mn 257.610	2150.74	2155.43	2159.88
Mo 202.032	214.714	213.300	215.312
Na 330.237	17951.6	18026.9	17912.9
Ni 231.604	212.331	213.026	216.557
Pb 220.353	220.227	216.097	217.366
Sb 206.834	211.796	211.321	214.129
Se 196.026	199.479	206.009	202.902
Sn 189.925	230.057	235.359	232.852
Sr 216.596	232.867	231.258	233.069
Ti 334.941	218.418	218.150	218.615
Tl 190.794	47.0994	56.4792	49.7654
V 292.401	212.602	212.570	211.835
Zn 206.200	198.734	198.173	202.071

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	223.890	ppb	1.7941	0.8	15920.8
Al 308.215	2252.54	ppb	3.7162	0.2	13449.4
As 188.980	222.169	ppb	1.0542	0.5	136.204
B 249.678	411.130	ppb	2.3631	0.6	3915.32
Ba 389.178	209.868	ppb	0.5130	0.2	5619.79
Be 313.042	215.071	ppb	0.2706	0.1	445740
Ca 370.602	20885	ppb	16.33	0.1	74790
Cd 226.502	209.242	ppb	0.2832	0.1	8321.71
Co 228.615	207.339	ppb	0.5876	0.3	2657.80
Cr 267.716	218.051	ppb	0.5042	0.2	9982.26
Cu 324.754	213.513	ppb	1.8326	0.9	11372.7
Fe 271.441	21692.5	ppb	48.9876	0.2	37953.8
K 766.491	20493.1	ppb	40.8809	0.2	1253359
Mg 279.078	21046.4	ppb	32.6584	0.2	45995.4
Mn 257.610	2155.35	ppb	4.5694	0.2	509361
Mo 202.032	214.442	ppb	1.0332	0.5	1581.39
Na 330.237	17963.8	ppb	57.9939	0.3	947.484
Ni 231.604	213.971	ppb	2.2660	1.1	567.575
Pb 220.353	217.897	ppb	2.1155	1.0	372.974
Sb 206.834	212.416	ppb	1.5027	0.7	213.165
Se 196.026	202.797	ppb	3.2662	1.6	95.9751
Sn 189.925	232.756	ppb	2.6520	1.1	215.632
Sr 216.596	232.398	ppb	0.9923	0.4	2517.76
Ti 334.941	218.394	ppb	0.2335	0.1	65495.6
Tl 190.794	51.1147	ppb	4.8333	9.5	34.8684
V 292.401	212.336	ppb	0.4341	0.2	6336.71
Zn 206.200	199.660	ppb	2.1074	1.1	470.319

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

Cont Calib Verif (CCV) 3/21/2013, 1:56:07 PM Rack 1, Tube 37
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	515.813	519.682	514.713
Al 308.215	5072.59	5093.26	5107.65
As 188.980	473.066	467.542	475.354
B 249.678	2512.88	2550.12	2567.40
Ba 389.178	5032.63	5059.06	5067.27
Be 313.042	504.759	507.255	508.154
Ca 370.602	5133	5162	5163
Cd 226.502	505.596	508.734	509.199
Co 228.615	501.786	502.906	505.166
Cr 267.716	5160.72	5188.96	5192.61
Cu 324.754	5035.97	4945.49	5051.95
Fe 271.441	5078.63	5107.94	5121.81
K 766.491	9936.56	10017.8	10017.0
Mg 279.078	5031.66	5048.93	5053.45
Mn 257.610	5041.14	5064.09	5075.30
Mo 202.032	510.057	512.524	515.930
Na 330.237	7386.78	7729.90	7679.02
Ni 231.604	2540.70	2563.32	2569.81
Pb 220.353	521.453	524.228	528.861
Sb 206.834	989.867	1003.68	1002.64
Se 196.026	4923.81	4965.68	4995.47
Sn 189.925	5146.32	5226.42	5205.65
Sr 216.596	2579.42	2594.94	2594.56
Ti 334.941	502.534	505.308	505.903
Tl 190.794	5220.72	5281.50	5290.01
V 292.401	5003.79	5036.37	5041.77
Zn 206.200	2524.47	2542.36	2542.28

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	516.736	ppb	2.6102	0.5	36761.0	103.34717
Al 308.215	5091.16	ppb	17.6258	0.3	29984.4	101.82329
As 188.980	471.987	ppb	4.0164	0.9	291.981	94.39748
B 249.678	2543.47	ppb	27.8603	1.1	24113.2	101.73877
Ba 389.178	5052.99	ppb	18.0986	0.4	133524	101.05974
Be 313.042	506.723	ppb	1.7589	0.3	1050373	101.34450
Ca 370.602	5153	ppb	16.98	0.3	18763	103.05655
Cd 226.502	507.843	ppb	1.9602	0.4	20061.2	101.56860
Co 228.615	503.286	ppb	1.7219	0.3	6444.78	100.65723
Cr 267.716	5180.76	ppb	17.4550	0.3	236720	103.61523
Cu 324.754	5011.14	ppb	57.4132	1.1	262906	100.22276
Fe 271.441	5102.79	ppb	22.0419	0.4	9053.99	102.05581
K 766.491	9990.45	ppb	46.6739	0.5	611174	99.90452
Mg 279.078	5044.68	ppb	11.4990	0.2	10970.7	100.89355
Mn 257.610	5060.18	ppb	17.4147	0.3	1195397	101.20354
Mo 202.032	512.837	ppb	2.9488	0.6	3762.13	102.56740
Na 330.237	7598.56	ppb	185.170	2.4	376.322	101.31419
Ni 231.604	2557.94	ppb	15.2796	0.6	6794.93	102.31760
Pb 220.353	524.847	ppb	3.7425	0.7	897.411	104.96950
Sb 206.834	998.728	ppb	7.6918	0.8	1054.14	99.87283
Se 196.026	4961.65	ppb	35.9989	0.7	2326.03	99.23306
Sn 189.925	5192.79	ppb	41.5675	0.8	4820.37	103.85587
Sr 216.596	2589.64	ppb	8.8531	0.3	27940.6	103.58559
Ti 334.941	504.582	ppb	1.7984	0.4	151266	100.91634
Tl 190.794	5264.08	ppb	37.7908	0.7	3976.34	105.28152
V 292.401	5027.31	ppb	20.5474	0.4	150832	100.54626
Zn 206.200	2536.37	ppb	10.3973	0.4	3443.83	101.45480

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

Cont Calib Blank (CCB) 3/21/2013, 2:01:31 PM Rack 1, Tube 38

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1281u	-0.4356u	-0.4096u
Al 308.215	0.1092	-0.0939u	-2.5339u
As 188.980	5.6492	2.2627	5.6134
B 249.678	26.5187	23.5223	19.8365
Ba 389.178	1.2550	0.2482	-0.5778u
Be 313.042	0.0515	0.0557	0.0456
Ca 370.602	3.783	7.706	1.245
Cd 226.502	0.0625	0.0884	0.1816
Co 228.615	0.0587	-0.3478u	0.3149
Cr 267.716	0.4467	0.6104	0.6460
Cu 324.754	0.2759	0.0876	0.3440
Fe 271.441	-2.7376u	7.6395	3.9885
K 766.491	-0.2223u	-0.7694u	-0.5880u
Mg 279.078	-0.6433u	-3.5459u	-0.8538u
Mn 257.610	0.6361	0.5507	0.4903
Mo 202.032	1.2692	0.3789	0.9804
Na 330.237	151.105	133.899	48.3349
Ni 231.604	1.5521	0.5555	1.6215
Pb 220.353	1.4897	0.5762	2.2304
Sb 206.834	2.9460	8.1370	4.2204
Se 196.026	2.1245	4.5838	-0.3055u
Sn 189.925	-0.9227u	1.7040	-1.0157u
Sr 216.596	0.0273	0.2347	0.7988
Ti 334.941	0.2894	0.2757	0.2569
Tl 190.794	9.0286	3.1897	4.0117
V 292.401	0.8929	0.7548	0.5718
Zn 206.200	-0.1768u	-1.1043u	-0.7171u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.3244	ppb	0.1705	52.6	-77.4448	-0.32444
Al 308.215	-0.8395	ppb	1.4709	175.2	261.213	-0.83953
As 188.980	4.5084	ppb	1.9449	43.1	0.5548	4.50842
B 249.678	23.2925	ppb	3.3470	14.4	265.079	23.29251
Ba 389.178	0.3085	ppb	0.9179	297.6	-17.4825	0.30846
Be 313.042	0.0509	ppb	0.0051	10.0	-165.396	0.05093
Ca 370.602	4.245	ppb	3.255	76.7	13.08	4.24451
Cd 226.502	0.1108	ppb	0.0626	56.5	13.3022	0.11084
Co 228.615	0.0086	ppb	0.3342	3882.6	14.3523	0.00861
Cr 267.716	0.5677	ppb	0.1063	18.7	33.4728	0.56773
Cu 324.754	0.2358	ppb	0.1328	56.3	178.126	0.23584
Fe 271.441	2.9635	ppb	5.2639	177.6	11.9795	2.96346
K 766.491	-0.5266	ppb	0.2787	52.9	273.187	-0.52660
Mg 279.078	-1.6810	ppb	1.6185	96.3	26.1374	-1.68101
Mn 257.610	0.5590	ppb	0.0732	13.1	201.751	0.55904
Mo 202.032	0.8762	ppb	0.4542	51.8	16.1496	0.87616
Na 330.237	111.113	ppb	55.0438	49.5	-0.1784	111.11286
Ni 231.604	1.2430	ppb	0.5964	48.0	1.9178	1.24300
Pb 220.353	1.4321	ppb	0.8286	57.9	3.1314	1.43213
Sb 206.834	5.1011	ppb	2.7052	53.0	2.0641	5.10112
Se 196.026	2.1342	ppb	2.4447	114.5	1.6125	2.13424
Sn 189.925	-0.0781	ppb	1.5441	1976.7	-0.5408	-0.07811
Sr 216.596	0.3536	ppb	0.3993	112.9	9.6162	0.35362
Ti 334.941	0.2740	ppb	0.0163	6.0	-39.3008	0.27399
Tl 190.794	5.4100	ppb	3.1606	58.4	3.4446	5.40999
V 292.401	0.7399	ppb	0.1611	21.8	25.7396	0.73988
Zn 206.200	-0.6661	ppb	0.4659	69.8	4.09848	-0.66611

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88362-a-1-c (Samp) 3/21/2013, 2:06:55 PM Rack 1, Tube 39

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	11.6239	10.5575	11.4021
Al 308.215	16442.8	16392.4	16360.4
As 188.980	10.9614	7.0188	8.1265
B 249.678	56.5576	56.4319	55.8445
Ba 389.178	651.755	650.286	650.144
Be 313.042	0.3862	0.3793	0.3800
Ca 370.602	15137	15123	15064
Cd 226.502	169.662	169.315	169.055
Co 228.615	6.1066	6.1282	6.3950
Cr 267.716	290.866	290.054	289.241
Cu 324.754	211.415	210.583	214.943
Fe 271.441	21237.0	21132.0	21161.9
K 766.491	4180.27	4169.99	4173.49
Mg 279.078	2932.91	2939.95	2910.07
Mn 257.610	8812.72	8773.23	8772.49
Mo 202.032	49.4496	47.4804	46.6890
Na 330.237	2567.76	2401.12	2114.68
Ni 231.604	54.0514	54.6471	53.0049
Pb 220.353	26.7949	25.9648	26.4091
Sb 206.834	3.9452	12.0375	11.4970
Se 196.026	8.7180	-0.4340	7.3586
Sn 189.925	35.1036	30.2072	31.5319
Sr 216.596	125.752	125.287	124.849
Ti 334.941	247.114	246.209	245.651
Tl 190.794	33.5962	29.9479	32.5387
V 292.401	30.5302	29.8727	29.7695
Zn 206.200	436.242	434.316	435.960

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	11.1945	ppb	0.5627	5.0	777.687
Al 308.215	16398.5	ppb	41.5461	0.3	96067.6
As 188.980	8.7022	ppb	2.0334	23.4	3.0649
B 249.678	56.2780	ppb	0.3806	0.7	557.193
Ba 389.178	650.728	ppb	0.8918	0.1	17211.4
Be 313.042	0.3818	ppb	0.0038	1.0	515.241
Ca 370.602	15108	ppb	38.86	0.3	53836
Cd 226.502	169.344	ppb	0.3044	0.2	6745.84
Co 228.615	6.2100	ppb	0.1606	2.6	98.7374
Cr 267.716	290.054	ppb	0.8126	0.3	13301.5
Cu 324.754	212.314	ppb	2.3147	1.1	11306.8
Fe 271.441	21177.0	ppb	54.0803	0.3	37018.9
K 766.491	4174.58	ppb	5.2281	0.1	255561
Mg 279.078	2927.65	ppb	15.6191	0.5	6281.43
Mn 257.610	8786.15	ppb	23.0186	0.3	2075558
Mo 202.032	47.8730	ppb	1.4216	3.0	359.790
Na 330.237	2361.19	ppb	229.163	9.7	108.582
Ni 231.604	53.9011	ppb	0.8313	1.5	142.279
Pb 220.353	26.3896	ppb	0.4154	1.6	47.2213
Sb 206.834	9.1599	ppb	4.5242	49.4	8.7653
Se 196.026	5.2142	ppb	4.9385	94.7	4.9733
Sn 189.925	32.2809	ppb	2.5327	7.8	29.5075
Sr 216.596	125.296	ppb	0.4517	0.4	1367.92
Ti 334.941	246.325	ppb	0.7384	0.3	73787.7
Tl 190.794	32.0276	ppb	1.8770	5.9	13.0143
V 292.401	30.0575	ppb	0.4126	1.4	883.366
Zn 206.200	435.506	ppb	1.0492	0.2	594.409

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88362-a-2-c (Samp) 3/21/2013, 2:12:19 PM Rack 1, Tube 40

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	34.5179	33.2606	32.7654
Al 308.215	27960.3	27857.5	27883.7
As 188.980	13.3400	19.4970	23.3811
B 249.678	32.1471	32.8171	32.2567
Ba 389.178	1446.08	1441.01	1443.30
Be 313.042	1.2935	1.3051	1.2937
Ca 370.602	25158	25160	25168
Cd 226.502	2.8341	3.1427	3.1278
Co 228.615	11.3282	11.4169	11.7185
Cr 267.716	108.322	108.026	108.225
Cu 324.754	1455.58	1447.76	1455.64
Fe 271.441	56191.3	56012.7	55972.6
K 766.491	1601.72	1594.99	1597.97
Mg 279.078	2918.13	2869.84	2897.22
Mn 257.610	2558.41	2551.16	2549.46
Mo 202.032	25.4535	25.3875	24.8181
Na 330.237	823.374	1085.27	814.113
Ni 231.604	42.9984	42.7292	40.9958
Pb 220.353	138.831	137.674	134.571
Sb 206.834	25.4597	27.8904	27.5545
Se 196.026	30.7861	28.4105	33.4665
Sn 189.925	139.789	136.838	140.697
Sr 216.596	224.240	223.934	224.737
Ti 334.941	269.100	268.156	268.411
Tl 190.794	10.7080	15.5165	5.9190u
V 292.401	55.3209	55.4845	55.1211
Zn 206.200	2465.19	2454.77	2455.54

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	33.5146	ppb	0.9035	2.7	2339.19
Al 308.215	27900.5	ppb	53.4159	0.2	163256
As 188.980	18.7394	ppb	5.0632	27.0	9.0532
B 249.678	32.4070	ppb	0.3594	1.1	298.097
Ba 389.178	1443.46	ppb	2.5384	0.2	38213.9
Be 313.042	1.2974	ppb	0.0067	0.5	2423.49
Ca 370.602	25162	ppb	5.300	0.0	87276
Cd 226.502	3.0349	ppb	0.1740	5.7	273.798
Co 228.615	11.4879	ppb	0.2046	1.8	165.496
Cr 267.716	108.191	ppb	0.1508	0.1	4974.79
Cu 324.754	1452.99	ppb	4.5306	0.3	76376.2
Fe 271.441	56058.8	ppb	116.440	0.2	97981.1
K 766.491	1598.23	ppb	3.3728	0.2	98029.6
Mg 279.078	2895.06	ppb	24.2148	0.8	6316.66
Mn 257.610	2553.01	ppb	4.7526	0.2	603300
Mo 202.032	25.2197	ppb	0.3493	1.4	191.772
Na 330.237	907.586	ppb	153.950	17.0	3.7467
Ni 231.604	42.2411	ppb	1.0869	2.6	112.043
Pb 220.353	137.025	ppb	2.2028	1.6	234.688
Sb 206.834	26.9682	ppb	1.3171	4.9	26.2068
Se 196.026	30.8877	ppb	2.5295	8.2	15.3141
Sn 189.925	139.108	ppb	2.0176	1.5	128.685
Sr 216.596	224.304	ppb	0.4052	0.2	2454.64
Ti 334.941	268.556	ppb	0.4882	0.2	80461.5
Tl 190.794	10.7145	ppb	4.7988	44.8	2.4546
V 292.401	55.3088	ppb	0.1820	0.3	1659.88
Zn 206.200	2458.50	ppb	5.8417	0.2	2350.62

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88362-c-3-c (Samp) 3/21/2013, 2:17:43 PM Rack 1, Tube 41
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	15.3295	14.4330	16.5945
Al 308.215	18895.7	18944.8	19034.0
As 188.980	8.8452	7.6711	14.3930
B 249.678	48.8709	49.7048	50.9740
Ba 389.178	794.154	795.432	800.713
Be 313.042	0.5462	0.5452	0.5522
Ca 370.602	17019	17050	17193
Cd 226.502	145.234	145.499	146.425
Co 228.615	7.2050	7.6056	7.3656
Cr 267.716	267.811	268.346	269.738
Cu 324.754	420.983	423.616	425.628
Fe 271.441	27568.4	27604.7	27704.3
K 766.491	3716.58	3725.67	3747.14
Mg 279.078	3022.16	3015.76	3038.42
Mn 257.610	7940.49	7953.14	7971.88
Mo 202.032	45.7983	45.7970	46.6688
Na 330.237	2149.61	2163.29	2280.61
Ni 231.604	53.4513	54.8410	54.0276
Pb 220.353	46.7771	49.6454	49.4479
Sb 206.834	10.9940	11.2628	15.0449
Se 196.026	10.4128	11.1163	16.8026
Sn 189.925	50.7540	45.6056	52.4752
Sr 216.596	145.244	146.190	147.543
Ti 334.941	258.571	258.889	260.886
Tl 190.794	22.8373	32.7503	27.3909
V 292.401	34.6972	34.5838	34.5897
Zn 206.200	779.034	773.182	781.140

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	15.4523	ppb	1.0860	7.0	1077.03
Al 308.215	18958.1	ppb	70.0941	0.4	111020
As 188.980	10.3031	ppb	3.5903	34.8	4.0139
B 249.678	49.8499	ppb	1.0590	2.1	490.237
Ba 389.178	796.766	ppb	3.4771	0.4	21080.8
Be 313.042	0.5479	ppb	0.0038	0.7	860.904
Ca 370.602	17087	ppb	92.50	0.5	60475
Cd 226.502	145.719	ppb	0.6253	0.4	5830.28
Co 228.615	7.3921	ppb	0.2016	2.7	113.938
Cr 267.716	268.632	ppb	0.9947	0.4	12320.9
Cu 324.754	423.409	ppb	2.3298	0.6	22378.2
Fe 271.441	27625.8	ppb	70.3607	0.3	48289.4
K 766.491	3729.80	ppb	15.6938	0.4	228365
Mg 279.078	3025.45	ppb	11.6864	0.4	6509.37
Mn 257.610	7955.17	ppb	15.7940	0.2	1879288
Mo 202.032	46.0881	ppb	0.5029	1.1	346.359
Na 330.237	2197.84	ppb	72.0120	3.3	95.0348
Ni 231.604	54.1066	ppb	0.6982	1.3	142.962
Pb 220.353	48.6235	ppb	1.6021	3.3	84.9757
Sb 206.834	12.4339	ppb	2.2652	18.2	12.0619
Se 196.026	12.7772	ppb	3.5038	27.4	8.2800
Sn 189.925	49.6116	ppb	3.5744	7.2	45.5975
Sr 216.596	146.325	ppb	1.1556	0.8	1598.17
Ti 334.941	259.449	ppb	1.2549	0.5	77726.0
Tl 190.794	27.6595	ppb	4.9620	17.9	10.3817
V 292.401	34.6236	ppb	0.0639	0.2	1022.63
Zn 206.200	777.785	ppb	4.1231	0.5	4160.72

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88362-c-4-e (Samp) 3/21/2013, 2:23:08 PM Rack 1, Tube 42

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4976	-0.9599u	-1.1405u
Al 308.215	271651	271743	271890
As 188.980	22.9281	27.7540	27.8937
B 249.678	20.8667	21.9382	21.5956
Ba 389.178	492.716	493.228	492.809
Be 313.042	1.3111	1.3208	1.3181
Ca 370.602	512495	513588	514926
Cd 226.502	0.2215	0.7114	0.4605
Co 228.615	12.0059	11.6418	12.0415
Cr 267.716	211.471	211.452	212.981
Cu 324.754	98.6989	96.0413	96.2709
Fe 271.441	41450.3	41401.5	41430.3
K 766.491	1918.39	1908.89	1914.62
Mg 279.078	22022.5	22081.7	22096.7
Mn 257.610	11313.8	11341.8	11353.4
Mo 202.032	5.7732	5.4152	6.0502
Na 330.237	228.397u	329.469u	430.873
Ni 231.604	19.3910	18.4399	21.3350
Pb 220.353	18.1259	22.8749	13.9115
Sb 206.834	2.5849	4.0989	7.5511
Se 196.026	20.3205	1.8991	13.2001
Sn 189.925	17.0681	13.5775	12.7559
Sr 216.596	268.484	268.813	269.811
Ti 334.941	838.350	841.035	846.016
Tl 190.794	41.5547	42.9707	44.4974
V 292.401	123.025	123.079	123.700
Zn 206.200	77.3990	77.3271	74.1103

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5343	ppb	0.8981	168.1	-53.4948
Al 308.215	271761	ppb	120.355	0.0	1587820
As 188.980	26.1919	ppb	2.8274	10.8	17.9004
B 249.678	21.4668	ppb	0.5472	2.5	208.576
Ba 389.178	492.918	ppb	0.2728	0.1	13131.8
Be 313.042	1.3167	ppb	0.0050	0.4	2668.05
Ca 370.602	513670	ppb	1218	0.2	1883725
Cd 226.502	0.4645	ppb	0.2449	52.7	134.417
Co 228.615	11.8964	ppb	0.2212	1.9	188.461
Cr 267.716	211.968	ppb	0.8772	0.4	9752.48
Cu 324.754	97.0037	ppb	1.4726	1.5	5264.25
Fe 271.441	41427.4	ppb	24.5588	0.1	72411.4
K 766.491	1913.97	ppb	4.7859	0.3	117335
Mg 279.078	22067.0	ppb	39.2294	0.2	47993.4
Mn 257.610	11336.3	ppb	20.3691	0.2	2678111
Mo 202.032	5.7462	ppb	0.3184	5.5	49.5351
Na 330.237	329.579	ppb	101.238	30.7	-8.6543
Ni 231.604	19.7220	ppb	1.4757	7.5	51.9903
Pb 220.353	18.3041	ppb	4.4844	24.5	28.8867
Sb 206.834	4.7450	ppb	2.5453	53.6	4.6157
Se 196.026	11.8066	ppb	9.2894	78.7	8.5268
Sn 189.925	14.4672	ppb	2.2896	15.8	13.1952
Sr 216.596	269.036	ppb	0.6912	0.3	2981.63
Ti 334.941	841.801	ppb	3.8897	0.5	252526
Tl 190.794	43.0076	ppb	1.4717	3.4	17.7595
V 292.401	123.268	ppb	0.3752	0.3	3709.92
Zn 206.200	76.2788	ppb	1.8784	2.5	415.258

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88362-c-4-eSD^5 (Samp) 3/21/2013, 2:28:33 PM Rack 1, Tube 43

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8886u	-0.0240	-0.3563u
Al 308.215	52259.9	52221.2	52276.3
As 188.980	6.7735	8.2223	5.9410
B 249.678	4.8446	3.1275	4.9056
Ba 389.178	92.9588	92.8991	94.0504
Be 313.042	0.2395	0.2438	0.2409
Ca 370.602	101074	100765	101129
Cd 226.502	0.1849	0.1570	-0.1036
Co 228.615	2.7443	2.4978	2.6505
Cr 267.716	41.3134	41.5481	41.7330
Cu 324.754	18.8653	18.0104	17.5894
Fe 271.441	8151.56	8147.20	8184.30
K 766.491	312.533	312.652	312.570
Mg 279.078	4354.71	4344.74	4364.46
Mn 257.610	2299.17	2270.67	2312.33
Mo 202.032	0.7547	1.1192	0.6026
Na 330.237	-35.9747u	170.045	-43.4919u
Ni 231.604	4.1010	2.6496	5.0412
Pb 220.353	4.9378	5.0400	7.7264
Sb 206.834	5.4335	4.4049	6.4326
Se 196.026	-0.4813	4.3482	-10.3957u
Sn 189.925	3.2521	1.1676	5.1406
Sr 216.596	52.5874	52.9780	53.9336
Ti 334.941	165.281	164.522	165.428
Tl 190.794	4.6838	6.6490	10.1820
V 292.401	22.9805	23.7210	23.1952
Zn 206.200	14.8718	14.1117	17.3962

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4230	ppb	0.4361	103.1	-76.5522
Al 308.215	52252.5	ppb	28.3081	0.1	305510
As 188.980	6.9789	ppb	1.1544	16.5	2.8463
B 249.678	4.2926	ppb	1.0094	23.5	77.5206
Ba 389.178	93.3027	ppb	0.6482	0.7	2465.93
Be 313.042	0.2414	ppb	0.0022	0.9	270.687
Ca 370.602	100990	ppb	196.3	0.2	370346
Cd 226.502	0.0795	ppb	0.1591	200.2	33.1771
Co 228.615	2.6309	ppb	0.1244	4.7	52.2316
Cr 267.716	41.5315	ppb	0.2103	0.5	1917.20
Cu 324.754	18.1551	ppb	0.6501	3.6	1120.08
Fe 271.441	8161.02	ppb	20.2818	0.2	14270.3
K 766.491	312.585	ppb	0.0608	0.0	19418.5
Mg 279.078	4354.64	ppb	9.8603	0.2	9494.31
Mn 257.610	2294.06	ppb	21.2985	0.9	542005
Mo 202.032	0.8255	ppb	0.2655	32.2	15.3195
Na 330.237	30.1928	ppb	121.174	401.3	-8.4968
Ni 231.604	3.9306	ppb	1.2049	30.7	9.2502
Pb 220.353	5.9014	ppb	1.5813	26.8	10.2022
Sb 206.834	5.4237	ppb	1.0139	18.7	2.9725
Se 196.026	-2.1763	ppb	7.5166	345.4	0.0769
Sn 189.925	3.1868	ppb	1.9873	62.4	2.5358
Sr 216.596	53.1663	ppb	0.6926	1.3	593.862
Ti 334.941	165.077	ppb	0.4859	0.3	49422.8
Tl 190.794	7.1716	ppb	2.7861	38.8	1.9286
V 292.401	23.2989	ppb	0.3810	1.6	704.279
Zn 206.200	15.4599	ppb	1.7194	11.1	228468

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88362-c-4-ePDS (Samp) **3/21/2013, 2:33:58 PM** **Rack 1, Tube 44**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	55.1386	54.8344	56.0921
Al 308.215	267404	268060	268873
As 188.980	2337.58	2346.63	2354.13
B 249.678	1116.81	1127.28	1132.52
Ba 389.178	2603.61	2607.08	2619.08
Be 313.042	55.2712	55.3695	55.3214
Ca 370.602	511648	510349	513704
Cd 226.502	53.1805	53.3426	53.3992
Co 228.615	535.028	538.073	537.427
Cr 267.716	426.066	425.218	427.162
Cu 324.754	374.670	374.426	377.683
Fe 271.441	41448.2	41577.7	41653.9
K 766.491	9028.26	9033.66	9010.30
Mg 279.078	26901.4	26993.2	27042.1
Mn 257.610	11590.7	11574.2	11628.5
Mo 202.032	548.974	548.694	550.826
Na 330.237	6216.72	6241.76	6097.59
Ni 231.604	540.230	540.566	545.603
Pb 220.353	559.301	554.793	557.666
Sb 206.834	557.737	561.823	556.126
Se 196.026	2185.61	2166.99	2196.35
Sn 189.925	1094.78	1092.37	1101.66
Sr 216.596	813.586	809.765	813.279
Ti 334.941	1871.66	1868.88	1870.23
Tl 190.794	2207.95	2190.52	2172.93
V 292.401	649.537	651.135	652.125
Zn 206.200	594.069	595.845	592.453

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	55.3551	ppb	0.6562	1.2	3916.38
Al 308.215	268112	ppb	736.023	0.3	1566567
As 188.980	2346.11	ppb	8.2889	0.4	1464.68
B 249.678	1125.54	ppb	7.9995	0.7	10658.2
Ba 389.178	2609.93	ppb	8.1148	0.3	69087.2
Be 313.042	55.3207	ppb	0.0491	0.1	114554
Ca 370.602	511900	ppb	1692	0.3	1877429
Cd 226.502	53.3074	ppb	0.1135	0.2	2220.15
Co 228.615	536.843	ppb	1.6046	0.3	6895.12
Cr 267.716	426.149	ppb	0.9742	0.2	19537.4
Cu 324.754	375.593	ppb	1.8139	0.5	19883.1
Fe 271.441	41559.9	ppb	103.982	0.3	72732.7
K 766.491	9024.07	ppb	12.2290	0.1	552085
Mg 279.078	26978.9	ppb	71.4240	0.3	58725.5
Mn 257.610	11597.8	ppb	27.8717	0.2	2739894
Mo 202.032	549.498	ppb	1.1585	0.2	4037.56
Na 330.237	6185.35	ppb	77.0297	1.2	293.367
Ni 231.604	542.133	ppb	3.0103	0.6	1439.99
Pb 220.353	557.253	ppb	2.2821	0.4	948.479
Sb 206.834	558.562	ppb	2.9371	0.5	560.121
Se 196.026	2182.98	ppb	14.8557	0.7	1025.67
Sn 189.925	1096.27	ppb	4.8185	0.4	1017.51
Sr 216.596	812.210	ppb	2.1228	0.3	8824.62
Ti 334.941	1870.26	ppb	1.3889	0.1	561063
Tl 190.794	2190.47	ppb	17.5073	0.8	1641.67
V 292.401	650.932	ppb	1.3061	0.2	19474.7
Zn 206.200	594.122	ppb	1.6964	0.3	810.131

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88362-c-4-f ms (Samp) 3/21/2013, 2:39:23 PM Rack 1, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	43.5730	44.2453	43.2210
Al 308.215	290035	290385	290285
As 188.980	133.964	136.334	134.787
B 249.678	234.354	234.697	234.462
Ba 389.178	606.396	606.651	600.419
Be 313.042	56.4488	56.4545	56.4157
Ca 370.602	585927	589082	586622
Cd 226.502	54.0157	54.0512	53.8010
Co 228.615	65.4422	65.1981	64.7876
Cr 267.716	325.167	324.900	324.285
Cu 324.754	218.321	215.580	218.727
Fe 271.441	48401.3	48441.8	48410.1
K 766.491	9224.43	9244.80	9254.85
Mg 279.078	30512.6	30542.6	30494.3
Mn 257.610	11734.9	11754.1	11745.2
Mo 202.032	112.327	113.155	113.692
Na 330.237	6144.30	5947.82	6330.03
Ni 231.604	121.657	124.045	125.941
Pb 220.353	71.0877	71.9027	73.2252
Sb 206.834	50.7286	43.3519	43.7137
Se 196.026	109.672	114.425	102.151
Sn 189.925	226.564	228.610	226.628
Sr 216.596	356.497	355.417	355.097
Ti 334.941	974.665	975.687	975.431
Tl 190.794	85.5388	89.7278	85.4657
V 292.401	232.329	232.311	233.444
Zn 206.200	176.589	178.055	180.260

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	43.6797	ppb	0.5204	1.2	3099.93
Al 308.215	290235	ppb	179.836	0.1	1695750
As 188.980	135.029	ppb	1.2034	0.9	86.2610
B 249.678	234.504	ppb	0.1757	0.1	2218.22
Ba 389.178	604.489	ppb	3.5269	0.6	16117.4
Be 313.042	56.4396	ppb	0.0209	0.0	116996
Ca 370.602	587210	ppb	1658	0.3	2153264
Cd 226.502	53.9560	ppb	0.1353	0.3	2263.54
Co 228.615	65.1426	ppb	0.3308	0.5	867.511
Cr 267.716	324.784	ppb	0.4523	0.1	14910.0
Cu 324.754	217.542	ppb	1.7116	0.8	11589.2
Fe 271.441	48417.8	ppb	21.2963	0.0	84637.8
K 766.491	9241.36	ppb	15.4998	0.2	565371
Mg 279.078	30516.5	ppb	24.3847	0.1	66449.1
Mn 257.610	11744.7	ppb	9.6153	0.1	2774636
Mo 202.032	113.058	ppb	0.6876	0.6	836.220
Na 330.237	6140.72	ppb	191.127	3.1	299.063
Ni 231.604	123.881	ppb	2.1466	1.7	328.887
Pb 220.353	72.0719	ppb	1.0788	1.5	120.277
Sb 206.834	45.9314	ppb	4.1584	9.1	46.5232
Se 196.026	108.750	ppb	6.1886	5.7	53.9893
Sn 189.925	227.267	ppb	1.1635	0.5	210.786
Sr 216.596	355.670	ppb	0.7333	0.2	3922.45
Ti 334.941	975.261	ppb	0.5315	0.1	292604
Tl 190.794	86.9108	ppb	2.4399	2.8	50.2570
V 292.401	232.695	ppb	0.6489	0.3	6974.73
Zn 206.200	178.301	ppb	1.8480	1.0	243.952

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88362-c-4-g msd (Samp) 3/21/2013, 2:44:49 PM Rack 1, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	41.9034	40.8806	41.3689
Al 308.215	295773	295057	295152
As 188.980	137.961	136.280	140.500
B 249.678	232.341	231.534	234.513
Ba 389.178	615.461	614.379	617.406
Be 313.042	57.5326	57.3042	57.3970
Ca 370.602	560796	557639	558494
Cd 226.502	54.6600	54.6859	54.5887
Co 228.615	66.9085	66.0291	65.6352
Cr 267.716	337.875	336.761	337.143
Cu 324.754	219.218	216.089	219.908
Fe 271.441	49484.6	49382.2	49392.4
K 766.491	9312.96	9298.31	9324.84
Mg 279.078	29313.2	29237.0	29210.0
Mn 257.610	12452.4	12401.3	12432.6
Mo 202.032	114.628	115.702	114.010
Na 330.237	6311.31	6059.50	6001.00
Ni 231.604	126.951	126.467	123.631
Pb 220.353	73.5494	70.3459	73.8291
Sb 206.834	49.0130	45.6269	43.0795
Se 196.026	120.351	123.775	119.764
Sn 189.925	235.108	224.114	228.137
Sr 216.596	390.753	387.997	391.296
Ti 334.941	1012.11	1009.67	1013.38
Tl 190.794	85.4481	88.4330	93.5888
V 292.401	237.338	236.460	236.418
Zn 206.200	189.824	185.530	185.589

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	41.3843	ppb	0.5116	1.2	2937.98
Al 308.215	295327	ppb	388.590	0.1	1725499
As 188.980	138.247	ppb	2.1245	1.5	88.0214
B 249.678	232.796	ppb	1.5405	0.7	2201.09
Ba 389.178	615.749	ppb	1.5337	0.2	16412.7
Be 313.042	57.4113	ppb	0.1149	0.2	119000
Ca 370.602	558976	ppb	1633	0.3	2049475
Cd 226.502	54.6449	ppb	0.0504	0.1	2293.33
Co 228.615	66.1909	ppb	0.6519	1.0	881.777
Cr 267.716	337.260	ppb	0.5659	0.2	15483.2
Cu 324.754	218.405	ppb	2.0355	0.9	11634.8
Fe 271.441	49419.7	ppb	56.3911	0.1	86389.2
K 766.491	9312.04	ppb	13.2874	0.1	569692
Mg 279.078	29253.4	ppb	53.4919	0.2	63675.9
Mn 257.610	12428.8	ppb	25.7521	0.2	2936222
Mo 202.032	114.780	ppb	0.8562	0.7	848.794
Na 330.237	6123.94	ppb	164.882	2.7	297.517
Ni 231.604	125.683	ppb	1.7936	1.4	333.698
Pb 220.353	72.5748	ppb	1.9353	2.7	121.174
Sb 206.834	45.9064	ppb	2.9766	6.5	46.6155
Se 196.026	121.297	ppb	2.1665	1.8	60.0207
Sn 189.925	229.120	ppb	5.5627	2.4	212.493
Sr 216.596	390.015	ppb	1.7691	0.5	4291.21
Ti 334.941	1011.72	ppb	1.8857	0.2	303534
Tl 190.794	89.1567	ppb	4.1183	4.6	51.1582
V 292.401	236.739	ppb	0.5193	0.2	7095.78
Zn 206.200	186.981	ppb	2.4626	1.3	255.746

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

mb 680-269902/1-a (Samp) **3/21/2013, 2:50:15 PM** **Rack 1, Tube 47**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.6322	-0.3350u	0.7606
Al 308.215	58.9018	62.0680	73.8629
As 188.980	1.3463	4.8851	-1.3830u
B 249.678	5.3805	3.6861	4.0583
Ba 389.178	-0.3781u	0.2125	0.0445
Be 313.042	0.0077	-0.0062u	0.0081
Ca 370.602	127.4	133.3	157.6
Cd 226.502	-0.0763u	0.1060	-0.0206u
Co 228.615	-0.0082u	-0.1582u	0.6439
Cr 267.716	-0.0440u	-0.1412u	-0.1969u
Cu 324.754	0.0592	-0.0236u	0.0914
Fe 271.441	16.0894	11.0036	25.8601
K 766.491	1.0080	1.0049	1.7933
Mg 279.078	5.0071	5.5720	6.6999
Mn 257.610	2.7870	2.8934	3.5218
Mo 202.032	-0.2235u	-0.5330u	0.1037
Na 330.237	-17.0149u	36.1454	233.488
Ni 231.604	1.6958	1.4450	1.3463
Pb 220.353	-0.3287u	0.6824	0.3065
Sb 206.834	1.7202	5.6085	3.8509
Se 196.026	2.8987	-3.6525u	-0.8475u
Sn 189.925	-0.4398u	-1.0664u	0.4921
Sr 216.596	0.2971	-0.0432u	0.4215
Ti 334.941	0.6899	0.6542	0.6973
Tl 190.794	0.4007	-2.9693u	-3.7483u
V 292.401	0.0482	0.0539	-0.0821u
Zn 206.200	-0.4436u	0.9616	0.3807

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3526	ppb	0.5989	169.9	-29.1385
Al 308.215	64.9442	ppb	7.8843	12.1	645.409
As 188.980	1.6161	ppb	3.1427	194.5	-1.2480
B 249.678	4.3750	ppb	0.8905	20.4	86.0138
Ba 389.178	-0.0404	ppb	0.3043	754.2	-26.6576
Be 313.042	0.0032	ppb	0.0082	255.1	-264.163
Ca 370.602	139.4	ppb	16.02	11.5	508.4
Cd 226.502	0.0030	ppb	0.0934	3083.9	9.0870
Co 228.615	0.1592	ppb	0.4264	267.9	16.3110
Cr 267.716	-0.1274	ppb	0.0774	60.7	1.7321
Cu 324.754	0.0424	ppb	0.0593	140.1	167.969
Fe 271.441	17.6510	ppb	7.5504	42.8	37.7211
K 766.491	1.2688	ppb	0.4543	35.8	382.964
Mg 279.078	5.7596	ppb	0.8619	15.0	42.3399
Mn 257.610	3.0674	ppb	0.3971	12.9	794.339
Mo 202.032	-0.2176	ppb	0.3184	146.3	8.1262
Na 330.237	84.2062	ppb	131.986	156.7	-1.6369
Ni 231.604	1.4957	ppb	0.1802	12.0	2.5896
Pb 220.353	0.2201	ppb	0.5111	232.2	1.0603
Sb 206.834	3.7265	ppb	1.9471	52.3	0.6789
Se 196.026	-0.5338	ppb	3.2868	615.8	0.3632
Sn 189.925	-0.3380	ppb	0.7842	232.0	-0.7821
Sr 216.596	0.2252	ppb	0.2406	106.8	8.2730
Ti 334.941	0.6805	ppb	0.0230	3.4	82.6835
Tl 190.794	-2.1056	ppb	2.2053	104.7	-2.2421
V 292.401	0.0067	ppb	0.0769	1151.1	3.8971
Zn 206.200	0.2996	ppb	0.7061	235.7	2.3018

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

ics 680-269902/2-a (Samp) 3/21/2013, 2:55:41 PM Rack 1, Tube 48
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	15.2268	14.7075	14.4186
Al 308.215	2107.47	2109.79	2114.38
As 188.980	49.9666	44.8469	50.1651
B 249.678	86.8807	88.6844	87.5683
Ba 389.178	42.8029	43.7407	41.9460
Be 313.042	21.9579	21.9999	21.9639
Ca 370.602	2160	2169	2177
Cd 226.502	22.4157	22.2471	22.1013
Co 228.615	20.8660	21.7386	20.9461
Cr 267.716	44.6137	44.3533	44.8164
Cu 324.754	42.2086	42.4547	42.0151
Fe 271.441	2158.03	2159.07	2162.07
K 766.491	2205.15	2208.70	2212.44
Mg 279.078	2175.19	2168.72	2174.40
Mn 257.610	221.837	222.646	222.581
Mo 202.032	43.2847	43.1323	43.5640
Na 330.237	2076.84	2096.67	2206.89
Ni 231.604	43.9589	43.6671	43.6181
Pb 220.353	22.9151	22.2916	20.3917
Sb 206.834	25.8077	24.0291	20.6686
Se 196.026	33.7924	46.1733	38.7466
Sn 189.925	85.8540	84.4003	85.4161
Sr 216.596	45.4733	45.0531	46.0009
Ti 334.941	44.0346	43.9513	43.9938
Tl 190.794	20.5539	17.2280	19.0356
V 292.401	42.9108	42.7244	43.0538
Zn 206.200	44.9407	44.5912	43.7444

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	14.7843	ppb	0.4095	2.8	999.898
Al 308.215	2110.55	ppb	3.5178	0.2	12600.2
As 188.980	48.3262	ppb	3.0148	6.2	27.8688
B 249.678	87.7111	ppb	0.9103	1.0	872.746
Ba 389.178	42.8299	ppb	0.8976	2.1	1116.40
Be 313.042	21.9739	ppb	0.0227	0.1	45294.1
Ca 370.602	2169	ppb	8.508	0.4	7777
Cd 226.502	22.2547	ppb	0.1573	0.7	892.674
Co 228.615	21.1836	ppb	0.4824	2.3	284.204
Cr 267.716	44.5945	ppb	0.2322	0.5	2046.27
Cu 324.754	42.2261	ppb	0.2204	0.5	2381.47
Fe 271.441	2159.72	ppb	2.0991	0.1	3785.26
K 766.491	2208.76	ppb	3.6463	0.2	135361
Mg 279.078	2172.77	ppb	3.5269	0.2	4774.58
Mn 257.610	222.355	ppb	0.4491	0.2	52610.1
Mo 202.032	43.3270	ppb	0.2190	0.5	327.385
Na 330.237	2126.80	ppb	70.0626	3.3	106.592
Ni 231.604	43.7480	ppb	0.1842	0.4	114.896
Pb 220.353	21.8661	ppb	1.3144	6.0	37.9695
Sb 206.834	23.5018	ppb	2.6098	11.1	20.7571
Se 196.026	39.5708	ppb	6.2315	15.7	19.1874
Sn 189.925	85.2235	ppb	0.7457	0.9	78.6524
Sr 216.596	45.5091	ppb	0.4749	1.0	496.613
Ti 334.941	43.9932	ppb	0.0416	0.1	13086.3
Tl 190.794	18.9392	ppb	1.6650	8.8	13.3568
V 292.401	42.8963	ppb	0.1652	0.4	1283.06
Zn 206.200	44.4255	ppb	0.6151	1.4	62.2973

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

Cont Calib Verif (CCV) 3/21/2013, 3:01:06 PM Rack 1, Tube 49
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	518.483	523.497	516.499
Al 308.215	5153.44	5163.70	5177.66
As 188.980	481.089	481.192	486.547
B 249.678	2561.52	2589.89	2604.28
Ba 389.178	5097.11	5110.33	5123.35
Be 313.042	510.869	512.129	513.131
Ca 370.602	5191	5207	5212
Cd 226.502	513.802	515.704	516.807
Co 228.615	507.966	510.229	509.526
Cr 267.716	5217.44	5234.86	5243.06
Cu 324.754	4883.63	4959.18	5052.82
Fe 271.441	5163.09	5174.60	5182.04
K 766.491	10013.2	10027.4	10017.6
Mg 279.078	5120.49	5125.34	5133.04
Mn 257.610	5134.27	5141.57	5145.97
Mo 202.032	517.821	521.472	522.488
Na 330.237	7481.51	7593.52	7553.77
Ni 231.604	2591.64	2606.47	2602.26
Pb 220.353	535.441	533.577	537.747
Sb 206.834	1018.28	1020.36	1020.99
Se 196.026	4982.70	5011.23	5005.22
Sn 189.925	5243.22	5294.13	5222.94
Sr 216.596	2610.95	2618.80	2625.41
Ti 334.941	508.605	509.698	512.062
Tl 190.794	5303.12	5356.31	5345.82
V 292.401	5069.95	5080.58	5086.51
Zn 206.200	2589.46	2587.45	2589.15

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	519.493	ppb	3.6068	0.7	36956.5	103.89867
Al 308.215	5164.93	ppb	12.1538	0.2	30415.4	103.29869
As 188.980	482.942	ppb	3.1219	0.6	298.811	96.58849
B 249.678	2585.23	ppb	21.7556	0.8	24508.4	103.40920
Ba 389.178	5110.27	ppb	13.1205	0.3	135038	102.20535
Be 313.042	512.043	ppb	1.1334	0.2	1061404	102.40862
Ca 370.602	5203	ppb	11.05	0.2	18948	104.06860
Cd 226.502	515.438	ppb	1.5203	0.3	20361.1	103.08752
Co 228.615	509.240	ppb	1.1583	0.2	6520.91	101.84807
Cr 267.716	5231.79	ppb	13.0835	0.3	239052	104.63570
Cu 324.754	4965.21	ppb	84.7554	1.7	260497	99.30424
Fe 271.441	5173.24	ppb	9.5477	0.2	9178.79	103.46481
K 766.491	10019.4	ppb	7.2725	0.1	612945	100.19417
Mg 279.078	5126.29	ppb	6.3259	0.1	11147.7	102.52577
Mn 257.610	5140.60	ppb	5.9104	0.1	1214394	102.81201
Mo 202.032	520.594	ppb	2.4543	0.5	3818.92	104.11876
Na 330.237	7542.93	ppb	56.7873	0.8	372.884	100.57242
Ni 231.604	2600.12	ppb	7.6409	0.3	6907.00	104.00484
Pb 220.353	535.588	ppb	2.0887	0.4	915.764	107.11765
Sb 206.834	1019.87	ppb	1.4205	0.1	1076.47	101.98743
Se 196.026	4999.72	ppb	15.0368	0.3	2343.88	99.99436
Sn 189.925	5253.43	ppb	36.6756	0.7	4876.66	105.06854
Sr 216.596	2618.39	ppb	7.2405	0.3	28250.2	104.73547
Ti 334.941	510.121	ppb	1.7673	0.3	152929	102.02430
Tl 190.794	5335.09	ppb	28.1742	0.5	4029.97	106.70171
V 292.401	5079.01	ppb	8.3907	0.2	152379	101.58025
Zn 206.200	2588.69	ppb	1.0845	0.0	3514.84	103.54741

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

Cont Calib Blank (CCB) 3/21/2013, 3:06:30 PM Rack 1, Tube 50
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0092u	-0.8500u	-0.3574u
Al 308.215	-1.0027u	1.1407	-3.0882u
As 188.980	4.6272	7.1387	-0.8251u
B 249.678	25.7739	22.2824	21.0308
Ba 389.178	-0.1476u	0.6921	-0.2452u
Be 313.042	0.0420	0.0484	0.0415
Ca 370.602	3.412	3.386	4.290
Cd 226.502	-0.1810u	0.0686	-0.0515u
Co 228.615	0.6188	1.0585	0.5887
Cr 267.716	0.4770	0.4903	0.2578
Cu 324.754	0.3023	0.3271	-0.4013u
Fe 271.441	-1.4715u	-4.5323u	-0.1181u
K 766.491	-0.5425u	-0.7351u	-0.5056u
Mg 279.078	-1.1082u	-3.6031u	-4.6265u
Mn 257.610	0.4637	0.4704	0.4536
Mo 202.032	0.7580	0.5522	0.8492
Na 330.237	123.219	-65.7314u	-87.4681u
Ni 231.604	2.7367	1.7483	0.9850
Pb 220.353	1.2929	0.1241	3.5256
Sb 206.834	9.4116	12.4341	6.3907
Se 196.026	3.8586	3.1379	8.4635
Sn 189.925	1.0958	0.6384	-2.2949u
Sr 216.596	0.0060	0.3007	0.2410
Ti 334.941	0.3270	0.1982	0.2107
Tl 190.794	-0.3869u	5.7549	6.4318
V 292.401	0.4481	0.6520	0.5214
Zn 206.200	0.7498	2.2591	1.2509

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.4055	ppb	0.4224	104.2	-83.2582	-0.40552
Al 308.215	-0.9834	ppb	2.1145	215.0	260.383	-0.98342
As 188.980	3.6470	ppb	4.0714	111.6	0.0175	3.64695
B 249.678	23.0290	ppb	2.4581	10.7	262.586	23.02902
Ba 389.178	0.0998	ppb	0.5153	516.4	-22.9969	0.09979
Be 313.042	0.0440	ppb	0.0038	8.7	-179.817	0.04397
Ca 370.602	3.696	ppb	0.5144	13.9	11.05	3.69586
Cd 226.502	-0.0547	ppb	0.1248	228.4	6.7727	-0.05465
Co 228.615	0.7554	ppb	0.2630	34.8	23.8773	0.75535
Cr 267.716	0.4084	ppb	0.1306	32.0	26.1916	0.40837
Cu 324.754	0.0760	ppb	0.4136	544.0	169.749	0.07602
Fe 271.441	-2.0406	ppb	2.2615	110.8	3.3352	-2.04064
K 766.491	-0.5944	ppb	0.1232	20.7	269.042	-0.59439
Mg 279.078	-3.1126	ppb	1.8097	58.1	23.0102	-3.11257
Mn 257.610	0.4626	ppb	0.0084	1.8	178.959	0.46256
Mo 202.032	0.7198	ppb	0.1522	21.1	15.0028	0.71979
Na 330.237	-9.9935	ppb	115.876	1159.5	-6.6878	-9.99346
Ni 231.604	1.8233	ppb	0.8783	48.2	3.4597	1.82333
Pb 220.353	1.6475	ppb	1.7283	104.9	3.4992	1.64754
Sb 206.834	9.4121	ppb	3.0217	32.1	6.4241	9.41215
Se 196.026	5.1533	ppb	2.8893	56.1	3.0268	5.15334
Sn 189.925	-0.1869	ppb	1.8399	984.4	-0.6419	-0.18691
Sr 216.596	0.1826	ppb	0.1558	85.3	7.7624	0.18258
Ti 334.941	0.2453	ppb	0.0710	29.0	-47.9032	0.24528
Tl 190.794	3.9333	ppb	3.7566	95.5	2.3281	3.93326
V 292.401	0.5405	ppb	0.1033	19.1	19.7329	0.54052
Zn 206.200	1.4199	ppb	0.7687	54.1	3.8265	1.41993

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

ics 680-269902/3-a (Samp) 3/21/2013, 3:11:54 PM Rack 1, Tube 51
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	86.7748	86.4174	87.2081
Al 308.215	813.387	815.543	821.649
As 188.980	85.6413	87.1501	96.7479
B 249.678	172.086	171.786	174.409
Ba 389.178	82.6598	81.2733	82.0219
Be 313.042	84.4720	84.3377	84.6580
Ca 370.602	8329	8310	8334
Cd 226.502	85.2394	85.2294	85.6245
Co 228.615	83.0511	83.5667	83.5114
Cr 267.716	86.1255	86.1120	86.3922
Cu 324.754	82.5917	82.2287	82.9853
Fe 271.441	8683.86	8672.90	8701.49
K 766.491	8467.52	8700.67	8689.14
Mg 279.078	8450.69	8453.87	8484.77
Mn 257.610	854.331	854.279	858.201
Mo 202.032	82.7059	83.7015	84.5803
Na 330.237	7581.04	7306.53	7393.90
Ni 231.604	85.2203	87.9418	86.7053
Pb 220.353	89.1248	89.8563	88.4259
Sb 206.834	86.8767	84.5356	93.9116
Se 196.026	81.7434	86.2571	82.4197
Sn 189.925	86.8887	80.1753	82.4951
Sr 216.596	93.0859	92.4993	92.0494
Ti 334.941	84.9776	84.5339	85.0234
Tl 190.794	19.5784	19.8494	21.6803
V 292.401	84.6533	84.4440	84.9890
Zn 206.200	84.2230	81.1590	81.6891

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	86.8001	ppb	0.3960	0.5	6139.06
Al 308.215	816.859	ppb	4.2856	0.5	5047.48
As 188.980	89.8464	ppb	6.0243	6.7	53.7385
B 249.678	172.760	ppb	1.4355	0.8	1671.54
Ba 389.178	81.9850	ppb	0.6940	0.8	2180.77
Be 313.042	84.4892	ppb	0.1609	0.2	174941
Ca 370.602	8324	ppb	12.65	0.2	29805
Cd 226.502	85.3644	ppb	0.2253	0.3	3399.83
Co 228.615	83.3764	ppb	0.2831	0.3	1077.32
Cr 267.716	86.2099	ppb	0.1580	0.2	3951.20
Cu 324.754	82.6019	ppb	0.3784	0.5	4501.47
Fe 271.441	8686.08	ppb	14.4254	0.2	15201.5
K 766.491	8619.11	ppb	131.407	1.5	527323
Mg 279.078	8463.11	ppb	18.8257	0.2	18513.6
Mn 257.610	855.604	ppb	2.2495	0.3	202243
Mo 202.032	83.6626	ppb	0.9378	1.1	622.879
Na 330.237	7427.16	ppb	140.246	1.9	388.278
Ni 231.604	86.6225	ppb	1.3626	1.6	228.946
Pb 220.353	89.1356	ppb	0.7153	0.8	152.983
Sb 206.834	88.4413	ppb	4.8799	5.5	86.9455
Se 196.026	83.4734	ppb	2.4344	2.9	39.8592
Sn 189.925	83.1864	ppb	3.4097	4.1	76.7661
Sr 216.596	92.5448	ppb	0.5198	0.6	1006.19
Ti 334.941	84.8450	ppb	0.2704	0.3	25371.7
Tl 190.794	20.3694	ppb	1.1434	5.6	13.5100
V 292.401	84.6954	ppb	0.2749	0.3	2530.13
Zn 206.200	82.3570	ppb	1.6375	2.0	413.860

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

llcs 680-269902/4-a (Samp) 3/21/2013, 3:17:18 PM Rack 1, Tube 52
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.6152	0.6627	1.2135
Al 308.215	9.1871	10.8548	10.2803
As 188.980	2.8241	7.3570	2.5022
B 249.678	26.6133	26.7128	25.8690
Ba 389.178	0.9797	1.9207	1.2773
Be 313.042	0.4286	0.4334	0.4295
Ca 370.602	270.0	272.0	273.5
Cd 226.502	-0.0227u	0.0118	0.1470
Co 228.615	0.8290	1.0832	0.8489
Cr 267.716	1.0190	0.9372	0.9369
Cu 324.754	-0.2783u	1.0687	1.0407
Fe 271.441	51.2581	52.4777	56.5429
K 766.491	58.8767	59.5147	59.6334
Mg 279.078	48.5908	52.9693	50.3843
Mn 257.610	3.5529	3.5935	3.7008
Mo 202.032	1.2308	1.3981	1.5202
Na 330.237	118.893	69.8692	16.1822
Ni 231.604	0.5540	2.8107	0.1870
Pb 220.353	3.9324	1.1441	1.0964
Sb 206.834	6.0200	6.2707	4.0433
Se 196.026	5.6351	-1.3081u	-4.1059u
Sn 189.925	3.0531	3.9349	2.9776
Sr 216.596	0.1304	0.3949	0.7806
Ti 334.941	1.2004	1.1510	1.1851
Tl 190.794	4.9410	5.1610	0.8138
V 292.401	1.3424	0.7184	0.8797
Zn 206.200	21.4086	23.1450	24.2000

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.1638	ppb	0.4782	41.1	28.7258
Al 308.215	10.1074	ppb	0.8472	8.4	325.223
As 188.980	4.2278	ppb	2.7148	64.2	0.3813
B 249.678	26.3984	ppb	0.4612	1.7	294.427
Ba 389.178	1.3926	ppb	0.4809	34.5	11.4087
Be 313.042	0.4305	ppb	0.0026	0.6	621.854
Ca 370.602	271.8	ppb	1.720	0.6	991.5
Cd 226.502	0.0453	ppb	0.0897	197.8	10.8518
Co 228.615	0.9204	ppb	0.1414	15.4	25.9930
Cr 267.716	0.9644	ppb	0.0473	4.9	51.6203
Cu 324.754	0.6104	ppb	0.7697	126.1	197.793
Fe 271.441	53.4263	ppb	2.7672	5.2	100.257
K 766.491	59.3416	ppb	0.4069	0.7	3933.84
Mg 279.078	50.6481	ppb	2.2011	4.3	140.461
Mn 257.610	3.6157	ppb	0.0764	2.1	924.202
Mo 202.032	1.3830	ppb	0.1453	10.5	19.8649
Na 330.237	68.3147	ppb	51.3729	75.2	-2.6792
Ni 231.604	1.1839	ppb	1.4207	120.0	1.7619
Pb 220.353	2.0577	ppb	1.6238	78.9	4.1994
Sb 206.834	5.4447	ppb	1.2201	22.4	2.4149
Se 196.026	0.0737	ppb	5.0154	6808.9	0.6477
Sn 189.925	3.3219	ppb	0.5322	16.0	2.6157
Sr 216.596	0.4353	ppb	0.3270	75.1	10.5398
Ti 334.941	1.1788	ppb	0.0253	2.1	232.404
Tl 190.794	3.6386	ppb	2.4488	67.3	2.0997
V 292.401	0.9802	ppb	0.3239	33.0	32.8436
Zn 206.200	22.9179	ppb	1.4995	6.5	33.1097

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

400-73138-j-1-d (Samp) **3/21/2013, 3:22:42 PM** **Rack 1, Tube 53**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.7134u	-0.8400u	-0.2483u
Al 308.215	5.2004	5.0283	7.7938
As 188.980	-7.0654u	-5.5476u	11.0773
B 249.678	27.4042	27.0878	27.6514
Ba 389.178	40.6300	39.9028	40.3690
Be 313.042	-0.0033	-0.0038	0.0019
Ca 370.602	32676	32704	32705
Cd 226.502	0.0044	-0.1539u	0.1028
Co 228.615	0.1665	0.6194	-0.2840u
Cr 267.716	-0.3852u	-0.0881u	0.1510
Cu 324.754	1.4055	0.9718	0.4014
Fe 271.441	5.4233	4.6954	3.7497
K 766.491	3973.36	3988.90	3991.60
Mg 279.078	10490.4	10508.3	10468.4
Mn 257.610	-0.2638u	-0.2833u	-0.2255u
Mo 202.032	0.7021	0.1776	0.6473
Na 330.237	17994.6	17884.8	18065.5
Ni 231.604	5.3565	4.2812	3.2572
Pb 220.353	3.6888	1.8707	0.4142
Sb 206.834	6.3582	3.3613	1.2182
Se 196.026	1.7217	-2.2663u	1.8901
Sn 189.925	1.2049	-0.7598u	-3.3094u
Sr 216.596	142.727	143.856	142.294
Ti 334.941	0.1057	0.0233	-0.0234
Tl 190.794	2.3174	0.1707	1.2389
V 292.401	-0.4685u	-0.4094u	-0.3084u
Zn 206.200	1.8859	0.8422	1.8908

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6006	ppb	0.3116	51.9	-103.158
Al 308.215	6.0075	ppb	1.5494	25.8	301.190
As 188.980	-0.5119	ppb	10.0652	1966.3	-2.3071
B 249.678	27.3811	ppb	0.2825	1.0	303.782
Ba 389.178	40.3006	ppb	0.3684	0.9	1070.65
Be 313.042	-0.0017	ppb	0.0032	184.4	-265.426
Ca 370.602	32695	ppb	16.34	0.0	120110
Cd 226.502	-0.0156	ppb	0.1295	832.0	8.3530
Co 228.615	0.1673	ppb	0.4517	270.0	16.3878
Cr 267.716	-0.1074	ppb	0.2686	250.0	2.9348
Cu 324.754	0.9262	ppb	0.5036	54.4	214.333
Fe 271.441	4.6228	ppb	0.8392	18.2	14.9327
K 766.491	3984.62	ppb	9.8420	0.2	243946
Mg 279.078	10489.1	ppb	19.9889	0.2	22954.2
Mn 257.610	-0.2575	ppb	0.0294	11.4	61.9248
Mo 202.032	0.5090	ppb	0.2883	56.6	13.4581
Na 330.237	17981.7	ppb	91.0503	0.5	958.516
Ni 231.604	4.2983	ppb	1.0498	24.4	10.0355
Pb 220.353	1.9912	ppb	1.6407	82.4	4.0869
Sb 206.834	3.6459	ppb	2.5818	70.8	0.5894
Se 196.026	0.4485	ppb	2.3526	524.5	0.8227
Sn 189.925	-0.9548	ppb	2.2635	237.1	-1.3327
Sr 216.596	142.959	ppb	0.8066	0.6	1554.36
Ti 334.941	0.0352	ppb	0.0653	185.5	-61.4095
Tl 190.794	1.2423	ppb	1.0734	86.4	0.2933
V 292.401	-0.3954	ppb	0.0810	20.5	-8.3307
Zn 206.200	1.5396	ppb	0.6040	39.2	3.9911

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

400-73138-j-1-dSD^5 (Samp) **3/21/2013, 3:28:07 PM** **Rack 1, Tube 54**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3782u	0.4631	-0.0468u
Al 308.215	2.9611	-0.9194u	-1.7367u
As 188.980	0.8474	5.3277	5.6452
B 249.678	5.4311	5.5557	6.7308
Ba 389.178	7.1835	7.1355	7.0793
Be 313.042	-0.0151u	-0.0057u	-0.0119u
Ca 370.602	6456	6427	6406
Cd 226.502	-0.1422u	-0.1775u	0.0459
Co 228.615	-0.2862u	0.3698	0.1080
Cr 267.716	-0.0929u	-0.1084u	-0.1683u
Cu 324.754	-0.3708u	-0.2142u	-0.6956u
Fe 271.441	-5.8945u	3.5677	0.9684
K 766.491	772.708	773.232	772.801
Mg 279.078	2070.39	2066.02	2058.51
Mn 257.610	-0.0552u	-0.1364u	-0.1389u
Mo 202.032	0.0546	0.7508	0.3272
Na 330.237	3617.84	3590.40	3526.72
Ni 231.604	-0.4630u	1.4260	1.3242
Pb 220.353	2.3825	0.4375	0.0596
Sb 206.834	3.1911	2.3329	6.3987
Se 196.026	-7.1594u	-5.6785u	-3.9331u
Sn 189.925	-0.1185u	0.9878	1.0181
Sr 216.596	27.9958	27.7525	28.3268
Ti 334.941	0.0675	0.1382	0.0747
Tl 190.794	3.2832	0.9990	-1.5234u
V 292.401	-0.2883u	-0.0247u	-0.3322u
Zn 206.200	0.7285	-0.2543u	1.1066

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0127	ppb	0.4238	3340.2	-54.5850
Al 308.215	0.1017	ppb	2.5098	2468.5	266.688
As 188.980	3.9401	ppb	2.6831	68.1	0.2533
B 249.678	5.9058	ppb	0.7171	12.1	100.518
Ba 389.178	7.1328	ppb	0.0522	0.7	169.023
Be 313.042	-0.0109	ppb	0.0047	43.6	-291.708
Ca 370.602	6430	ppb	25.30	0.4	23618
Cd 226.502	-0.0913	ppb	0.1201	131.6	5.3362
Co 228.615	0.0639	ppb	0.3302	516.7	15.0624
Cr 267.716	-0.1232	ppb	0.0398	32.3	1.9646
Cu 324.754	-0.4268	ppb	0.2456	57.5	143.377
Fe 271.441	-0.4528	ppb	4.8886	1079.6	6.0042
K 766.491	772.914	ppb	0.2799	0.0	47565.4
Mg 279.078	2064.98	ppb	6.0065	0.3	4542.93
Mn 257.610	-0.1102	ppb	0.0476	43.2	54.1206
Mo 202.032	0.3775	ppb	0.3508	92.9	12.4932
Na 330.237	3578.32	ppb	46.7430	1.3	185.822
Ni 231.604	0.7624	ppb	1.0624	139.3	0.6410
Pb 220.353	0.9599	ppb	1.2464	129.9	2.3247
Sb 206.834	3.9742	ppb	2.1431	53.9	0.9222
Se 196.026	-5.5903	ppb	1.6150	28.9	-2.0061
Sn 189.925	0.6291	ppb	0.6476	102.9	0.1201
Sr 216.596	28.0251	ppb	0.2883	1.0	309.395
Ti 334.941	0.0935	ppb	0.0389	41.6	-83.6876
Tl 190.794	0.9196	ppb	2.4043	261.5	0.0492
V 292.401	-0.2150	ppb	0.1663	77.3	-2.8934
Zn 206.200	0.5269	ppb	0.7925	153.3	2.6115

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

400-73138-j-1-dPDS (Samp) **3/21/2013, 3:33:32 PM** **Rack 1, Tube 55**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	53.1993	52.7260	53.2773
Al 308.215	2059.18	2063.49	2059.58
As 188.980	2266.16	2262.44	2261.83
B 249.678	1092.93	1098.57	1102.74
Ba 389.178	2191.46	2193.56	2191.23
Be 313.042	53.1414	53.2498	53.1830
Ca 370.602	37162	37262	37258
Cd 226.502	54.3580	54.1317	54.1775
Co 228.615	533.649	534.525	534.979
Cr 267.716	217.242	217.868	217.500
Cu 324.754	263.102	261.858	263.244
Fe 271.441	1059.49	1060.48	1054.76
K 766.491	9247.14	9230.45	9211.60
Mg 279.078	15660.6	15640.2	15633.5
Mn 257.610	541.876	540.910	541.273
Mo 202.032	541.588	545.649	545.038
Na 330.237	22926.1	22619.3	22881.3
Ni 231.604	541.575	540.466	543.092
Pb 220.353	550.841	554.840	555.455
Sb 206.834	538.001	537.058	543.153
Se 196.026	2080.63	2084.06	2090.81
Sn 189.925	1091.91	1091.82	1093.99
Sr 216.596	694.089	694.447	695.617
Ti 334.941	1076.57	1079.02	1078.37
Tl 190.794	2260.19	2256.24	2267.44
V 292.401	528.462	527.606	526.590
Zn 206.200	538.029	533.204	541.834

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.0675	ppb	0.2983	0.6	3708.97
Al 308.215	2060.75	ppb	2.3828	0.1	12367.2
As 188.980	2263.48	ppb	2.3445	0.1	1409.65
B 249.678	1098.08	ppb	4.9271	0.4	10436.7
Ba 389.178	2192.08	ppb	1.2831	0.1	57947.0
Be 313.042	53.1914	ppb	0.0547	0.1	109942
Ca 370.602	37227	ppb	56.30	0.2	136902
Cd 226.502	54.2224	ppb	0.1196	0.2	2151.43
Co 228.615	534.384	ppb	0.6758	0.1	6842.63
Cr 267.716	217.537	ppb	0.3142	0.1	9947.58
Cu 324.754	262.735	ppb	0.7629	0.3	13953.5
Fe 271.441	1058.24	ppb	3.0608	0.3	1948.26
K 766.491	9229.73	ppb	17.7833	0.2	564660
Mg 279.078	15644.8	ppb	14.1255	0.1	34212.9
Mn 257.610	541.353	ppb	0.4878	0.1	128027
Mo 202.032	544.091	ppb	2.1897	0.4	4000.19
Na 330.237	22808.9	ppb	165.745	0.7	1204.56
Ni 231.604	541.711	ppb	1.3183	0.2	1437.91
Pb 220.353	553.712	ppb	2.5051	0.5	945.425
Sb 206.834	539.404	ppb	3.2806	0.6	537.891
Se 196.026	2085.17	ppb	5.1833	0.2	977.520
Sn 189.925	1092.57	ppb	1.2273	0.1	1013.87
Sr 216.596	694.718	ppb	0.7990	0.1	7491.08
Ti 334.941	1077.98	ppb	1.2696	0.1	323324
Tl 190.794	2261.29	ppb	5.6793	0.3	1709.01
V 292.401	527.553	ppb	0.9372	0.2	15765.1
Zn 206.200	537.689	ppb	4.3248	0.8	733.783

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88397-a-4-a (Samp) 3/21/2013, 3:38:57 PM Rack 1, Tube 56
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8966u	-1.2753u	-1.1868u
Al 308.215	9.1698	11.0022	10.5344
As 188.980	6.3673	8.1783	0.1083
B 249.678	659.599	663.294	662.075
Ba 389.178	27.0820	28.4882	27.7334
Be 313.042	-0.0333u	-0.0353u	-0.0396u
Ca 370.602	231313	232614	232490
Cd 226.502	-0.2175u	-0.0013u	0.0969
Co 228.615	0.0132	-0.3271u	-0.2425u
Cr 267.716	318.293	320.475	319.500
Cu 324.754	39.8894	40.0018	39.6749
Fe 271.441	44.6443	51.6494	46.1242
K 766.491	8665.41	8678.57	8664.55
Mg 279.078	41227.6	41288.7	41244.0
Mn 257.610	-0.4318	-0.4082	-0.4399
Mo 202.032	3.1957	3.0336	4.1587
Na 330.237	196735x	197278x	197032x
Ni 231.604	3.9202	4.6685	5.0491
Pb 220.353	6.7270	5.9670	3.7105
Sb 206.834	3.0923	2.9300	4.7072
Se 196.026	32.8371	15.8357	24.0803
Sn 189.925	0.3449	1.6350	2.0415
Sr 216.596	2173.78	2184.69	2182.05
Ti 334.941	0.6375	0.5687	0.5396
Tl 190.794	-7.1712u	0.3963	-3.1363u
V 292.401	29.5856	29.9629	29.6372
Zn 206.200	204.949	203.596	202.326

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1196b	ppb	0.1981	17.7	-223.787
Al 308.215	10.2355b	ppb	0.9520	9.3	325.724
As 188.980	4.8846b	ppb	4.2343	86.7	2.7005
B 249.678	661.656b	ppb	1.8824	0.3	6307.05
Ba 389.178	27.7679b	ppb	0.7037	2.5	831.917
Be 313.042	-0.0360b	ppb	0.0032	8.9	-289.182
Ca 370.602	232139b	ppb	718.1	0.3	852812
Cd 226.502	-0.0406b	ppb	0.1609	395.9	6.8254
Co 228.615	-0.1855b	ppb	0.1772	95.5	12.9085
Cr 267.716	319.422b	ppb	1.0930	0.3	14607.0
Cu 324.754	39.8554b	ppb	0.1661	0.4	2255.50
Fe 271.441	47.4726b	ppb	3.6921	7.8	90.6846
K 766.491	8669.51b	ppb	7.8582	0.1	530405
Mg 279.078	41253.4b	ppb	31.5920	0.1	90191.4
Mn 257.610	-0.4267b	ppb	0.0165	3.9	178.308
Mo 202.032	3.4627b	ppb	0.6082	17.6	35.0679
Na 330.237	197015xb	ppb	271.953	0.1	10561.7
Ni 231.604	4.5459b	ppb	0.5743	12.6	10.6947
Pb 220.353	5.4682b	ppb	1.5689	28.7	10.0238
Sb 206.834	3.5765b	ppb	0.9826	27.5	3.5288
Se 196.026	24.2510b	ppb	8.5020	35.1	11.9727
Sn 189.925	1.3405b	ppb	0.8858	66.1	0.9602
Sr 216.596	2180.17b	ppb	5.6897	0.3	23596.1
Ti 334.941	0.5819b	ppb	0.0503	8.6	237.111
Tl 190.794	-3.3038b	ppb	3.7865	114.6	-3.1366
V 292.401	29.7285b	ppb	0.2046	0.7	875.586
Zn 206.200	203.623b	ppb	1.3116	0.6	278.452

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

680-88397-a-4-b ms (Samp) 3/21/2013, 3:44:22 PM Rack 1, Tube 57

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	14.6215	14.6170	14.8928
Al 308.215	2205.99	2220.95	2208.67
As 188.980	53.1808	56.7026	48.5997
B 249.678	730.995	738.789	737.807
Ba 389.178	69.5931	70.8564	70.5353
Be 313.042	22.2745	22.3775	22.2829
Ca 370.602	230071	233030	230757
Cd 226.502	22.0818	22.0822	22.1124
Co 228.615	21.3080	21.7901	21.0568
Cr 267.716	359.454	361.995	360.319
Cu 324.754	92.7878	92.9866	93.0640
Fe 271.441	2184.40	2188.58	2177.41
K 766.491	10895.7	10887.0	10826.2
Mg 279.078	42779.2	43055.0	42726.2
Mn 257.610	220.181	221.373	220.140
Mo 202.032	45.2261	46.7895	46.3686
Na 330.237	195959x	197386x	196670x
Ni 231.604	44.4661	45.1123	44.9394
Pb 220.353	27.2138	27.7106	28.1670
Sb 206.834	24.3841	25.6216	21.9906
Se 196.026	81.7733	57.6666	82.7803
Sn 189.925	84.3555	88.3518	84.8715
Sr 216.596	2189.80	2207.19	2192.57
Ti 334.941	44.1154	44.3482	44.1473
Tl 190.794	12.1682	22.9606	14.7391
V 292.401	73.4706	73.5550	73.3753
Zn 206.200	195.001	195.360	193.558

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	14.7105b	ppb	0.1579	1.1	906.197
Al 308.215	2211.87b	ppb	7.9763	0.4	13192.0
As 188.980	52.8277b	ppb	4.0630	7.7	32.5646
B 249.678	735.864b	ppb	4.2447	0.6	7007.39
Ba 389.178	70.3283b	ppb	0.6566	0.9	1965.06
Be 313.042	22.3116b	ppb	0.0572	0.3	46050.2
Ca 370.602	231286b	ppb	1548	0.7	849493
Cd 226.502	22.0921b	ppb	0.0175	0.1	885.709
Co 228.615	21.3850b	ppb	0.3727	1.7	287.777
Cr 267.716	360.589b	ppb	1.2918	0.4	16489.1
Cu 324.754	92.9461b	ppb	0.1425	0.2	5040.93
Fe 271.441	2183.46b	ppb	5.6396	0.3	3827.52
K 766.491	10869.6b	ppb	37.8890	0.3	664931
Mg 279.078	42853.4b	ppb	176.526	0.4	93684.3
Mn 257.610	220.564b	ppb	0.7006	0.3	52393.6
Mo 202.032	46.1281b	ppb	0.8090	1.8	347.875
Na 330.237	196672xb	ppb	713.744	0.4	10542.3
Ni 231.604	44.8393b	ppb	0.3345	0.7	117.796
Pb 220.353	27.6971b	ppb	0.4767	1.7	47.9265
Sb 206.834	23.9988b	ppb	1.8459	7.7	24.2346
Se 196.026	74.0734b	ppb	14.2176	19.2	35.3497
Sn 189.925	85.8596b	ppb	2.1737	2.5	79.4248
Sr 216.596	2196.52b	ppb	9.3451	0.4	23771.4
Ti 334.941	44.2036b	ppb	0.1262	0.3	13330.8
Tl 190.794	16.6226b	ppb	5.6373	33.9	11.6151
V 292.401	73.4669b	ppb	0.0899	0.1	2180.56
Zn 206.200	194.640b	ppb	0.9540	0.5	256.110

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88397-a-4-c msd (Samp) 3/21/2013, 3:49:48 PM Rack 1, Tube 58
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	14.7408	14.9073	14.7895
Al 308.215	2216.32	2221.25	2216.42
As 188.980	48.9338	52.6598	52.1069
B 249.678	743.521	748.921	752.749
Ba 389.178	71.9188	71.3985	72.5370
Be 313.042	22.3550	22.4280	22.3883
Ca 370.602	235194	235653	235172
Cd 226.502	22.3074	22.4628	22.2092
Co 228.615	21.6767	22.3545	21.1834
Cr 267.716	365.075	365.789	366.792
Cu 324.754	96.3413	96.8673	96.2202
Fe 271.441	2162.46	2189.36	2177.48
K 766.491	11085.4	11119.1	11074.0
Mg 279.078	43528.7	43603.2	43592.4
Mn 257.610	220.669	221.369	221.440
Mo 202.032	46.5143	46.5325	46.7454
Na 330.237	200031x	200435x	200031x
Ni 231.604	47.2175	47.8017	45.5386
Pb 220.353	27.5275	28.8943	27.8765
Sb 206.834	26.3743	27.2670	27.8980
Se 196.026	78.4362	71.5021	77.3665
Sn 189.925	87.4313	83.2948	87.8806
Sr 216.596	2235.81	2236.20	2229.75
Ti 334.941	44.1765	44.2175	43.9582
Tl 190.794	16.9680	21.1275	16.5148
V 292.401	73.6950	73.8409	73.7737
Zn 206.200	166.101	166.020	165.348

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	14.8125b	ppb	0.0856	0.6	911.969
Al 308.215	2218.00b	ppb	2.8195	0.1	13227.8
As 188.980	51.2335b	ppb	2.0107	3.9	31.6032
B 249.678	748.397b	ppb	4.6361	0.6	7126.02
Ba 389.178	71.9514b	ppb	0.5700	0.8	2010.17
Be 313.042	22.3904b	ppb	0.0366	0.2	46214.5
Ca 370.602	235339b	ppb	271.4	0.1	864385
Cd 226.502	22.3264b	ppb	0.1279	0.6	894.930
Co 228.615	21.7382b	ppb	0.5879	2.7	292.289
Cr 267.716	365.886b	ppb	0.8626	0.2	16731.1
Cu 324.754	96.4763b	ppb	0.3440	0.4	5226.05
Fe 271.441	2176.43b	ppb	13.4809	0.6	3815.30
K 766.491	11092.8b	ppb	23.4791	0.2	678578
Mg 279.078	43574.8b	ppb	40.2677	0.1	95260.8
Mn 257.610	221.159b	ppb	0.4264	0.2	52537.9
Mo 202.032	46.5974b	ppb	0.1285	0.3	351.318
Na 330.237	200166xb	ppb	233.336	0.1	10730.0
Ni 231.604	46.8526b	ppb	1.1748	2.5	123.145
Pb 220.353	28.0994b	ppb	0.7101	2.5	48.6134
Sb 206.834	27.1798b	ppb	0.7656	2.8	27.4946
Se 196.026	75.7683b	ppb	3.7331	4.9	36.1438
Sn 189.925	86.2022b	ppb	2.5279	2.9	79.7460
Sr 216.596	2233.92b	ppb	3.6173	0.2	24176.0
Ti 334.941	44.1174b	ppb	0.1394	0.3	13308.3
Tl 190.794	18.2034b	ppb	2.5424	14.0	12.8103
V 292.401	73.7699b	ppb	0.0730	0.1	2189.29
Zn 206.200	165.823b	ppb	0.4134	0.2	436.843

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

Cont Calib Verif (CCV) 3/21/2013, 3:58:30 PM Rack 2, Tube 1
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	523.890	520.888	522.076
Al 308.215	5108.07	5112.73	5124.27
As 188.980	443.859	451.925	448.133
B 249.678	2541.09	2574.53	2592.92
Ba 389.178	5088.87	5092.33	5093.08
Be 313.042	514.111	514.462	514.310
Ca 370.602	5207	5211	5210
Cd 226.502	510.777	512.520	514.097
Co 228.615	507.744	507.196	507.973
Cr 267.716	5260.07	5256.76	5269.08
Cu 324.754	5048.93	4889.27	5102.43
Fe 271.441	5092.48	5097.09	5103.86
K 766.491	9993.30	10035.7	10006.2
Mg 279.078	5124.58	5120.45	5132.41
Mn 257.610	5120.72	5124.08	5135.33
Mo 202.032	512.583	511.426	513.327
Na 330.237	7626.97	7508.15	7619.88
Ni 231.604	2588.04	2591.03	2594.23
Pb 220.353	523.699	528.652	526.268
Sb 206.834	932.553	946.206	948.389
Se 196.026	4848.43	4883.71	4897.36
Sn 189.925	5269.14	5279.67	5252.03
Sr 216.596	2646.52	2644.95	2644.42
Ti 334.941	521.446	521.721	522.069
Tl 190.794	5248.02	5246.61	5241.83
V 292.401	5069.95	5079.54	5082.00
Zn 206.200	2553.19	2578.46	2576.67

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	522.285	ppb	1.5119	0.3	37156.5	104.45695
Al 308.215	5115.02	ppb	8.3357	0.2	30122.3	102.30048
As 188.980	447.972	ppb	4.0353	0.9	277.004	89.59450Q
B 249.678	2569.51	ppb	26.2795	1.0	24359.7	102.78049
Ba 389.178	5091.43	ppb	2.2454	0.0	134540	101.82854
Be 313.042	514.294	ppb	0.1763	0.0	1066076	102.85887
Ca 370.602	5209	ppb	2.060	0.0	18974	104.17945
Cd 226.502	512.465	ppb	1.6605	0.3	20243.6	102.49290
Co 228.615	507.638	ppb	0.3991	0.1	6501.04	101.52753
Cr 267.716	5261.97	ppb	6.3757	0.1	240431	105.23936
Cu 324.754	5013.54	ppb	110.899	2.2	263031	100.27084
Fe 271.441	5097.81	ppb	5.7215	0.1	9047.13	101.95621
K 766.491	10011.7	ppb	21.7146	0.2	612475	100.11728
Mg 279.078	5125.81	ppb	6.0734	0.1	11146.8	102.51626
Mn 257.610	5126.71	ppb	7.6539	0.1	1211113	102.53424
Mo 202.032	512.445	ppb	0.9576	0.2	3759.16	102.48906
Na 330.237	7585.00	ppb	66.6475	0.9	375.240	101.13337
Ni 231.604	2591.10	ppb	3.0992	0.1	6883.04	103.64407
Pb 220.353	526.206	ppb	2.4773	0.5	899.743	105.24129
Sb 206.834	942.383	ppb	8.5820	0.9	997.875	94.23827
Se 196.026	4876.50	ppb	25.2529	0.5	2286.16	97.53002
Sn 189.925	5266.95	ppb	13.9478	0.3	4889.21	105.33893
Sr 216.596	2645.29	ppb	1.0926	0.0	28541.8	105.81171
Ti 334.941	521.745	ppb	0.3125	0.1	156416	104.34910
Tl 190.794	5245.49	ppb	3.2459	0.1	3962.23	104.90974
V 292.401	5077.16	ppb	6.3669	0.1	152329	101.54324
Zn 206.200	2569.44	ppb	14.0976	0.5	3488.71	102.77752

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

Cont Calib Blank (CCB) 3/21/2013, 4:03:55 PM Rack 2, Tube 2
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0473u	-0.5482u	-1.0201u
Al 308.215	-2.3141u	-5.1229u	-0.3848u
As 188.980	5.6683	4.5592	5.2233
B 249.678	29.4859	25.4922	24.0349
Ba 389.178	0.4909	0.5900	0.4905
Be 313.042	0.0685	0.0660	0.0601
Ca 370.602	5.996	3.345	9.677
Cd 226.502	0.1471	-0.0339u	0.2208
Co 228.615	-0.2700u	-0.4372u	-0.3335u
Cr 267.716	0.7090	0.6851	0.4872
Cu 324.754	0.7753	0.8019	0.3867
Fe 271.441	0.0618	-0.9659u	3.1497
K 766.491	-0.6584u	0.2044	-0.6821u
Mg 279.078	-1.2520u	-2.2986u	-0.2125u
Mn 257.610	0.7502	0.7202	0.6781
Mo 202.032	1.1735	0.6626	0.6188
Na 330.237	-44.6083u	-68.7951u	-145.096u
Ni 231.604	3.0388	0.6159	0.6412
Pb 220.353	3.1512	4.8805	-1.5101u
Sb 206.834	0.3726	7.6155	4.5996
Se 196.026	4.2006	0.2011	1.4800
Sn 189.925	-0.9595u	2.1363	-0.5383u
Sr 216.596	0.1429	0.1045	0.6389
Ti 334.941	0.2250	0.2642	0.2760
Tl 190.794	1.9251	3.1452	-1.8149u
V 292.401	1.0332	1.0521	0.6744
Zn 206.200	-0.2315u	0.2023	0.3624

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.5386	ppb	0.4865	90.3	-92.7684	-0.53857
Al 308.215	-2.6072	ppb	2.3826	91.4	250.865	-2.60724
As 188.980	5.1503	ppb	0.5581	10.8	0.9551	5.15028
B 249.678	26.3377	ppb	2.8221	10.7	293.900	26.33767
Ba 389.178	0.5238	ppb	0.0573	10.9	-11.7870	0.52380
Be 313.042	0.0649	ppb	0.0043	6.7	-136.400	0.06489
Ca 370.602	6.339	ppb	3.180	50.2	20.60	6.33897
Cd 226.502	0.1113	ppb	0.1310	117.7	13.3272	0.11132
Co 228.615	-0.3469	ppb	0.0844	24.3	9.8215	-0.34688
Cr 267.716	0.6271	ppb	0.1217	19.4	36.1822	0.62710
Cu 324.754	0.6546	ppb	0.2324	35.5	200.081	0.65463
Fe 271.441	0.7486	ppb	2.1420	286.1	8.1260	0.74857
K 766.491	-0.3787	ppb	0.5051	133.4	282.228	-0.37874
Mg 279.078	-1.2544	ppb	1.0430	83.2	27.0681	-1.25440
Mn 257.610	0.7161	ppb	0.0362	5.1	238.872	0.71614
Mo 202.032	0.8183	ppb	0.3084	37.7	15.7247	0.81830
Na 330.237	-86.1665	ppb	52.4477	60.9	-10.7690	-86.16645
Ni 231.604	1.4320	ppb	1.3917	97.2	2.4199	1.43197
Pb 220.353	2.1739	ppb	3.3055	152.1	4.3991	2.17387
Sb 206.834	4.1959	ppb	3.6383	86.7	1.1517	4.19591
Se 196.026	1.9606	ppb	2.0426	104.2	1.5312	1.96059
Sn 189.925	0.2128	ppb	1.6791	789.0	-0.2708	0.21281
Sr 216.596	0.2954	ppb	0.2981	100.9	8.9952	0.29541
Ti 334.941	0.2551	ppb	0.0267	10.5	-44.9590	0.25505
Tl 190.794	1.0851	ppb	2.5846	238.2	0.1739	1.08512
V 292.401	0.9199	ppb	0.2128	23.1	31.1799	0.91989
Zn 206.200	0.1111	ppb	0.3973	354.6	2.0432	0.11108

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

680-88363-a-1-a^10 (Samp) **3/21/2013, 4:09:19 PM** **Rack 2, Tube 3**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	19.9185	21.3304	19.3901
Al 308.215	238.899	235.505	237.627
As 188.980	-0.7339u	7.5277	3.4984
B 249.678	14.4977	13.8173	14.2255
Ba 389.178	3.4510	2.3981	3.1610
Be 313.042	0.0092	-0.0010u	0.0084
Ca 370.602	2224	2220	2210
Cd 226.502	920.456	920.042	914.752
Co 228.615	-0.1162	-0.6433u	-0.0879
Cr 267.716	696.320	695.355	690.847
Cu 324.754	17.9607	17.5053	17.7784
Fe 271.441	145.093	148.831	142.838
K 766.491	356.870	357.774	357.443
Mg 279.078	239.667	242.806	240.756
Mn 257.610	2.1413	2.1337	2.1965
Mo 202.032	0.1768	0.1861	0.2791
Na 330.237	1436.98	1478.54	1420.26
Ni 231.604	17.2650	16.3749	16.8124
Pb 220.353	-0.0882u	4.2752	2.4833
Sb 206.834	4.0703	4.6093	6.9521
Se 196.026	-6.2786u	-3.9347u	-1.1049u
Sn 189.925	0.6984	-1.1743u	-0.5533u
Sr 216.596	11.6330	11.8174	11.3741
Ti 334.941	98.6066	98.4455	97.7601
Tl 190.794	2.3698	6.3916	2.2025
V 292.401	3.4266	4.2648	3.8636
Zn 206.200	74.3490	72.4901	72.9402

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	20.2130	ppb	1.0031	5.0	1387.44
Al 308.215	237.344	ppb	1.7146	0.7	1652.50
As 188.980	3.4308	ppb	4.1312	120.4	-0.1003
B 249.678	14.1801	ppb	0.3425	2.4	178.697
Ba 389.178	3.0033	ppb	0.5438	18.1	54.6831
Be 313.042	0.0055	ppb	0.0057	102.2	-258.848
Ca 370.602	2218	ppb	6.812	0.3	8153
Cd 226.502	918.416	ppb	3.1802	0.3	36249.0
Co 228.615	-0.2825	ppb	0.3128	110.8	15.7642
Cr 267.716	694.174	ppb	2.9214	0.4	31720.4
Cu 324.754	17.7481	ppb	0.2292	1.3	1096.45
Fe 271.441	145.587	ppb	3.0267	2.1	262.704
K 766.491	357.362	ppb	0.4571	0.1	22156.4
Mg 279.078	241.076	ppb	1.5941	0.7	556.623
Mn 257.610	2.1572	ppb	0.0343	1.6	580.893
Mo 202.032	0.2140	ppb	0.0565	26.4	11.2815
Na 330.237	1445.26	ppb	30.0106	2.1	70.0226
Ni 231.604	16.8175	ppb	0.4451	2.6	43.3013
Pb 220.353	2.2234	ppb	2.1933	98.6	4.4273
Sb 206.834	5.2106	ppb	1.5321	29.4	8.8012
Se 196.026	-3.7727	ppb	2.5907	68.7	-1.1551
Sn 189.925	-0.3431	ppb	0.9539	278.0	-0.7853
Sr 216.596	11.6082	ppb	0.2227	1.9	131.322
Ti 334.941	98.2707	ppb	0.4495	0.5	29358.6
Tl 190.794	3.6546	ppb	2.3717	64.9	2.1108
V 292.401	3.8517	ppb	0.4192	10.9	76.1565
Zn 206.200	73.2598	ppb	0.9698	1.3	99.9061

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88363-a-1-a^100 (Samp) 3/21/2013, 4:14:44 PM Rack 2, Tube 4

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.1849	2.6986	2.0624
Al 308.215	22.2105	20.7652	24.0207
As 188.980	4.0722	3.1972	9.5324
B 249.678	3.9190	4.5700	3.2695
Ba 389.178	-0.2381u	0.0257	0.4900
Be 313.042	-0.0037u	-0.0105u	-0.0035u
Ca 370.602	220.5	222.2	228.0
Cd 226.502	91.0865	90.6910	91.4634
Co 228.615	0.1919	0.3351	0.4482
Cr 267.716	68.1941	68.4637	68.6847
Cu 324.754	1.3531	1.2901	1.1793
Fe 271.441	10.6013	13.6113	8.8588
K 766.491	33.8813	34.7225	34.5240
Mg 279.078	22.2819	25.2488	20.9037
Mn 257.610	0.1862	0.1920	0.1786
Mo 202.032	-0.0723u	0.1194	0.7750
Na 330.237	183.899	241.518	100.309
Ni 231.604	2.8920	2.5970	2.9804
Pb 220.353	-0.7209u	-1.8603u	3.7225
Sb 206.834	1.1338	5.0157	0.4009
Se 196.026	-3.7645u	3.9230	1.8498
Sn 189.925	-0.7840u	2.2188	0.6660
Sr 216.596	0.9150	1.8716	1.4254
Ti 334.941	9.7497	9.8163	9.7936
Tl 190.794	-0.0249u	2.7938	-1.8157u
V 292.401	-0.0155u	0.7465	0.6469
Zn 206.200	7.8544	6.0953	6.8921

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.9820	ppb	0.7600	38.3	87.0498
Al 308.215	22.3321	ppb	1.6312	7.3	396.494
As 188.980	5.6006	ppb	3.4331	61.3	1.2379
B 249.678	3.9195	ppb	0.6502	16.6	81.7078
Ba 389.178	0.0925	ppb	0.3686	398.3	-23.1014
Be 313.042	-0.0059	ppb	0.0040	67.7	-283.048
Ca 370.602	223.6	ppb	3.907	1.7	819.9
Cd 226.502	91.0803	ppb	0.3862	0.4	3602.88
Co 228.615	0.3251	ppb	0.1285	39.5	18.9116
Cr 267.716	68.4475	ppb	0.2457	0.4	3134.50
Cu 324.754	1.2742	ppb	0.0880	6.9	232.563
Fe 271.441	11.0238	ppb	2.4043	21.8	26.2932
K 766.491	34.3759	ppb	0.4397	1.3	2407.31
Mg 279.078	22.8115	ppb	2.2204	9.7	79.6676
Mn 257.610	0.1856	ppb	0.0067	3.6	113.691
Mo 202.032	0.2740	ppb	0.4443	162.1	11.7326
Na 330.237	175.242	ppb	71.0017	40.5	3.1269
Ni 231.604	2.8231	ppb	0.2008	7.1	6.1163
Pb 220.353	0.3804	ppb	2.9498	775.4	1.3294
Sb 206.834	2.1834	ppb	2.4800	113.6	-0.2303
Se 196.026	0.6694	ppb	3.9774	594.1	0.9262
Sn 189.925	0.7002	ppb	1.5017	214.5	0.1819
Sr 216.596	1.4040	ppb	0.4787	34.1	21.0003
Ti 334.941	9.7865	ppb	0.0338	0.3	2814.37
Tl 190.794	0.3177	ppb	2.3237	731.4	-0.4060
V 292.401	0.4593	ppb	0.4142	90.2	13.1917
Zn 206.200	6.9473	ppb	0.8898	12.7	41.1813

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88363-a-3-a (Samp) 3/21/2013, 4:20:09 PM Rack 2, Tube 5
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.6264	0.8696	1.6984
Al 308.215	30.8319	32.8003	32.3114
As 188.980	9.0929	-1.8457u	-3.4526u
B 249.678	56.8319	57.4922	57.9160
Ba 389.178	25.2666	26.4857	26.7195
Be 313.042	-0.0147u	-0.0150u	-0.0143u
Ca 370.602	13554	13544	13571
Cd 226.502	90.1150	90.0252	89.8098
Co 228.615	-0.1179u	0.2556	0.0546
Cr 267.716	25.9108	26.1600	26.1422
Cu 324.754	3.7812	2.4840	3.3107
Fe 271.441	28.8034	26.7667	25.7958
K 766.491	3613.30	3605.98	3604.20
Mg 279.078	2306.45	2307.89	2310.08
Mn 257.610	4.7240	4.7434	4.7252
Mo 202.032	0.6366	0.2372	0.5383
Na 330.237	13618.5	13694.4	13700.1
Ni 231.604	5.0707	5.2530	3.2357
Pb 220.353	1.9397	0.1742	1.3324
Sb 206.834	2.6506	7.8930	0.4485
Se 196.026	0.8252	-11.4713u	-0.2781u
Sn 189.925	2.5034	3.1360	1.7275
Sr 216.596	97.2486	96.5424	97.0155
Ti 334.941	6.9874	7.0814	7.0687
Tl 190.794	3.1751	-0.3458u	2.4319
V 292.401	0.2717	0.2609	0.1301
Zn 206.200	6.9170	6.6959	8.6965

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.0648	ppb	0.5620	52.8	17.6849
Al 308.215	31.9812	ppb	1.0249	3.2	452.949
As 188.980	1.2649	ppb	6.8267	539.7	-1.3566
B 249.678	57.4134	ppb	0.5463	1.0	588.012
Ba 389.178	26.1573	ppb	0.7802	3.0	672.458
Be 313.042	-0.0147	ppb	0.0004	2.4	-298.448
Ca 370.602	13556	ppb	13.54	0.1	49800
Cd 226.502	89.9833	ppb	0.1568	0.2	3559.58
Co 228.615	0.0641	ppb	0.1869	291.6	15.3401
Cr 267.716	26.0710	ppb	0.1390	0.5	1198.32
Cu 324.754	3.1920	ppb	0.6567	20.6	333.152
Fe 271.441	27.1220	ppb	1.5349	5.7	54.2627
K 766.491	3607.83	ppb	4.8211	0.1	220907
Mg 279.078	2308.14	ppb	1.8289	0.1	5074.30
Mn 257.610	4.7309	ppb	0.0108	0.2	1198.96
Mo 202.032	0.4707	ppb	0.2081	44.2	13.1750
Na 330.237	13671.0	ppb	45.5869	0.3	727.156
Ni 231.604	4.5198	ppb	1.1158	24.7	10.6245
Pb 220.353	1.1488	ppb	0.8970	78.1	2.6439
Sb 206.834	3.6640	ppb	3.8244	104.4	0.8545
Se 196.026	-3.6414	ppb	6.8033	186.8	-1.0922
Sn 189.925	2.4557	ppb	0.7055	28.7	1.8230
Sr 216.596	96.9355	ppb	0.3599	0.4	1054.96
Ti 334.941	7.0458	ppb	0.0510	0.7	2002.19
Tl 190.794	1.7537	ppb	1.8558	105.8	0.6739
V 292.401	0.2209	ppb	0.0788	35.7	8.4985
Zn 206.200	7.4364	ppb	1.0968	14.7	41.9565

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88363-a-2-a (Samp) 3/21/2013, 4:25:33 PM Rack 2, Tube 6
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	5.2766	6.0634	6.1995
Al 308.215	65.9505	65.1107	65.1378
As 188.980	1.7283	0.1870	-3.1557u
B 249.678	55.2959	54.4465	55.2757
Ba 389.178	25.0789	24.7523	25.4749
Be 313.042	-0.0092u	-0.0148u	-0.0095u
Ca 370.602	13515	13548	13529
Cd 226.502	268.861	269.596	269.205
Co 228.615	0.4485	0.4739	-0.3975u
Cr 267.716	113.216	113.701	113.900
Cu 324.754	5.5152	5.4393	5.3062
Fe 271.441	74.6330	75.6660	72.8775
K 766.491	3537.57	3529.63	3508.49
Mg 279.078	2280.64	2285.65	2285.83
Mn 257.610	3.8871	3.8437	3.8931
Mo 202.032	0.9711	0.2940	0.8837
Na 330.237	11563.9	11206.7	11424.7
Ni 231.604	6.2073	6.2268	5.6419
Pb 220.353	1.0177	4.7970	4.9799
Sb 206.834	5.7641	5.7562	3.9344
Se 196.026	-2.7137u	-5.9073u	-5.1511u
Sn 189.925	-0.4941u	-5.0962u	2.3929
Sr 216.596	94.8433	94.1302	95.2559
Ti 334.941	20.6212	20.7172	20.6221
Tl 190.794	-3.3457u	2.0232	2.3023
V 292.401	0.9614	1.0285	1.0693
Zn 206.200	19.4437	19.7467	21.0539

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	5.8465	ppb	0.4982	8.5	358.928
Al 308.215	65.3997	ppb	0.4772	0.7	648.157
As 188.980	-0.4135	ppb	2.4968	603.8	-2.4037
B 249.678	55.0060	ppb	0.4846	0.9	565.180
Ba 389.178	25.1020	ppb	0.3618	1.4	644.593
Be 313.042	-0.0112	ppb	0.0031	28.0	-290.985
Ca 370.602	13531	ppb	16.42	0.1	49703
Cd 226.502	269.221	ppb	0.3677	0.1	10632.2
Co 228.615	0.1750	ppb	0.4960	283.5	17.4357
Cr 267.716	113.606	ppb	0.3516	0.3	5196.66
Cu 324.754	5.4202	ppb	0.1058	2.0	450.008
Fe 271.441	74.3922	ppb	1.4098	1.9	137.081
K 766.491	3525.23	ppb	15.0274	0.4	215856
Mg 279.078	2284.04	ppb	2.9475	0.1	5021.64
Mn 257.610	3.8746	ppb	0.0269	0.7	996.756
Mo 202.032	0.7163	ppb	0.3683	51.4	14.9727
Na 330.237	11398.4	ppb	180.027	1.6	605.017
Ni 231.604	6.0253	ppb	0.3322	5.5	14.6256
Pb 220.353	3.5982	ppb	2.2367	62.2	6.8211
Sb 206.834	5.1516	ppb	1.0541	20.5	3.1969
Se 196.026	-4.5907	ppb	1.6689	36.4	-1.5374
Sn 189.925	-1.0658	ppb	3.7772	354.4	-1.4470
Sr 216.596	94.7431	ppb	0.5695	0.6	1031.26
Ti 334.941	20.6535	ppb	0.0552	0.3	6084.27
Tl 190.794	0.3266	ppb	3.1834	974.7	-0.4060
V 292.401	1.0197	ppb	0.0545	5.3	27.1029
Zn 206.200	20.0814	ppb	0.8557	4.3	28.9565

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88370-e-1-a^10 (Samp) **3/21/2013, 4:30:58 PM** **Rack 2, Tube 7**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.5905u	-0.4553u	0.4196
Al 308.215	5.8155	5.1705	7.2451
As 188.980	1.3920	1.4123	-2.5901u
B 249.678	10.8881	11.0609	9.9842
Ba 389.178	0.5800	0.8422	0.8268
Be 313.042	-0.0221u	-0.0095u	-0.0079u
Ca 370.602	6884	6872	6865
Cd 226.502	0.0881	0.0638	-0.1953u
Co 228.615	0.7170	0.2492	0.6785
Cr 267.716	0.2493	0.3707	0.2940
Cu 324.754	7.0760	7.1849	7.2354
Fe 271.441	77.9542	67.6770	74.9425
K 766.491	26460.7	26464.7	26381.1
Mg 279.078	1979.27	1976.36	1979.31
Mn 257.610	2.2180	2.2230	2.2270
Mo 202.032	0.2472	-0.1945u	0.3071
Na 330.237	40520.8	40554.4	40423.8
Ni 231.604	2.9785	1.0260	0.7308
Pb 220.353	0.3531	-0.9390u	0.1457
Sb 206.834	6.4051	0.7115	7.0418
Se 196.026	6.3004	-1.9578u	7.1892
Sn 189.925	0.7875	-0.5809u	-3.0343u
Sr 216.596	23.7651	23.2371	24.0473
Ti 334.941	0.3114	0.2745	0.2600
Tl 190.794	-1.0164u	-5.9263u	-1.2867u
V 292.401	-0.1933u	0.0809	-0.2311u
Zn 206.200	8.2540	6.1457	6.3851

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2087	ppb	0.5483	262.7	-70.1904
Al 308.215	6.0770	ppb	1.0617	17.5	301.537
As 188.980	0.0714	ppb	2.3049	3227.8	-2.1564
B 249.678	10.6444	ppb	0.5782	5.4	145.343
Ba 389.178	0.7497	ppb	0.1471	19.6	0.2274
Be 313.042	-0.0132	ppb	0.0077	58.7	-302.398
Ca 370.602	6873	ppb	9.505	0.1	25242
Cd 226.502	-0.0145	ppb	0.1571	1083.5	8.3274
Co 228.615	0.5482	ppb	0.2597	47.4	21.2816
Cr 267.716	0.3046	ppb	0.0614	20.1	22.1735
Cu 324.754	7.1654	ppb	0.0814	1.1	541.512
Fe 271.441	73.5246	ppb	5.2833	7.2	135.290
K 766.491	26435.5	ppb	47.1748	0.2	1616710
Mg 279.078	1978.32	ppb	1.6950	0.1	4353.51
Mn 257.610	2.2227	ppb	0.0045	0.2	604.750
Mo 202.032	0.1199	ppb	0.2739	228.5	10.5996
Na 330.237	40499.7	ppb	67.8393	0.2	2166.49
Ni 231.604	1.5785	ppb	1.2215	77.4	2.8106
Pb 220.353	-0.1467	ppb	0.6939	472.9	0.4347
Sb 206.834	4.7195	ppb	3.4855	73.9	1.6870
Se 196.026	3.8440	ppb	5.0441	131.2	2.4134
Sn 189.925	-0.9426	ppb	1.9364	205.4	-1.3241
Sr 216.596	23.6832	ppb	0.4113	1.7	262.545
Ti 334.941	0.2820	ppb	0.0265	9.4	-30.6580
Tl 190.794	-2.7431	ppb	2.7600	100.6	-2.7258
V 292.401	-0.1145	ppb	0.1703	148.7	-0.1261
Zn 206.200	6.9283	ppb	1.1543	285.6	430.3305

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

mb 680-269986/1-a (Samp) **3/21/2013, 4:36:23 PM** **Rack 2, Tube 8**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2413	0.3427	0.0204
Al 308.215	3.4215	1.7988	1.3357
As 188.980	0.5312	0.9298	7.8013
B 249.678	2.0146	1.5474	1.6705
Ba 389.178	-1.0310u	0.0085	-0.1683u
Be 313.042	-0.0081u	-0.0140u	-0.0183u
Ca 370.602	29.17	21.28	24.44
Cd 226.502	-0.0066u	0.1177	0.1368
Co 228.615	-0.0476u	-0.1098u	-0.0727u
Cr 267.716	0.2605	0.0147	0.3874
Cu 324.754	-0.5184u	-0.3013u	-0.4441u
Fe 271.441	4.5953	5.9098	1.1277
K 766.491	10.5594	9.6723	9.7744
Mg 279.078	-0.1298u	3.0706	-0.3703u
Mn 257.610	0.3795	0.3568	0.3632
Mo 202.032	-0.0199u	0.3324	0.0553
Na 330.237	102.042	211.432	102.324
Ni 231.604	1.5169	0.0838	1.0514
Pb 220.353	-1.0576u	-0.0324u	3.8936
Sb 206.834	4.7599	6.3076	1.5685
Se 196.026	-4.5802u	6.4405	-9.7515u
Sn 189.925	10.9896	9.7334	11.2984
Sr 216.596	0.1089	-0.0583u	0.5715
Ti 334.941	0.2980	0.2435	0.2340
Tl 190.794	0.2813	1.2451	1.6307
V 292.401	-0.0138u	0.1368	0.0742
Zn 206.200	1.5046	2.4494	0.8231

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2015	ppb	0.1648	81.8	-39.9338
Al 308.215	2.1853	ppb	1.0953	50.1	278.817
As 188.980	3.0874	ppb	4.0872	132.4	-0.3313
B 249.678	1.7441	ppb	0.2421	13.9	61.1200
Ba 389.178	-0.3970	ppb	0.5562	140.1	-36.1029
Be 313.042	-0.0135	ppb	0.0051	38.2	-298.813
Ca 370.602	24.96	ppb	3.971	15.9	88.41
Cd 226.502	0.0826	ppb	0.0779	94.2	12.2101
Co 228.615	-0.0767	ppb	0.0313	40.8	13.2754
Cr 267.716	0.2209	ppb	0.1895	85.8	17.6295
Cu 324.754	-0.4213	ppb	0.1103	26.2	143.659
Fe 271.441	3.8776	ppb	2.4706	63.7	13.6630
K 766.491	10.0021	ppb	0.4854	4.9	916.965
Mg 279.078	0.8568	ppb	1.9210	224.2	31.6875
Mn 257.610	0.3665	ppb	0.0117	3.2	156.311
Mo 202.032	0.1226	ppb	0.1856	151.4	10.6220
Na 330.237	138.600	ppb	63.0750	45.5	1.2764
Ni 231.604	0.8840	ppb	0.7311	82.7	0.9643
Pb 220.353	0.9345	ppb	2.6134	279.6	2.2816
Sb 206.834	4.2120	ppb	2.4166	57.4	1.1720
Se 196.026	-2.6304	ppb	8.2702	314.4	-0.6195
Sn 189.925	10.6738	ppb	0.8289	7.8	9.4410
Sr 216.596	0.2074	ppb	0.3262	157.3	8.0768
Ti 334.941	0.2585	ppb	0.0345	13.3	-43.9310
Tl 190.794	1.0523	ppb	0.6950	66.0	0.1493
V 292.401	0.0657	ppb	0.0756	115.1	5.5979
Zn 206.200	1.5924	ppb	0.8167	51.3	4.0620

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

ics 680-269986/2-a (Samp) 3/21/2013, 4:41:59 PM Rack 2, Tube 9
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	38.3238	38.2046	38.5217
Al 308.215	4979.32	4957.51	4918.96
As 188.980	102.910	107.498	98.4232
B 249.678	197.108	197.529	198.899
Ba 389.178	102.679	101.411	102.015
Be 313.042	52.1244	51.9197	51.9060
Ca 370.602	5049	5021	5030
Cd 226.502	52.9876	52.5095	52.5824
Co 228.615	50.9655	51.4818	50.9728
Cr 267.716	105.862	105.791	105.829
Cu 324.754	100.715	101.667	101.143
Fe 271.441	5091.47	5070.37	5086.00
K 766.491	5063.90	5054.88	5074.07
Mg 279.078	5092.48	5067.04	5066.93
Mn 257.610	523.823	522.584	521.832
Mo 202.032	103.430	103.564	102.644
Na 330.237	5239.71	5053.18	4721.97
Ni 231.604	102.246	105.672	100.721
Pb 220.353	55.6840	55.4655	54.5507
Sb 206.834	54.3173	46.1308	51.2343
Se 196.026	93.2428	103.578	92.7679
Sn 189.925	218.209	222.368	212.870
Sr 216.596	107.759	106.654	106.945
Ti 334.941	104.573	104.036	104.102
Tl 190.794	43.9671	45.7656	39.1411
V 292.401	102.420	102.390	102.292
Zn 206.200	104.655	106.824	102.399

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	38.3500	ppb	0.1602	0.4	2680.39
Al 308.215	4951.93	ppb	30.5634	0.6	29205.7
As 188.980	102.944	ppb	4.5377	4.4	61.9123
B 249.678	197.845	ppb	0.9368	0.5	1912.38
Ba 389.178	102.035	ppb	0.6341	0.6	2694.65
Be 313.042	51.9834	ppb	0.1223	0.2	107521
Ca 370.602	5033	ppb	14.45	0.3	18049
Cd 226.502	52.6932	ppb	0.2576	0.5	2101.31
Co 228.615	51.1400	ppb	0.2960	0.6	665.922
Cr 267.716	105.827	ppb	0.0355	0.0	4845.62
Cu 324.754	101.175	ppb	0.4766	0.5	5474.67
Fe 271.441	5082.61	ppb	10.9470	0.2	8898.90
K 766.491	5064.28	ppb	9.6032	0.2	309962
Mg 279.078	5075.48	ppb	14.7176	0.3	11113.3
Mn 257.610	522.746	ppb	1.0053	0.2	123590
Mo 202.032	103.213	ppb	0.4967	0.5	766.453
Na 330.237	5004.96	ppb	262.221	5.2	259.141
Ni 231.604	102.879	ppb	2.5355	2.5	272.065
Pb 220.353	55.2334	ppb	0.6012	1.1	94.8755
Sb 206.834	50.5608	ppb	4.1346	8.2	48.2316
Se 196.026	96.5294	ppb	6.1085	6.3	45.9208
Sn 189.925	217.816	ppb	4.7613	2.2	201.749
Sr 216.596	107.120	ppb	0.5728	0.5	1160.95
Ti 334.941	104.237	ppb	0.2931	0.3	31172.4
Tl 190.794	42.9579	ppb	3.4256	8.0	31.0887
V 292.401	102.367	ppb	0.0669	0.1	3056.72
Zn 206.200	104.626	ppb	2.2125	2.1	144.145

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

ics 680-269986/3-a (Samp) 3/21/2013, 4:47:27 PM Rack 2, Tube 10
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	210.105	208.983	209.660
Al 308.215	2075.09	2070.00	2070.58
As 188.980	212.120	203.526	208.188
B 249.678	383.159	383.427	385.102
Ba 389.178	194.645	194.266	194.913
Be 313.042	199.696	199.664	199.441
Ca 370.602	19366	19342	19346
Cd 226.502	198.782	198.741	197.959
Co 228.615	193.831	192.157	192.361
Cr 267.716	202.623	202.568	202.382
Cu 324.754	197.393	197.554	196.399
Fe 271.441	20323.1	20294.3	20279.2
K 766.491	18893.3	18929.8	18926.6
Mg 279.078	19703.1	19673.3	19678.1
Mn 257.610	2015.89	2013.23	2010.12
Mo 202.032	199.761	199.484	199.901
Na 330.237	17039.4	16796.3	16826.0
Ni 231.604	197.902	202.131	200.379
Pb 220.353	201.616	203.658	200.930
Sb 206.834	196.007	192.112	190.788
Se 196.026	188.023	201.676	184.818
Sn 189.925	216.353	213.243	216.484
Sr 216.596	218.016	216.071	217.192
Ti 334.941	203.003	202.943	202.935
Tl 190.794	50.1261	48.1015	47.0973
V 292.401	196.340	196.316	195.488
Zn 206.200	194.051	188.976	193.949

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	209.583	ppb	0.5650	0.3	14899.8
Al 308.215	2071.89	ppb	2.7897	0.1	12392.4
As 188.980	207.945	ppb	4.3022	2.1	127.339
B 249.678	383.896	ppb	1.0532	0.3	3658.90
Ba 389.178	194.608	ppb	0.3251	0.2	5209.93
Be 313.042	199.600	ppb	0.1391	0.1	413656
Ca 370.602	19351	ppb	12.93	0.1	69283
Cd 226.502	198.494	ppb	0.4634	0.2	7893.91
Co 228.615	192.783	ppb	0.9132	0.5	2472.20
Cr 267.716	202.524	ppb	0.1264	0.1	9272.05
Cu 324.754	197.115	ppb	0.6257	0.3	10512.1
Fe 271.441	20298.9	ppb	22.3178	0.1	35515.8
K 766.491	18916.6	ppb	20.2015	0.1	1156966
Mg 279.078	19684.8	ppb	16.0388	0.1	43021.8
Mn 257.610	2013.08	ppb	2.8889	0.1	475744
Mo 202.032	199.715	ppb	0.2123	0.1	1473.45
Na 330.237	16887.2	ppb	132.615	0.8	890.357
Ni 231.604	200.137	ppb	2.1249	1.1	530.789
Pb 220.353	202.068	ppb	1.4192	0.7	345.932
Sb 206.834	192.969	ppb	2.7126	1.4	193.422
Se 196.026	191.506	ppb	8.9523	4.7	90.6620
Sn 189.925	215.360	ppb	1.8345	0.9	199.481
Sr 216.596	217.093	ppb	0.9761	0.4	2352.35
Ti 334.941	202.960	ppb	0.0372	0.0	60858.9
Tl 190.794	48.4416	ppb	1.5428	3.2	33.0520
V 292.401	196.048	ppb	0.4851	0.2	5850.37
Zn 206.200	192.325	ppb	2.9011	1.5	263.361

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

680-88399-c-3-d (Samp) 3/21/2013, 4:52:52 PM Rack 2, Tube 11
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2535u	-0.0126	-1.3989u
Al 308.215	146869	147348	146806
As 188.980	7.5764	16.6374	9.7774
B 249.678	-8.7248u	-8.9878u	-9.6898u
Ba 389.178	623.700	626.819	624.834
Be 313.042	4.3006	4.3043	4.3078
Ca 370.602	3531u	3502u	3492u
Cd 226.502	-2.2936	-2.2560	-2.3610
Co 228.615	18.4067	18.5794	18.4161
Cr 267.716	236.252	237.453	235.961
Cu 324.754	118.581	120.057	118.009
Fe 271.441	231016	231750	231342
K 766.491	18581.2	18709.4	18658.4
Mg 279.078	15247.3	15278.7	15245.5
Mn 257.610	561.091	564.266	562.232
Mo 202.032	3.6791	3.7032	3.4169
Na 330.237	309.402u	298.207u	430.740u
Ni 231.604	50.0269	51.1561	48.6566
Pb 220.353	104.452	93.9934	97.7079
Sb 206.834	4.7016	7.3143	1.0538
Se 196.026	-11.7624u	-4.6362u	0.1763u
Sn 189.925	16.9538	23.7690	20.3333
Sr 216.596	30.3134	31.1344	31.5427
Ti 334.941	5447.55	5471.30	5467.59
Tl 190.794	3.8248u	5.1485u	8.3006u
V 292.401	506.610	508.577	508.026
Zn 206.200	239.093	238.252	237.230

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5550	ppb	0.7407	133.5	-90.2101
Al 308.215	147008	ppb	296.581	0.2	859037
As 188.980	11.3304	ppb	4.7259	41.7	2.4563
B 249.678	-9.1342	ppb	0.4988	5.5	-261.203
Ba 389.178	625.118	ppb	1.5785	0.3	16914.3
Be 313.042	4.3042	ppb	0.0036	0.1	8646.01
Ca 370.602	3508	ppb	20.23	0.6	-7792
Cd 226.502	-2.3035	ppb	0.0532	2.3	515.966
Co 228.615	18.4674	ppb	0.0971	0.5	393.554
Cr 267.716	236.555	ppb	0.7911	0.3	10878.1
Cu 324.754	118.882	ppb	1.0568	0.9	6466.65
Fe 271.441	231369	ppb	367.697	0.2	404371
K 766.491	18649.7	ppb	64.5519	0.3	1140645
Mg 279.078	15257.1	ppb	18.6577	0.1	33363.7
Mn 257.610	562.529	ppb	1.6081	0.3	133674
Mo 202.032	3.5997	ppb	0.1588	4.4	23.3689
Na 330.237	346.116	ppb	73.4997	21.2	-104.843
Ni 231.604	49.9465	ppb	1.2517	2.5	136.253
Pb 220.353	98.7176	ppb	5.3017	5.4	163.781
Sb 206.834	4.3566	ppb	3.1445	72.2	8.9265
Se 196.026	-5.4074	ppb	6.0066	111.1	-3.2933
Sn 189.925	20.3520	ppb	3.4076	16.7	18.4215
Sr 216.596	30.9969	ppb	0.6261	2.0	435.954
Ti 334.941	5462.15	ppb	12.7807	0.2	1638511
Tl 190.794	5.7580	ppb	2.2993	39.9	-5.7389
V 292.401	507.738	ppb	1.0144	0.2	15355.0
Zn 206.200	238.191	ppb	0.9331	0.4	325.752

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

680-88399-c-5-d (Samp) 3/21/2013, 4:58:19 PM Rack 2, Tube 12

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.7982u	-1.3054u	0.0376
Al 308.215	149005	149043	147871
As 188.980	21.1952	13.3756	10.2241
B 249.678	1.6290u	2.4718u	1.1756u
Ba 389.178	308.156	307.152	305.329
Be 313.042	3.0039	3.0199	2.9899
Ca 370.602	4155u	4137u	4138u
Cd 226.502	-1.9711	-1.8953	-2.0671
Co 228.615	15.6779	14.7728	14.2758
Cr 267.716	199.414	200.117	198.275
Cu 324.754	84.8543	83.7065	84.0032
Fe 271.441	178072	177968	176632
K 766.491	10796.6	10788.8	10718.6
Mg 279.078	8981.64	8994.22	8905.63
Mn 257.610	561.949	562.372	558.018
Mo 202.032	3.8156	2.8098	3.6052
Na 330.237	380.419u	543.395u	450.326u
Ni 231.604	43.5962	41.6092	43.0390
Pb 220.353	94.1145	102.620	93.8059
Sb 206.834	7.8980	6.4336	5.1683
Se 196.026	-7.1573u	7.2188	-4.5278u
Sn 189.925	18.5358	17.4532	19.4022
Sr 216.596	45.8583	46.0014	45.1128
Ti 334.941	4596.20	4602.03	4575.92
Tl 190.794	6.9085u	11.3356	12.0652
V 292.401	431.743	431.895	428.489
Zn 206.200	180.681	183.540	181.075

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0220	ppb	0.9502	93.0	-124.238
Al 308.215	148639	ppb	666.109	0.4	868570
As 188.980	14.9316	ppb	5.6487	37.8	5.2656
B 249.678	1.7588	ppb	0.6578	37.4	-106.748
Ba 389.178	306.879	ppb	1.4329	0.5	8398.67
Be 313.042	3.0046	ppb	0.0150	0.5	5955.90
Ca 370.602	4144	ppb	10.11	0.2	-525.0
Cd 226.502	-1.9778	ppb	0.0861	4.4	388.790
Co 228.615	14.9089	ppb	0.7109	4.8	326.137
Cr 267.716	199.269	ppb	0.9294	0.5	9161.26
Cu 324.754	84.1880	ppb	0.5958	0.7	4631.25
Fe 271.441	177557	ppb	802.820	0.5	310324
K 766.491	10768.0	ppb	42.9757	0.4	658717
Mg 279.078	8960.50	ppb	47.9270	0.5	19591.3
Mn 257.610	560.780	ppb	2.4009	0.4	133077
Mo 202.032	3.4102	ppb	0.5305	15.6	24.8861
Na 330.237	458.047	ppb	81.7620	17.9	-74.6448
Ni 231.604	42.7481	ppb	1.0249	2.4	115.986
Pb 220.353	96.8467	ppb	5.0019	5.2	161.015
Sb 206.834	6.5000	ppb	1.3661	21.0	9.4830
Se 196.026	-1.4887	ppb	7.6547	514.2	-1.1058
Sn 189.925	18.4637	ppb	0.9765	5.3	16.6702
Sr 216.596	45.6575	ppb	0.4771	1.0	572.237
Ti 334.941	4591.38	ppb	13.7078	0.3	1377264
Tl 190.794	10.1031	ppb	2.7906	27.6	-0.3683
V 292.401	430.709	ppb	1.9242	0.4	13025.2
Zn 206.200	181.766	ppb	1.5495	0.8	248.982

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

Cont Calib Verif (CCV) 3/21/2013, 5:03:44 PM Rack 2, Tube 13
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	520.352	525.799	521.533
Al 308.215	5120.65	5133.91	5122.05
As 188.980	465.873	464.351	469.218
B 249.678	2567.25	2587.09	2597.30
Ba 389.178	5088.62	5096.25	5078.68
Be 313.042	508.973	511.535	509.839
Ca 370.602	5143	5162	5153
Cd 226.502	513.529	515.048	512.900
Co 228.615	508.834	509.701	506.186
Cr 267.716	5196.02	5222.02	5205.80
Cu 324.754	5000.94	5043.05	5054.50
Fe 271.441	5144.18	5134.26	5139.90
K 766.491	9987.06	9964.93	9912.53
Mg 279.078	5114.98	5122.25	5121.20
Mn 257.610	5141.62	5144.26	5132.94
Mo 202.032	517.004	520.005	519.983
Na 330.237	7720.73	7521.55	7427.39
Ni 231.604	2594.49	2612.76	2603.15
Pb 220.353	529.329	532.102	532.461
Sb 206.834	936.136	953.343	944.856
Se 196.026	5016.41	5013.71	4978.52
Sn 189.925	5174.22	5168.86	5169.29
Sr 216.596	2606.18	2621.25	2621.23
Ti 334.941	520.630	522.777	521.473
Tl 190.794	5335.48	5346.43	5341.54
V 292.401	5062.08	5077.70	5057.27
Zn 206.200	2599.53	2609.86	2590.32

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	522.561	ppb	2.8655	0.5	37174.6	104.51223
Al 308.215	5125.54	ppb	7.2883	0.1	30185.4	102.51072
As 188.980	466.481	ppb	2.4895	0.5	288.544	93.29613
B 249.678	2583.88	ppb	15.2785	0.6	24495.7	103.35518
Ba 389.178	5087.85	ppb	8.8095	0.2	134446	101.75699
Be 313.042	510.116	ppb	1.3034	0.3	1057407	102.02316
Ca 370.602	5152	ppb	9.433	0.2	18767	103.04949
Cd 226.502	513.825	ppb	1.1044	0.2	20297.4	102.76508
Co 228.615	508.240	ppb	1.8315	0.4	6508.52	101.64805
Cr 267.716	5207.95	ppb	13.1303	0.3	237963	104.15896
Cu 324.754	5032.83	ppb	28.2052	0.6	264043	100.65659
Fe 271.441	5139.44	ppb	4.9737	0.1	9119.60	102.78889
K 766.491	9954.84	ppb	38.2743	0.4	608997	99.54841
Mg 279.078	5119.48	ppb	3.9281	0.1	11132.8	102.38955
Mn 257.610	5139.61	ppb	5.9209	0.1	1214160	102.79214
Mo 202.032	518.998	ppb	1.7262	0.3	3807.23	103.79951
Na 330.237	7556.56	ppb	149.769	2.0	373.449	100.75413
Ni 231.604	2603.47	ppb	9.1386	0.4	6915.90	104.13877
Pb 220.353	531.297	ppb	1.7138	0.3	908.426	106.25942
Sb 206.834	944.778	ppb	8.6038	0.9	1000.52	94.47782
Se 196.026	5002.88	ppb	21.1393	0.4	2345.36	100.05759
Sn 189.925	5170.79	ppb	2.9769	0.1	4799.94	103.41574
Sr 216.596	2616.22	ppb	8.6964	0.3	28226.7	104.64888
Ti 334.941	521.627	ppb	1.0821	0.2	156380	104.32532
Tl 190.794	5341.15	ppb	5.4846	0.1	4034.55	106.82304
V 292.401	5065.68	ppb	10.6843	0.2	151979	101.31369
Zn 206.200	2599.90	ppb	9.7744	0.4	3530.11	103.99609

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

Cont Calib Blank (CCB) 3/21/2013, 5:09:09 PM Rack 2, Tube 14
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6486u	-0.4217u	0.0286
Al 308.215	2.8170	-0.2796u	3.1379
As 188.980	-3.2228u	3.5794	-2.5667u
B 249.678	27.2338	23.0606	20.1040
Ba 389.178	1.3268	0.1348	1.0021
Be 313.042	0.0721	0.0591	0.0590
Ca 370.602	5.163	5.164	4.791
Cd 226.502	-0.0005u	0.0881	-0.0381u
Co 228.615	-0.1668u	0.7554	0.4250
Cr 267.716	0.5807	0.5452	0.9662
Cu 324.754	0.4298	0.2925	-0.0591u
Fe 271.441	11.7509	2.9891	6.7309
K 766.491	-0.0911u	0.0438	0.1578
Mg 279.078	-2.5131u	3.8768	-0.5510u
Mn 257.610	0.6859	0.6479	0.7208
Mo 202.032	0.3393	0.5072	0.5362
Na 330.237	-65.9211u	-128.890u	245.190
Ni 231.604	1.1582	-1.0823u	1.8587
Pb 220.353	1.8349	-0.2585u	2.6768
Sb 206.834	9.4650	10.0297	-2.0550u
Se 196.026	2.8654	5.6086	0.9043
Sn 189.925	-0.2115u	-1.9208u	-0.2728u
Sr 216.596	0.9845	0.7560	0.8404
Ti 334.941	0.5482	0.4613	0.5677
Tl 190.794	-2.5521u	2.3834	-6.8603u
V 292.401	0.7247	0.9495	0.7134
Zn 206.200	0.7621	-0.7655u	0.6865

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.3472	ppb	0.3447	99.3	-79.1145	-0.34725
Al 308.215	1.8918	ppb	1.8873	99.8	277.148	1.89178
As 188.980	-0.7367	ppb	3.7522	509.3	-2.7167	-0.73670
B 249.678	23.4661	ppb	3.5822	15.3	266.719	23.46612
Ba 389.178	0.8212	ppb	0.6162	75.0	-3.9207	0.82123
Be 313.042	0.0634	ppb	0.0076	11.9	-139.485	0.06341
Ca 370.602	5.039	ppb	0.2149	4.3	15.74	5.03919
Cd 226.502	0.0165	ppb	0.0648	392.3	9.5900	0.01651
Co 228.615	0.3378	ppb	0.4672	138.3	18.5664	0.33784
Cr 267.716	0.6974	ppb	0.2335	33.5	39.3967	0.69737
Cu 324.754	0.2210	ppb	0.2522	114.1	177.346	0.22105
Fe 271.441	7.1570	ppb	4.3964	61.4	19.3416	7.15699
K 766.491	0.0369	ppb	0.1246	338.0	307.639	0.03685
Mg 279.078	0.2709	ppb	3.2733	1208.2	30.4010	0.27092
Mn 257.610	0.6849	ppb	0.0365	5.3	231.504	0.68489
Mo 202.032	0.4609	ppb	0.1063	23.1	13.1028	0.46089
Na 330.237	16.7929	ppb	200.288	1192.7	-5.2459	16.79292
Ni 231.604	0.6449	ppb	1.5362	238.2	0.3288	0.64489
Pb 220.353	1.4177	ppb	1.5115	106.6	3.1068	1.41773
Sb 206.834	5.8133	ppb	6.8199	117.3	2.7880	5.81326
Se 196.026	3.1261	ppb	2.3630	75.6	2.0772	3.12613
Sn 189.925	-0.8017	ppb	0.9696	121.0	-1.2126	-0.80166
Sr 216.596	0.8603	ppb	0.1155	13.4	15.1147	0.86030
Ti 334.941	0.5257	ppb	0.0567	10.8	36.2400	0.52571
Tl 190.794	-2.3430	ppb	4.6254	197.4	-2.4186	-2.34299
V 292.401	0.7959	ppb	0.1332	16.7	27.4512	0.79585
Zn 206.200	0.2277	ppb	0.8610	278.1	2.2020	0.22770

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88399-c-7-d (Samp) 3/21/2013, 5:14:34 PM Rack 2, Tube 15
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.3794u	-2.5442u	-3.3182u
Al 308.215	190420	190154	189337
As 188.980	24.6899	24.1399	22.7774
B 249.678	-14.8370u	-15.7591u	-15.2805u
Ba 389.178	510.626	508.373	507.168
Be 313.042	5.1966	5.1888	5.1645
Ca 370.602	1874u	1886u	1904u
Cd 226.502	-1.8170	-1.7813	-1.9441
Co 228.615	21.6946	22.5800	22.4034
Cr 267.716	309.163	308.877	307.385
Cu 324.754	143.161	143.084	142.629
Fe 271.441	204730	204728	203907
K 766.491	17586.9	17594.3	17552.5
Mg 279.078	15405.2	15368.7	15338.4
Mn 257.610	727.640	725.513	723.931
Mo 202.032	5.3367	4.3447	5.0720
Na 330.237	549.306u	576.626u	626.929u
Ni 231.604	57.1235	57.5374	60.0975
Pb 220.353	158.049	154.219	157.747
Sb 206.834	5.3184	-1.8964	6.1270
Se 196.026	-14.9954u	2.4580u	0.9761u
Sn 189.925	22.5730	19.0251	20.3480
Sr 216.596	19.4472	19.6223	19.4106
Ti 334.941	7103.21	7110.34	7080.62
Tl 190.794	6.4648u	15.2278	16.5747
V 292.401	806.583	807.647	806.407
Zn 206.200	280.766	280.959	279.290

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.7473	ppb	0.5013	18.2	-243.418
Al 308.215	189970	ppb	564.106	0.3	1110008
As 188.980	23.8691	ppb	0.9846	4.1	10.5435
B 249.678	-15.2922	ppb	0.4611	3.0	-293.665
Ba 389.178	508.722	ppb	1.7550	0.3	13795.7
Be 313.042	5.1833	ppb	0.0167	0.3	10461.7
Ca 370.602	1888	ppb	14.85	0.8	-10826
Cd 226.502	-1.8475	ppb	0.0856	4.6	463.610
Co 228.615	22.2260	ppb	0.4686	2.1	488.451
Cr 267.716	308.475	ppb	0.9546	0.3	14159.7
Cu 324.754	142.958	ppb	0.2872	0.2	7717.54
Fe 271.441	204455	ppb	475.048	0.2	357338
K 766.491	17577.9	ppb	22.2759	0.1	1075111
Mg 279.078	15370.8	ppb	33.4758	0.2	33590.8
Mn 257.610	725.695	ppb	1.8614	0.3	172140
Mo 202.032	4.9178	ppb	0.5137	10.4	33.8521
Na 330.237	584.287	ppb	39.3745	6.7	-96.7228
Ni 231.604	58.2528	ppb	1.6109	2.8	157.764
Pb 220.353	156.672	ppb	2.1295	1.4	261.148
Sb 206.834	3.1830	ppb	4.4174	138.8	7.7912
Se 196.026	-3.8537	ppb	9.6773	251.1	-2.3502
Sn 189.925	20.6487	ppb	1.7930	8.7	18.6968
Sr 216.596	19.4934	ppb	0.1132	0.6	299.998
Ti 334.941	7098.06	ppb	15.5128	0.2	2129246
Tl 190.794	12.7558	ppb	5.4896	43.0	0.5517
V 292.401	806.879	ppb	0.6711	0.1	24377.7
Zn 206.200	280.338	ppb	0.9129	0.3	282.978

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88401-b-1-d (Samp) 3/21/2013, 5:19:58 PM Rack 2, Tube 16
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.1780u	-2.7717u	-1.9893u
Al 308.215	37412.9	37319.0	37461.3
As 188.980	44.6484	31.2379	33.1637
B 249.678	-3.7665u	-3.4220u	-3.8677u
Ba 389.178	119.853	120.923	121.698
Be 313.042	1.3429	1.3512	1.3341
Ca 370.602	2656	2648	2662
Cd 226.502	-0.5931	-0.6406	-0.6693
Co 228.615	7.4322	6.6687	6.2513
Cr 267.716	91.5814	91.1998	91.1336
Cu 324.754	26.3894	25.2017	24.2468
Fe 271.441	73499.4	73347.2	73610.9
K 766.491	870.478	867.942	871.991
Mg 279.078	1047.44	1053.74	1051.92
Mn 257.610	942.065	940.456	943.094
Mo 202.032	5.0517	4.0802	4.0749
Na 330.237	270.667u	61.3716u	-169.411u
Ni 231.604	17.1860	17.5054	18.0809
Pb 220.353	83.1564	83.0531	82.7383
Sb 206.834	0.2823	2.1840	7.4260
Se 196.026	3.9419	-2.3245u	-4.8554u
Sn 189.925	16.1509	14.5804	14.6554
Sr 216.596	13.5930	13.0473	14.2473
Ti 334.941	742.171	743.029	739.856
Tl 190.794	5.4544	2.2066u	3.6386u
V 292.401	187.741	188.108	188.803
Zn 206.200	83.2183	81.0462	83.8317

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.3130	ppb	0.4083	17.7	-214.830
Al 308.215	37397.7	ppb	72.3415	0.2	218731
As 188.980	36.3500	ppb	7.2509	19.9	19.6808
B 249.678	-3.6854	ppb	0.2336	6.3	-59.8577
Ba 389.178	120.825	ppb	0.9264	0.8	3289.72
Be 313.042	1.3427	ppb	0.0086	0.6	2508.93
Ca 370.602	2656	ppb	7.303	0.3	3014
Cd 226.502	-0.6343	ppb	0.0385	6.1	173.521
Co 228.615	6.7841	ppb	0.5989	8.8	118.799
Cr 267.716	91.3050	ppb	0.2417	0.3	4200.21
Cu 324.754	25.2793	ppb	1.0734	4.2	1512.40
Fe 271.441	73485.8	ppb	132.340	0.2	128438
K 766.491	870.137	ppb	2.0457	0.2	53510.1
Mg 279.078	1051.03	ppb	3.2428	0.3	2313.48
Mn 257.610	941.872	ppb	1.3294	0.1	222765
Mo 202.032	4.4023	ppb	0.5624	12.8	37.9197
Na 330.237	54.2091	ppb	220.126	406.1	-32.7346
Ni 231.604	17.5908	ppb	0.4536	2.6	46.9140
Pb 220.353	82.9826	ppb	0.2178	0.3	141.581
Sb 206.834	3.2974	ppb	3.6997	112.2	2.7699
Se 196.026	-1.0793	ppb	4.5289	419.6	-0.1497
Sn 189.925	15.1289	ppb	0.8859	5.9	13.5763
Sr 216.596	13.6292	ppb	0.6008	4.4	183.326
Ti 334.941	741.685	ppb	1.6413	0.2	222384
Tl 190.794	3.7665	ppb	1.6277	43.2	-1.6321
V 292.401	188.217	ppb	0.5390	0.3	5671.98
Zn 206.200	82.6987	ppb	1.4636	1.8	414.311

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88401-b-1-dSD^5 (Samp) 3/21/2013, 5:25:23 PM Rack 2, Tube 17

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.1161u	-0.1964u	-1.3352u
Al 308.215	8025.92	7893.67	7853.55
As 188.980	7.0030	9.0593	7.3293
B 249.678	0.3565u	0.3788u	0.4689u
Ba 389.178	25.8448	25.6957	25.4393
Be 313.042	0.2658	0.2633	0.2727
Ca 370.602	571.3	576.6	563.8
Cd 226.502	-0.4544	-0.1019	-0.1044
Co 228.615	1.3497	1.6156	1.3297
Cr 267.716	19.1623	18.8964	19.0464
Cu 324.754	5.4577	5.6646	5.6186
Fe 271.441	15808.2	15548.0	15477.9
K 766.491	189.196	186.366	185.963
Mg 279.078	223.553	220.093	216.367
Mn 257.610	201.784	198.351	197.349
Mo 202.032	1.5436	1.7201	1.3759
Na 330.237	-44.5220u	-20.6938u	118.520
Ni 231.604	4.3497	3.0077	3.0461
Pb 220.353	18.4279	15.8034	18.0366
Sb 206.834	4.3293	-1.3311u	4.7657
Se 196.026	-6.0521u	-1.9365u	1.0154
Sn 189.925	2.4466	5.7207	3.8152
Sr 216.596	3.1581	2.4472	2.3919
Ti 334.941	158.175	156.460	156.521
Tl 190.794	1.3814	-3.3429u	-2.1508u
V 292.401	39.9511	39.1868	39.2361
Zn 206.200	17.2603	17.5681	17.4135

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8826	ppb	0.6043	68.5	-116.316
Al 308.215	7924.38	ppb	90.1930	1.1	46557.5
As 188.980	7.7972	ppb	1.1051	14.2	2.4505
B 249.678	0.4014	ppb	0.0595	14.8	33.6483
Ba 389.178	25.6599	ppb	0.2051	0.8	678.432
Be 313.042	0.2673	ppb	0.0049	1.8	282.367
Ca 370.602	570.6	ppb	6.421	1.1	663.4
Cd 226.502	-0.2202	ppb	0.2028	92.1	40.4842
Co 228.615	1.4317	ppb	0.1596	11.1	36.3324
Cr 267.716	19.0350	ppb	0.1333	0.7	881.689
Cu 324.754	5.5803	ppb	0.1086	1.9	462.847
Fe 271.441	15611.3	ppb	174.007	1.1	27290.7
K 766.491	187.175	ppb	1.7619	0.9	11750.2
Mg 279.078	220.004	ppb	3.5940	1.6	507.817
Mn 257.610	199.161	ppb	2.3257	1.2	47159.3
Mo 202.032	1.5465	ppb	0.1721	11.1	20.1997
Na 330.237	17.7681	ppb	88.0634	495.6	-11.4471
Ni 231.604	3.4678	ppb	0.7640	22.0	8.1605
Pb 220.353	17.4226	ppb	1.4159	8.1	30.2646
Sb 206.834	2.5880	ppb	3.4010	131.4	0.0557
Se 196.026	-2.3244	ppb	3.5497	152.7	-0.5309
Sn 189.925	3.9942	ppb	1.6444	41.2	3.2396
Sr 216.596	2.6657	ppb	0.4273	16.0	41.0548
Ti 334.941	157.052	ppb	0.9729	0.6	46994.1
Tl 190.794	-1.3708	ppb	2.4568	179.2	-2.4959
V 292.401	39.4580	ppb	0.4278	1.1	1191.95
Zn 206.200	17.4140	ppb	0.1539	0.8	25.5658

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

680-88401-b-1-dPDS (Samp) **3/21/2013, 5:30:48 PM** **Rack 2, Tube 18****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	47.9117	48.7224	47.3636
Al 308.215	38933.4	38846.9	38980.0
As 188.980	2178.01	2166.45	2166.15
B 249.678	1005.82	1006.68	1018.66
Ba 389.178	2162.41	2159.70	2167.41
Be 313.042	51.7978	51.8075	51.9789
Ca 370.602	7590	7577	7608
Cd 226.502	50.9542	51.0196	50.6570
Co 228.615	517.114	511.229	515.983
Cr 267.716	296.543	297.376	297.834
Cu 324.754	276.248	280.874	280.212
Fe 271.441	73125.9	73039.6	73200.9
K 766.491	6027.75	6022.05	6033.95
Mg 279.078	6078.98	6073.45	6094.84
Mn 257.610	1446.17	1444.35	1449.77
Mo 202.032	523.652	522.952	525.499
Na 330.237	4936.29	5226.55	5170.30
Ni 231.604	531.289	533.004	534.808
Pb 220.353	602.326	603.768	605.960
Sb 206.834	499.045	502.850	508.720
Se 196.026	1980.96	1973.80	1975.99
Sn 189.925	1053.33	1050.55	1057.73
Sr 216.596	542.446	541.235	543.848
Ti 334.941	1726.42	1725.97	1730.88
Tl 190.794	2104.91	2105.76	2120.95
V 292.401	691.554	692.885	693.141
Zn 206.200	594.631	595.963	589.201

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	47.9992	ppb	0.6836	1.4	3358.31
Al 308.215	38920.1	ppb	67.5755	0.2	227684
As 188.980	2170.20	ppb	6.7617	0.3	1350.50
B 249.678	1010.39	ppb	7.1751	0.7	9538.54
Ba 389.178	2163.17	ppb	3.9129	0.2	57271.6
Be 313.042	51.8614	ppb	0.1019	0.2	107175
Ca 370.602	7592	ppb	15.58	0.2	21412
Cd 226.502	50.8769	ppb	0.1933	0.4	2205.14
Co 228.615	514.775	ppb	3.1229	0.6	6608.97
Cr 267.716	297.251	ppb	0.6549	0.2	13609.9
Cu 324.754	279.111	ppb	2.5015	0.9	14832.4
Fe 271.441	73122.2	ppb	80.7180	0.1	127890
K 766.491	6027.91	ppb	5.9500	0.1	368884
Mg 279.078	6082.42	ppb	11.1005	0.2	13300.9
Mn 257.610	1446.77	ppb	2.7564	0.2	342053
Mo 202.032	524.035	ppb	1.3159	0.3	3849.07
Na 330.237	5111.05	ppb	153.936	3.0	226.959
Ni 231.604	533.034	ppb	1.7597	0.3	1416.39
Pb 220.353	604.018	ppb	1.8300	0.3	1030.57
Sb 206.834	503.539	ppb	4.8741	1.0	504.294
Se 196.026	1976.92	ppb	3.6671	0.2	926.556
Sn 189.925	1053.87	ppb	3.6204	0.3	977.914
Sr 216.596	542.510	ppb	1.3077	0.2	5873.35
Ti 334.941	1727.76	ppb	2.7132	0.2	518208
Tl 190.794	2110.54	ppb	9.0282	0.4	1591.26
V 292.401	692.526	ppb	0.8522	0.1	20738.3
Zn 206.200	593.265	ppb	3.5818	0.6	809.280

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

680-88401-b-1-e ms (Samp) 3/21/2013, 5:36:13 PM Rack 2, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	22.2630	24.7324	23.5116
Al 308.215	70040.1	70230.7	70115.9
As 188.980	145.505	131.534	143.822
B 249.678	161.567	159.671	158.763
Ba 389.178	301.015	301.888	303.128
Be 313.042	56.7856	56.9829	57.0036
Ca 370.602	9392	9405	9398
Cd 226.502	54.7509	55.1112	54.5327
Co 228.615	66.8923	66.2287	67.5579
Cr 267.716	433.780	435.934	436.377
Cu 324.754	156.115	157.968	155.520
Fe 271.441	109147	109312	109119
K 766.491	7168.34	7160.16	7149.81
Mg 279.078	7363.07	7382.25	7378.48
Mn 257.610	1235.07	1239.09	1238.11
Mo 202.032	107.091	108.835	108.338
Na 330.237	5113.09	5079.68	4963.83
Ni 231.604	139.019	139.164	138.402
Pb 220.353	171.823	172.464	170.633
Sb 206.834	27.9260	30.3029	25.9738
Se 196.026	96.2404	89.8505	90.5746
Sn 189.925	226.949	232.095	226.857
Sr 216.596	134.442	135.146	135.671
Ti 334.941	942.906	945.336	947.201
Tl 190.794	51.6339	49.7553	55.1967
V 292.401	365.370	366.286	366.240
Zn 206.200	296.093	293.147	293.832

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	23.5023	ppb	1.2347	5.3	1624.35
Al 308.215	70128.9	ppb	95.9606	0.1	409948
As 188.980	140.287	ppb	7.6268	5.4	84.1711
B 249.678	160.000	ppb	1.4311	0.9	1455.81
Ba 389.178	302.010	ppb	1.0619	0.4	8154.61
Be 313.042	56.9240	ppb	0.1203	0.2	117763
Ca 370.602	9398	ppb	6.821	0.1	24498
Cd 226.502	54.7983	ppb	0.2921	0.5	2452.42
Co 228.615	66.8930	ppb	0.6646	1.0	887.450
Cr 267.716	435.364	ppb	1.3895	0.3	19930.2
Cu 324.754	156.535	ppb	1.2767	0.8	8407.39
Fe 271.441	109193	ppb	104.305	0.1	190853
K 766.491	7159.44	ppb	9.2879	0.1	438071
Mg 279.078	7374.60	ppb	10.1592	0.1	16125.5
Mn 257.610	1237.42	ppb	2.0996	0.2	292710
Mo 202.032	108.088	ppb	0.8983	0.8	796.430
Na 330.237	5052.20	ppb	78.3302	1.6	220.995
Ni 231.604	138.862	ppb	0.4046	0.3	369.879
Pb 220.353	171.640	ppb	0.9295	0.5	292.249
Sb 206.834	28.0676	ppb	2.1680	7.7	31.0157
Se 196.026	92.2219	ppb	3.4989	3.8	43.3955
Sn 189.925	228.634	ppb	2.9978	1.3	211.792
Sr 216.596	135.086	ppb	0.6167	0.5	1505.78
Ti 334.941	945.148	ppb	2.1541	0.2	283454
Tl 190.794	52.1953	ppb	2.7638	5.3	33.3394
V 292.401	365.966	ppb	0.5164	0.1	10978.9
Zn 206.200	294.357	ppb	1.5418	0.5	401.747

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

680-88401-b-1-f msd (Samp) **3/21/2013, 5:41:38 PM** **Rack 2, Tube 20**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	21.5301	22.5262	21.1451
Al 308.215	38703.0	38668.5	38764.2
As 188.980	134.267	128.378	132.926
B 249.678	179.860	178.857	181.499
Ba 389.178	188.812	188.371	187.829
Be 313.042	56.3272	56.1114	56.2196
Ca 370.602	7747	7726	7734
Cd 226.502	55.5610	55.3246	55.9854
Co 228.615	59.3647	58.7448	59.0788
Cr 267.716	214.127	213.470	214.161
Cu 324.754	134.420	134.384	133.290
Fe 271.441	66655.1	66549.0	66721.7
K 766.491	6135.59	6103.91	6103.28
Mg 279.078	6165.00	6151.90	6177.14
Mn 257.610	1080.61	1077.65	1081.04
Mo 202.032	108.327	108.557	108.297
Na 330.237	5061.34	5084.55	5195.74
Ni 231.604	131.027	132.061	131.580
Pb 220.353	116.639	120.007	121.807
Sb 206.834	29.4352	25.2334	29.3709
Se 196.026	99.8438	98.1186	89.7938
Sn 189.925	231.384	225.641	231.515
Sr 216.596	126.489	125.047	126.133
Ti 334.941	522.972	517.748	521.600
Tl 190.794	54.5634	52.9737	53.0313
V 292.401	276.326	275.442	275.972
Zn 206.200	208.616	208.325	211.067

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	21.7338	ppb	0.7127	3.3	1497.36
Al 308.215	38711.9	ppb	48.4779	0.1	226420
As 188.980	131.857	ppb	3.0868	2.3	79.3354
B 249.678	180.072	ppb	1.3337	0.7	1685.95
Ba 389.178	188.338	ppb	0.4922	0.3	5078.46
Be 313.042	56.2194	ppb	0.1079	0.2	116302
Ca 370.602	7736	ppb	10.31	0.1	22291
Cd 226.502	55.6237	ppb	0.3348	0.6	2375.55
Co 228.615	59.0628	ppb	0.3103	0.5	776.516
Cr 267.716	213.919	ppb	0.3896	0.2	9800.60
Cu 324.754	134.032	ppb	0.6422	0.5	7215.10
Fe 271.441	66641.9	ppb	87.1053	0.1	116486
K 766.491	6114.26	ppb	18.4744	0.3	374163
Mg 279.078	6164.68	ppb	12.6219	0.2	13485.6
Mn 257.610	1079.77	ppb	1.8441	0.2	255344
Mo 202.032	108.394	ppb	0.1423	0.1	801.004
Na 330.237	5113.88	ppb	71.8377	1.4	241.609
Ni 231.604	131.556	ppb	0.5173	0.4	349.563
Pb 220.353	119.484	ppb	2.6234	2.2	203.915
Sb 206.834	28.0132	ppb	2.4076	8.6	27.8467
Se 196.026	95.9187	ppb	5.3740	5.6	45.3659
Sn 189.925	229.513	ppb	3.3543	1.5	212.609
Sr 216.596	125.890	ppb	0.7511	0.6	1388.82
Ti 334.941	520.773	ppb	2.7086	0.5	156139
Tl 190.794	53.5228	ppb	0.9016	1.7	36.1333
V 292.401	275.913	ppb	0.4447	0.2	8276.90
Zn 206.200	209.336	ppb	1.5064	0.7	286.503

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

680-88401-b-2-b (Samp) 3/21/2013, 5:47:03 PM Rack 2, Tube 21

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.1647u	-2.3199u	-3.2126u
Al 308.215	114825	114563	114899
As 188.980	32.6070	32.0286	26.4456
B 249.678	-11.0465u	-9.8966u	-10.4239u
Ba 389.178	346.536	347.683	346.042
Be 313.042	2.6008	2.5889	2.5927
Ca 370.602	6518	6517	6537
Cd 226.502	-1.2162	-0.7952	-1.0196
Co 228.615	19.5652	21.1586	19.1458
Cr 267.716	154.087	153.553	153.955
Cu 324.754	61.0306	62.6933	62.7006
Fe 271.441	172310	172578	172698
K 766.491	3269.61	3275.08	3272.43
Mg 279.078	1825.31	1818.71	1828.93
Mn 257.610	690.227	688.813	689.167
Mo 202.032	6.5076	6.4491	7.3376
Na 330.237	325.021u	226.371u	195.203u
Ni 231.604	53.5420	57.1556	55.8027
Pb 220.353	104.977	106.343	107.435
Sb 206.834	7.3900	-1.3095	5.1591
Se 196.026	-9.7436u	2.7242	1.8120u
Sn 189.925	21.6786	17.1341	21.4954
Sr 216.596	45.8484	44.9567	44.6882
Ti 334.941	1208.86	1203.47	1202.55
Tl 190.794	10.9000	5.9844u	5.6729u
V 292.401	382.179	382.047	382.457
Zn 206.200	312.300	310.248	311.573

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.5657	ppb	0.5656	22.0	-234.159
Al 308.215	114762	ppb	176.582	0.2	670669
As 188.980	30.3604	ppb	3.4026	11.2	14.9610
B 249.678	-10.4557	ppb	0.5756	5.5	-217.451
Ba 389.178	346.754	ppb	0.8418	0.2	9422.33
Be 313.042	2.5942	ppb	0.0061	0.2	5104.10
Ca 370.602	6524	ppb	11.60	0.2	8013
Cd 226.502	-1.0103	ppb	0.2106	20.8	413.469
Co 228.615	19.9565	ppb	1.0619	5.3	296.301
Cr 267.716	153.865	ppb	0.2785	0.2	7079.99
Cu 324.754	62.1415	ppb	0.9621	1.5	3474.17
Fe 271.441	172528	ppb	198.554	0.1	301534
K 766.491	3272.37	ppb	2.7344	0.1	200395
Mg 279.078	1824.31	ppb	5.1820	0.3	4002.19
Mn 257.610	689.403	ppb	0.7358	0.1	163409
Mo 202.032	6.7648	ppb	0.4969	7.3	49.8564
Na 330.237	248.865	ppb	67.7695	27.2	-58.7030
Ni 231.604	55.5001	ppb	1.8257	3.3	149.744
Pb 220.353	106.252	ppb	1.2313	1.2	179.568
Sb 206.834	3.7466	ppb	4.5185	120.6	6.0890
Se 196.026	-1.7358	ppb	6.9500	400.4	-1.1577
Sn 189.925	20.1027	ppb	2.5725	12.8	18.1931
Sr 216.596	45.1645	ppb	0.6074	1.3	564.660
Ti 334.941	1204.96	ppb	3.4071	0.3	361375
Tl 190.794	7.5191	ppb	2.9321	39.0	-2.2841
V 292.401	382.228	ppb	0.2089	0.1	11512.2
Zn 206.200	311.374	ppb	1.0497	0.3	425.654

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88401-b-3-b (Samp) 3/21/2013, 5:52:29 PM Rack 2, Tube 22

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.3627u	-0.9181u	-0.5382u
Al 308.215	146168	146135	145995
As 188.980	17.3111	30.5596	26.6585
B 249.678	-34.4974u	-35.3713u	-34.7196u
Ba 389.178	417.214	416.106	417.128
Be 313.042	3.8147	3.8196	3.8367
Ca 370.602	8057u	8080u	8082u
Cd 226.502	-2.0033	-2.0528	-2.2203
Co 228.615	19.7585	20.0590	20.8262
Cr 267.716	467.746	468.011	467.256
Cu 324.754	108.160	108.506	107.853
Fe 271.441	377464	377838	377754
K 766.491	5787.42	5787.54	5800.64
Mg 279.078	3966.69	3971.11	3955.38
Mn 257.610	703.644	702.490	702.888
Mo 202.032	7.3241	7.5291	7.4985
Na 330.237	458.103u	237.523u	222.862u
Ni 231.604	61.8697	62.6032	62.4372
Pb 220.353	141.855	137.854	138.430
Sb 206.834	-2.3200	1.4870	0.6350
Se 196.026	-2.8304u	2.6892u	5.8550
Sn 189.925	21.4577	23.0628	25.4145
Sr 216.596	48.9981	48.8492	50.0010
Ti 334.941	3513.16	3512.35	3513.61
Tl 190.794	13.0938u	17.7302u	15.3982u
V 292.401	880.327	878.071	880.487
Zn 206.200	607.199	608.552	611.250

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9397	ppb	0.4127	43.9	-116.122
Al 308.215	146099	ppb	92.0006	0.1	853724
As 188.980	24.8431	ppb	6.8083	27.4	9.4214
B 249.678	-34.8627	ppb	0.4542	1.3	-642.753
Ba 389.178	416.816	ppb	0.6161	0.1	11614.2
Be 313.042	3.8236	ppb	0.0115	0.3	7634.06
Ca 370.602	8073	ppb	13.87	0.2	-5146
Cd 226.502	-2.0921	ppb	0.1137	5.4	900.149
Co 228.615	20.2146	ppb	0.5506	2.7	357.025
Cr 267.716	467.671	ppb	0.3828	0.1	21465.8
Cu 324.754	108.173	ppb	0.3267	0.3	5946.69
Fe 271.441	377686	ppb	196.515	0.1	660084
K 766.491	5791.87	ppb	7.5990	0.1	354451
Mg 279.078	3964.39	ppb	8.1124	0.2	8708.09
Mn 257.610	703.007	ppb	0.5860	0.1	167210
Mo 202.032	7.4506	ppb	0.1106	1.5	43.4969
Na 330.237	306.163	ppb	131.788	43.0	-140.364
Ni 231.604	62.3033	ppb	0.3846	0.6	172.153
Pb 220.353	139.379	ppb	2.1628	1.6	234.348
Sb 206.834	-0.0660	ppb	1.9980	3028.1	9.9634
Se 196.026	1.9046	ppb	4.3956	230.8	-0.7816
Sn 189.925	23.3117	ppb	1.9901	8.5	21.1677
Sr 216.596	49.2828	ppb	0.6264	1.3	693.889
Ti 334.941	3513.04	ppb	0.6384	0.0	1053785
Tl 190.794	15.4074	ppb	2.3182	15.0	-4.1391
V 292.401	879.628	ppb	1.3514	0.2	26496.0
Zn 206.200	609.000	ppb	2.0622	0.3	830.280

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88401-b-4-b (Samp) 3/21/2013, 5:57:55 PM Rack 2, Tube 23

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7166u	-2.1553u	-1.4205u
Al 308.215	150201	151245	150755
As 188.980	6.7087	11.0818	5.7036
B 249.678	-13.0246u	-13.7284u	-12.2951u
Ba 389.178	332.729	335.529	334.687
Be 313.042	2.8905	2.9029	2.8788
Ca 370.602	5595	5631	5599
Cd 226.502	-2.2048	-2.1912	-1.8421
Co 228.615	14.3191	14.5367	14.3400
Cr 267.716	309.412	311.680	310.764
Cu 324.754	88.8745	89.1789	89.9824
Fe 271.441	205263	206449	205995
K 766.491	11014.2	11096.6	11082.7
Mg 279.078	9169.44	9223.90	9213.04
Mn 257.610	444.671	447.362	445.877
Mo 202.032	4.4945	3.0508	3.3993
Na 330.237	492.879u	555.876u	516.128u
Ni 231.604	41.9188	41.3339	43.2835
Pb 220.353	92.0999	106.047	95.3424
Sb 206.834	6.8132	2.6406	3.4300
Se 196.026	1.0055u	4.4413	-1.6966u
Sn 189.925	23.3708	23.2103	19.1326
Sr 216.596	37.3088	37.9329	38.2619
Ti 334.941	4580.80	4612.43	4598.26
Tl 190.794	17.4127	18.6335	6.1047u
V 292.401	508.714	511.493	510.376
Zn 206.200	173.699	172.245	175.265

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.4308	ppb	0.7194	50.3	-153.280
Al 308.215	150734	ppb	522.318	0.3	880803
As 188.980	7.8314	ppb	2.8595	36.5	0.5588
B 249.678	-13.0160	ppb	0.7167	5.5	-273.308
Ba 389.178	334.315	ppb	1.4364	0.4	9170.34
Be 313.042	2.8907	ppb	0.0120	0.4	5716.81
Ca 370.602	5608	ppb	19.47	0.3	2199
Cd 226.502	-2.0793	ppb	0.2056	9.9	457.578
Co 228.615	14.3986	ppb	0.1200	0.8	319.550
Cr 267.716	310.619	ppb	1.1406	0.4	14254.7
Cu 324.754	89.3453	ppb	0.5724	0.6	4909.66
Fe 271.441	205902	ppb	598.794	0.3	359862
K 766.491	11064.5	ppb	44.0998	0.4	676848
Mg 279.078	9202.13	ppb	28.8239	0.3	20125.9
Mn 257.610	445.970	ppb	1.3478	0.3	106038
Mo 202.032	3.6482	ppb	0.7534	20.7	25.0451
Na 330.237	521.628	ppb	31.8565	6.1	-80.1956
Ni 231.604	42.1787	ppb	1.0004	2.4	115.068
Pb 220.353	97.8298	ppb	7.2988	7.5	162.616
Sb 206.834	4.2946	ppb	2.2166	51.6	8.9614
Se 196.026	1.2501	ppb	3.0763	246.1	-0.0329
Sn 189.925	21.9046	ppb	2.4019	11.0	19.8646
Sr 216.596	37.8346	ppb	0.4841	1.3	499.456
Ti 334.941	4597.16	ppb	15.8430	0.3	1379002
Tl 190.794	14.0503	ppb	6.9081	49.2	1.6740
V 292.401	510.195	ppb	1.3985	0.3	15409.8
Zn 206.200	173.736	ppb	1.5999	0.9	237.757

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88401-b-5-b (Samp) 3/21/2013, 6:13:00 PM Rack 2, Tube 24

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.3242u	-1.0622u	-0.4797u
Al 308.215	112500	112460	112121
As 188.980	40.8937	54.0865	51.1368
B 249.678	-22.2031u	-22.5578u	-21.7113u
Ba 389.178	220.190	219.401	220.655
Be 313.042	2.9253	2.9222	2.9222
Ca 370.602	23542	23562	23571
Cd 226.502	-2.4962	-2.0772	-2.3683
Co 228.615	12.2728	11.9776	12.5026
Cr 267.716	258.777	259.182	258.705
Cu 324.754	86.3797	87.0514	87.3286
Fe 271.441	242030	242387	241775
K 766.491	6398.23	6411.50	6399.38
Mg 279.078	3347.13	3346.38	3342.21
Mn 257.610	850.597	849.513	847.549
Mo 202.032	8.2217	8.1627	7.5743
Na 330.237	407.952u	381.917u	613.523u
Ni 231.604	57.0209	56.4343	56.1143
Pb 220.353	89.7224	93.4889	88.9824
Sb 206.834	5.1737	-1.0836	5.8627
Se 196.026	11.9120	-19.2633u	-12.6506u
Sn 189.925	18.7230	20.6479	23.4994
Sr 216.596	69.2450	69.7522	69.3216
Ti 334.941	1447.52	1445.23	1445.50
Tl 190.794	6.7677u	12.5844u	0.0634u
V 292.401	498.730	499.198	497.792
Zn 206.200	123.545	119.440	118.915

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9554	ppb	0.4323	45.2	-119.172
Al 308.215	112360	ppb	208.248	0.2	656636
As 188.980	48.7056	ppb	6.9242	14.2	25.8286
B 249.678	-22.1574	ppb	0.4251	1.9	-394.127
Ba 389.178	220.082	ppb	0.6343	0.3	6193.24
Be 313.042	2.9232	ppb	0.0018	0.1	5786.25
Ca 370.602	23558	ppb	14.54	0.1	64089
Cd 226.502	-2.3139	ppb	0.2148	9.3	541.656
Co 228.615	12.2510	ppb	0.2632	2.1	202.403
Cr 267.716	258.888	ppb	0.2570	0.1	11894.8
Cu 324.754	86.9199	ppb	0.4880	0.6	4794.01
Fe 271.441	242064	ppb	307.746	0.1	423059
K 766.491	6403.04	ppb	7.3484	0.1	391821
Mg 279.078	3345.24	ppb	2.6514	0.1	7337.45
Mn 257.610	849.220	ppb	1.5452	0.2	201364
Mo 202.032	7.9862	ppb	0.3579	4.5	55.0530
Na 330.237	467.797	ppb	126.871	27.1	-69.2124
Ni 231.604	56.5232	ppb	0.4598	0.8	153.927
Pb 220.353	90.7312	ppb	2.4167	2.7	153.000
Sb 206.834	3.3176	ppb	3.8271	115.4	8.2554
Se 196.026	-6.6673	ppb	16.4264	246.4	-3.8826
Sn 189.925	20.9568	ppb	2.4031	11.5	18.9922
Sr 216.596	69.4396	ppb	0.2734	0.4	857.464
Ti 334.941	1446.08	ppb	1.2520	0.1	433723
Tl 190.794	6.4718	ppb	6.2657	96.8	-5.9253
V 292.401	498.573	ppb	0.7160	0.1	15009.8
Zn 206.200	120.633	ppb	2.5349	2.1	155.554

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

Cont Calib Verif (CCV) 3/21/2013, 6:18:25 PM Rack 2, Tube 25
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	521.342	517.689	523.083
Al 308.215	5127.72	5121.91	5107.66
As 188.980	456.920	454.691	451.752
B 249.678	2560.72	2568.25	2583.60
Ba 389.178	5099.48	5093.26	5078.50
Be 313.042	512.195	510.976	509.276
Ca 370.602	5186	5174	5153
Cd 226.502	515.740	513.644	512.151
Co 228.615	508.061	505.778	506.762
Cr 267.716	5249.65	5224.33	5218.33
Cu 324.754	5066.23	5006.85	4947.43
Fe 271.441	5155.54	5134.30	5145.85
K 766.491	9952.47	9937.80	9938.63
Mg 279.078	5121.17	5102.02	5099.61
Mn 257.610	5145.21	5122.13	5108.34
Mo 202.032	521.523	519.515	519.055
Na 330.237	7554.60	7605.31	7896.64
Ni 231.604	2607.52	2594.63	2592.70
Pb 220.353	537.628	531.748	531.653
Sb 206.834	944.448	947.827	952.232
Se 196.026	5010.27	4996.25	5029.88
Sn 189.925	5279.36	5213.34	5229.06
Sr 216.596	2639.05	2631.71	2623.15
Ti 334.941	520.431	519.275	518.344
Tl 190.794	5370.36	5304.35	5316.99
V 292.401	5072.23	5057.79	5042.15
Zn 206.200	2606.53	2596.54	2587.07

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	520.705	ppb	2.7529	0.5	37042.7	104.14099
Al 308.215	5119.10	ppb	10.3187	0.2	30147.9	102.38190
As 188.980	454.454	ppb	2.5922	0.6	281.043	90.89085
B 249.678	2570.86	ppb	11.6596	0.5	24372.4	102.83429
Ba 389.178	5090.41	ppb	10.7759	0.2	134513	101.80827
Be 313.042	510.816	ppb	1.4658	0.3	1058859	102.16314
Ca 370.602	5171	ppb	16.79	0.3	18832	103.41643
Cd 226.502	513.845	ppb	1.8027	0.4	20298.2	102.76900
Co 228.615	506.867	ppb	1.1450	0.2	6490.87	101.37337
Cr 267.716	5230.77	ppb	16.6209	0.3	239006	104.61546
Cu 324.754	5006.84	ppb	59.4026	1.2	262680	100.13675
Fe 271.441	5145.23	ppb	10.6355	0.2	9129.53	102.90462
K 766.491	9942.96	ppb	8.2441	0.1	608271	99.42965
Mg 279.078	5107.60	ppb	11.8103	0.2	11107.1	102.15197
Mn 257.610	5125.23	ppb	18.6303	0.4	1210763	102.50454
Mo 202.032	520.031	ppb	1.3122	0.3	3814.83	104.00616
Na 330.237	7685.52	ppb	184.588	2.4	380.431	102.47354
Ni 231.604	2598.28	ppb	8.0608	0.3	6902.12	103.93132
Pb 220.353	533.676	ppb	3.4224	0.6	912.490	106.73523
Sb 206.834	948.169	ppb	3.9033	0.4	1003.76	94.81692
Se 196.026	5012.13	ppb	16.8922	0.3	2349.69	100.24261
Sn 189.925	5240.58	ppb	34.4878	0.7	4864.74	104.81170
Sr 216.596	2631.30	ppb	7.9608	0.3	28389.9	105.25217
Ti 334.941	519.350	ppb	1.0452	0.2	155697	103.87004
Tl 190.794	5330.57	ppb	35.0381	0.7	4026.56	106.61140
V 292.401	5057.39	ppb	15.0413	0.3	151730	101.14778
Zn 206.200	2596.71	ppb	9.7270	0.4	3525.82	103.86847

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

Cont Calib Blank (CCB) 3/21/2013, 6:23:51 PM Rack 2, Tube 26
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3336u	0.7350	-0.2003u
Al 308.215	0.6488	0.9134	1.0008
As 188.980	-4.1416u	-2.3769u	5.9717
B 249.678	26.9437	22.8165	21.4178
Ba 389.178	0.6530	1.0229	1.0723
Be 313.042	0.0553	0.0544	0.0786
Ca 370.602	3.941	5.360	6.391
Cd 226.502	-0.0206u	0.1672	0.1574
Co 228.615	0.4722	-0.0393u	-0.0800u
Cr 267.716	0.6037	0.4798	0.8870
Cu 324.754	0.0648	-0.0178u	0.3110
Fe 271.441	8.9659	5.0471	18.9196
K 766.491	-0.1566u	-0.2924u	0.7886
Mg 279.078	4.6761	-1.4336u	-1.4330u
Mn 257.610	0.7391	0.7197	0.9369
Mo 202.032	0.9255	0.7928	0.4342
Na 330.237	89.1146	-152.404u	161.758
Ni 231.604	1.2993	2.7653	0.8187
Pb 220.353	3.8777	0.8671	-0.0930u
Sb 206.834	13.7482	5.9879	1.2056
Se 196.026	-3.9061u	-10.3518u	-5.8332u
Sn 189.925	3.2835	-0.4237u	1.3648
Sr 216.596	0.4548	0.4325	-0.2350u
Ti 334.941	0.4696	0.3622	0.4349
Tl 190.794	3.2176	-3.5451u	1.1310
V 292.401	0.8167	0.2517	0.9978
Zn 206.200	-1.0475u	0.2536	1.7897

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0670	ppb	0.5823	868.5	-49.5349	0.06705
Al 308.215	0.8543	ppb	0.1833	21.5	271.119	0.85435
As 188.980	-0.1822	ppb	5.4020	2964.2	-2.3710	-0.18225
B 249.678	23.7260	ppb	2.8730	12.1	269.172	23.72602
Ba 389.178	0.9161	ppb	0.2291	25.0	-1.3995	0.91608
Be 313.042	0.0628	ppb	0.0137	21.8	-140.838	0.06277
Ca 370.602	5.230	ppb	1.230	23.5	15.71	5.23040
Cd 226.502	0.1013	ppb	0.1057	104.3	12.9564	0.10133
Co 228.615	0.1176	ppb	0.3078	261.6	15.7428	0.11764
Cr 267.716	0.6568	ppb	0.2088	31.8	37.5459	0.65683
Cu 324.754	0.1193	ppb	0.1710	143.3	172.023	0.11934
Fe 271.441	10.9775	ppb	7.1517	65.1	26.0017	10.97753
K 766.491	0.1132	ppb	0.5888	520.0	312.309	0.11322
Mg 279.078	0.6032	ppb	3.5273	584.8	31.1272	0.60320
Mn 257.610	0.7985	ppb	0.1202	15.1	258.372	0.79854
Mo 202.032	0.7175	ppb	0.2542	35.4	14.9854	0.71754
Na 330.237	32.8230	ppb	164.472	501.1	-4.3885	32.82302
Ni 231.604	1.6278	ppb	1.0140	62.3	2.9403	1.62776
Pb 220.353	1.5506	ppb	2.0717	133.6	3.3337	1.55059
Sb 206.834	6.9806	ppb	6.3299	90.7	3.9664	6.98057
Se 196.026	-6.6970	ppb	3.3086	49.4	-2.5244	-6.69702
Sn 189.925	1.4082	ppb	1.8540	131.7	0.8390	1.40823
Sr 216.596	0.2174	ppb	0.3920	180.3	8.1456	0.21745
Ti 334.941	0.4222	ppb	0.0548	13.0	5.1953	0.42221
Tl 190.794	0.2678	ppb	3.4630	1292.9	-0.4448	0.26785
V 292.401	0.6887	ppb	0.3891	56.5	24.1809	0.68874
Zn 206.200	0.3320	ppb	1.4202	427.8	2.3440	0.33195

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

680-88401-b-6-b (Samp) 3/21/2013, 6:29:16 PM Rack 2, Tube 27

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.1578u	-1.9783u	-1.0674u
Al 308.215	105646	105942	105667
As 188.980	57.3074	43.4248	48.7448
B 249.678	-26.2458u	-29.3638u	-28.0694u
Ba 389.178	92.8130	92.8619	92.1507
Be 313.042	3.7128	3.7131	3.7221
Ca 370.602	3785u	3726u	3692u
Cd 226.502	-3.0163	-3.0365	-3.2168
Co 228.615	13.6989	13.2549	13.1577
Cr 267.716	367.542	369.974	369.821
Cu 324.754	83.3517	83.2819	83.1071
Fe 271.441	305989	306300	306262
K 766.491	3379.92	3375.98	3377.30
Mg 279.078	1727.83	1739.91	1738.61
Mn 257.610	435.847	437.228	437.463
Mo 202.032	8.4954	8.6449	8.5177
Na 330.237	292.240u	407.192u	577.888u
Ni 231.604	28.4778	30.6592	26.8524
Pb 220.353	84.6417	84.8669	77.2021
Sb 206.834	4.2326	8.5155	13.9635
Se 196.026	-11.4849u	12.8995	10.7451
Sn 189.925	18.8660	23.0392	23.7905
Sr 216.596	28.6002	28.5635	27.7811
Ti 334.941	1377.44	1384.86	1386.71
Tl 190.794	2.4999u	7.5213u	10.4396u
V 292.401	603.403	604.210	604.031
Zn 206.200	84.4647	85.8390	87.3617

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.4012	ppb	0.5018	35.8	-150.793
Al 308.215	105752	ppb	164.896	0.2	618028
As 188.980	49.8257	ppb	7.0041	14.1	25.7049
B 249.678	-27.8930	ppb	1.5664	5.6	-508.925
Ba 389.178	92.6085	ppb	0.3973	0.4	2924.28
Be 313.042	3.7160	ppb	0.0053	0.1	7417.37
Ca 370.602	3734	ppb	47.45	1.3	-14784
Cd 226.502	-3.0899	ppb	0.1104	3.6	675.858
Co 228.615	13.3705	ppb	0.2885	2.2	212.924
Cr 267.716	369.112	ppb	1.3623	0.4	16943.3
Cu 324.754	83.2469	ppb	0.1260	0.2	4620.23
Fe 271.441	306184	ppb	169.349	0.1	535119
K 766.491	3377.73	ppb	2.0086	0.1	206838
Mg 279.078	1735.45	ppb	6.6290	0.4	3840.06
Mn 257.610	436.846	ppb	0.8732	0.2	104126
Mo 202.032	8.5527	ppb	0.0806	0.9	55.7575
Na 330.237	425.774	ppb	143.728	33.8	-90.7621
Ni 231.604	28.6631	ppb	1.9101	6.7	81.2490
Pb 220.353	82.2369	ppb	4.3617	5.3	138.548
Sb 206.834	8.9039	ppb	4.8771	54.8	16.4340
Se 196.026	4.0532	ppb	13.4995	333.1	0.6280
Sn 189.925	21.8986	ppb	2.6530	12.1	19.8559
Sr 216.596	28.3149	ppb	0.4626	1.6	437.729
Ti 334.941	1383.00	ppb	4.9053	0.4	414801
Tl 190.794	6.8203	ppb	4.0160	58.9	-7.6552
V 292.401	603.881	ppb	0.4237	0.1	18170.0
Zn 206.200	85.8885	ppb	1.4491	1.7	417.940

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88401-b-7-b (Samp) 3/21/2013, 6:34:41 PM Rack 2, Tube 28

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8717u	-0.1041u	-0.4049u
Al 308.215	66500.1	66987.4	66384.1
As 188.980	14.6315	7.8098	5.6827
B 249.678	3.6957u	3.2811u	3.1208u
Ba 389.178	55.3914	54.5521	55.4386
Be 313.042	1.3271	1.3368	1.3327
Ca 370.602	3257	3270	3250
Cd 226.502	-0.3710	-0.1348	-0.2693
Co 228.615	8.0035	8.2724	7.9456
Cr 267.716	43.4872	43.6653	43.4587
Cu 324.754	17.6984	17.6962	16.8403
Fe 271.441	41659.3	42009.1	41571.6
K 766.491	1159.99	1164.79	1150.03
Mg 279.078	977.453	986.796	984.935
Mn 257.610	150.206	151.389	150.114
Mo 202.032	1.7415	1.3807	2.2649
Na 330.237	323.548	263.362u	168.176u
Ni 231.604	12.8973	11.8784	12.1838
Pb 220.353	36.6811	32.3214	33.4612
Sb 206.834	2.8597	9.2232	3.6224
Se 196.026	-0.9023u	-2.0802u	3.5015
Sn 189.925	14.3887	18.7816	12.7911
Sr 216.596	19.9543	20.8595	20.1763
Ti 334.941	422.633	425.061	422.706
Tl 190.794	0.0584u	0.1989u	-1.1104u
V 292.401	113.129	114.250	114.168
Zn 206.200	28.2555	26.2854	26.1510

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4602	ppb	0.3867	84.0	-86.5020
Al 308.215	66623.9	ppb	320.112	0.5	389463
As 188.980	9.3747	ppb	4.6751	49.9	3.1882
B 249.678	3.3659	ppb	0.2967	8.8	36.9881
Ba 389.178	55.1274	ppb	0.4987	0.9	1501.86
Be 313.042	1.3322	ppb	0.0048	0.4	2494.71
Ca 370.602	3259	ppb	10.20	0.3	8134
Cd 226.502	-0.2584	ppb	0.1185	45.8	106.334
Co 228.615	8.0739	ppb	0.1744	2.2	127.634
Cr 267.716	43.5371	ppb	0.1120	0.3	2007.38
Cu 324.754	17.4116	ppb	0.4948	2.8	1090.63
Fe 271.441	41746.7	ppb	231.434	0.6	72968.1
K 766.491	1158.27	ppb	7.5250	0.6	71128.1
Mg 279.078	983.061	ppb	4.9455	0.5	2162.93
Mn 257.610	150.570	ppb	0.7112	0.5	35758.5
Mo 202.032	1.7957	ppb	0.4446	24.8	20.5573
Na 330.237	251.695	ppb	78.3407	31.1	-9.2678
Ni 231.604	12.3198	ppb	0.5229	4.2	32.2513
Pb 220.353	34.1546	ppb	2.2611	6.6	57.5886
Sb 206.834	5.2351	ppb	3.4748	66.4	3.5759
Se 196.026	0.1730	ppb	2.9421	1701.0	0.4581
Sn 189.925	15.3205	ppb	3.1020	20.2	13.7553
Sr 216.596	20.3300	ppb	0.4717	2.3	242.878
Ti 334.941	423.467	ppb	1.3815	0.3	126922
Tl 190.794	-0.2844	ppb	0.7188	252.8	-2.6067
V 292.401	113.849	ppb	0.6248	0.5	3432.60
Zn 206.200	26.8973	ppb	1.1782	4.4	384210

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

680-88401-b-8-b (Samp) 3/21/2013, 6:40:06 PM Rack 2, Tube 29

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7561u	-1.0937u	-0.4049u
Al 308.215	74494.6	74470.2	74646.8
As 188.980	119.298	113.399	114.908
B 249.678	-5.8414u	-4.1049u	-5.2746u
Ba 389.178	530.259	527.925	530.575
Be 313.042	3.1233	3.1251	3.1206
Ca 370.602	28508	28476	28412
Cd 226.502	-0.9682	-1.2316	-1.1526
Co 228.615	28.8574	28.4042	28.8476
Cr 267.716	160.310	160.212	159.637
Cu 324.754	222.815	218.736	220.618
Fe 271.441	147372	147404	148059
K 766.491	4008.51	4011.58	4004.74
Mg 279.078	3022.79	3028.28	3036.89
Mn 257.610	710.572	710.569	712.124
Mo 202.032	8.7883	8.2485	8.9301
Na 330.237	339.629u	396.758u	141.235u
Ni 231.604	55.9597	55.3241	57.4312
Pb 220.353	451.723	452.043	451.187
Sb 206.834	1.9958	1.9652	2.9245
Se 196.026	1.3452u	-3.2900u	6.9936
Sn 189.925	39.6141	39.4344	38.7228
Sr 216.596	109.756	108.541	110.851
Ti 334.941	1683.64	1679.76	1675.12
Tl 190.794	13.1864	6.6062u	6.9345u
V 292.401	319.563	320.828	319.967
Zn 206.200	223.599	224.637	228.356

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7516	ppb	0.3444	45.8	-107.777
Al 308.215	74537.2	ppb	95.6692	0.1	435687
As 188.980	115.868	ppb	3.0643	2.6	68.7316
B 249.678	-5.0736	ppb	0.8855	17.5	-142.910
Ba 389.178	529.586	ppb	1.4473	0.3	14216.2
Be 313.042	3.1230	ppb	0.0022	0.1	6207.11
Ca 370.602	28466	ppb	49.08	0.2	91067
Cd 226.502	-1.1174	ppb	0.1352	12.1	344.973
Co 228.615	28.7031	ppb	0.2589	0.9	422.211
Cr 267.716	160.053	ppb	0.3634	0.2	7358.25
Cu 324.754	220.723	ppb	2.0415	0.9	11782.9
Fe 271.441	147612	ppb	387.784	0.3	257990
K 766.491	4008.28	ppb	3.4225	0.1	245392
Mg 279.078	3029.32	ppb	7.1050	0.2	6643.25
Mn 257.610	711.088	ppb	0.8968	0.1	168468
Mo 202.032	8.6556	ppb	0.3597	4.2	65.1139
Na 330.237	292.541	ppb	134.112	45.8	-51.6643
Ni 231.604	56.2383	ppb	1.0809	1.9	151.166
Pb 220.353	451.651	ppb	0.4327	0.1	770.266
Sb 206.834	2.2952	ppb	0.5452	23.8	4.0860
Se 196.026	1.6829	ppb	5.1501	306.0	0.6106
Sn 189.925	39.2571	ppb	0.4714	1.2	35.9861
Sr 216.596	109.716	ppb	1.1551	1.1	1254.28
Ti 334.941	1679.51	ppb	4.2661	0.3	503729
Tl 190.794	8.9090	ppb	3.7080	41.6	-0.3053
V 292.401	320.119	ppb	0.6463	0.2	9651.11
Zn 206.200	225.531	ppb	2.5013	1.1	208.703

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

680-88401-b-9-b (Samp) 3/21/2013, 6:45:31 PM Rack 2, Tube 30

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.9341u	-1.4883u	-1.7398u
Al 308.215	115858	115909	115832
As 188.980	22.4864	27.8769	28.9667
B 249.678	-12.8434u	-13.8970u	-11.2241u
Ba 389.178	388.984	390.484	389.099
Be 313.042	2.5057	2.5067	2.5042
Ca 370.602	58643	58616	58464
Cd 226.502	-2.2664	-2.1352	-2.3955
Co 228.615	12.1696	13.0905	11.6224
Cr 267.716	186.043	185.777	185.537
Cu 324.754	52.1950	52.1477	52.5543
Fe 271.441	230089	230165	229487
K 766.491	7132.86	7147.25	7154.10
Mg 279.078	6635.99	6624.45	6621.98
Mn 257.610	494.616	494.375	493.698
Mo 202.032	8.0008	7.1988	7.5830
Na 330.237	495.374u	330.487u	189.346u
Ni 231.604	30.9828	30.5550	33.4653
Pb 220.353	109.797	110.479	105.087
Sb 206.834	-3.5696	5.6652	-3.1400
Se 196.026	-2.8267u	8.9970	-0.8546u
Sn 189.925	21.6559	20.9224	15.0324
Sr 216.596	59.8245	59.7349	59.4171
Ti 334.941	2064.84	2065.73	2056.57
Tl 190.794	3.0159u	14.7475	3.7943u
V 292.401	729.699	729.890	729.093
Zn 206.200	102.064	105.611	99.2513

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.7207	ppb	0.2235	13.0	-173.715
Al 308.215	115866	ppb	39.3885	0.0	677113
As 188.980	26.4433	ppb	3.4698	13.1	12.3604
B 249.678	-12.6548	ppb	1.3464	10.6	-292.534
Ba 389.178	389.522	ppb	0.8345	0.2	10660.7
Be 313.042	2.5055	ppb	0.0013	0.1	4924.44
Ca 370.602	58574	ppb	96.44	0.2	194007
Cd 226.502	-2.2657	ppb	0.1302	5.7	511.864
Co 228.615	12.2942	ppb	0.7420	6.0	220.443
Cr 267.716	185.786	ppb	0.2533	0.1	8549.13
Cu 324.754	52.2990	ppb	0.2224	0.4	2972.27
Fe 271.441	229914	ppb	371.680	0.2	401826
K 766.491	7144.74	ppb	10.8413	0.2	437172
Mg 279.078	6627.47	ppb	7.4791	0.1	14513.4
Mn 257.610	494.230	ppb	0.4760	0.1	117493
Mo 202.032	7.5942	ppb	0.4011	5.3	52.3610
Na 330.237	338.402	ppb	153.167	45.3	-77.0166
Ni 231.604	31.6677	ppb	1.5714	5.0	87.6312
Pb 220.353	108.454	ppb	2.9356	2.7	182.803
Sb 206.834	-0.3481	ppb	5.2121	1497.1	3.5629
Se 196.026	1.7719	ppb	6.3343	357.5	0.0675
Sn 189.925	19.2036	ppb	3.6309	18.9	17.3808
Sr 216.596	59.6588	ppb	0.2141	0.4	750.564
Ti 334.941	2062.38	ppb	5.0530	0.2	618612
Tl 190.794	7.1859	ppb	6.5601	91.3	-4.4244
V 292.401	729.560	ppb	0.4160	0.1	21975.0
Zn 206.200	102.309	ppb	3.1869	3.1	140.781

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

680-88401-b-10-b (Samp) 3/21/2013, 6:50:56 PM Rack 2, Tube 31
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.5376u	-2.3128u	-1.6847u
Al 308.215	166078	165643	166047
As 188.980	18.0369	24.4475	24.0620
B 249.678	-30.0820u	-31.5951u	-28.9194u
Ba 389.178	668.674	667.544	668.012
Be 313.042	3.0919	3.0676	3.0579
Ca 370.602	7325u	7341u	7338u
Cd 226.502	-3.4183	-3.2794	-3.4229
Co 228.615	11.9379	12.3363	12.4777
Cr 267.716	224.916	223.479	224.156
Cu 324.754	94.6288	92.8654	92.2582
Fe 271.441	393845	393276	392782
K 766.491	8348.85	8347.13	8350.06
Mg 279.078	6325.08	6305.25	6304.79
Mn 257.610	611.758	610.676	611.312
Mo 202.032	5.0041	4.4199	4.2227
Na 330.237	332.355u	377.328u	138.649u
Ni 231.604	37.4283	33.1747	36.9620
Pb 220.353	157.100	156.095	159.785
Sb 206.834	7.4152	2.8476	3.9626
Se 196.026	-11.6670u	3.3575u	-7.5964u
Sn 189.925	18.6863	20.1278	26.4584
Sr 216.596	64.2715	64.1673	63.9809
Ti 334.941	2509.95	2509.77	2508.50
Tl 190.794	8.8428u	10.5549u	10.2345u
V 292.401	552.166	551.174	552.394
Zn 206.200	122.846	121.393	125.618

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.8450	ppb	0.4117	22.3	-183.606
Al 308.215	165923	ppb	242.662	0.1	969531
As 188.980	22.1821	ppb	3.5950	16.2	7.6029
B 249.678	-30.1988	ppb	1.3417	4.4	-612.684
Ba 389.178	668.077	ppb	0.5680	0.1	18283.4
Be 313.042	3.0724	ppb	0.0175	0.6	6090.70
Ca 370.602	7335	ppb	8.889	0.1	-9470
Cd 226.502	-3.3735	ppb	0.0815	2.4	887.972
Co 228.615	12.2507	ppb	0.2799	2.3	226.640
Cr 267.716	224.184	ppb	0.7191	0.3	10343.9
Cu 324.754	93.2508	ppb	1.2314	1.3	5172.20
Fe 271.441	393301	ppb	531.528	0.1	687370
K 766.491	8348.68	ppb	1.4704	0.0	510788
Mg 279.078	6311.71	ppb	11.5877	0.2	13836.3
Mn 257.610	611.249	ppb	0.5439	0.1	145589
Mo 202.032	4.5489	ppb	0.4063	8.9	22.0804
Na 330.237	282.777	ppb	126.828	44.9	-134.775
Ni 231.604	35.8550	ppb	2.3329	6.5	102.202
Pb 220.353	157.660	ppb	1.9077	1.2	265.725
Sb 206.834	4.7418	ppb	2.3814	50.2	12.8976
Se 196.026	-5.3020	ppb	7.7706	146.6	-4.2756
Sn 189.925	21.7575	ppb	4.1344	19.0	19.7242
Sr 216.596	64.1399	ppb	0.1472	0.2	861.092
Ti 334.941	2509.41	ppb	0.7880	0.0	752732
Tl 190.794	9.8774	ppb	0.9102	9.2	-8.9261
V 292.401	551.911	ppb	0.6489	0.1	16635.3
Zn 206.200	123.286	ppb	2.1465	1.7	159.254

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88401-b-11-b (Samp) 3/21/2013, 6:56:32 PM Rack 2, Tube 32

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.1258u	-0.7044u	-2.1348u
Al 308.215	99147.3	98868.0	98878.9
As 188.980	31.3644	26.3834	28.1331
B 249.678	-15.1385u	-15.5668u	-14.0777u
Ba 389.178	323.474	321.022	322.339
Be 313.042	2.4027	2.3746	2.3781
Ca 370.602	6903	6901	6902
Cd 226.502	-0.6105	-0.5907	-0.4875
Co 228.615	24.4667	24.3955	24.1183
Cr 267.716	161.724	161.221	161.359
Cu 324.754	60.1156	59.5455	60.0624
Fe 271.441	180901	180197	180353
K 766.491	2978.03	2971.66	2978.05
Mg 279.078	1559.55	1553.60	1548.19
Mn 257.610	918.487	913.371	915.206
Mo 202.032	6.5981	6.8848	7.0228
Na 330.237	285.873u	10.9996u	208.139u
Ni 231.604	49.8614	49.5971	49.7063
Pb 220.353	96.8364	98.6054	97.3713
Sb 206.834	2.4896	3.6337	10.7550
Se 196.026	5.9834	13.1370	-0.8583u
Sn 189.925	18.1089	19.2838	19.7049
Sr 216.596	45.5532	45.5554	45.3902
Ti 334.941	1162.16	1158.94	1158.56
Tl 190.794	11.3398	6.0013u	-2.2556u
V 292.401	403.840	402.445	402.592
Zn 206.200	386.934	381.773	383.788

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.3217	ppb	0.7350	55.6	-144.459
Al 308.215	98964.8	ppb	158.202	0.2	578385
As 188.980	28.6270	ppb	2.5269	8.8	13.8023
B 249.678	-14.9276	ppb	0.7666	5.1	-267.210
Ba 389.178	322.278	ppb	1.2272	0.4	8787.62
Be 313.042	2.3851	ppb	0.0153	0.6	4668.05
Ca 370.602	6902	ppb	1.143	0.0	8661
Cd 226.502	-0.5629	ppb	0.0660	11.7	451.369
Co 228.615	24.3268	ppb	0.1841	0.8	350.707
Cr 267.716	161.435	ppb	0.2599	0.2	7428.19
Cu 324.754	59.9078	ppb	0.3149	0.5	3359.27
Fe 271.441	180484	ppb	370.038	0.2	315438
K 766.491	2975.92	ppb	3.6822	0.1	182269
Mg 279.078	1553.78	ppb	5.6804	0.4	3413.52
Mn 257.610	915.688	ppb	2.5916	0.3	216882
Mo 202.032	6.8353	ppb	0.2167	3.2	49.9347
Na 330.237	168.337	ppb	141.693	84.2	-65.7358
Ni 231.604	49.7216	ppb	0.1328	0.3	134.551
Pb 220.353	97.6044	ppb	0.9072	0.9	165.156
Sb 206.834	5.6261	ppb	4.4785	79.6	8.2427
Se 196.026	6.0874	ppb	6.9982	115.0	2.5089
Sn 189.925	19.0325	ppb	0.8271	4.3	17.1996
Sr 216.596	45.4996	ppb	0.0947	0.2	571.658
Ti 334.941	1159.89	ppb	1.9771	0.2	347854
Tl 190.794	5.0285	ppb	6.8497	136.2	-4.7136
V 292.401	402.959	ppb	0.7666	0.2	12134.9
Zn 206.200	384.165	ppb	2.6910	0.7	524.792

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88401-b-29-d (Samp) 3/21/2013, 7:01:58 PM Rack 2, Tube 33

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3549	-0.9427u	-1.2565u
Al 308.215	62608.5	63014.7	62902.5
As 188.980	19.1851	11.8396	9.8146
B 249.678	-4.1011u	-3.9428u	-0.6883u
Ba 389.178	192.889	193.377	192.990
Be 313.042	1.4950	1.5098	1.5105
Ca 370.602	6199	6218	6206
Cd 226.502	-1.9707	-1.5168	-2.2022
Co 228.615	3.9406	3.2265	4.5833
Cr 267.716	361.320	363.438	362.370
Cu 324.754	47.9309	47.3823	47.0980
Fe 271.441	171980	172976	172874
K 766.491	2266.41	2284.30	2283.21
Mg 279.078	1634.35	1653.07	1645.49
Mn 257.610	144.438	145.213	144.980
Mo 202.032	4.8621	4.3239	4.0544
Na 330.237	-24.3784u	182.295u	116.235u
Ni 231.604	9.6591	10.2037	11.0988
Pb 220.353	70.4762	69.8730	67.6930
Sb 206.834	-2.1598	-1.9730	5.4577
Se 196.026	-0.4980u	4.1596	-7.9530u
Sn 189.925	19.8552	22.5468	18.5047
Sr 216.596	36.1654	36.1937	36.0127
Ti 334.941	911.666	916.500	915.710
Tl 190.794	5.7745u	8.9326	1.5088u
V 292.401	540.477	543.506	542.187
Zn 206.200	50.6274	51.3855	51.6976

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6148	ppb	0.8543	139.0	-96.2764
Al 308.215	62841.9	ppb	209.727	0.3	367362
As 188.980	13.6131	ppb	4.9306	36.2	4.5146
B 249.678	-2.9107	ppb	1.9263	66.2	-145.951
Ba 389.178	193.085	ppb	0.2574	0.1	5361.81
Be 313.042	1.5051	ppb	0.0087	0.6	2834.08
Ca 370.602	6208	ppb	9.953	0.2	6784
Cd 226.502	-1.8966	ppb	0.3487	18.4	378.251
Co 228.615	3.9168	ppb	0.6787	17.3	84.4430
Cr 267.716	362.376	ppb	1.0591	0.3	16603.4
Cu 324.754	47.4704	ppb	0.4234	0.9	2703.08
Fe 271.441	172610	ppb	547.803	0.3	301675
K 766.491	2277.98	ppb	10.0276	0.4	139593
Mg 279.078	1644.31	ppb	9.4161	0.6	3633.94
Mn 257.610	144.877	ppb	0.3975	0.3	34783.4
Mo 202.032	4.4135	ppb	0.4112	9.3	32.3074
Na 330.237	91.3839	ppb	105.554	115.5	-62.8509
Ni 231.604	10.3205	ppb	0.7269	7.0	29.6849
Pb 220.353	69.3474	ppb	1.4642	2.1	117.527
Sb 206.834	0.4416	ppb	4.3450	983.9	4.7492
Se 196.026	-1.4305	ppb	6.1099	427.1	-1.1415
Sn 189.925	20.3022	ppb	2.0578	10.1	18.3783
Sr 216.596	36.1239	ppb	0.0974	0.3	467.707
Ti 334.941	914.625	ppb	2.5932	0.3	274278
Tl 190.794	5.4053	ppb	3.7257	68.9	-3.2216
V 292.401	542.057	ppb	1.5188	0.3	16303.6
Zn 206.200	51.2369	ppb	0.5504	1.1	4307574

680-88419-a-2-b (Samp) 3/21/2013, 7:07:24 PM Rack 2, Tube 34

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	27.0878	27.3090	27.5006
Al 308.215	150907	151173	151400
As 188.980	17.2348	15.2277	7.3556
B 249.678	399.321	403.272	406.071
Ba 389.178	4409.87	4417.22	4423.81
Be 313.042	0.3209	0.3192	0.3270
Ca 370.602	433263	435641	435055
Cd 226.502	1.6788	1.4039	1.4995
Co 228.615	16.2680	16.1719	17.3466
Cr 267.716	322.666	324.531	324.561
Cu 324.754	2275.84	2263.78	2288.38
Fe 271.441	114797	114975	115166
K 766.491	2914.90	2923.23	2923.26
Mg 279.078	4696.90	4691.85	4692.92
Mn 257.610	1191.96	1193.45	1195.42
Mo 202.032	12.2774	13.2267	12.3985
Na 330.237	1650.21u	1846.74u	1733.81u
Ni 231.604	229.030	230.651	231.139
Pb 220.353	142.274	145.335	141.762
Sb 206.834	34.5685	49.2431	44.5837
Se 196.026	0.7572u	-6.7320u	5.7835
Sn 189.925	61.4079	56.8149	58.4569
Sr 216.596	7024.47x	7033.23x	7049.54x
Ti 334.941	133.741	133.290	134.909
Tl 190.794	13.9823	11.6461	5.9429u
V 292.401	23.1830	22.9764	22.4906
Zn 206.200	183514x	183575x	183997x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	27.2991b	ppb	0.2066	0.8	1607.67
Al 308.215	151160b	ppb	246.842	0.2	883302
As 188.980	13.2727b	ppb	5.2217	39.3	8.4580
B 249.678	402.888b	ppb	3.3916	0.8	3749.36
Ba 389.178	4416.97b	ppb	6.9731	0.2	116880
Be 313.042	0.3224b	ppb	0.0041	1.3	585.342
Ca 370.602	434653b	ppb	1239	0.3	1586067
Cd 226.502	1.5274b	ppb	0.1395	9.1	365.128
Co 228.615	16.5955b	ppb	0.6522	3.9	226.056
Cr 267.716	323.919b	ppb	1.0856	0.3	14838.1
Cu 324.754	2276.00b	ppb	12.2999	0.5	119551
Fe 271.441	114979b	ppb	184.392	0.2	200955
K 766.491	2920.46b	ppb	4.8204	0.2	178878
Mg 279.078	4693.89b	ppb	2.6605	0.1	10243.2
Mn 257.610	1193.61b	ppb	1.7391	0.1	282369
Mo 202.032	12.6342b	ppb	0.5167	4.1	96.5360
Na 330.237	1743.58b	ppb	98.6296	5.7	-1370.13
Ni 231.604	230.273b	ppb	1.1042	0.5	613.075
Pb 220.353	143.124b	ppb	1.9318	1.3	242.563
Sb 206.834	42.7984b	ppb	7.4985	17.5	45.8074
Se 196.026	-0.0637b	ppb	6.2980	9880.8	0.1172
Sn 189.925	58.8932b	ppb	2.3274	4.0	54.3907
Sr 216.596	7035.75xb	ppb	12.7257	0.2	76148.0
Ti 334.941	133.980b	ppb	0.8355	0.6	40117.0
Tl 190.794	10.5238b	ppb	4.1356	39.3	1.5356
V 292.401	22.8834b	ppb	0.3555	1.6	669.747
Zn 206.200	183695xb	ppb	263.230	0.1	4350233

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

RLV (Samp) 3/21/2013, 7:13:01 PM Rack 2, Tube 35

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3823u	-0.3693u	-0.0051u
Al 308.215	13.2179	6.4794	11.5108
As 188.980	1.1149	-3.2270u	3.9741
B 249.678	5.0838	4.7116	3.0119
Ba 389.178	-0.1324u	-0.4057u	-1.0890u
Be 313.042	-0.0158u	-0.0228u	-0.0289u
Ca 370.602	32.27	25.27	29.97
Cd 226.502	0.0649	-0.0747u	-0.1402u
Co 228.615	0.7691	0.1029	-0.1681u
Cr 267.716	0.2281	-0.0215u	0.3001
Cu 324.754	27.6845	26.6599	27.4047
Fe 271.441	237.056	236.898	242.151
K 766.491	1.5457	0.9507	0.8147
Mg 279.078	2.5700	-4.9688u	-6.8700u
Mn 257.610	0.2784	0.2773	0.2701
Mo 202.032	0.0511	-0.3680u	-0.2146u
Na 330.237	2108.80	2139.91	1971.43
Ni 231.604	1.1804	0.9188	0.2027
Pb 220.353	0.4853	0.9149	4.1897
Sb 206.834	4.6386	9.4325	-0.3135u
Se 196.026	22.6355	24.6367	26.7255
Sn 189.925	102.823	108.382	103.687
Sr 216.596	0.3743	0.5247	0.4578
Ti 334.941	0.2808	0.3401	0.3655
Tl 190.794	1.9913	-1.2728u	0.9309
V 292.401	-0.4008u	-0.0779u	0.0111
Zn 206.200	15.3440	12.1662	11.5254

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2522	ppb	0.2141	84.9	-72.3078
Al 308.215	10.4027	ppb	3.5033	33.7	326.782
As 188.980	0.6207	ppb	3.6259	584.2	-1.8720
B 249.678	4.2691	ppb	1.1045	25.9	84.8032
Ba 389.178	-0.5424	ppb	0.4928	90.9	-39.5907
Be 313.042	-0.0225	ppb	0.0065	29.0	-317.734
Ca 370.602	29.17	ppb	3.563	12.2	82.46
Cd 226.502	-0.0500	ppb	0.1048	209.6	7.5524
Co 228.615	0.2346	ppb	0.4823	205.6	17.1806
Cr 267.716	0.1689	ppb	0.1688	99.9	15.3421
Cu 324.754	27.2497	ppb	0.5296	1.9	1594.75
Fe 271.441	238.702	ppb	2.9881	1.3	424.023
K 766.491	1.1037	ppb	0.3888	35.2	372.873
Mg 279.078	-3.0896	ppb	4.9927	161.6	23.1041
Mn 257.610	0.2753	ppb	0.0045	1.6	135.377
Mo 202.032	-0.1771	ppb	0.2120	119.7	8.4122
Na 330.237	2073.38	ppb	89.6517	4.3	104.915
Ni 231.604	0.7673	ppb	0.5061	66.0	0.6588
Pb 220.353	1.8633	ppb	2.0262	108.7	3.8690
Sb 206.834	4.5858	ppb	4.8732	106.3	1.5779
Se 196.026	24.6659	ppb	2.0451	8.3	12.1658
Sn 189.925	104.964	ppb	2.9910	2.8	96.9779
Sr 216.596	0.4522	ppb	0.0754	16.7	10.8285
Ti 334.941	0.3288	ppb	0.0435	13.2	-22.9999
Tl 190.794	0.5498	ppb	1.6651	302.9	-0.2396
V 292.401	-0.1559	ppb	0.2168	139.1	-1.0094
Zn 206.200	13.0119	ppb	2.0450	15.7	19.6181

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

mb 680-269992/1-a (Samp) **3/21/2013, 7:18:40 PM** **Rack 2, Tube 36**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.4157u	-1.3823u	0.3757
Al 308.215	2.4284	7.0045	8.6446
As 188.980	0.4438	0.9578	3.7523
B 249.678	1.7498	2.3890	2.5640
Ba 389.178	0.0152	0.1762	-1.1200u
Be 313.042	-0.0062u	-0.0133u	-0.0209u
Ca 370.602	37.44	31.17	35.03
Cd 226.502	-0.0897u	-0.1929u	-0.0551u
Co 228.615	-0.3502u	-0.3426u	0.2818
Cr 267.716	-0.0326u	0.1556	-0.3024u
Cu 324.754	-0.3303u	-0.7446u	-0.0455u
Fe 271.441	14.3447	14.5271	6.8291
K 766.491	13.8490	13.9186	14.0744
Mg 279.078	37.3579	39.4176	38.6598
Mn 257.610	0.7857	0.8170	0.7998
Mo 202.032	-0.2130u	-0.5613u	0.2741
Na 330.237	465.898	360.954	419.029
Ni 231.604	0.1615	0.6952	0.9668
Pb 220.353	-0.0724u	0.6965	5.1519
Sb 206.834	3.4770	0.0377	1.8930
Se 196.026	-4.0492u	-7.8137u	-6.3797u
Sn 189.925	0.2963	2.6081	1.0641
Sr 216.596	0.4592	0.8602	0.4125
Ti 334.941	0.2121	0.1809	0.2297
Tl 190.794	2.4561	0.5654	0.7335
V 292.401	-0.0729u	-0.3000u	-0.0902u
Zn 206.200	6.9171	8.7034	9.7160

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4741	ppb	0.8804	185.7	-88.1485
Al 308.215	6.0258	ppb	3.2216	53.5	301.212
As 188.980	1.7180	ppb	1.7805	103.6	-1.1853
B 249.678	2.2343	ppb	0.4286	19.2	65.7537
Ba 389.178	-0.3095	ppb	0.7065	228.2	-33.6767
Be 313.042	-0.0135	ppb	0.0074	54.6	-298.797
Ca 370.602	34.55	ppb	3.160	9.1	123.1
Cd 226.502	-0.1126	ppb	0.0717	63.7	4.5209
Co 228.615	-0.1370	ppb	0.3627	264.8	12.5249
Cr 267.716	-0.0598	ppb	0.2302	385.0	4.8168
Cu 324.754	-0.3734	ppb	0.3515	94.1	146.164
Fe 271.441	11.9003	ppb	4.3927	36.9	27.5871
K 766.491	13.9473	ppb	0.1154	0.8	1158.20
Mg 279.078	38.4784	ppb	1.0418	2.7	113.904
Mn 257.610	0.8009	ppb	0.0157	2.0	259.110
Mo 202.032	-0.1667	ppb	0.4196	251.7	8.4998
Na 330.237	415.294	ppb	52.5717	12.7	16.0684
Ni 231.604	0.6078	ppb	0.4097	67.4	0.2304
Pb 220.353	1.9253	ppb	2.8206	146.5	3.9754
Sb 206.834	1.8026	ppb	1.7215	95.5	-1.2652
Se 196.026	-6.0809	ppb	1.9000	31.2	-2.2358
Sn 189.925	1.3228	ppb	1.1774	89.0	0.7599
Sr 216.596	0.5773	ppb	0.2461	42.6	12.0922
Ti 334.941	0.2076	ppb	0.0247	11.9	-59.0455
Tl 190.794	1.2517	ppb	1.0464	83.6	0.2991
V 292.401	-0.1543	ppb	0.1264	81.9	-0.9399
Zn 206.200	8.4455	ppb	1.4172	16.8	43.3980

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Cont Calib Verif (CCV) 3/21/2013, 7:24:07 PM Rack 2, Tube 37
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	507.577	507.862	511.083
Al 308.215	5029.70	5041.30	5032.23
As 188.980	480.862	466.811	489.161
B 249.678	2518.76	2546.56	2558.74
Ba 389.178	4994.56	5009.10	5002.83
Be 313.042	501.011	502.509	502.678
Ca 370.602	5043	5062	5061
Cd 226.502	506.060	507.976	507.742
Co 228.615	499.563	501.538	500.901
Cr 267.716	5115.89	5131.11	5137.73
Cu 324.754	5011.68	4963.69	4933.30
Fe 271.441	5051.53	5057.80	5028.54
K 766.491	9828.98	9819.08	9777.33
Mg 279.078	5013.88	5029.84	5017.29
Mn 257.610	5037.85	5058.19	5040.59
Mo 202.032	504.527	511.041	510.031
Na 330.237	7468.41	7293.19	7563.55
Ni 231.604	2557.94	2558.18	2560.92
Pb 220.353	523.156	523.661	520.820
Sb 206.834	915.225	934.025	936.895
Se 196.026	4959.24	4957.43	4948.97
Sn 189.925	5084.75	5149.75	5138.25
Sr 216.596	2552.02	2565.42	2572.30
Ti 334.941	503.827	506.507	507.232
Tl 190.794	5211.58	5266.84	5246.94
V 292.401	4993.53	4996.84	4988.26
Zn 206.200	2577.45	2582.20	2574.74

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	508.841	ppb	1.9471	0.4	36195.9	101.76814
Al 308.215	5034.41	ppb	6.0985	0.1	29653.6	100.68816
As 188.980	478.945	ppb	11.2974	2.4	296.320	95.78893
B 249.678	2541.35	ppb	20.4929	0.8	24093.3	101.65415
Ba 389.178	5002.16	ppb	7.2878	0.1	132181	100.04324
Be 313.042	502.066	ppb	0.9176	0.2	1040716	100.41321
Ca 370.602	5056	ppb	10.48	0.2	18414	101.11089
Cd 226.502	507.260	ppb	1.0452	0.2	20038.0	101.45194
Co 228.615	500.668	ppb	1.0080	0.2	6411.53	100.13354
Cr 267.716	5128.24	ppb	11.1973	0.2	234321	102.56484
Cu 324.754	4969.55	ppb	39.5160	0.8	260725	99.39108
Fe 271.441	5045.95	ppb	15.4067	0.3	8953.81	100.91908
K 766.491	9808.46	ppb	27.4111	0.3	600047	98.08464
Mg 279.078	5020.34	ppb	8.4065	0.2	10917.8	100.40675
Mn 257.610	5045.54	ppb	11.0343	0.2	1191940	100.91089
Mo 202.032	508.533	ppb	3.5057	0.7	3730.62	101.70660
Na 330.237	7441.71	ppb	137.141	1.8	367.625	99.22286
Ni 231.604	2559.01	ppb	1.6510	0.1	6797.78	102.36060
Pb 220.353	522.545	ppb	1.5156	0.3	893.469	104.50909
Sb 206.834	928.715	ppb	11.7702	1.3	983.373	92.87151
Se 196.026	4955.21	ppb	5.4852	0.1	2323.01	99.10425
Sn 189.925	5124.25	ppb	34.6886	0.7	4756.74	102.48506
Sr 216.596	2563.25	ppb	10.3139	0.4	27654.9	102.52982
Ti 334.941	505.855	ppb	1.7936	0.4	151648	101.17104
Tl 190.794	5241.79	ppb	27.9875	0.5	3959.50	104.83580
V 292.401	4992.88	ppb	4.3267	0.1	149795	99.85750
Zn 206.200	2578.13	ppb	3.7750	0.1	3500.70	103.12522

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Cont Calib Blank (CCB) 3/21/2013, 7:29:42 PM Rack 2, Tube 38

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0708u	-0.8417u	-0.2979u
Al 308.215	0.5341	-0.9529u	-3.3280u
As 188.980	7.1310	3.7971	4.1889
B 249.678	24.8317	21.5554	19.2216
Ba 389.178	-0.4748u	0.9111	0.2294
Be 313.042	0.0575	0.0597	0.0448
Ca 370.602	5.672	6.693	6.770
Cd 226.502	0.1795	-0.1009u	0.0007
Co 228.615	-0.2271u	0.2554	0.2691
Cr 267.716	0.3596	0.4204	0.3784
Cu 324.754	0.2081	-0.0226u	0.0144
Fe 271.441	0.9507	-2.3030u	-3.4569u
K 766.491	-0.5954u	-0.9552u	-0.8735u
Mg 279.078	-0.6926u	0.2649	0.4479
Mn 257.610	0.5830	0.5584	0.5489
Mo 202.032	0.4954	0.2189	0.0450
Na 330.237	54.1192	32.9045	-93.2712u
Ni 231.604	2.5210	1.6381	1.1072
Pb 220.353	3.5543	0.8696	-0.1248u
Sb 206.834	13.2790	12.1576	5.9052
Se 196.026	8.8144	-1.2150u	-1.4516u
Sn 189.925	0.2476	1.8341	5.5074
Sr 216.596	0.4012	0.2501	1.1601
Ti 334.941	0.3866	0.3863	0.2876
Tl 190.794	0.5164	0.5297	-0.9493u
V 292.401	0.8029	0.0386	0.8341
Zn 206.200	0.0472	0.1753	0.5939

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.4035	ppb	0.3961	98.2	-83.0955	-0.40347
Al 308.215	-1.2490	ppb	1.9480	156.0	258.752	-1.24896
As 188.980	5.0390	ppb	1.8223	36.2	0.8859	5.03899
B 249.678	21.8696	ppb	2.8182	12.9	251.611	21.86958
Ba 389.178	0.2219	ppb	0.6929	312.3	-19.7649	0.22191
Be 313.042	0.0540	ppb	0.0080	14.9	-158.941	0.05399
Ca 370.602	6.378	ppb	0.6128	9.6	20.83	6.37833
Cd 226.502	0.0265	ppb	0.1419	536.5	9.9759	0.02645
Co 228.615	0.0991	ppb	0.2826	285.1	15.5287	0.09915
Cr 267.716	0.3861	ppb	0.0311	8.1	25.1761	0.38615
Cu 324.754	0.0666	ppb	0.1239	185.9	169.240	0.06665
Fe 271.441	-1.6030	ppb	2.2856	142.6	4.0255	-1.60305
K 766.491	-0.8080	ppb	0.1886	23.3	255.979	-0.80803
Mg 279.078	0.0067	ppb	0.6125	9116.3	29.8264	0.00672
Mn 257.610	0.5634	ppb	0.0176	3.1	202.802	0.56343
Mo 202.032	0.2531	ppb	0.2271	89.7	11.5790	0.25310
Na 330.237	-2.0825	ppb	79.6809	3826.3	-6.2586	-2.08247
Ni 231.604	1.7554	ppb	0.7142	40.7	3.2793	1.75541
Pb 220.353	1.4330	ppb	1.9032	132.8	3.1336	1.43301
Sb 206.834	10.4473	ppb	3.9733	38.0	7.4790	10.44726Z
Se 196.026	2.0493	ppb	5.8600	286.0	1.5727	2.04926
Sn 189.925	2.5297	ppb	2.6980	106.7	1.8802	2.52971
Sr 216.596	0.6038	ppb	0.4877	80.8	12.3389	0.60380
Ti 334.941	0.3535	ppb	0.0571	16.1	-15.4283	0.35350
Tl 190.794	0.0322	ppb	0.8501	2636.8	-0.6221	0.03224
V 292.401	0.5585	ppb	0.4506	80.7	20.4077	0.55853
Zn 206.200	0.2721	ppb	0.2859	310.1	2.2631	0.27213

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ics 680-269992/2-a (Samp) 3/21/2013, 7:35:09 PM Rack 2, Tube 39
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	37.0494	36.5131	37.1535
Al 308.215	5128.82	5117.15	5127.00
As 188.980	109.461	112.671	107.538
B 249.678	213.213	215.305	216.050
Ba 389.178	106.336	106.493	105.492
Be 313.042	53.4766	53.2892	53.3058
Ca 370.602	5189	5166	5184
Cd 226.502	54.8353	55.0746	55.1024
Co 228.615	53.1303	53.0470	53.0508
Cr 267.716	109.035	108.514	108.820
Cu 324.754	103.373	102.971	102.530
Fe 271.441	5247.14	5231.09	5244.03
K 766.491	5471.52	5442.57	5418.36
Mg 279.078	5312.81	5295.57	5303.36
Mn 257.610	540.461	538.702	540.487
Mo 202.032	104.214	103.965	104.119
Na 330.237	5631.42	5490.12	5308.46
Ni 231.604	108.508	105.421	106.980
Pb 220.353	58.7243	55.8492	54.4137
Sb 206.834	59.6254	56.9153	52.7391
Se 196.026	103.578	103.433	107.264
Sn 189.925	206.134	206.496	205.589
Sr 216.596	110.592	108.761	110.551
Ti 334.941	105.571	105.195	105.498
Tl 190.794	44.3490	44.1668	42.3380
V 292.401	106.696	106.520	106.268
Zn 206.200	109.649	110.516	109.224

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	36.9053	ppb	0.3437	0.9	2577.19
Al 308.215	5124.32	ppb	6.2773	0.1	30213.0
As 188.980	109.890	ppb	2.5933	2.4	66.2441
B 249.678	214.856	ppb	1.4708	0.7	2073.25
Ba 389.178	106.107	ppb	0.5385	0.5	2803.27
Be 313.042	53.3572	ppb	0.1038	0.2	110370
Ca 370.602	5180	ppb	12.11	0.2	18573
Cd 226.502	55.0041	ppb	0.1469	0.3	2192.87
Co 228.615	53.0760	ppb	0.0470	0.1	690.618
Cr 267.716	108.790	ppb	0.2621	0.2	4981.06
Cu 324.754	102.958	ppb	0.4214	0.4	5568.23
Fe 271.441	5240.75	ppb	8.5127	0.2	9175.58
K 766.491	5444.15	ppb	26.6162	0.5	333190
Mg 279.078	5303.91	ppb	8.6311	0.2	11612.2
Mn 257.610	539.883	ppb	1.0232	0.2	127639
Mo 202.032	104.099	ppb	0.1258	0.1	772.939
Na 330.237	5476.67	ppb	161.902	3.0	284.345
Ni 231.604	106.970	ppb	1.5434	1.4	282.935
Pb 220.353	56.3291	ppb	2.1950	3.9	96.7421
Sb 206.834	56.4266	ppb	3.4691	6.1	54.1793
Se 196.026	104.758	ppb	2.1708	2.1	49.7785
Sn 189.925	206.073	ppb	0.4565	0.2	190.848
Sr 216.596	109.968	ppb	1.0455	1.0	1191.65
Ti 334.941	105.421	ppb	0.1992	0.2	31529.0
Tl 190.794	43.6180	ppb	1.1122	2.5	31.5655
V 292.401	106.495	ppb	0.2149	0.2	3180.20
Zn 206.200	109.796	ppb	0.6581	0.6	450.180

ics 680-269992/3-a (Samp) 3/21/2013, 7:40:34 PM Rack 2, Tube 40
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	223.040	220.281	221.576
Al 308.215	2068.07	2066.10	2072.57
As 188.980	231.359	221.089	226.769
B 249.678	421.084	425.441	427.305
Ba 389.178	207.618	206.303	207.262
Be 313.042	213.985	214.179	213.926
Ca 370.602	20724	20742	20720
Cd 226.502	212.547	213.371	213.775
Co 228.615	211.152	209.494	207.922
Cr 267.716	215.060	216.010	215.875
Cu 324.754	210.724	207.113	208.855
Fe 271.441	21868.4	21930.2	21939.7
K 766.491	21125.9	21129.5	21131.0
Mg 279.078	21333.7	21364.7	21371.2
Mn 257.610	2155.27	2158.47	2159.50
Mo 202.032	209.885	209.653	210.542
Na 330.237	18669.5	18996.3	18814.7
Ni 231.604	212.423	214.391	213.432
Pb 220.353	221.266	222.331	220.105
Sb 206.834	208.674	212.058	206.350
Se 196.026	208.477	204.553	217.264
Sn 189.925	205.145	203.918	204.706
Sr 216.596	228.753	229.652	227.088
Ti 334.941	212.019	212.195	211.460
Tl 190.794	53.2150	45.8513	51.0113
V 292.401	211.347	210.586	210.350
Zn 206.200	203.515	205.280	208.480

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	221.632	ppb	1.3806	0.6	15759.6
Al 308.215	2068.91	ppb	3.3157	0.2	12376.5
As 188.980	226.406	ppb	5.1447	2.3	138.846
B 249.678	424.610	ppb	3.1928	0.8	4042.82
Ba 389.178	207.061	ppb	0.6802	0.3	5546.88
Be 313.042	214.030	ppb	0.1325	0.1	443581
Ca 370.602	20729	ppb	11.37	0.1	74206
Cd 226.502	213.231	ppb	0.6257	0.3	8479.33
Co 228.615	209.522	ppb	1.6154	0.8	2685.63
Cr 267.716	215.648	ppb	0.5139	0.2	9872.48
Cu 324.754	208.897	ppb	1.8059	0.9	11130.7
Fe 271.441	21912.8	ppb	38.7083	0.2	38338.6
K 766.491	21128.8	ppb	2.6400	0.0	1292231
Mg 279.078	21356.5	ppb	20.0376	0.1	46673.3
Mn 257.610	2157.75	ppb	2.2085	0.1	509930
Mo 202.032	210.027	ppb	0.4607	0.2	1549.00
Na 330.237	18826.9	ppb	163.691	0.9	993.748
Ni 231.604	213.416	ppb	0.9841	0.5	566.101
Pb 220.353	221.234	ppb	1.1131	0.5	378.685
Sb 206.834	209.027	ppb	2.8702	1.4	209.769
Se 196.026	210.098	ppb	6.5085	3.1	99.3947
Sn 189.925	204.590	ppb	0.6221	0.3	189.483
Sr 216.596	228.498	ppb	1.3011	0.6	2475.69
Ti 334.941	211.891	ppb	0.3836	0.2	63546.6
Tl 190.794	50.0259	ppb	3.7795	7.6	34.0411
V 292.401	210.761	ppb	0.5212	0.2	6289.62
Zn 206.200	205.758	ppb	2.5166	1.2	481.626

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680-88314-d-1-a (Samp) 3/21/2013, 7:46:00 PM Rack 2, Tube 41
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2641u	0.3061	-0.9833u
Al 308.215	3.4742	1.9583	4.3500
As 188.980	-1.3977u	4.0656	5.2484
B 249.678	34.5288	32.9061	33.2371
Ba 389.178	57.2091	57.8813	56.8684
Be 313.042	0.0550	0.0593	0.0449
Ca 370.602	23208	23161	23124
Cd 226.502	-0.0285u	0.1932	0.0698
Co 228.615	0.3720	-0.2213u	-0.3243u
Cr 267.716	-0.0243u	0.3790	0.0958
Cu 324.754	-0.1327u	0.1425	0.5457
Fe 271.441	7.4000	3.5028	7.0135
K 766.491	1552.48	1552.51	1554.32
Mg 279.078	10922.4	10915.1	10906.5
Mn 257.610	3.7048	3.7603	3.6682
Mo 202.032	0.6500	0.1687	0.6198
Na 330.237	8703.63	8695.30	8622.03
Ni 231.604	8.6297	5.0258	7.0476
Pb 220.353	1.6996	2.5132	0.2844
Sb 206.834	2.1612	1.5193	4.0488
Se 196.026	11.1866	-7.4210u	6.2132
Sn 189.925	-0.7627u	-1.3999u	-2.7874u
Sr 216.596	141.040	140.327	141.052
Ti 334.941	0.1122	0.1590	0.0020
Tl 190.794	-1.4512u	4.2910	-0.7004u
V 292.401	-0.5766u	-0.5456u	-0.5557u
Zn 206.200	8.4682	9.2338	9.4201

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3138	ppb	0.6461	205.9	-82.6712
Al 308.215	3.2608	ppb	1.2100	37.1	285.149
As 188.980	2.6388	ppb	3.5454	134.4	-0.4191
B 249.678	33.5573	ppb	0.8575	2.6	362.230
Ba 389.178	57.3196	ppb	0.5154	0.9	1521.77
Be 313.042	0.0531	ppb	0.0074	13.9	-153.841
Ca 370.602	23164	ppb	42.06	0.2	85096
Cd 226.502	0.0782	ppb	0.1110	142.1	12.1282
Co 228.615	-0.0579	ppb	0.3758	649.6	13.5137
Cr 267.716	0.1502	ppb	0.2071	137.9	14.5664
Cu 324.754	0.1852	ppb	0.3412	184.3	175.475
Fe 271.441	5.9721	ppb	2.1472	36.0	17.2641
K 766.491	1553.11	ppb	1.0534	0.1	95270.4
Mg 279.078	10914.6	ppb	7.9390	0.1	23884.3
Mn 257.610	3.7111	ppb	0.0464	1.2	1001.71
Mo 202.032	0.4795	ppb	0.2696	56.2	13.2416
Na 330.237	8673.65	ppb	44.9022	0.5	459.107
Ni 231.604	6.9010	ppb	1.8064	26.2	16.9508
Pb 220.353	1.4991	ppb	1.1279	75.2	3.2468
Sb 206.834	2.5764	ppb	1.3149	51.0	-0.4875
Se 196.026	3.3263	ppb	9.6339	289.6	2.1717
Sn 189.925	-1.6500	ppb	1.0352	62.7	-1.9861
Sr 216.596	140.807	ppb	0.4150	0.3	1530.13
Ti 334.941	0.0911	ppb	0.0806	88.5	-41.5555
Tl 190.794	0.7132	ppb	3.1212	437.7	-0.1116
V 292.401	-0.5593	ppb	0.0158	2.8	-13.1965
Zn 206.200	9.0407	ppb	0.5045	5.6	14.2082

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88314-d-1-aSD^5 (Samp) 3/21/2013, 7:51:26 PM Rack 2, Tube 42

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.6871	-0.0316u	-0.6999u
Al 308.215	-3.2182u	-1.3254u	0.3226
As 188.980	4.7191	-2.2689u	-2.8250u
B 249.678	7.4414	8.7468	6.8934
Ba 389.178	10.9554	11.1894	11.1303
Be 313.042	0.0046	0.0066	0.0058
Ca 370.602	4637	4647	4650
Cd 226.502	-0.0580u	-0.1205u	0.0148
Co 228.615	0.6072	0.0426	0.7152
Cr 267.716	-0.1844u	-0.4308u	-0.1168u
Cu 324.754	0.5244	-0.3579u	-0.9233u
Fe 271.441	0.7911	-1.0477u	4.7232
K 766.491	305.691	306.552	308.147
Mg 279.078	2168.68	2175.77	2173.60
Mn 257.610	0.7023	0.7500	0.7313
Mo 202.032	0.0117	0.0959	0.4995
Na 330.237	1737.27	1611.20	1825.78
Ni 231.604	1.7161	1.5741	1.9557
Pb 220.353	1.6927	0.9164	0.0577
Sb 206.834	1.0709	2.9603	5.1560
Se 196.026	4.4655	-3.0569u	2.4754
Sn 189.925	-3.4230u	2.4519	1.2534
Sr 216.596	28.2434	28.1195	28.6093
Ti 334.941	0.1407	0.1112	-0.0002
Tl 190.794	0.0988	1.7412	0.7651
V 292.401	0.0408	-0.2795u	0.2017
Zn 206.200	1.6284	1.4125	1.7935

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0148	ppb	0.6937	4691.4	-56.5648
Al 308.215	-1.4070	ppb	1.7718	125.9	257.847
As 188.980	-0.1249	ppb	4.2042	3365.1	-2.2965
B 249.678	7.6939	ppb	0.9522	12.4	117.436
Ba 389.178	11.0917	ppb	0.1217	1.1	273.991
Be 313.042	0.0057	ppb	0.0010	17.4	-257.701
Ca 370.602	4645	ppb	7.037	0.2	17061
Cd 226.502	-0.0546	ppb	0.0677	124.1	6.8104
Co 228.615	0.4550	ppb	0.3612	79.4	20.0576
Cr 267.716	-0.2440	ppb	0.1653	67.7	-3.5847
Cu 324.754	-0.2523	ppb	0.7296	289.2	152.525
Fe 271.441	1.4889	ppb	2.9481	198.0	9.4885
K 766.491	306.797	ppb	1.2457	0.4	19064.6
Mg 279.078	2172.68	ppb	3.6319	0.2	4778.32
Mn 257.610	0.7279	ppb	0.0240	3.3	252.684
Mo 202.032	0.2024	ppb	0.2608	128.9	11.2076
Na 330.237	1724.75	ppb	107.837	6.3	86.3743
Ni 231.604	1.7486	ppb	0.1929	11.0	3.2614
Pb 220.353	0.8890	ppb	0.8178	92.0	2.2039
Sb 206.834	3.0624	ppb	2.0445	66.8	0.0012
Se 196.026	1.2947	ppb	3.8977	301.1	1.2193
Sn 189.925	0.0941	ppb	3.1043	3297.9	-0.3782
Sr 216.596	28.3241	ppb	0.2547	0.9	312.454
Ti 334.941	0.0839	ppb	0.0743	88.5	-85.8195
Tl 190.794	0.8683	ppb	0.8261	95.1	0.0097
V 292.401	-0.0123	ppb	0.2450	1984.9	3.2724
Zn 206.200	1.6114	ppb	0.1911	324.8	4.0893

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

680-88314-d-1-aPDS (Samp) **3/21/2013, 7:57:02 PM** **Rack 2, Tube 43****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	52.1598	53.2691	52.4690
Al 308.215	2020.07	2022.46	2018.73
As 188.980	2227.06	2250.53	2249.91
B 249.678	1078.36	1087.88	1091.14
Ba 389.178	2162.93	2164.04	2163.32
Be 313.042	52.3270	52.2675	52.1915
Ca 370.602	27901	27900	27871
Cd 226.502	53.4429	53.3197	53.1982
Co 228.615	525.562	526.468	527.419
Cr 267.716	214.785	214.802	213.401
Cu 324.754	255.701	258.893	256.085
Fe 271.441	1041.32	1036.56	1047.34
K 766.491	7061.84	7091.29	7098.20
Mg 279.078	15988.8	16008.0	15989.4
Mn 257.610	535.948	536.280	534.361
Mo 202.032	527.081	530.287	528.375
Na 330.237	13823.8	14066.3	14043.1
Ni 231.604	535.879	530.698	529.697
Pb 220.353	541.866	542.350	542.047
Sb 206.834	523.343	527.273	535.387
Se 196.026	2063.77	2061.49	2087.38
Sn 189.925	1063.39	1065.22	1065.85
Sr 216.596	680.587	680.201	676.864
Ti 334.941	1047.80	1046.74	1043.88
Tl 190.794	2222.37	2207.33	2212.92
V 292.401	521.238	520.754	519.869
Zn 206.200	537.887	536.207	536.718

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.6326	ppb	0.5725	1.1	3678.14
Al 308.215	2020.42	ppb	1.8908	0.1	12130.4
As 188.980	2242.50	ppb	13.3790	0.6	1396.49
B 249.678	1085.80	ppb	6.6416	0.6	10320.5
Ba 389.178	2163.43	ppb	0.5641	0.0	57191.2
Be 313.042	52.2620	ppb	0.0679	0.1	108015
Ca 370.602	27891	ppb	17.09	0.1	102599
Cd 226.502	53.3203	ppb	0.1224	0.2	2115.84
Co 228.615	526.483	ppb	0.9289	0.2	6741.64
Cr 267.716	214.329	ppb	0.8042	0.4	9800.88
Cu 324.754	256.893	ppb	1.7430	0.7	13647.0
Fe 271.441	1041.74	ppb	5.4002	0.5	1917.24
K 766.491	7083.78	ppb	19.3085	0.3	433445
Mg 279.078	15995.4	ppb	10.9291	0.1	34979.3
Mn 257.610	535.529	ppb	1.0259	0.2	126654
Mo 202.032	528.581	ppb	1.6127	0.3	3886.42
Na 330.237	13977.7	ppb	133.845	1.0	730.968
Ni 231.604	532.091	ppb	3.3185	0.6	1412.35
Pb 220.353	542.088	ppb	0.2448	0.0	925.589
Sb 206.834	528.668	ppb	6.1417	1.2	527.114
Se 196.026	2070.88	ppb	14.3347	0.7	970.828
Sn 189.925	1064.82	ppb	1.2770	0.1	988.099
Sr 216.596	679.217	ppb	2.0471	0.3	7323.12
Ti 334.941	1046.14	ppb	2.0279	0.2	313774
Tl 190.794	2214.21	ppb	7.5993	0.3	1673.41
V 292.401	520.620	ppb	0.6938	0.1	15558.7
Zn 206.200	536.937	ppb	0.8610	0.2	732.771

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88314-d-1-b ms (Samp) 3/21/2013, 8:02:28 PM Rack 2, Tube 44

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	33.0652	32.8690	33.1122
Al 308.215	5154.51	5138.38	5144.64
As 188.980	104.655	114.432	120.791
B 249.678	245.841	244.803	245.598
Ba 389.178	162.717	161.407	163.019
Be 313.042	53.5835	53.5362	53.4580
Ca 370.602	28060	28026	28025
Cd 226.502	54.4739	54.6605	54.4113
Co 228.615	53.2923	53.3791	53.0390
Cr 267.716	109.489	108.887	108.968
Cu 324.754	103.899	104.008	103.482
Fe 271.441	5261.60	5248.36	5250.75
K 766.491	7068.71	7074.08	7101.77
Mg 279.078	16068.6	16061.5	16042.4
Mn 257.610	541.034	540.317	540.183
Mo 202.032	106.576	106.509	105.610
Na 330.237	13783.9	13531.5	13845.5
Ni 231.604	112.961	110.193	110.173
Pb 220.353	54.8163	54.2749	60.6100
Sb 206.834	56.7592	63.7463	54.9940
Se 196.026	106.239	108.955	100.557
Sn 189.925	205.885	207.238	207.380
Sr 216.596	246.899	247.213	245.571
Ti 334.941	105.931	105.658	105.999
Tl 190.794	46.3326	49.7956	44.6934
V 292.401	107.127	105.919	106.435
Zn 206.200	115.293	113.110	113.795

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	33.0155	ppb	0.1290	0.4	2293.84
Al 308.215	5145.84	ppb	8.1291	0.2	30339.0
As 188.980	113.293	ppb	8.1281	7.2	68.5554
B 249.678	245.414	ppb	0.5428	0.2	2362.46
Ba 389.178	162.381	ppb	0.8567	0.5	4322.58
Be 313.042	53.5259	ppb	0.0634	0.1	110726
Ca 370.602	28037	ppb	19.72	0.1	102543
Cd 226.502	54.5152	ppb	0.1296	0.2	2173.72
Co 228.615	53.2368	ppb	0.1767	0.3	692.613
Cr 267.716	109.115	ppb	0.3267	0.3	4996.06
Cu 324.754	103.796	ppb	0.2774	0.3	5612.25
Fe 271.441	5253.57	ppb	7.0587	0.1	9197.93
K 766.491	7081.52	ppb	17.7437	0.3	433307
Mg 279.078	16057.5	ppb	13.5449	0.1	35114.7
Mn 257.610	540.511	ppb	0.4576	0.1	127842
Mo 202.032	106.232	ppb	0.5397	0.5	788.583
Na 330.237	13720.3	ppb	166.375	1.2	726.549
Ni 231.604	111.109	ppb	1.6041	1.4	293.934
Pb 220.353	56.5671	ppb	3.5117	6.2	97.1461
Sb 206.834	58.4998	ppb	4.6285	7.9	56.2496
Se 196.026	105.251	ppb	4.2854	4.1	50.0092
Sn 189.925	206.834	ppb	0.8249	0.4	191.569
Sr 216.596	246.561	ppb	0.8718	0.4	2670.36
Ti 334.941	105.863	ppb	0.1805	0.2	31713.3
Tl 190.794	46.9405	ppb	2.6049	5.5	34.0757
V 292.401	106.494	ppb	0.6059	0.6	3179.87
Zn 206.200	114.066	ppb	1.1166	1.0	456.997

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

680-88314-d-1-c msd (Samp) 3/21/2013, 8:07:53 PM Rack 2, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	33.5220	33.0400	34.0511
Al 308.215	5189.70	5180.23	5180.35
As 188.980	102.899	114.850	109.160
B 249.678	242.685	242.436	243.928
Ba 389.178	166.146	164.793	165.339
Be 313.042	53.9299	53.8100	53.8200
Ca 370.602	28826	28818	28842
Cd 226.502	55.2373	55.1829	54.7323
Co 228.615	53.8887	54.1336	52.7866
Cr 267.716	110.102	109.872	109.406
Cu 324.754	104.551	103.628	104.500
Fe 271.441	5291.53	5288.75	5293.45
K 766.491	7173.94	7172.67	7185.44
Mg 279.078	16509.4	16495.6	16492.7
Mn 257.610	545.169	543.339	543.172
Mo 202.032	105.612	105.491	106.124
Na 330.237	14629.4	14431.5	14869.8
Ni 231.604	113.469	110.735	112.147
Pb 220.353	54.7309	57.2749	55.5615
Sb 206.834	56.8032	52.3028	60.4725
Se 196.026	103.208	114.320	111.384
Sn 189.925	210.185	210.708	212.262
Sr 216.596	253.504	253.797	252.003
Ti 334.941	106.270	106.214	106.358
Tl 190.794	42.5757	46.9069	45.8484
V 292.401	106.398	107.120	106.418
Zn 206.200	114.823	116.014	117.456

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	33.5377	ppb	0.5057	1.5	2330.87
Al 308.215	5183.43	ppb	5.4339	0.1	30558.5
As 188.980	108.970	ppb	5.9777	5.5	65.8657
B 249.678	243.016	ppb	0.7994	0.3	2339.74
Ba 389.178	165.426	ppb	0.6806	0.4	4404.43
Be 313.042	53.8533	ppb	0.0665	0.1	111405
Ca 370.602	28829	ppb	12.22	0.0	105451
Cd 226.502	55.0509	ppb	0.2772	0.5	2194.94
Co 228.615	53.6030	ppb	0.7175	1.3	697.310
Cr 267.716	109.793	ppb	0.3546	0.3	5027.10
Cu 324.754	104.226	ppb	0.5186	0.5	5634.79
Fe 271.441	5291.24	ppb	2.3630	0.0	9263.82
K 766.491	7177.35	ppb	7.0337	0.1	439166
Mg 279.078	16499.2	ppb	8.9202	0.1	36080.1
Mn 257.610	543.893	ppb	1.1078	0.2	128644
Mo 202.032	105.742	ppb	0.3362	0.3	784.993
Na 330.237	14643.6	ppb	219.474	1.5	776.055
Ni 231.604	112.117	ppb	1.3670	1.2	296.612
Pb 220.353	55.8557	ppb	1.2973	2.3	95.9307
Sb 206.834	56.5262	ppb	4.0919	7.2	54.2678
Se 196.026	109.637	ppb	5.7585	5.3	52.0647
Sn 189.925	211.052	ppb	1.0802	0.5	195.485
Sr 216.596	253.101	ppb	0.9626	0.4	2741.14
Ti 334.941	106.281	ppb	0.0725	0.1	31840.7
Tl 190.794	45.1103	ppb	2.2580	5.0	32.6870
V 292.401	106.645	ppb	0.4109	0.4	3184.46
Zn 206.200	116.097	ppb	1.3182	1.1	459.762

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88314-d-2-a (Samp) 3/21/2013, 8:13:19 PM Rack 2, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0336	-0.2948u	0.8557
Al 308.215	1.2939	1.7689	3.1886
As 188.980	3.3485	8.8574	2.9006
B 249.678	0.5009u	-0.2050u	-0.0936u
Ba 389.178	218.035	219.594	219.553
Be 313.042	0.0370	0.0345	0.0254
Ca 370.602	16327	16410	16409
Cd 226.502	-1.0020	-0.8266	-0.8447
Co 228.615	7.0050	7.6558	7.7451
Cr 267.716	-0.5272	-0.6184u	-0.7218u
Cu 324.754	0.0140	-0.8615u	0.7209
Fe 271.441	73842.6	74385.6	74218.7
K 766.491	2071.95	2084.50	2086.67
Mg 279.078	5485.77	5514.61	5507.50
Mn 257.610	2550.95	2566.11	2555.93
Mo 202.032	0.2379u	-0.2006u	0.0485u
Na 330.237	15941.4	16162.0	16239.6
Ni 231.604	2.5069	2.8741	2.6198
Pb 220.353	2.3927	0.4127	0.9971
Sb 206.834	2.3600	-1.2661	2.3246
Se 196.026	4.0902	3.6086	1.5810
Sn 189.925	5.6418	5.4699	0.8549
Sr 216.596	88.0191	87.5133	88.5642
Ti 334.941	0.1390	0.1846	0.1083
Tl 190.794	9.5314	10.7104	9.8728
V 292.401	-0.0728u	-0.0801u	0.2411
Zn 206.200	30.3465	28.7655	27.9471

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1982	ppb	0.5927	299.1	-33.0853
Al 308.215	2.0838	ppb	0.9858	47.3	278.172
As 188.980	5.0355	ppb	3.3175	65.9	0.2614
B 249.678	0.0674	ppb	0.3795	563.0	-24.6568
Ba 389.178	219.060	ppb	0.8884	0.4	5898.78
Be 313.042	0.0323	ppb	0.0061	18.9	-202.482
Ca 370.602	16382	ppb	47.33	0.3	53307
Cd 226.502	-0.8911	ppb	0.0965	10.8	164.226
Co 228.615	7.4687	ppb	0.4040	5.4	106.769
Cr 267.716	-0.6225	ppb	0.0973	15.6	6.5267
Cu 324.754	-0.0422	ppb	0.7927	1877.1	186.535
Fe 271.441	74149.0	ppb	278.129	0.4	129595
K 766.491	2081.04	ppb	7.9496	0.4	127551
Mg 279.078	5502.62	ppb	15.0254	0.3	12027.6
Mn 257.610	2557.66	ppb	7.7291	0.3	604462
Mo 202.032	0.0286	ppb	0.2199	768.5	6.1771
Na 330.237	16114.3	ppb	154.732	1.0	834.969
Ni 231.604	2.6669	ppb	0.1881	7.1	7.2557
Pb 220.353	1.2675	ppb	1.0173	80.3	3.4161
Sb 206.834	1.1395	ppb	2.0834	182.8	-0.2331
Se 196.026	3.0932	ppb	1.3316	43.0	2.1799
Sn 189.925	3.9888	ppb	2.7155	68.1	3.2469
Sr 216.596	88.0322	ppb	0.5256	0.6	989.533
Ti 334.941	0.1440	ppb	0.0384	26.7	-43.7160
Tl 190.794	10.0382	ppb	0.6067	6.0	1.2414
V 292.401	0.0294	ppb	0.1834	624.2	4.5455
Zn 206.200	29.0197	ppb	1.2197	4.2	410.4248

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88314-d-3-a (Samp) 3/21/2013, 8:18:45 PM Rack 2, Tube 47

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3137u	0.2298	0.4525
Al 308.215	31.9734	31.2542	31.9687
As 188.980	0.1922	3.9558	10.2015
B 249.678	23.7932	23.4932	23.8859
Ba 389.178	48.7749	49.7412	49.3920
Be 313.042	0.1959	0.1997	0.2049
Ca 370.602	26863	26861	26894
Cd 226.502	0.1625	0.1468	0.2163
Co 228.615	23.8215	23.6641	24.3195
Cr 267.716	0.0456	-0.5216u	-0.0392
Cu 324.754	0.2733	0.7927	0.3004
Fe 271.441	1442.01	1445.81	1442.07
K 766.491	3376.20	3379.18	3382.31
Mg 279.078	14396.0	14383.2	14349.8
Mn 257.610	771.792	770.380	769.358
Mo 202.032	0.7427	-0.1261u	-0.5623u
Na 330.237	46356.0	46252.6	46224.8
Ni 231.604	26.8392	26.9075	28.7148
Pb 220.353	2.8764	0.4966	2.7586
Sb 206.834	4.6015	9.3362	3.7689
Se 196.026	-8.5225u	1.3237	-5.6662u
Sn 189.925	-3.1240u	-0.1772u	0.6378
Sr 216.596	163.458	163.677	164.154
Ti 334.941	0.0452	-0.0905	-0.0626
Tl 190.794	6.6982	0.1605u	3.6352
V 292.401	-0.5176u	-0.6636u	-0.2039u
Zn 206.200	24.6105	27.5308	27.0624

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1229	ppb	0.3941	320.8	-49.2631
Al 308.215	31.7321	ppb	0.4139	1.3	451.432
As 188.980	4.7832	ppb	5.0557	105.7	0.9354
B 249.678	23.7241	ppb	0.2053	0.9	267.809
Ba 389.178	49.3027	ppb	0.4893	1.0	1322.73
Be 313.042	0.2002	ppb	0.0045	2.3	147.274
Ca 370.602	26873	ppb	19.04	0.1	98610
Cd 226.502	0.1752	ppb	0.0365	20.8	19.4673
Co 228.615	23.9350	ppb	0.3421	1.4	319.605
Cr 267.716	-0.1717	ppb	0.3059	178.1	3.9665
Cu 324.754	0.4555	ppb	0.2924	64.2	190.085
Fe 271.441	1443.29	ppb	2.1784	0.2	2533.07
K 766.491	3379.23	ppb	3.0586	0.1	206929
Mg 279.078	14376.4	ppb	23.8812	0.2	31437.6
Mn 257.610	770.510	ppb	1.2219	0.2	182152
Mo 202.032	0.0181	ppb	0.6643	3679.7	9.7836
Na 330.237	46277.8	ppb	69.1360	0.1	2475.90
Ni 231.604	27.4872	ppb	1.0637	3.9	71.6763
Pb 220.353	2.0439	ppb	1.3413	65.6	4.3393
Sb 206.834	5.9022	ppb	3.0029	50.9	2.9107
Se 196.026	-4.2884	ppb	5.0657	118.1	-1.2254
Sn 189.925	-0.8878	ppb	1.9790	222.9	-1.2617
Sr 216.596	163.763	ppb	0.3562	0.2	1778.90
Ti 334.941	-0.0360	ppb	0.0717	199.3	-65.6800
Tl 190.794	3.4980	ppb	3.2710	93.5	1.1003
V 292.401	-0.4617	ppb	0.2349	50.9	-10.4649
Zn 206.200	26.4012	ppb	1.5684	5.9	37.8579

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

680-88314-d-4-a (Samp) 3/21/2013, 8:24:11 PM Rack 2, Tube 48

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4477u	-1.0493u	0.1668
Al 308.215	1.8961	2.1654	1.9963
As 188.980	4.5196	0.6250	3.6024
B 249.678	25.3372	25.9980	26.4079
Ba 389.178	32.8970	31.8645	32.1397
Be 313.042	0.0027	0.0108	0.0039
Ca 370.602	14619	14610	14634
Cd 226.502	0.1198	0.1972	0.1053
Co 228.615	11.9992	12.3505	11.9857
Cr 267.716	-0.2167u	-0.2119u	0.1202
Cu 324.754	3.1462	2.4033	2.5747
Fe 271.441	160.392	160.421	151.813
K 766.491	6190.30	6193.52	6210.56
Mg 279.078	12391.6	12341.4	12377.7
Mn 257.610	1671.64	1668.34	1670.27
Mo 202.032	0.0001u	-0.5937u	0.0048
Na 330.237	18481.2	18365.2	18372.6
Ni 231.604	8.0031	9.4855	9.3884
Pb 220.353	2.6700	3.0592	-1.3842u
Sb 206.834	6.0981	-0.0682u	1.1336
Se 196.026	1.5311	1.8204	-2.8923u
Sn 189.925	1.2282	1.8112	1.4772
Sr 216.596	80.4617	79.7767	79.9315
Ti 334.941	-0.0357	-0.0006	-0.0298
Tl 190.794	8.5810	7.7452	10.2423
V 292.401	-0.5793u	-0.3708u	-0.8306u
Zn 206.200	22.9963	20.9217	19.4151

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4434	ppb	0.6081	137.1	-82.2282
Al 308.215	2.0193	ppb	0.1361	6.7	277.798
As 188.980	2.9157	ppb	2.0361	69.8	-0.3180
B 249.678	25.9144	ppb	0.5402	2.1	289.756
Ba 389.178	32.3004	ppb	0.5347	1.7	865.337
Be 313.042	0.0058	ppb	0.0043	74.7	-257.043
Ca 370.602	14621	ppb	12.44	0.1	53749
Cd 226.502	0.1408	ppb	0.0494	35.1	14.9467
Co 228.615	12.1118	ppb	0.2068	1.7	168.813
Cr 267.716	-0.1028	ppb	0.1932	187.9	10.0448
Cu 324.754	2.7081	ppb	0.3890	14.4	307.798
Fe 271.441	157.542	ppb	4.9615	3.1	284.107
K 766.491	6198.13	ppb	10.8856	0.2	379292
Mg 279.078	12370.2	ppb	25.8913	0.2	27038.0
Mn 257.610	1670.08	ppb	1.6569	0.1	394631
Mo 202.032	-0.1963	ppb	0.3442	175.4	8.2765
Na 330.237	18406.3	ppb	64.9424	0.4	981.101
Ni 231.604	8.9590	ppb	0.8292	9.3	22.4218
Pb 220.353	1.4483	ppb	2.4607	169.9	3.5263
Sb 206.834	2.3879	ppb	3.2689	136.9	-0.6665
Se 196.026	0.1530	ppb	2.6413	1725.8	1.0737
Sn 189.925	1.5055	ppb	0.2925	19.4	0.9434
Sr 216.596	80.0566	ppb	0.3592	0.4	872.635
Ti 334.941	-0.0220	ppb	0.0188	85.3	-69.1623
Tl 190.794	8.8562	ppb	1.2711	14.4	4.2025
V 292.401	-0.5936	ppb	0.2302	38.8	-14.1255
Zn 206.200	21.1111	ppb	1.7981	8.5	30.6511

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

Cont Calib Verif (CCV) 3/21/2013, 8:29:37 PM Rack 2, Tube 49
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	509.334	515.923	513.434
Al 308.215	5053.11	5106.13	5063.72
As 188.980	474.701	484.259	489.570
B 249.678	2540.32	2569.79	2580.13
Ba 389.178	5015.62	5035.21	5040.51
Be 313.042	503.807	506.252	505.934
Ca 370.602	5064	5091	5106
Cd 226.502	508.948	511.379	511.003
Co 228.615	501.923	504.458	504.374
Cr 267.716	5141.93	5165.38	5172.34
Cu 324.754	4926.31	4878.98	4996.10
Fe 271.441	5064.37	5090.10	5088.37
K 766.491	9835.64	9837.47	9884.68
Mg 279.078	5044.23	5061.82	5064.88
Mn 257.610	5068.18	5082.42	5072.53
Mo 202.032	505.851	508.305	507.971
Na 330.237	7332.25	7508.29	7758.27
Ni 231.604	2561.70	2571.25	2571.68
Pb 220.353	525.268	526.726	529.342
Sb 206.834	928.021	940.280	936.713
Se 196.026	5027.21	5039.43	5030.45
Sn 189.925	5135.37	5137.60	5148.39
Sr 216.596	2565.02	2573.28	2578.11
Ti 334.941	504.598	506.831	507.810
Tl 190.794	5245.29	5264.66	5248.12
V 292.401	5007.91	5033.32	5034.69
Zn 206.200	2589.13	2594.10	2594.63

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	512.897	ppb	3.3273	0.6	36484.5	102.57947
Al 308.215	5074.32	ppb	28.0549	0.6	29886.5	101.48644
As 188.980	482.843	ppb	7.5346	1.6	298.751	96.56868
B 249.678	2563.41	ppb	20.6572	0.8	24302.0	102.53648
Ba 389.178	5030.45	ppb	13.1114	0.3	132929	100.60896
Be 313.042	505.331	ppb	1.3290	0.3	1047486	101.06619
Ca 370.602	5087	ppb	21.20	0.4	18530	101.74585
Cd 226.502	510.443	ppb	1.3086	0.3	20163.7	102.08869
Co 228.615	503.585	ppb	1.4401	0.3	6448.83	100.71705
Cr 267.716	5159.88	ppb	15.9361	0.3	235766	103.19764
Cu 324.754	4933.79	ppb	58.9213	1.2	258850	98.67590
Fe 271.441	5080.95	ppb	14.3784	0.3	9015.65	101.61893
K 766.491	9852.60	ppb	27.7955	0.3	602745	98.52598
Mg 279.078	5056.98	ppb	11.1419	0.2	10997.4	101.13958
Mn 257.610	5074.38	ppb	7.2991	0.1	1198750	101.48750
Mo 202.032	507.376	ppb	1.3310	0.3	3722.06	101.47511
Na 330.237	7532.93	ppb	214.074	2.8	372.385	100.43913
Ni 231.604	2568.21	ppb	5.6408	0.2	6822.22	102.72844
Pb 220.353	527.112	ppb	2.0642	0.4	901.272	105.42241
Sb 206.834	935.005	ppb	6.3056	0.7	990.042	93.50049
Se 196.026	5032.36	ppb	6.3307	0.1	2359.16	100.64724
Sn 189.925	5140.46	ppb	6.9640	0.1	4771.78	102.80911
Sr 216.596	2572.13	ppb	6.6204	0.3	27750.7	102.88532
Ti 334.941	506.413	ppb	1.6466	0.3	151816	101.28258
Tl 190.794	5252.69	ppb	10.4630	0.2	3967.72	105.05380
V 292.401	5025.31	ppb	15.0829	0.3	150769	100.50620
Zn 206.200	2592.62	ppb	3.0342	0.1	3520.36	103.70472

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

Cont Calib Blank (CCB) 3/21/2013, 8:35:03 PM Rack 2, Tube 50
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6448u	-0.0710u	-0.5056u
Al 308.215	-1.1736u	-2.6898u	-3.2397u
As 188.980	3.0810	3.0112	10.2743
B 249.678	26.2171	23.0354	19.8968
Ba 389.178	1.0797	0.6189	-0.1219u
Be 313.042	0.0617	0.0610	0.0567
Ca 370.602	-0.3210u	3.641	0.9370
Cd 226.502	0.0724	-0.1507u	0.0344
Co 228.615	-0.0382u	0.4722	0.6884
Cr 267.716	0.8061	0.4766	0.3061
Cu 324.754	-0.1183u	-0.3057u	-0.1256u
Fe 271.441	2.3707	-0.2756u	-3.8019u
K 766.491	0.5443	-0.0282u	0.0330
Mg 279.078	-3.3390u	-0.4055u	-0.1896u
Mn 257.610	0.6424	0.6807	0.6596
Mo 202.032	1.0544	1.2355	0.6086
Na 330.237	93.7179	45.3486	23.5579
Ni 231.604	1.8278	-0.6135u	0.7754
Pb 220.353	4.0055	0.7286	2.4392
Sb 206.834	11.8582	8.6478	6.9755
Se 196.026	0.6706	6.3281	2.4488
Sn 189.925	-0.1079u	3.6484	-3.0868u
Sr 216.596	-0.1372u	0.1776	0.0104
Ti 334.941	0.1953	0.3166	0.2167
Tl 190.794	2.6313	4.1548	4.5297
V 292.401	0.4646	1.0353	0.6260
Zn 206.200	1.1609	0.1715	0.5272

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.4071	ppb	0.2993	73.5	-83.3589	-0.40713
Al 308.215	-2.3677	ppb	1.0700	45.2	252.324	-2.36768
As 188.980	5.4555	ppb	4.1734	76.5	1.1454	5.45553
B 249.678	23.0498	ppb	3.1602	13.7	262.783	23.04977
Ba 389.178	0.5256	ppb	0.6062	115.3	-11.7434	0.52558
Be 313.042	0.0598	ppb	0.0027	4.5	-147.042	0.05980
Ca 370.602	1.419	ppb	2.024	142.7	2.832	1.41898
Cd 226.502	-0.0147	ppb	0.1194	813.5	8.3469	-0.01467
Co 228.615	0.3741	ppb	0.3731	99.7	19.0042	0.37413
Cr 267.716	0.5296	ppb	0.2542	48.0	31.7298	0.52960
Cu 324.754	-0.1832	ppb	0.1061	57.9	156.161	-0.18318
Fe 271.441	-0.5689	ppb	3.0967	544.3	5.8572	-0.56893
K 766.491	0.1831	ppb	0.3144	171.7	316.580	0.18307
Mg 279.078	-1.3114	ppb	1.7593	134.2	26.9437	-1.31137
Mn 257.610	0.6609	ppb	0.0192	2.9	225.815	0.66091
Mo 202.032	0.9662	ppb	0.3226	33.4	16.8101	0.96618
Na 330.237	54.2081	ppb	35.9093	66.2	-3.2390	54.20815
Ni 231.604	0.6632	ppb	1.2245	184.6	0.3774	0.66323
Pb 220.353	2.3911	ppb	1.6389	68.5	4.7696	2.39109
Sb 206.834	9.1605	ppb	2.4814	27.1	6.1670	9.16053
Se 196.026	3.1492	ppb	2.8931	91.9	2.0880	3.14918
Sn 189.925	0.1512	ppb	3.3751	2232.0	-0.3280	0.15122
Sr 216.596	0.0169	ppb	0.1575	930.5	5.9829	0.01693
Ti 334.941	0.2429	ppb	0.0647	26.7	-48.6169	0.24288
Tl 190.794	3.7719	ppb	1.0054	26.7	2.2058	3.77194
V 292.401	0.7086	ppb	0.2942	41.5	24.7430	0.70863
Zn 206.200	0.6199	ppb	0.5012	80.9	2.7366	0.61986

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

660-53222-a-2-b (Samp) 3/21/2013, 8:40:28 PM Rack 2, Tube 51

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4105	0.3429	-0.3040u
Al 308.215	42.3900	41.3369	42.5933
As 188.980	2.6460	1.7943	3.3516
B 249.678	6.9937	6.2126	5.2274
Ba 389.178	-0.5846u	0.2819	-0.6808u
Be 313.042	0.0073	0.0028	0.0028
Ca 370.602	605.1	599.2	595.4
Cd 226.502	-0.0415u	-0.0027u	0.0097
Co 228.615	-0.0474u	0.3813	0.2167
Cr 267.716	0.0916	0.0340	0.0806
Cu 324.754	0.3186	0.3396	-0.6500u
Fe 271.441	6.5787	11.6233	5.7358
K 766.491	35.4447	34.5939	34.4919
Mg 279.078	28.0723	31.6298	33.9949
Mn 257.610	0.6615	0.6414	0.5917
Mo 202.032	0.2630	0.1158	0.1727
Na 330.237	942.680	862.153	1171.01
Ni 231.604	0.6314	0.8581	1.6990
Pb 220.353	1.0402	0.7655	0.6513
Sb 206.834	4.6049	2.6042	1.1485
Se 196.026	-5.5877u	3.0305	-6.2184u
Sn 189.925	1.7845	0.0637	0.3956
Sr 216.596	1.1288	0.7039	1.2087
Ti 334.941	0.2728	0.1905	0.2518
Tl 190.794	-0.7623u	5.7401	-4.1418u
V 292.401	-0.3706u	-0.4557u	-0.1019u
Zn 206.200	16.4048	17.1301	16.3553

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1498	ppb	0.3944	263.4	-43.6825
Al 308.215	42.1067	ppb	0.6744	1.6	512.064
As 188.980	2.5973	ppb	0.7798	30.0	-0.6322
B 249.678	6.1446	ppb	0.8851	14.4	102.769
Ba 389.178	-0.3278	ppb	0.5302	161.7	-34.1829
Be 313.042	0.0043	ppb	0.0026	60.3	-261.894
Ca 370.602	599.9	ppb	4.895	0.8	2200
Cd 226.502	-0.0115	ppb	0.0267	232.9	8.4943
Co 228.615	0.1835	ppb	0.2163	117.8	16.5950
Cr 267.716	0.0687	ppb	0.0306	44.5	10.6973
Cu 324.754	0.0027	ppb	0.5654	20846.1	165.904
Fe 271.441	7.9793	ppb	3.1838	39.9	20.7712
K 766.491	34.8435	ppb	0.5232	1.5	2435.90
Mg 279.078	31.2323	ppb	2.9812	9.5	98.0580
Mn 257.610	0.6315	ppb	0.0359	5.7	219.064
Mo 202.032	0.1838	ppb	0.0742	40.4	11.0721
Na 330.237	991.948	ppb	160.215	16.2	46.9420
Ni 231.604	1.0628	ppb	0.5625	52.9	1.4394
Pb 220.353	0.8190	ppb	0.1999	24.4	2.0833
Sb 206.834	2.7858	ppb	1.7353	62.3	-0.2770
Se 196.026	-2.9252	ppb	5.1674	176.7	-0.7576
Sn 189.925	0.7479	ppb	0.9129	122.1	0.2267
Sr 216.596	1.0138	ppb	0.2714	26.8	16.8362
Ti 334.941	0.2384	ppb	0.0428	17.9	-49.8748
Tl 190.794	0.2787	ppb	5.0225	1802.4	-0.4365
V 292.401	-0.3094	ppb	0.1847	59.7	-5.7335
Zn 206.200	16.6301	ppb	0.4337	2.6	245470

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88365-d-1-a (Samp) 3/21/2013, 8:45:54 PM Rack 2, Tube 52

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8068u	-0.2886u	0.1587
Al 308.215	0.3445	1.2486	2.5328
As 188.980	-7.3063u	0.9263	-3.2933u
B 249.678	7.6581	8.5946	8.1466
Ba 389.178	234.239	235.849	234.511
Be 313.042	0.0345	0.0280	0.0318
Ca 370.602	22721	22824	22775
Cd 226.502	0.1821	0.1792	0.2625
Co 228.615	14.9380	14.6961	15.1308
Cr 267.716	0.3156	0.4206	0.2576
Cu 324.754	0.1689	0.0913	-0.0556u
Fe 271.441	1064.00	1063.46	1066.40
K 766.491	1444.11	1440.88	1440.25
Mg 279.078	15255.6	15263.4	15245.9
Mn 257.610	256.026	256.331	255.487
Mo 202.032	-0.8984u	0.3548	0.3022
Na 330.237	18526.8	18742.6	18548.3
Ni 231.604	19.0695	20.0290	18.5462
Pb 220.353	-1.6279u	3.3576	2.7261
Sb 206.834	1.0935	11.4366	6.6600
Se 196.026	-0.1675u	0.6387	-10.7299u
Sn 189.925	2.1620	2.9845	5.8714
Sr 216.596	179.306	180.957	179.608
Ti 334.941	-0.0140	-0.0257	0.0018
Tl 190.794	1.9580	3.4313	-3.0851u
V 292.401	-0.3890u	-0.7023u	0.0321
Zn 206.200	12.1887	13.4586	10.5401

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3122	ppb	0.4832	154.8	-83.2701
Al 308.215	1.3753	ppb	1.0996	80.0	274.059
As 188.980	-3.2244	ppb	4.1167	127.7	-4.0886
B 249.678	8.1331	ppb	0.4684	5.8	120.593
Ba 389.178	234.866	ppb	0.8615	0.4	6227.78
Be 313.042	0.0315	ppb	0.0033	10.4	-200.381
Ca 370.602	22774	ppb	51.39	0.2	83570
Cd 226.502	0.2079	ppb	0.0473	22.8	19.9723
Co 228.615	14.9217	ppb	0.2178	1.5	204.623
Cr 267.716	0.3313	ppb	0.0826	24.9	24.2827
Cu 324.754	0.0682	ppb	0.1140	167.2	169.653
Fe 271.441	1064.62	ppb	1.5640	0.1	1869.77
K 766.491	1441.75	ppb	2.0678	0.1	88461.5
Mg 279.078	15255.0	ppb	8.7307	0.1	33366.3
Mn 257.610	255.948	ppb	0.4270	0.2	60608.6
Mo 202.032	-0.0805	ppb	0.7089	881.1	9.0797
Na 330.237	18605.9	ppb	118.875	0.6	991.591
Ni 231.604	19.2149	ppb	0.7520	3.9	49.6898
Pb 220.353	1.4853	ppb	2.7145	182.8	3.2749
Sb 206.834	6.3967	ppb	5.1766	80.9	3.4093
Se 196.026	-3.4196	ppb	6.3438	185.5	-0.9363
Sn 189.925	3.6726	ppb	1.9481	53.0	2.9591
Sr 216.596	179.957	ppb	0.8788	0.5	1953.56
Ti 334.941	-0.0126	ppb	0.0138	109.4	-52.0601
Tl 190.794	0.7680	ppb	3.4173	444.9	-0.3842
V 292.401	-0.3531	ppb	0.3685	104.4	-6.9114
Zn 206.200	12.0625	ppb	1.4634	12.1	183243

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

680-88365-d-2-a (Samp) 3/21/2013, 8:51:19 PM Rack 2, Tube 53

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2571u	-0.3711u	-0.2237u
Al 308.215	4.8257	3.9752	8.0965
As 188.980	5.9480	4.4859	8.3877
B 249.678	-8.5678u	-7.8385u	-8.6663u
Ba 389.178	296.025	295.269	295.287
Be 313.042	0.1441	0.1551	0.1527
Ca 370.602	34934	34990	35026
Cd 226.502	-0.7145	-0.8479	-1.1472
Co 228.615	73.3107	72.5534	72.0549
Cr 267.716	0.0391	-0.0566	-0.2777
Cu 324.754	0.1459	-0.3050	-0.0309
Fe 271.441	109368	109019	109042
K 766.491	4006.90	3988.29	3990.21
Mg 279.078	12247.5	12227.5	12236.6
Mn 257.610	5389.03	5382.57	5380.90
Mo 202.032	-0.1297u	0.7857	-0.3244u
Na 330.237	329594x	328494x	328647x
Ni 231.604	9.0772	8.1183	8.6801
Pb 220.353	2.7207	1.4775	1.0015
Sb 206.834	5.6932	6.1026	-1.9445
Se 196.026	2.0016	10.8390	-3.4251u
Sn 189.925	0.8825	3.0396	0.3060
Sr 216.596	188.758	188.514	188.963
Ti 334.941	0.0760	0.0266	0.0649
Tl 190.794	14.4029	15.6245	20.7542
V 292.401	1.2276	1.7439	1.6777
Zn 206.200	15.2548	14.7057	13.8176

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2840b	ppb	0.0773	27.2	-59.7732
Al 308.215	5.6324b	ppb	2.1759	38.6	298.834
As 188.980	6.2739b	ppb	1.9712	31.4	0.8354
B 249.678	-8.3575b	ppb	0.4522	5.4	-137.079
Ba 389.178	295.527b	ppb	0.4311	0.1	7995.50
Be 313.042	0.1506b	ppb	0.0058	3.8	7.7400
Ca 370.602	34984b	ppb	46.40	0.1	118483
Cd 226.502	-0.9032b	ppb	0.2216	24.5	251.014
Co 228.615	72.6397b	ppb	0.6324	0.9	937.023
Cr 267.716	-0.0984b	ppb	0.1625	165.2	55.1994
Cu 324.754	-0.0633b	ppb	0.2272	358.8	196.161
Fe 271.441	109143b	ppb	195.317	0.2	190763
K 766.491	3995.13b	ppb	10.2374	0.3	244589
Mg 279.078	12237.2b	ppb	9.9992	0.1	26706.0
Mn 257.610	5384.16b	ppb	4.2954	0.1	1272251
Mo 202.032	0.1106b	ppb	0.5927	536.1	5.0195
Na 330.237	328912xb	ppb	595.517	0.2	17605.1
Ni 231.604	8.6252b	ppb	0.4818	5.6	23.8130
Pb 220.353	1.7332b	ppb	0.8876	51.2	4.8161
Sb 206.834	3.2838b	ppb	4.5324	138.0	2.7427
Se 196.026	3.1385b	ppb	7.1997	229.4	2.6372
Sn 189.925	1.4094b	ppb	1.4410	102.2	0.9854
Sr 216.596	188.745b	ppb	0.2245	0.1	2094.27
Ti 334.941	0.0558b	ppb	0.0259	46.4	-59.3955
Tl 190.794	16.9272b	ppb	3.3701	19.9	2.0081
V 292.401	1.5497b	ppb	0.2809	18.1	47.6516
Zn 206.200	14.5927b	ppb	0.7253	5.0	41.7701

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88365-d-3-a (Samp) 3/21/2013, 8:56:45 PM Rack 2, Tube 54

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0027u	-0.7238u	-0.2154u
Al 308.215	-0.2939u	-0.7339u	0.9757
As 188.980	5.0218	2.5508	0.1010
B 249.678	163.298	163.785	164.669
Ba 389.178	98.9305	98.2787	98.3781
Be 313.042	-0.0085u	0.0121	0.0139
Ca 370.602	30890	30911	30942
Cd 226.502	0.0887	0.1518	-0.0270u
Co 228.615	24.4467	24.8641	25.0255
Cr 267.716	-0.1746u	-0.1719u	-0.0898
Cu 324.754	0.7326	0.6005	0.5041
Fe 271.441	252.384	255.859	253.178
K 766.491	4951.96	4923.36	4918.78
Mg 279.078	25818.2	25799.4	25811.5
Mn 257.610	1128.30	1125.42	1127.51
Mo 202.032	0.7475	0.5927	0.9587
Na 330.237	39771.4	39358.4	39946.6
Ni 231.604	10.4187	12.0079	12.0240
Pb 220.353	-0.7254u	-0.9735u	2.8714
Sb 206.834	-1.7656u	5.7956	5.7898
Se 196.026	8.5752	3.3620	-3.4795u
Sn 189.925	-1.8932u	0.3938	-0.0425u
Sr 216.596	182.649	183.217	183.080
Ti 334.941	-0.2436	-0.2313	-0.2428
Tl 190.794	8.1442	2.9887	1.4535u
V 292.401	0.1348	0.1713	-0.2149u
Zn 206.200	6.5319	8.0150	6.8839

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3140	ppb	0.3705	118.0	-79.9914
Al 308.215	-0.0174	ppb	0.8877	5103.4	265.999
As 188.980	2.5578	ppb	2.4604	96.2	-0.4049
B 249.678	163.917	ppb	0.6949	0.4	1595.83
Ba 389.178	98.5291	ppb	0.3512	0.4	2656.05
Be 313.042	0.0058	ppb	0.0125	213.0	-254.060
Ca 370.602	30914	ppb	26.14	0.1	113580
Cd 226.502	0.0712	ppb	0.0907	127.4	12.5127
Co 228.615	24.7788	ppb	0.2986	1.2	330.402
Cr 267.716	-0.1454	ppb	0.0482	33.1	6.2488
Cu 324.754	0.6124	ppb	0.1147	18.7	197.953
Fe 271.441	253.807	ppb	1.8210	0.7	454.281
K 766.491	4931.37	ppb	17.9808	0.4	301835
Mg 279.078	25809.7	ppb	9.5477	0.0	56419.6
Mn 257.610	1127.08	ppb	1.4857	0.1	266433
Mo 202.032	0.7663	ppb	0.1837	24.0	15.3319
Na 330.237	39692.1	ppb	302.012	0.8	2123.11
Ni 231.604	11.4835	ppb	0.9222	8.0	29.1314
Pb 220.353	0.3908	ppb	2.1518	550.6	1.5937
Sb 206.834	3.2732	ppb	4.3638	133.3	0.2188
Se 196.026	2.8192	ppb	6.0456	214.4	2.1950
Sn 189.925	-0.5139	ppb	1.2142	236.3	-0.9153
Sr 216.596	182.982	ppb	0.2964	0.2	1986.87
Ti 334.941	-0.2392	ppb	0.0069	2.9	-70.1802
Tl 190.794	4.1955	ppb	3.5048	83.5	1.2796
V 292.401	0.0304	ppb	0.2132	701.5	4.4718
Zn 206.200	7.1436	ppb	0.7749	10.8	410.6247

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88365-d-4-a (Samp) 3/21/2013, 9:02:10 PM Rack 2, Tube 55

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5778u	0.4427	-0.5887u
Al 308.215	406.042	409.932	405.562
As 188.980	19.3773	17.3039	9.9891
B 249.678	41.1566	42.0491	40.3232
Ba 389.178	28.6221	27.6992	27.4117
Be 313.042	0.1220	0.1197	0.1276
Ca 370.602	7618	7633	7610
Cd 226.502	-0.0491	-0.0241	-0.0167
Co 228.615	2.8850	2.7294	3.1760
Cr 267.716	2.3011	2.5610	2.4337
Cu 324.754	14.6663	14.6133	14.4509
Fe 271.441	3458.47	3475.05	3453.18
K 766.491	4806.13	4794.42	4771.44
Mg 279.078	6739.61	6741.17	6720.79
Mn 257.610	485.741	486.540	484.229
Mo 202.032	4.6979	4.6858	4.9658
Na 330.237	35098.4	35149.4	34800.4
Ni 231.604	4.1834	2.6230	3.5497
Pb 220.353	7.2611	3.9725	7.6062
Sb 206.834	8.3922	2.7874	1.0003
Se 196.026	4.2611	-4.7548u	-4.8184u
Sn 189.925	3.3351	3.3761	1.5043
Sr 216.596	34.4897	34.6306	34.9555
Ti 334.941	20.6015	20.8592	20.6796
Tl 190.794	5.1111	1.8804	2.7879
V 292.401	4.6923	4.7846	4.4779
Zn 206.200	6.0814	4.7973	6.7633

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2413	ppb	0.5923	245.5	-70.9677
Al 308.215	407.179	ppb	2.3966	0.6	2645.21
As 188.980	15.5568	ppb	4.9319	31.7	7.4733
B 249.678	41.1763	ppb	0.8631	2.1	431.101
Ba 389.178	27.9110	ppb	0.6324	2.3	737.779
Be 313.042	0.1231	ppb	0.0040	3.3	-18.9109
Ca 370.602	7620	ppb	11.78	0.2	27689
Cd 226.502	-0.0299	ppb	0.0170	56.7	16.4944
Co 228.615	2.9301	ppb	0.2267	7.7	51.9419
Cr 267.716	2.4319	ppb	0.1299	5.3	122.027
Cu 324.754	14.5768	ppb	0.1122	0.8	931.291
Fe 271.441	3462.23	ppb	11.4081	0.3	6058.17
K 766.491	4790.66	ppb	17.6476	0.4	293232
Mg 279.078	6733.86	ppb	11.3427	0.2	14739.5
Mn 257.610	485.504	ppb	1.1736	0.2	114796
Mo 202.032	4.7832	ppb	0.1582	3.3	44.6297
Na 330.237	35016.1	ppb	188.483	0.5	1871.10
Ni 231.604	3.4520	ppb	0.7848	22.7	7.8596
Pb 220.353	6.2799	ppb	2.0058	31.9	11.4970
Sb 206.834	4.0600	ppb	3.8568	95.0	1.0562
Se 196.026	-1.7707	ppb	5.2238	295.0	-0.1257
Sn 189.925	2.7385	ppb	1.0691	39.0	2.0915
Sr 216.596	34.6919	ppb	0.2389	0.7	382.811
Ti 334.941	20.7134	ppb	0.1322	0.6	6122.56
Tl 190.794	3.2598	ppb	1.6663	51.1	1.1498
V 292.401	4.6516	ppb	0.1573	3.4	142.576
Zn 206.200	5.8806	ppb	0.9982	17.0	9.8976

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88365-d-5-a (Samp) 3/21/2013, 9:07:36 PM Rack 2, Tube 56
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4495u	-0.2506u	-1.0961u
Al 308.215	3482.86	3480.78	3501.14
As 188.980	22.7146	15.1256	18.1248
B 249.678	5.6425	5.9373	6.3924
Ba 389.178	43.7137	42.9920	43.3899
Be 313.042	1.2345	1.2261	1.2232
Ca 370.602	3803	3808	3838
Cd 226.502	0.1608	0.2659	0.1071
Co 228.615	7.5131	7.4627	7.6987
Cr 267.716	14.7854	14.7709	14.8010
Cu 324.754	60.3433	60.3799	61.8384
Fe 271.441	10848.5	10806.3	10856.3
K 766.491	5213.01	5180.65	5203.37
Mg 279.078	1931.11	1924.84	1942.16
Mn 257.610	291.628	291.374	293.182
Mo 202.032	8.0131	7.5766	8.7192
Na 330.237	16052.6	16059.1	16135.4
Ni 231.604	14.0326	13.4120	12.8793
Pb 220.353	44.0555	47.4947	47.1356
Sb 206.834	-0.3921u	0.4186	0.6505
Se 196.026	7.9442	2.2264	9.5350
Sn 189.925	-1.1068u	-1.7832u	-1.1375u
Sr 216.596	22.3303	21.5018	21.7267
Ti 334.941	127.939	128.045	129.112
Tl 190.794	-3.9262u	4.1200	-2.3026u
V 292.401	40.9122	40.9119	41.3043
Zn 206.200	24.0034	23.0956	23.9691

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5987	ppb	0.4421	73.8	-96.4712
Al 308.215	3488.26	ppb	11.2057	0.3	20643.8
As 188.980	18.6550	ppb	3.8222	20.5	9.2976
B 249.678	5.9907	ppb	0.3778	6.3	91.1398
Ba 389.178	43.3652	ppb	0.3615	0.8	1143.61
Be 313.042	1.2279	ppb	0.0059	0.5	2271.91
Ca 370.602	3817	ppb	18.87	0.5	13041
Cd 226.502	0.1779	ppb	0.0808	45.4	43.6427
Co 228.615	7.5582	ppb	0.1243	1.6	113.695
Cr 267.716	14.7858	ppb	0.0151	0.1	686.972
Cu 324.754	60.8538	ppb	0.8529	1.4	3359.98
Fe 271.441	10837.0	ppb	26.8905	0.2	18947.9
K 766.491	5199.01	ppb	16.6157	0.3	318200
Mg 279.078	1932.70	ppb	8.7671	0.5	4249.94
Mn 257.610	292.061	ppb	0.9788	0.3	69098.8
Mo 202.032	8.1029	ppb	0.5766	7.1	68.5417
Na 330.237	16082.4	ppb	46.0314	0.3	852.054
Ni 231.604	13.4413	ppb	0.5772	4.3	34.5555
Pb 220.353	46.2286	ppb	1.8905	4.1	79.5931
Sb 206.834	0.2257	ppb	0.5474	242.6	-2.5739
Se 196.026	6.5685	ppb	3.8436	58.5	3.6880
Sn 189.925	-1.3425	ppb	0.3819	28.5	-1.7067
Sr 216.596	21.8529	ppb	0.4284	2.0	246.382
Ti 334.941	128.365	ppb	0.6488	0.5	38394.9
Tl 190.794	-0.7029	ppb	4.2550	605.3	-1.9038
V 292.401	41.0428	ppb	0.2265	0.6	1237.92
Zn 206.200	23.6893	ppb	0.5145	2.2	34.1253

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

mb 680-269805/1-a (Samp) 3/21/2013, 9:13:02 PM Rack 2, Tube 57

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4070	0.2647	0.4467
Al 308.215	-0.6321u	1.0680	2.2936
As 188.980	1.5284	7.7483	6.3935
B 249.678	4.1245	4.9016	3.9159
Ba 389.178	-0.2973u	-0.0929u	0.4223
Be 313.042	0.0008	-0.0069u	-0.0078u
Ca 370.602	7.959	8.470	9.143
Cd 226.502	-0.0469u	0.1099	-0.0660u
Co 228.615	0.1928	0.4493	-0.1709u
Cr 267.716	-0.2795u	-0.3585u	0.0591
Cu 324.754	-0.8527u	0.0031	-0.0693u
Fe 271.441	0.4578	2.7774	0.3637
K 766.491	1.5559	1.9756	2.1752
Mg 279.078	-1.4106u	1.4602	-2.6600u
Mn 257.610	0.2392	0.2012	0.3473
Mo 202.032	-0.0547u	-0.3828u	-0.2154u
Na 330.237	-144.643u	-30.5808u	372.311
Ni 231.604	0.7291	0.3523	1.0882
Pb 220.353	-0.2023u	-0.3573u	-0.6353u
Sb 206.834	-1.5440u	5.5698	3.6859
Se 196.026	-5.7171u	1.7641	-13.0484u
Sn 189.925	-5.2927u	-0.0482u	4.6792
Sr 216.596	0.2856	0.4242	0.5885
Ti 334.941	0.2197	0.1079	0.1613
Tl 190.794	0.7372	1.4856	1.2185
V 292.401	-0.0977u	-0.0960u	-0.2556u
Zn 206.200	2.8393	2.0803	1.5573

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3728	ppb	0.0957	25.7	-27.7245
Al 308.215	0.9098	ppb	1.4693	161.5	271.327
As 188.980	5.2234	ppb	3.2709	62.6	1.0010
B 249.678	4.3140	ppb	0.5195	12.0	85.4501
Ba 389.178	0.0107	ppb	0.3708	3456.4	-25.3506
Be 313.042	-0.0046	ppb	0.0047	102.5	-280.439
Ca 370.602	8.524	ppb	0.5940	7.0	28.66
Cd 226.502	-0.0010	ppb	0.0965	9704.6	8.8927
Co 228.615	0.1570	ppb	0.3116	198.4	16.2743
Cr 267.716	-0.1929	ppb	0.2218	115.0	-1.2805
Cu 324.754	-0.3063	ppb	0.4746	154.9	149.680
Fe 271.441	1.1996	ppb	1.3672	114.0	8.8984
K 766.491	1.9022	ppb	0.3161	16.6	421.699
Mg 279.078	-0.8701	ppb	2.1126	242.8	27.9143
Mn 257.610	0.2625	ppb	0.0758	28.9	131.724
Mo 202.032	-0.2176	ppb	0.1640	75.4	8.1269
Na 330.237	65.6957	ppb	271.592	413.4	-2.6331
Ni 231.604	0.7232	ppb	0.3680	50.9	0.5367
Pb 220.353	-0.3983	ppb	0.2194	55.1	0.0048
Sb 206.834	2.5706	ppb	3.6857	143.4	-0.4899
Se 196.026	-5.6671	ppb	7.4064	130.7	-2.0420
Sn 189.925	-0.2206	ppb	4.9882	2261.5	-0.6731
Sr 216.596	0.4327	ppb	0.1516	35.0	10.5207
Ti 334.941	0.1630	ppb	0.0559	34.3	-72.5837
Tl 190.794	1.1471	ppb	0.3793	33.1	0.2211
V 292.401	-0.1498	ppb	0.0916	61.2	-0.7918
Zn 206.200	2.1590	ppb	0.6446	29.8	4.8349

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

ics 680-269805/4-a (Samp) 3/21/2013, 9:18:27 PM Rack 2, Tube 58
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	205.850	207.232	205.742
Al 308.215	2027.71	2026.85	2031.17
As 188.980	227.429	204.000	222.866
B 249.678	409.457	414.704	416.644
Ba 389.178	204.560	204.213	203.749
Be 313.042	210.166	210.326	210.216
Ca 370.602	20396	20344	20400
Cd 226.502	210.561	210.600	210.519
Co 228.615	206.903	208.509	207.782
Cr 267.716	210.992	211.140	211.711
Cu 324.754	206.713	204.366	205.216
Fe 271.441	21540.0	21554.8	21515.2
K 766.491	20846.3	20773.7	20670.5
Mg 279.078	20972.1	20989.0	21032.5
Mn 257.610	2145.41	2148.65	2149.55
Mo 202.032	204.553	203.019	205.134
Na 330.237	18630.7	18582.4	18453.6
Ni 231.604	210.499	209.411	212.847
Pb 220.353	214.328	212.568	215.634
Sb 206.834	164.114	172.898	184.202
Se 196.026	204.470	196.871	198.243
Sn 189.925	193.726	193.888	198.742
Sr 216.596	225.514	224.622	224.995
Ti 334.941	206.621	206.400	206.900
Tl 190.794	60.5561	51.1733	50.9542
V 292.401	207.285	207.213	206.905
Zn 206.200	204.987	205.971	205.039

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	206.274	ppb	0.8306	0.4	14663.9
Al 308.215	2028.58	ppb	2.2861	0.1	12140.4
As 188.980	218.098	ppb	12.4209	5.7	133.668
B 249.678	413.601	ppb	3.7181	0.9	3939.01
Ba 389.178	204.174	ppb	0.4071	0.2	5468.96
Be 313.042	210.236	ppb	0.0819	0.0	435713
Ca 370.602	20380	ppb	31.05	0.2	72962
Cd 226.502	210.560	ppb	0.0408	0.0	8372.89
Co 228.615	207.731	ppb	0.8040	0.4	2662.84
Cr 267.716	211.281	ppb	0.3800	0.2	9672.82
Cu 324.754	205.432	ppb	1.1882	0.6	10948.7
Fe 271.441	21536.7	ppb	19.9981	0.1	37680.9
K 766.491	20763.5	ppb	88.3665	0.4	1269895
Mg 279.078	20997.8	ppb	31.1376	0.1	45889.5
Mn 257.610	2147.87	ppb	2.1776	0.1	507593
Mo 202.032	204.236	ppb	1.0926	0.5	1506.54
Na 330.237	18555.6	ppb	91.5281	0.5	979.358
Ni 231.604	210.919	ppb	1.7562	0.8	559.458
Pb 220.353	214.177	ppb	1.5387	0.7	366.633
Sb 206.834	173.738	ppb	10.0707	5.8	174.055
Se 196.026	199.861	ppb	4.0499	2.0	94.5995
Sn 189.925	195.452	ppb	2.8503	1.5	181.000
Sr 216.596	225.044	ppb	0.4481	0.2	2438.39
Ti 334.941	206.640	ppb	0.2509	0.1	61969.9
Tl 190.794	54.2279	ppb	5.4815	10.1	37.2461
V 292.401	207.135	ppb	0.2016	0.1	6181.67
Zn 206.200	205.332	ppb	0.5538	0.3	430.057

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

Icsd 680-269805/5-a (Samp) 3/21/2013, 9:23:53 PM Rack 2, Tube 59

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	204.024	206.139	205.216
Al 308.215	1988.52	1987.46	1988.37
As 188.980	209.837	211.134	217.563
B 249.678	407.848	410.751	409.194
Ba 389.178	199.646	199.583	200.055
Be 313.042	207.253	206.626	207.015
Ca 370.602	20085	20050	20078
Cd 226.502	207.112	207.724	207.339
Co 228.615	203.608	203.076	204.962
Cr 267.716	207.807	206.989	207.909
Cu 324.754	200.456	203.440	201.898
Fe 271.441	21099.0	21030.3	21042.7
K 766.491	20535.1	20406.5	20397.0
Mg 279.078	20637.5	20602.9	20614.5
Mn 257.610	2096.06	2092.78	2094.00
Mo 202.032	201.935	200.776	201.900
Na 330.237	18131.5	18062.6	18068.4
Ni 231.604	209.749	207.933	204.914
Pb 220.353	213.185	210.966	210.879
Sb 206.834	167.418	175.027	178.138
Se 196.026	206.520	198.997	198.502
Sn 189.925	187.741	194.778	190.689
Sr 216.596	221.626	220.882	222.426
Ti 334.941	202.921	202.286	203.175
Tl 190.794	48.0891	48.0048	48.9623
V 292.401	204.508	204.195	204.014
Zn 206.200	201.196	199.977	206.321

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	205.126	ppb	1.0601	0.5	14581.9
Al 308.215	1988.12	ppb	0.5727	0.0	11903.7
As 188.980	212.845	ppb	4.1374	1.9	130.394
B 249.678	409.264	ppb	1.4531	0.4	3898.39
Ba 389.178	199.761	ppb	0.2564	0.1	5350.48
Be 313.042	206.965	ppb	0.3165	0.2	428929
Ca 370.602	20071	ppb	18.43	0.1	71868
Cd 226.502	207.392	ppb	0.3096	0.1	8246.70
Co 228.615	203.882	ppb	0.9723	0.5	2613.73
Cr 267.716	207.568	ppb	0.5041	0.2	9502.87
Cu 324.754	201.931	ppb	1.4923	0.7	10765.0
Fe 271.441	21057.3	ppb	36.6130	0.2	36842.7
K 766.491	20446.2	ppb	77.1549	0.4	1250494
Mg 279.078	20618.3	ppb	17.6176	0.1	45060.8
Mn 257.610	2094.28	ppb	1.6579	0.1	494932
Mo 202.032	201.537	ppb	0.6592	0.3	1486.77
Na 330.237	18087.5	ppb	38.2349	0.2	954.443
Ni 231.604	207.532	ppb	2.4423	1.2	550.450
Pb 220.353	211.676	ppb	1.3069	0.6	362.357
Sb 206.834	173.528	ppb	5.5150	3.2	173.798
Se 196.026	201.340	ppb	4.4930	2.2	95.2825
Sn 189.925	191.069	ppb	3.5342	1.8	176.931
Sr 216.596	221.645	ppb	0.7718	0.3	2401.58
Ti 334.941	202.794	ppb	0.4582	0.2	60814.2
Tl 190.794	48.3521	ppb	0.5302	1.1	32.8785
V 292.401	204.239	ppb	0.2497	0.1	6095.45
Zn 206.200	202.498	ppb	3.3663	1.7	277.207

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88280-a-1-b (Samp) 3/21/2013, 9:29:20 PM Rack 2, Tube 60
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6082u	-0.5024u	-0.1865u
Al 308.215	189.005	193.014	190.881
As 188.980	0.4787	-2.9531u	-0.5613u
B 249.678	3837.50	3867.68	3881.48
Ba 389.178	54.5394	55.2449	55.0968
Be 313.042	0.0554	0.0595	0.0557
Ca 370.602	22363	22337	22393
Cd 226.502	50.9190	51.0862	51.2987
Co 228.615	3.7629	4.0704	3.5187
Cr 267.716	-0.6644u	-0.2048	-0.1871
Cu 324.754	17.8990	18.3059	18.5763
Fe 271.441	19.7969	16.1015	23.0105
K 766.491	13100.6	13080.1	13039.8
Mg 279.078	895.045	899.885	893.337
Mn 257.610	8.5379	8.5437	8.5864
Mo 202.032	1.1243	1.5030	1.0170
Na 330.237	641299x	642597x	648586x
Ni 231.604	83.4488	85.5533	82.6065
Pb 220.353	2.1229	0.2181	-1.2795u
Sb 206.834	5.3866	5.2442	1.1934
Se 196.026	-6.8295u	-0.2369u	4.4887
Sn 189.925	1.2707	-0.9488u	0.7196
Sr 216.596	165.623	165.701	164.656
Ti 334.941	0.6059	0.5654	0.6408
Tl 190.794	-3.0548u	2.3965	-3.5107u
V 292.401	-0.2439u	0.0025u	-0.1971u
Zn 206.200	24.3956	25.5126	24.6417

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4324b	ppb	0.2194	50.7	-92.0800
Al 308.215	190.967b	ppb	2.0058	1.1	1381.80
As 188.980	-1.0119b	ppb	1.7597	173.9	-2.7021
B 249.678	3862.22b	ppb	22.4935	0.6	36599.9
Ba 389.178	54.9604b	ppb	0.3720	0.7	1429.28
Be 313.042	0.0569b	ppb	0.0022	3.9	-228.374
Ca 370.602	22364b	ppb	28.05	0.1	82157
Cd 226.502	51.1013b	ppb	0.1903	0.4	2021.54
Co 228.615	3.7840b	ppb	0.2764	7.3	62.5101
Cr 267.716	-0.3521b	ppb	0.2706	76.9	2.0464
Cu 324.754	18.2604b	ppb	0.3409	1.9	1123.34
Fe 271.441	19.6363b	ppb	3.4573	17.6	41.6680
K 766.491	13073.5b	ppb	30.9342	0.2	799687
Mg 279.078	896.089b	ppb	3.3966	0.4	1988.07
Mn 257.610	8.5560b	ppb	0.0265	0.3	2092.02
Mo 202.032	1.2148b	ppb	0.2553	21.0	18.6349
Na 330.237	644161xb	ppb	3887.12	0.6	34551.3
Ni 231.604	83.8695b	ppb	1.5178	1.8	221.449
Pb 220.353	0.3538b	ppb	1.7053	482.0	1.2848
Sb 206.834	3.9414b	ppb	2.3809	60.4	0.8769
Se 196.026	-0.8592b	ppb	5.6847	661.6	0.2120
Sn 189.925	0.3471b	ppb	1.1557	332.9	0.1222
Sr 216.596	165.326b	ppb	0.5822	0.4	1793.78
Ti 334.941	0.6040b	ppb	0.0378	6.3	9.8517
Tl 190.794	-1.3897b	ppb	3.2869	236.5	-1.7062
V 292.401	-0.1462b	ppb	0.1308	89.5	-6.6584
Zn 206.200	24.8500b	ppb	0.5869	2.4	357445

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

Cont Calib Verif (CCV) 3/21/2013, 9:34:46 PM Rack 3, Tube 1
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	508.864	510.466	509.650
Al 308.215	4999.59	5012.12	5113.75
As 188.980	474.497	476.410	477.798
B 249.678	2542.51	2564.88	2613.87
Ba 389.178	4984.69	4983.57	5039.50
Be 313.042	500.861	502.146	507.518
Ca 370.602	5035	5044	5115
Cd 226.502	503.716	505.121	512.029
Co 228.615	499.425	500.241	505.756
Cr 267.716	5096.46	5100.22	5171.81
Cu 324.754	4949.44	5015.20	4883.14
Fe 271.441	5023.25	5046.06	5079.77
K 766.491	9836.31	9814.37	9865.83
Mg 279.078	4980.38	4992.27	5066.03
Mn 257.610	5011.99	5018.28	5083.26
Mo 202.032	499.516	501.440	512.058
Na 330.237	7695.30	7554.43	7626.59
Ni 231.604	2531.08	2532.68	2572.23
Pb 220.353	519.995	519.431	528.874
Sb 206.834	932.675	934.843	954.441
Se 196.026	4975.17	4950.39	5026.79
Sn 189.925	5077.81	5061.70	5167.72
Sr 216.596	2549.94	2547.25	2590.19
Ti 334.941	499.803	500.047	506.686
Tl 190.794	5188.56	5190.66	5265.77
V 292.401	4993.74	4997.58	5047.64
Zn 206.200	2562.56	2571.06	2590.30

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	509.660	ppb	0.8010	0.2	36254.1	101.93208
Al 308.215	5041.82	ppb	62.6119	1.2	29696.6	100.83638
As 188.980	476.235	ppb	1.6573	0.3	294.630	95.24695
B 249.678	2573.76	ppb	36.4994	1.4	24400.0	102.95022
Ba 389.178	5002.59	ppb	31.9729	0.6	132192	100.05173
Be 313.042	503.508	ppb	3.5312	0.7	1043707	100.70164
Ca 370.602	5064	ppb	43.72	0.9	18446	101.28851
Cd 226.502	506.955	ppb	4.4497	0.9	20026.0	101.39104
Co 228.615	501.807	ppb	3.4440	0.7	6426.00	100.36150
Cr 267.716	5122.83	ppb	42.4615	0.8	234073	102.45663
Cu 324.754	4949.26	ppb	66.0292	1.3	259661	98.98524
Fe 271.441	5049.69	ppb	28.4305	0.6	8960.25	100.99385
K 766.491	9838.83	ppb	25.8222	0.3	601903	98.38833
Mg 279.078	5012.90	ppb	46.4002	0.9	10901.7	100.25792
Mn 257.610	5037.84	ppb	39.4568	0.8	1190121	100.75687
Mo 202.032	504.338	ppb	6.7549	1.3	3699.82	100.86758
Na 330.237	7625.44	ppb	70.4387	0.9	377.532	101.67255
Ni 231.604	2545.33	ppb	23.3125	0.9	6761.42	101.81322
Pb 220.353	522.767	ppb	5.2968	1.0	893.844	104.55337
Sb 206.834	940.653	ppb	11.9900	1.3	995.220	94.06529
Se 196.026	4984.12	ppb	38.9768	0.8	2336.55	99.68234
Sn 189.925	5102.41	ppb	57.1310	1.1	4736.46	102.04814
Sr 216.596	2562.46	ppb	24.0487	0.9	27646.6	102.49839
Ti 334.941	502.179	ppb	3.9055	0.8	150546	100.43578
Tl 190.794	5215.00	ppb	43.9820	0.8	3939.25	104.29996
V 292.401	5012.99	ppb	30.0740	0.6	150402	100.25974
Zn 206.200	2574.64	ppb	14.2145	0.6	3496.01	102.98553

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

Cont Calib Blank (CCB) 3/21/2013, 9:40:12 PM Rack 3, Tube 2
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7209u	-0.3046u	0.1702
Al 308.215	-3.7066u	-4.1584u	-3.1599u
As 188.980	0.6437	3.5409	1.6893
B 249.678	34.3486	30.9226	27.8616
Ba 389.178	-0.7576u	0.0097	0.7093
Be 313.042	0.0634	0.0743	0.0899
Ca 370.602	-3.014u	5.559	6.120
Cd 226.502	0.2833	0.0741	0.0655
Co 228.615	-0.1420u	-0.4671u	-0.4636u
Cr 267.716	0.6843	0.4029	0.9472
Cu 324.754	0.1652	-0.0219u	0.7920
Fe 271.441	-2.1893u	-3.3810u	5.8002
K 766.491	0.3069	0.8666	0.7135
Mg 279.078	-4.4957u	-3.5980u	-4.2297u
Mn 257.610	0.6908	0.6633	0.8382
Mo 202.032	1.3187	0.6994	0.4435
Na 330.237	197.196	163.097	73.7158
Ni 231.604	2.0637	3.1765	2.5164
Pb 220.353	0.1721	0.9120	3.0913
Sb 206.834	7.7867	8.9222	16.3664
Se 196.026	-1.6912u	4.6028	-8.8472u
Sn 189.925	1.1935	-3.1176u	1.0804
Sr 216.596	0.0123	0.4636	0.5007
Ti 334.941	0.2514	0.2561	0.2973
Tl 190.794	2.4824	5.5854	3.1721
V 292.401	0.9263	1.0154	1.1176
Zn 206.200	0.0635	0.8224	2.1534

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.2851	ppb	0.4459	156.4	-74.6514	-0.28510
Al 308.215	-3.6749	ppb	0.5000	13.6	244.651	-3.67494
As 188.980	1.9579	ppb	1.4672	74.9	-1.0360	1.95794
B 249.678	31.0443	ppb	3.2452	10.5	338.449	31.04427
Ba 389.178	-0.0129	ppb	0.7337	5703.7	-25.9771	-0.01286
Be 313.042	0.0758	ppb	0.0133	17.6	-113.768	0.07583
Ca 370.602	2.888	ppb	5.119	177.2	8.100	2.88850
Cd 226.502	0.1410	ppb	0.1233	87.5	14.4906	0.14095
Co 228.615	-0.3576	ppb	0.1867	52.2	9.6779	-0.35758
Cr 267.716	0.6781	ppb	0.2722	40.1	38.5146	0.67812
Cu 324.754	0.3117	ppb	0.4263	136.7	182.105	0.31175
Fe 271.441	0.0766	ppb	4.9924	6514.4	6.9564	0.07664
K 766.491	0.6290	ppb	0.2893	46.0	343.848	0.62902
Mg 279.078	-4.1078	ppb	0.4611	11.2	20.8317	-4.10776
Mn 257.610	0.7308	ppb	0.0941	12.9	242.304	0.73076
Mo 202.032	0.8205	ppb	0.4500	54.8	15.7409	0.82053
Na 330.237	144.670	ppb	63.7692	44.1	1.6105	144.66968
Ni 231.604	2.5855	ppb	0.5596	21.6	5.4848	2.58553
Pb 220.353	1.3918	ppb	1.5176	109.0	3.0625	1.39178
Sb 206.834	11.0251	ppb	4.6604	42.3	8.0579	11.02510Z
Se 196.026	-1.9785	ppb	6.7296	340.1	-0.3140	-1.97849
Sn 189.925	-0.2812	ppb	2.4570	873.6	-0.7294	-0.28123
Sr 216.596	0.3255	ppb	0.2719	83.5	9.3011	0.32554
Ti 334.941	0.2683	ppb	0.0252	9.4	-41.0269	0.26825
Tl 190.794	3.7466	ppb	1.6293	43.5	2.1866	3.74663
V 292.401	1.0198	ppb	0.0957	9.4	34.1403	1.01976
Zn 206.200	1.0131	ppb	1.0579	104.4	3.2718	1.01308

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

mb 680-270164/1-a (Samp) 3/21/2013, 9:45:38 PM Rack 3, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4068	-0.3304u	-0.3124u
Al 308.215	-3.3319u	-2.9806u	-3.6713u
As 188.980	0.0229	-0.2785u	2.4091
B 249.678	10.9109	9.9792	10.3509
Ba 389.178	-0.0852u	0.3916	0.1782
Be 313.042	0.0295	0.0120	0.0181
Ca 370.602	0.5534	-0.3426u	3.008
Cd 226.502	-0.2355u	-0.0142u	0.0774
Co 228.615	-0.3818u	0.4917	0.1061
Cr 267.716	0.1645	0.0945	0.0749
Cu 324.754	0.3124	-0.3403u	-0.0679u
Fe 271.441	11.9120	0.0353	-0.5961u
K 766.491	1.7853	1.5260	1.4832
Mg 279.078	-3.9427u	-5.0555u	-5.1811u
Mn 257.610	0.9793	0.9910	0.9880
Mo 202.032	0.6019	-0.0983u	-0.3434u
Na 330.237	264.282	123.787	229.461
Ni 231.604	0.1910	3.1682	1.2231
Pb 220.353	-0.1573u	0.2400	1.4239
Sb 206.834	4.1671	2.4635	3.4931
Se 196.026	-12.2638u	-6.1770u	2.9096
Sn 189.925	0.3684	1.5295	-2.4969u
Sr 216.596	0.2409	0.6124	0.3126
Ti 334.941	0.0840	0.0524	0.0272
Tl 190.794	2.1590	0.2466	-2.1083u
V 292.401	-0.0169u	-0.0520u	0.4146
Zn 206.200	-0.4547u	0.8919	0.8084

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0787	ppb	0.4205	534.5	-59.9347
Al 308.215	-3.3280	ppb	0.3454	10.4	246.594
As 188.980	0.7179	ppb	1.4724	205.1	-1.8093
B 249.678	10.4137	ppb	0.4690	4.5	143.182
Ba 389.178	0.1615	ppb	0.2388	147.9	-21.3749
Be 313.042	0.0199	ppb	0.0089	44.5	-229.652
Ca 370.602	1.073	ppb	1.735	161.7	1.277
Cd 226.502	-0.0574	ppb	0.1609	280.2	6.6657
Co 228.615	0.0720	ppb	0.4377	608.1	15.1785
Cr 267.716	0.1113	ppb	0.0471	42.3	12.6253
Cu 324.754	-0.0319	ppb	0.3278	1027.2	164.072
Fe 271.441	3.7837	ppb	7.0463	186.2	13.4944
K 766.491	1.5981	ppb	0.1635	10.2	403.105
Mg 279.078	-4.7264	ppb	0.6816	14.4	19.4755
Mn 257.610	0.9861	ppb	0.0061	0.6	302.620
Mo 202.032	0.0534	ppb	0.4906	919.2	10.1146
Na 330.237	205.844	ppb	73.1645	35.5	4.8976
Ni 231.604	1.5274	ppb	1.5117	99.0	2.6735
Pb 220.353	0.5022	ppb	0.8225	163.8	1.5434
Sb 206.834	3.3746	ppb	0.8580	25.4	0.3234
Se 196.026	-5.1771	ppb	7.6359	147.5	-1.8123
Sn 189.925	-0.1997	ppb	2.0724	1038.0	-0.6536
Sr 216.596	0.3886	ppb	0.1971	50.7	10.0089
Ti 334.941	0.0545	ppb	0.0285	52.2	-105.141
Tl 190.794	0.0991	ppb	2.1375	2157.2	-0.5720
V 292.401	0.1153	ppb	0.2598	225.4	7.1189
Zn 206.200	0.4152	ppb	0.7545	181.7	2.4588

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

ics 680-270164/2-a (Samp) 3/21/2013, 9:51:05 PM Rack 3, Tube 4
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	11.7590	10.7626	12.6234
Al 308.215	4929.05	4936.48	4922.35
As 188.980	111.605	110.618	103.879
B 249.678	204.350	207.554	208.107
Ba 389.178	101.627	101.835	101.582
Be 313.042	51.6213	51.7002	51.5981
Ca 370.602	4963	4971	4969
Cd 226.502	52.7371	53.1308	52.5242
Co 228.615	50.7208	51.6016	51.0409
Cr 267.716	104.668	104.874	104.833
Cu 324.754	97.8228	98.6839	99.3148
Fe 271.441	5056.22	5062.04	5065.81
K 766.491	5270.80	5266.67	5230.69
Mg 279.078	5061.76	5087.22	5077.88
Mn 257.610	516.390	517.957	516.573
Mo 202.032	100.134	100.049	100.821
Na 330.237	4931.19	4999.96	4841.94
Ni 231.604	102.443	104.300	103.706
Pb 220.353	57.3822	49.0449	51.8722
Sb 206.834	57.3672	49.5652	51.9624
Se 196.026	83.7739	89.3451	109.087
Sn 189.925	198.800	198.336	201.032
Sr 216.596	105.517	105.466	106.535
Ti 334.941	101.171	100.923	100.917
Tl 190.794	41.7082	38.9393	40.0227
V 292.401	102.241	102.519	102.475
Zn 206.200	106.480	106.812	106.505

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	11.7150	ppb	0.9312	7.9	779.939
Al 308.215	4929.29	ppb	7.0658	0.1	29073.4
As 188.980	108.701	ppb	4.2049	3.9	65.5034
B 249.678	206.670	ppb	2.0286	1.0	1995.95
Ba 389.178	101.681	ppb	0.1351	0.1	2685.36
Be 313.042	51.6399	ppb	0.0535	0.1	106809
Ca 370.602	4968	ppb	4.434	0.1	17811
Cd 226.502	52.7974	ppb	0.3077	0.6	2105.31
Co 228.615	51.1211	ppb	0.4459	0.9	665.673
Cr 267.716	104.792	ppb	0.1090	0.1	4798.27
Cu 324.754	98.6072	ppb	0.7490	0.8	5339.98
Fe 271.441	5061.36	ppb	4.8318	0.1	8861.62
K 766.491	5256.05	ppb	22.0606	0.4	321688
Mg 279.078	5075.62	ppb	12.8801	0.3	11113.7
Mn 257.610	516.973	ppb	0.8566	0.2	122226
Mo 202.032	100.335	ppb	0.4232	0.4	745.343
Na 330.237	4924.36	ppb	79.2294	1.6	254.831
Ni 231.604	103.483	ppb	0.9481	0.9	273.668
Pb 220.353	52.7664	ppb	4.2400	8.0	90.6600
Sb 206.834	52.9650	ppb	3.9965	7.5	50.6557
Se 196.026	94.0686	ppb	13.3010	14.1	44.7667
Sn 189.925	199.390	ppb	1.4414	0.7	184.643
Sr 216.596	105.839	ppb	0.6033	0.6	1147.10
Ti 334.941	101.004	ppb	0.1453	0.1	30202.7
Tl 190.794	40.2234	ppb	1.3953	3.5	29.0299
V 292.401	102.412	ppb	0.1499	0.1	3058.25
Zn 206.200	106.599	ppb	0.1851	0.2	416.836

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

lcsd 680-270164/3-a (Samp) 3/21/2013, 9:56:31 PM Rack 3, Tube 5
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	12.6518	11.2766	12.9854
Al 308.215	4992.65	5023.33	5038.33
As 188.980	115.987	111.490	112.602
B 249.678	207.622	209.716	212.419
Ba 389.178	103.621	102.950	103.399
Be 313.042	52.2652	52.3730	52.5537
Ca 370.602	5040	5040	5054
Cd 226.502	53.5901	53.6285	54.0870
Co 228.615	51.9928	51.9428	52.9630
Cr 267.716	105.954	106.074	106.650
Cu 324.754	100.453	100.543	101.410
Fe 271.441	5138.36	5155.68	5170.07
K 766.491	5352.01	5361.04	5358.90
Mg 279.078	5135.70	5163.06	5184.95
Mn 257.610	524.265	526.157	528.313
Mo 202.032	101.570	101.365	102.799
Na 330.237	5170.26	4956.45	5074.44
Ni 231.604	103.222	102.254	105.603
Pb 220.353	55.9205	54.2447	54.2965
Sb 206.834	58.8588	56.5430	57.1118
Se 196.026	101.324	103.445	98.7434
Sn 189.925	201.671	202.666	201.879
Sr 216.596	107.685	107.447	107.873
Ti 334.941	102.218	102.302	102.707
Tl 190.794	45.5539	38.8810	43.3239
V 292.401	104.326	104.442	105.081
Zn 206.200	106.579	106.793	108.224

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	12.3046	ppb	0.9057	7.4	821.963
Al 308.215	5018.10	ppb	23.2818	0.5	29592.4
As 188.980	113.359	ppb	2.3421	2.1	68.4084
B 249.678	209.919	ppb	2.4045	1.1	2026.62
Ba 389.178	103.323	ppb	0.3416	0.3	2729.16
Be 313.042	52.3973	ppb	0.1458	0.3	108379
Ca 370.602	5045	ppb	8.377	0.2	18087
Cd 226.502	53.7685	ppb	0.2764	0.5	2143.86
Co 228.615	52.2995	ppb	0.5751	1.1	680.702
Cr 267.716	106.226	ppb	0.3721	0.4	4863.84
Cu 324.754	100.802	ppb	0.5286	0.5	5455.13
Fe 271.441	5154.70	ppb	15.8770	0.3	9024.99
K 766.491	5357.32	ppb	4.7169	0.1	327880
Mg 279.078	5161.24	ppb	24.6766	0.5	11300.7
Mn 257.610	526.245	ppb	2.0251	0.4	124417
Mo 202.032	101.912	ppb	0.7754	0.8	756.901
Na 330.237	5067.05	ppb	107.096	2.1	262.438
Ni 231.604	103.693	ppb	1.7234	1.7	274.228
Pb 220.353	54.8205	ppb	0.9530	1.7	94.1668
Sb 206.834	57.5045	ppb	1.2068	2.1	55.2524
Se 196.026	101.171	ppb	2.3547	2.3	48.0954
Sn 189.925	202.072	ppb	0.5250	0.3	187.133
Sr 216.596	107.668	ppb	0.2137	0.2	1166.86
Ti 334.941	102.409	ppb	0.2615	0.3	30624.8
Tl 190.794	42.5863	ppb	3.3971	8.0	30.8041
V 292.401	104.617	ppb	0.4065	0.4	3124.19
Zn 206.200	107.199	ppb	0.8944	0.8	417.649

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

ics 680-270164/4-a (Samp) 3/21/2013, 10:01:57 PM Rack 3, Tube 6
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	213.201	211.273	213.473
Al 308.215	1970.79	1972.35	1978.69
As 188.980	216.139	225.306	219.773
B 249.678	402.936	406.193	408.797
Ba 389.178	197.716	196.865	199.156
Be 313.042	205.010	204.286	205.281
Ca 370.602	19780	19707	19794
Cd 226.502	203.364	203.723	204.395
Co 228.615	201.192	199.431	200.218
Cr 267.716	204.935	204.558	205.647
Cu 324.754	197.311	197.210	200.080
Fe 271.441	20937.2	20936.4	20957.8
K 766.491	20400.0	20310.4	20286.6
Mg 279.078	20356.4	20308.6	20410.4
Mn 257.610	2061.28	2055.07	2064.22
Mo 202.032	198.816	198.695	200.086
Na 330.237	18352.5	18029.4	18028.0
Ni 231.604	201.597	203.616	203.607
Pb 220.353	209.505	203.189	206.824
Sb 206.834	201.436	199.227	198.618
Se 196.026	190.435	200.868	197.044
Sn 189.925	193.842	193.424	194.395
Sr 216.596	219.059	217.097	218.441
Ti 334.941	200.857	199.869	200.920
Tl 190.794	55.9683	45.5507	45.4959
V 292.401	202.061	201.605	201.860
Zn 206.200	194.610	195.540	196.224

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	212.649	ppb	1.1995	0.6	15118.6
Al 308.215	1973.94	ppb	4.1849	0.2	11820.7
As 188.980	220.406	ppb	4.6162	2.1	135.109
B 249.678	405.975	ppb	2.9362	0.7	3867.39
Ba 389.178	197.912	ppb	1.1582	0.6	5300.67
Be 313.042	204.859	ppb	0.5144	0.3	424563
Ca 370.602	19760	ppb	47.06	0.2	70737
Cd 226.502	203.827	ppb	0.5232	0.3	8105.71
Co 228.615	200.280	ppb	0.8824	0.4	2567.76
Cr 267.716	205.047	ppb	0.5534	0.3	9387.53
Cu 324.754	198.200	ppb	1.6284	0.8	10569.3
Fe 271.441	20943.8	ppb	12.1211	0.1	36643.7
K 766.491	20332.3	ppb	59.7896	0.3	1243530
Mg 279.078	20358.5	ppb	50.8986	0.3	44493.5
Mn 257.610	2060.19	ppb	4.6710	0.2	486878
Mo 202.032	199.199	ppb	0.7704	0.4	1469.63
Na 330.237	18136.7	ppb	186.956	1.0	957.190
Ni 231.604	202.940	ppb	1.1629	0.6	538.248
Pb 220.353	206.506	ppb	3.1697	1.5	353.518
Sb 206.834	199.760	ppb	1.4828	0.7	200.315
Se 196.026	196.116	ppb	5.2780	2.7	92.8279
Sn 189.925	193.887	ppb	0.4872	0.3	179.547
Sr 216.596	218.199	ppb	1.0034	0.5	2364.37
Ti 334.941	200.549	ppb	0.5894	0.3	60139.5
Tl 190.794	49.0050	ppb	6.0305	12.3	33.4135
V 292.401	201.842	ppb	0.2289	0.1	6023.71
Zn 206.200	195.458	ppb	0.8100	0.4	267.623

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

lcsd 680-270164/5-a (Samp) 3/21/2013, 10:07:24 PM Rack 3, Tube 7
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	213.166	214.282	215.256
Al 308.215	2002.95	2007.78	2002.05
As 188.980	214.703	225.073	218.418
B 249.678	409.012	411.364	413.925
Ba 389.178	199.629	200.867	200.331
Be 313.042	206.874	206.327	206.402
Ca 370.602	19938	19932	19909
Cd 226.502	205.371	205.216	205.263
Co 228.615	200.314	199.316	200.861
Cr 267.716	207.252	206.669	207.023
Cu 324.754	201.460	198.904	200.094
Fe 271.441	21113.8	21128.1	21105.0
K 766.491	20530.2	20486.1	20406.4
Mg 279.078	20550.7	20514.1	20548.8
Mn 257.610	2075.68	2071.25	2075.26
Mo 202.032	201.014	198.913	200.361
Na 330.237	18129.2	18180.0	18200.1
Ni 231.604	207.868	205.668	203.252
Pb 220.353	208.335	207.316	209.673
Sb 206.834	203.346	205.834	200.344
Se 196.026	201.380	194.481	196.147
Sn 189.925	198.785	204.795	196.939
Sr 216.596	220.019	219.114	219.446
Ti 334.941	202.888	202.245	202.029
Tl 190.794	48.9561	51.1754	49.0191
V 292.401	203.445	203.467	202.650
Zn 206.200	197.208	201.028	197.866

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	214.235	ppb	1.0456	0.5	15231.7
Al 308.215	2004.26	ppb	3.0780	0.2	11997.8
As 188.980	219.398	ppb	5.2539	2.4	134.480
B 249.678	411.434	ppb	2.4569	0.6	3918.88
Ba 389.178	200.275	ppb	0.6210	0.3	5363.92
Be 313.042	206.534	ppb	0.2962	0.1	428037
Ca 370.602	19927	ppb	15.22	0.1	71333
Cd 226.502	205.283	ppb	0.0793	0.0	8163.61
Co 228.615	200.164	ppb	0.7833	0.4	2566.32
Cr 267.716	206.981	ppb	0.2936	0.1	9476.01
Cu 324.754	200.153	ppb	1.2792	0.6	10671.7
Fe 271.441	21115.6	ppb	11.6886	0.1	36944.2
K 766.491	20474.3	ppb	62.7425	0.3	1252209
Mg 279.078	20537.9	ppb	20.6095	0.1	44885.4
Mn 257.610	2074.06	ppb	2.4474	0.1	490157
Mo 202.032	200.096	ppb	1.0753	0.5	1476.20
Na 330.237	18169.8	ppb	36.5272	0.2	958.868
Ni 231.604	205.596	ppb	2.3091	1.1	545.308
Pb 220.353	208.441	ppb	1.1825	0.6	356.826
Sb 206.834	203.175	ppb	2.7491	1.4	203.798
Se 196.026	197.336	ppb	3.5998	1.8	93.4017
Sn 189.925	200.173	ppb	4.1079	2.1	185.383
Sr 216.596	219.526	ppb	0.4577	0.2	2378.76
Ti 334.941	202.387	ppb	0.4468	0.2	60692.0
Tl 190.794	49.7169	ppb	1.2635	2.5	33.9307
V 292.401	203.187	ppb	0.4654	0.2	6064.08
Zn 206.200	198.701	ppb	2.0421	1.0	476.036

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660-53222-g-1-b (Samp) 3/21/2013, 10:12:50 PM Rack 3, Tube 8

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7195u	-0.7475u	0.0757u
Al 308.215	204.222	205.421	208.836
As 188.980	19.6700	14.4520	20.3669
B 249.678	4497.01	4522.06	4556.21
Ba 389.178	218.877	218.505	218.455
Be 313.042	0.0570	0.0538	0.0552
Ca 370.602	171116	170082	170801
Cd 226.502	-0.0600	-0.0875	-0.0652
Co 228.615	12.7875	13.0920	13.2183
Cr 267.716	14.4680	14.2413	14.4258
Cu 324.754	7.2602	7.6956	7.4458
Fe 271.441	21406.8	21399.4	21465.6
K 766.491	273726x	273719x	272778x
Mg 279.078	80762.1	80614.7	80891.3
Mn 257.610	329.536	328.784	330.261
Mo 202.032	0.5136	0.9321	0.8569
Na 330.237	1138338x	1151791x	1140260x
Ni 231.604	36.6275	39.4353	38.9342
Pb 220.353	2.4698	2.6014	4.7593
Sb 206.834	10.7880	10.7056	5.8449
Se 196.026	13.8666	20.9380	13.4620
Sn 189.925	4.9039	7.6784	2.5226
Sr 216.596	643.200	638.376	642.057
Ti 334.941	4.6467	4.6446	4.6496
Tl 190.794	-6.2023u	3.0505	-2.5067u
V 292.401	2.3251	2.4807	1.6558
Zn 206.200	37.6474	36.3999	36.0801

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4638b	ppb	0.4674	100.8	-114.382
Al 308.215	206.160b	ppb	2.3944	1.2	1470.45
As 188.980	18.1630b	ppb	3.2326	17.8	10.2740
B 249.678	4525.10b	ppb	29.7182	0.7	42854.2
Ba 389.178	218.612b	ppb	0.2306	0.1	6029.38
Be 313.042	0.0553b	ppb	0.0016	2.8	-258.892
Ca 370.602	170666b	ppb	529.9	0.3	624986
Cd 226.502	-0.0709b	ppb	0.0146	20.6	55.3506
Co 228.615	13.0326b	ppb	0.2215	1.7	180.129
Cr 267.716	14.3784b	ppb	0.1206	0.8	690.288
Cu 324.754	7.4672b	ppb	0.2185	2.9	563.956
Fe 271.441	21423.9b	ppb	36.2716	0.2	37450.6
K 766.491	273408xb	ppb	545.588	0.2	16717896
Mg 279.078	80756.0b	ppb	138.394	0.2	176525
Mn 257.610	329.527b	ppb	0.7386	0.2	78373.7
Mo 202.032	0.7675b	ppb	0.2231	29.1	14.2668
Na 330.237	1143463xb	ppb	7275.89	0.6	61330.9
Ni 231.604	38.3323b	ppb	1.4976	3.9	100.909
Pb 220.353	3.2768b	ppb	1.2855	39.2	6.3454
Sb 206.834	9.1128b	ppb	2.8304	31.1	6.7471
Se 196.026	16.0889b	ppb	4.2043	26.1	8.0884
Sn 189.925	5.0350b	ppb	2.5804	51.2	4.7414
Sr 216.596	641.211b	ppb	2.5209	0.4	6962.42
Ti 334.941	4.6470b	ppb	0.0025	0.1	1574.94
Tl 190.794	-1.8862b	ppb	4.6575	246.9	-3.2630
V 292.401	2.1539b	ppb	0.4383	20.4	58.4776
Zn 206.200	36.7091b	ppb	0.8282	2.3	51.8612

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

660-53222-g-1-bSD^5 (Samp) 3/21/2013, 10:18:16 PM Rack 3, Tube 9

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1284	-0.3227u	-0.2596u
Al 308.215	39.1638	41.1249	41.8535
As 188.980	2.6720	3.5275	0.1769
B 249.678	935.274	938.418	942.617
Ba 389.178	43.3623	44.1095	43.8909
Be 313.042	0.0081u	0.0134	0.0147
Ca 370.602	35591	35528	35450
Cd 226.502	0.0632	0.3310	0.0782
Co 228.615	2.1354	2.3337	2.7727
Cr 267.716	2.6918	2.9393	2.8305
Cu 324.754	1.3186	0.9986	1.4680
Fe 271.441	4484.43	4477.54	4497.42
K 766.491	64756.1x	64395.8x	64244.8x
Mg 279.078	16613.3	16618.4	16637.6
Mn 257.610	68.6057	68.5210	68.6444
Mo 202.032	0.2645	0.5544	0.0579
Na 330.237	221410x	224338x	222109x
Ni 231.604	7.7238	9.2093	12.5518
Pb 220.353	2.9830	0.6032	0.3392
Sb 206.834	10.1248	4.0943	6.6779
Se 196.026	9.1339	12.0163	8.1688
Sn 189.925	-0.9120u	-2.2315u	1.7875
Sr 216.596	134.025	134.811	132.475
Ti 334.941	1.0935	1.0468	0.9379
Tl 190.794	-2.6962u	0.6731	2.8418
V 292.401	0.0080u	0.1870	0.7214
Zn 206.200	6.3244	6.8419	6.9275

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1513b	ppb	0.2443	161.4	-70.6959
Al 308.215	40.7141b	ppb	1.3911	3.4	503.915
As 188.980	2.1254b	ppb	1.7409	81.9	-0.6810
B 249.678	938.770b	ppb	3.6839	0.4	8925.81
Ba 389.178	43.7876b	ppb	0.3841	0.9	1188.84
Be 313.042	0.0121b	ppb	0.0035	29.0	-265.688
Ca 370.602	35523b	ppb	70.23	0.2	130082
Cd 226.502	0.1575b	ppb	0.1505	95.5	25.5359
Co 228.615	2.4140b	ppb	0.3261	13.5	44.9722
Cr 267.716	2.8205b	ppb	0.1241	4.4	141.514
Cu 324.754	1.2617b	ppb	0.2398	19.0	233.304
Fe 271.441	4486.46b	ppb	10.0941	0.2	7848.02
K 766.491	64465.6xb	ppb	262.718	0.4	3942068
Mg 279.078	16623.1b	ppb	12.8372	0.1	36360.2
Mn 257.610	68.5904b	ppb	0.0631	0.1	16367.7
Mo 202.032	0.2923b	ppb	0.2494	85.3	11.6404
Na 330.237	222619xb	ppb	1529.41	0.7	11935.4
Ni 231.604	9.8283b	ppb	2.4728	25.2	24.8219
Pb 220.353	1.3085b	ppb	1.4562	111.3	2.9337
Sb 206.834	6.9657b	ppb	3.0256	43.4	4.0812
Se 196.026	9.7730b	ppb	2.0018	20.5	5.1779
Sn 189.925	-0.4520b	ppb	2.0486	453.3	-0.7827
Sr 216.596	133.770b	ppb	1.1884	0.9	1457.11
Ti 334.941	1.0261b	ppb	0.0799	7.8	249.681
Tl 190.794	0.2729b	ppb	2.7906	1022.6	-0.6885
V 292.401	0.3055b	ppb	0.3711	121.5	10.8830
Zn 206.200	6.6979b	ppb	0.3263	3514.8	41.0099

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660-53222-g-1-bPDS (Samp) 3/21/2013, 10:23:43 PM Rack 3, Tube 10**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	55.6833	55.4898	55.6625
Al 308.215	2324.06	2317.48	2315.47
As 188.980	2459.57	2463.14	2472.57
B 249.678	5514.16	5555.54	5581.63
Ba 389.178	2306.16	2296.07	2292.14
Be 313.042	53.3571	53.2033	53.1245
Ca 370.602	172864	170968	171326
Cd 226.502	53.6346	53.3686	53.3541
Co 228.615	536.274	535.923	527.586
Cr 267.716	227.873	226.091	226.741
Cu 324.754	274.651	273.993	273.272
Fe 271.441	21956.6	21960.5	21945.2
K 766.491	272970x	271981x	270843x
Mg 279.078	84404.4	84108.6	84196.0
Mn 257.610	846.576	845.689	845.017
Mo 202.032	531.474	529.982	527.680
Na 330.237	1129383x	1131074x	1125124x
Ni 231.604	558.480	555.821	562.715
Pb 220.353	535.854	536.130	529.084
Sb 206.834	557.321	556.279	562.929
Se 196.026	2256.68	2279.86	2240.12
Sn 189.925	1066.88	1065.07	1064.96
Sr 216.596	1165.82	1158.22	1161.24
Ti 334.941	1043.83	1038.75	1038.86
Tl 190.794	2050.53	2064.57	2080.84
V 292.401	528.858	527.681	525.433
Zn 206.200	573.851	578.217	575.667

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	55.6119b	ppb	0.1063	0.2	3870.16
Al 308.215	2319.01b	ppb	4.4909	0.2	13875.5
As 188.980	2465.09b	ppb	6.7142	0.3	1536.31
B 249.678	5550.44b	ppb	34.0257	0.6	52558.4
Ba 389.178	2298.12b	ppb	7.2309	0.3	60990.4
Be 313.042	53.2283b	ppb	0.1183	0.2	109909
Ca 370.602	171719b	ppb	1007	0.6	629042
Cd 226.502	53.4524b	ppb	0.1579	0.3	2168.93
Co 228.615	533.261b	ppb	4.9178	0.9	6827.54
Cr 267.716	226.901b	ppb	0.9016	0.4	10400.4
Cu 324.754	273.972b	ppb	0.6895	0.3	14549.2
Fe 271.441	21954.1b	ppb	7.9865	0.0	38465.4
K 766.491	271932xb	ppb	1064.20	0.4	16627631
Mg 279.078	84236.3b	ppb	151.992	0.2	184122
Mn 257.610	845.760b	ppb	0.7817	0.1	200335
Mo 202.032	529.712b	ppb	1.9110	0.4	3893.65
Na 330.237	1128527xb	ppb	3065.69	0.3	60517.0
Ni 231.604	559.005b	ppb	3.4770	0.6	1484.30
Pb 220.353	533.689b	ppb	3.9905	0.7	911.287
Sb 206.834	558.843b	ppb	3.5766	0.6	558.166
Se 196.026	2258.89b	ppb	19.9607	0.9	1058.83
Sn 189.925	1065.64b	ppb	1.0806	0.1	989.367
Sr 216.596	1161.76b	ppb	3.8274	0.3	12561.6
Ti 334.941	1040.48b	ppb	2.8986	0.3	312320
Tl 190.794	2065.31b	ppb	15.1691	0.7	1559.66
V 292.401	527.324b	ppb	1.7401	0.3	15749.3
Zn 206.200	575.912b	ppb	2.1932	0.4	785.826

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

mb 680-270184/1-a (Samp) 3/21/2013, 10:29:09 PM Rack 3, Tube 11

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5822	-0.2313u	0.0983
Al 308.215	-2.5111u	-0.6487u	0.0758
As 188.980	2.3316	4.3193	5.9308
B 249.678	48.5837	44.2000	39.2768
Ba 389.178	-0.6131u	-0.7632u	0.0774
Be 313.042	-0.0025u	-0.0009u	0.0052
Ca 370.602	19.59	21.40	17.27
Cd 226.502	-0.0167u	-0.1186u	0.0919
Co 228.615	-0.0854u	0.9267	0.0331
Cr 267.716	-0.1933u	-0.2022u	-0.1118u
Cu 324.754	-0.8110u	-0.2865u	-0.4704u
Fe 271.441	7.6620	1.0146	2.8345
K 766.491	30.1701	28.8064	27.3838
Mg 279.078	3.2582	0.0966	6.8656
Mn 257.610	0.3549	0.3639	0.3277
Mo 202.032	1.4205	0.8253	0.1043
Na 330.237	-51.7139u	319.181	219.857
Ni 231.604	0.8547	-0.6411u	0.1968
Pb 220.353	0.8824	-0.1485u	3.5473
Sb 206.834	1.9249	7.8667	6.3770
Se 196.026	-0.9658u	0.3134	1.7882
Sn 189.925	6.5642	-0.1072u	1.5890
Sr 216.596	-0.4516u	0.4068	0.0754
Ti 334.941	0.8861	0.6997	0.6891
Tl 190.794	4.7859	2.8086	-1.7904u
V 292.401	0.1925	-0.0086u	-0.0089u
Zn 206.200	0.3418	-0.0014u	-0.5050u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1497	ppb	0.4092	273.3	-43.6188
Al 308.215	-1.0280	ppb	1.3345	129.8	260.123
As 188.980	4.1939	ppb	1.8029	43.0	0.3586
B 249.678	44.0202	ppb	4.6561	10.6	461.258
Ba 389.178	-0.4330	ppb	0.4483	103.5	-37.0501
Be 313.042	0.0006	ppb	0.0041	683.1	-269.749
Ca 370.602	19.42	ppb	2.068	10.6	68.42
Cd 226.502	-0.0145	ppb	0.1053	727.3	8.3716
Co 228.615	0.2915	ppb	0.5533	189.8	17.9711
Cr 267.716	-0.1691	ppb	0.0498	29.4	-0.1910
Cu 324.754	-0.5226	ppb	0.2661	50.9	138.362
Fe 271.441	3.8371	ppb	3.4352	89.5	13.5893
K 766.491	28.7868	ppb	1.3933	4.8	2065.56
Mg 279.078	3.4068	ppb	3.3870	99.4	37.2619
Mn 257.610	0.3488	ppb	0.0189	5.4	152.140
Mo 202.032	0.7834	ppb	0.6591	84.1	15.4699
Na 330.237	162.442	ppb	191.998	118.2	2.5663
Ni 231.604	0.1368	ppb	0.7497	547.9	-1.0210
Pb 220.353	1.4271	ppb	1.9072	133.6	3.1223
Sb 206.834	5.3895	ppb	3.0915	57.4	2.3505
Se 196.026	0.3786	ppb	1.3782	364.0	0.7900
Sn 189.925	2.6820	ppb	3.4674	129.3	2.0216
Sr 216.596	0.0102	ppb	0.4329	4249.3	5.9276
Ti 334.941	0.7583	ppb	0.1108	14.6	106.009
Tl 190.794	1.9347	ppb	3.3741	174.4	0.8165
V 292.401	0.0583	ppb	0.1162	199.2	5.2876
Zn 206.200	-0.0549	ppb	0.4259	376.5	430.8191

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

Ics 680-270184/2-a (Samp) 3/21/2013, 10:34:35 PM Rack 3, Tube 12

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	11.6135	11.1859	11.5133
Al 308.215	4901.59	4912.58	4845.33
As 188.980	100.436	110.964	101.176
B 249.678	212.184	214.071	215.117
Ba 389.178	100.719	100.913	99.1838
Be 313.042	51.5535	51.4390	51.3548
Ca 370.602	4915	4894	4885
Cd 226.502	51.7437	51.7936	51.7626
Co 228.615	50.7781	50.7950	50.7788
Cr 267.716	103.089	102.579	102.123
Cu 324.754	99.2491	97.2549	98.1389
Fe 271.441	4985.40	4994.04	4967.31
K 766.491	5136.13	5134.80	5096.35
Mg 279.078	4997.59	4996.67	4974.42
Mn 257.610	510.802	510.443	509.695
Mo 202.032	99.6355	98.0801	101.175
Na 330.237	4950.12	5259.76	4878.72
Ni 231.604	102.631	100.351	100.511
Pb 220.353	56.2383	55.3598	52.3962
Sb 206.834	57.8330	54.2107	52.4584
Se 196.026	90.4298	97.6872	95.0158
Sn 189.925	198.411	198.017	201.289
Sr 216.596	103.807	103.187	102.780
Ti 334.941	99.5987	99.2652	99.2155
Tl 190.794	36.3436	45.4165	49.2582
V 292.401	101.733	100.910	101.059
Zn 206.200	100.440	102.673	100.869

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	11.4376	ppb	0.2236	2.0	760.156
Al 308.215	4886.50	ppb	36.0738	0.7	28823.3
As 188.980	104.192	ppb	5.8762	5.6	62.6917
B 249.678	213.791	ppb	1.4864	0.7	2063.42
Ba 389.178	100.272	ppb	0.9474	0.9	2647.74
Be 313.042	51.4491	ppb	0.0997	0.2	106413
Ca 370.602	4898	ppb	15.25	0.3	17562
Cd 226.502	51.7666	ppb	0.0252	0.0	2064.43
Co 228.615	50.7840	ppb	0.0096	0.0	661.366
Cr 267.716	102.597	ppb	0.4832	0.5	4697.96
Cu 324.754	98.2143	ppb	0.9992	1.0	5319.34
Fe 271.441	4982.25	ppb	13.6397	0.3	8723.35
K 766.491	5122.43	ppb	22.5932	0.4	313518
Mg 279.078	4989.56	ppb	13.1171	0.3	10925.7
Mn 257.610	510.313	ppb	0.5647	0.1	120652
Mo 202.032	99.6302	ppb	1.5474	1.6	740.180
Na 330.237	5029.53	ppb	202.557	4.0	260.547
Ni 231.604	101.164	ppb	1.2727	1.3	267.505
Pb 220.353	54.6648	ppb	2.0132	3.7	93.9050
Sb 206.834	54.8340	ppb	2.7410	5.0	52.5342
Se 196.026	94.3776	ppb	3.6706	3.9	44.9104
Sn 189.925	199.239	ppb	1.7863	0.9	184.503
Sr 216.596	103.258	ppb	0.5169	0.5	1119.23
Ti 334.941	99.3598	ppb	0.2084	0.2	29709.2
Tl 190.794	43.6728	ppb	6.6315	15.2	31.6490
V 292.401	101.234	ppb	0.4383	0.4	3023.14
Zn 206.200	101.327	ppb	1.1849	1.2	139.661

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

Cont Calib Verif (CCV) 3/21/2013, 10:40:02 PM Rack 3, Tube 13
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	515.622	512.021	510.727
Al 308.215	5056.48	5023.62	5027.15
As 188.980	470.280	470.009	487.489
B 249.678	2522.84	2560.39	2566.79
Ba 389.178	4998.21	5007.67	5001.26
Be 313.042	504.899	506.473	505.704
Ca 370.602	5068	5061	5065
Cd 226.502	506.339	508.577	508.206
Co 228.615	502.169	503.251	502.462
Cr 267.716	5104.37	5110.24	5111.63
Cu 324.754	4947.01	4944.51	4924.00
Fe 271.441	5037.78	5064.77	5047.19
K 766.491	9870.76	9952.66	9859.42
Mg 279.078	5008.63	5013.35	5022.17
Mn 257.610	5023.53	5059.69	5049.99
Mo 202.032	502.938	502.771	503.921
Na 330.237	7609.91	7692.16	7354.44
Ni 231.604	2532.64	2547.59	2543.91
Pb 220.353	523.617	523.885	523.829
Sb 206.834	926.884	934.367	936.121
Se 196.026	4999.16	5039.80	4996.53
Sn 189.925	5145.75	5156.15	5120.59
Sr 216.596	2559.47	2559.70	2563.48
Ti 334.941	501.471	500.848	501.008
Tl 190.794	5207.15	5227.67	5217.29
V 292.401	5014.80	5033.71	5020.41
Zn 206.200	2556.10	2576.19	2574.70

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	512.790	ppb	2.5368	0.5	36477.3	102.55800
Al 308.215	5035.75	ppb	18.0416	0.4	29661.0	100.71499
As 188.980	475.926	ppb	10.0145	2.1	294.438	95.18519
B 249.678	2550.00	ppb	23.7435	0.9	24175.2	102.00011
Ba 389.178	5002.38	ppb	4.8308	0.1	132187	100.04758
Be 313.042	505.692	ppb	0.7874	0.2	1048236	101.13838
Ca 370.602	5065	ppb	3.407	0.1	18448	101.29224
Cd 226.502	507.707	ppb	1.1996	0.2	20055.7	101.54146
Co 228.615	502.627	ppb	0.5593	0.1	6436.47	100.52547
Cr 267.716	5108.74	ppb	3.8553	0.1	233430	102.17490
Cu 324.754	4938.51	ppb	12.6230	0.3	259097	98.77012
Fe 271.441	5049.91	ppb	13.6986	0.3	8960.69	100.99826
K 766.491	9894.28	ppb	50.8724	0.5	605294	98.94280
Mg 279.078	5014.72	ppb	6.8715	0.1	10905.6	100.29436
Mn 257.610	5044.40	ppb	18.7194	0.4	1191670	100.88807
Mo 202.032	503.210	ppb	0.6213	0.1	3691.53	100.64197
Na 330.237	7552.17	ppb	176.109	2.3	373.641	100.69563
Ni 231.604	2541.38	ppb	7.7927	0.3	6750.93	101.65517
Pb 220.353	523.777	ppb	0.1413	0.0	895.572	104.75537
Sb 206.834	932.457	ppb	4.9060	0.5	986.878	93.24572
Se 196.026	5011.83	ppb	24.2579	0.5	2349.53	100.23655
Sn 189.925	5140.83	ppb	18.2853	0.4	4772.13	102.81660
Sr 216.596	2560.88	ppb	2.2485	0.1	27629.7	102.43530
Ti 334.941	501.109	ppb	0.3239	0.1	150225	100.22180
Tl 190.794	5217.37	ppb	10.2612	0.2	3941.04	104.34734
V 292.401	5022.97	ppb	9.7140	0.2	150703	100.45940
Zn 206.200	2569.00	ppb	11.1949	0.4	2488.34	102.75986

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

Cont Calib Blank (CCB) 3/21/2013, 10:45:28 PM Rack 3, Tube 14

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1231u	0.3230	-0.0815u
Al 308.215	-2.2480u	-1.5987u	-4.6362u
As 188.980	5.3194	5.0255	3.5630
B 249.678	30.8904	27.1814	25.1178
Ba 389.178	0.8490	0.8978	0.5746
Be 313.042	0.0543	0.0506	0.0480
Ca 370.602	1.297	4.350	-0.6855u
Cd 226.502	-0.1091u	0.1288	0.1603
Co 228.615	0.8774	-0.3188u	-0.3640u
Cr 267.716	0.4684	0.5853	0.5543
Cu 324.754	-0.1833u	-0.4117u	-0.2648u
Fe 271.441	-2.6248u	-4.1145u	1.6049
K 766.491	1.9708	2.4405	1.8896
Mg 279.078	-2.7064u	-0.5055u	2.3134
Mn 257.610	0.5305	0.5161	0.5012
Mo 202.032	0.8028	1.0672	0.0115
Na 330.237	13.8028	132.578	108.304
Ni 231.604	1.9773	2.4973	0.7032
Pb 220.353	-2.5474u	-1.8838u	0.2978
Sb 206.834	5.7608	3.0949	5.5516
Se 196.026	-3.2306u	5.2049	-4.3611u
Sn 189.925	0.9099	2.3448	-0.7095u
Sr 216.596	1.1733	0.5252	0.0248
Ti 334.941	0.2184	0.2655	0.2064
Tl 190.794	0.9087	0.0080	6.4631
V 292.401	0.6255	0.2955	0.6720
Zn 206.200	0.7627	-0.9851u	-0.1192u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0395	ppb	0.2464	624.2	-51.5081	0.03947
Al 308.215	-2.8276	ppb	1.5995	56.6	249.593	-2.82763
As 188.980	4.6360	ppb	0.9407	20.3	0.6344	4.63597
B 249.678	27.7299	ppb	2.9252	10.5	307.081	27.72986
Ba 389.178	0.7738	ppb	0.1742	22.5	-5.1870	0.77382
Be 313.042	0.0509	ppb	0.0031	6.2	-165.336	0.05095
Ca 370.602	1.654	ppb	2.537	153.4	3.819	1.65402
Cd 226.502	0.0600	ppb	0.1473	245.5	11.2894	0.06000
Co 228.615	0.0649	ppb	0.7040	1085.3	15.0722	0.06487
Cr 267.716	0.5360	ppb	0.0605	11.3	32.0247	0.53603
Cu 324.754	-0.2866	ppb	0.1157	40.4	150.728	-0.28662
Fe 271.441	-1.7115	ppb	2.9670	173.4	3.8135	-1.71148
K 766.491	2.1003	ppb	0.2974	14.2	433.810	2.10031
Mg 279.078	-0.2995	ppb	2.5163	840.1	29.1577	-0.29951
Mn 257.610	0.5159	ppb	0.0147	2.8	191.569	0.51593
Mo 202.032	0.6272	ppb	0.5493	87.6	14.3234	0.62716
Na 330.237	84.8949	ppb	62.7525	73.9	-1.5865	84.89494
Ni 231.604	1.7259	ppb	0.9231	53.5	3.2008	1.72591
Pb 220.353	-1.3778	ppb	1.4886	108.0	-1.6699	-1.37779
Sb 206.834	4.8024	ppb	1.4825	30.9	1.7636	4.80244
Se 196.026	-0.7956	ppb	5.2272	657.0	0.2401	-0.79560
Sn 189.925	0.8484	ppb	1.5281	180.1	0.3193	0.84838
Sr 216.596	0.5744	ppb	0.5758	100.2	11.9959	0.57443
Ti 334.941	0.2301	ppb	0.0313	13.6	-52.4541	0.23009
Tl 190.794	2.4599	ppb	3.4960	142.1	1.2138	2.45994
V 292.401	0.5310	ppb	0.2053	38.7	19.4695	0.53098
Zn 206.200	-0.1139	ppb	0.8739	767.5	430.7370	-0.11386

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

ics 680-270184/3-a (Samp) 3/21/2013, 10:51:05 PM Rack 3, Tube 15
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	209.920	209.679	210.718
Al 308.215	1943.89	1940.66	1947.97
As 188.980	220.198	219.721	214.324
B 249.678	403.701	408.021	409.555
Ba 389.178	194.552	195.374	194.550
Be 313.042	204.996	205.270	205.400
Ca 370.602	19483	19505	19547
Cd 226.502	199.230	200.221	200.116
Co 228.615	195.269	197.514	196.941
Cr 267.716	201.657	202.489	202.588
Cu 324.754	197.663	196.780	195.457
Fe 271.441	20606.6	20631.2	20637.2
K 766.491	19821.8	19769.4	19713.5
Mg 279.078	20040.3	20056.7	20099.9
Mn 257.610	2029.43	2035.76	2036.51
Mo 202.032	197.626	197.994	196.971
Na 330.237	17855.3	17922.9	17871.0
Ni 231.604	201.990	202.846	201.372
Pb 220.353	202.275	204.592	203.661
Sb 206.834	202.488	202.921	213.432
Se 196.026	195.984	197.077	205.778
Sn 189.925	197.998	204.486	203.621
Sr 216.596	214.971	215.108	214.649
Ti 334.941	198.092	198.252	198.494
Tl 190.794	47.6252	49.2786	49.4320
V 292.401	198.326	199.583	198.833
Zn 206.200	190.262	190.885	192.353

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	210.106	ppb	0.5442	0.3	14937.1
Al 308.215	1944.17	ppb	3.6665	0.2	11646.5
As 188.980	218.081	ppb	3.2623	1.5	133.661
B 249.678	407.092	ppb	3.0357	0.7	3878.25
Ba 389.178	194.826	ppb	0.4752	0.2	5217.74
Be 313.042	205.222	ppb	0.2062	0.1	425316
Ca 370.602	19512	ppb	32.81	0.2	69851
Cd 226.502	199.856	ppb	0.5441	0.3	7948.20
Co 228.615	196.575	ppb	1.1666	0.6	2520.51
Cr 267.716	202.245	ppb	0.5113	0.3	9259.36
Cu 324.754	196.633	ppb	1.1105	0.6	10487.0
Fe 271.441	20625.0	ppb	16.2503	0.1	36086.0
K 766.491	19768.2	ppb	54.1906	0.3	1209039
Mg 279.078	20065.6	ppb	30.8097	0.2	43853.9
Mn 257.610	2033.90	ppb	3.8897	0.2	480666
Mo 202.032	197.530	ppb	0.5183	0.3	1457.41
Na 330.237	17883.1	ppb	35.3869	0.2	943.735
Ni 231.604	202.069	ppb	0.7405	0.4	535.927
Pb 220.353	203.509	ppb	1.1664	0.6	348.398
Sb 206.834	206.280	ppb	6.1975	3.0	206.903
Se 196.026	199.613	ppb	5.3666	2.7	94.4621
Sn 189.925	202.035	ppb	3.5227	1.7	187.111
Sr 216.596	214.909	ppb	0.2359	0.1	2328.78
Ti 334.941	198.279	ppb	0.2025	0.1	59457.4
Tl 190.794	48.7786	ppb	1.0018	2.1	33.2824
V 292.401	198.914	ppb	0.6325	0.3	5936.33
Zn 206.200	191.166	ppb	1.0735	0.6	450.785

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

640-42713-a-7-a (Samp) 3/21/2013, 10:56:32 PM Rack 3, Tube 16

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5894	-0.0419u	0.1014
Al 308.215	198.034	202.303	201.384
As 188.980	-4.6602u	-1.9819u	-1.7529u
B 249.678	23.4739	21.6351	20.7143
Ba 389.178	3.0672	2.8028	2.6538
Be 313.042	0.0371	0.0384	0.0369
Ca 370.602	879.0	878.0	882.5
Cd 226.502	0.0405	0.1724	0.1103
Co 228.615	0.1308	0.7450	0.3989
Cr 267.716	0.7612	0.8131	0.4387
Cu 324.754	1.0130	0.6022	0.0001
Fe 271.441	254.847	253.726	262.979
K 766.491	377.294	377.287	374.268
Mg 279.078	1017.53	1023.50	1020.54
Mn 257.610	1.5310	1.5756	1.5195
Mo 202.032	0.7732	0.8651	0.7673
Na 330.237	5326.00	5672.44	5560.63
Ni 231.604	2.0128	2.5489	2.3430
Pb 220.353	1.4484	0.6998	-0.5577u
Sb 206.834	2.9182	2.8662	5.7796
Se 196.026	-2.0400u	-6.6046u	-2.2232u
Sn 189.925	-1.0557u	-3.4503u	1.3052
Sr 216.596	7.3356	7.5473	7.3099
Ti 334.941	1.2501	1.2796	1.2094
Tl 190.794	4.5560	2.9372	-1.8559u
V 292.401	0.4107	0.8692	0.2490
Zn 206.200	2.3404	2.9937	2.4352

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2163	ppb	0.3309	153.0	-39.1892
Al 308.215	200.574	ppb	2.2470	1.1	1437.82
As 188.980	-2.7983	ppb	1.6165	57.8	-3.9979
B 249.678	21.9411	ppb	1.4050	6.4	252.044
Ba 389.178	2.8413	ppb	0.2093	7.4	52.9549
Be 313.042	0.0375	ppb	0.0008	2.1	-193.718
Ca 370.602	879.8	ppb	2.357	0.3	3206
Cd 226.502	0.1077	ppb	0.0660	61.3	13.8289
Co 228.615	0.4249	ppb	0.3079	72.5	19.6826
Cr 267.716	0.6710	ppb	0.2028	30.2	38.3514
Cu 324.754	0.5384	ppb	0.5094	94.6	194.076
Fe 271.441	257.184	ppb	5.0497	2.0	456.337
K 766.491	376.283	ppb	1.7449	0.5	23313.3
Mg 279.078	1020.52	ppb	2.9854	0.3	2260.18
Mn 257.610	1.5420	ppb	0.0297	1.9	439.847
Mo 202.032	0.8018	ppb	0.0549	6.8	15.5916
Na 330.237	5519.69	ppb	176.815	3.2	289.864
Ni 231.604	2.3016	ppb	0.2704	11.7	4.7358
Pb 220.353	0.5302	ppb	1.0138	191.2	1.5859
Sb 206.834	3.8547	ppb	1.6672	43.3	0.8116
Se 196.026	-3.6226	ppb	2.5841	71.3	-1.0857
Sn 189.925	-1.0669	ppb	2.3777	222.9	-1.4563
Sr 216.596	7.3976	ppb	0.1303	1.8	85.9376
Ti 334.941	1.2464	ppb	0.0353	2.8	257.005
Tl 190.794	1.8791	ppb	3.3344	177.4	0.7633
V 292.401	0.5096	ppb	0.3217	63.1	18.7843
Zn 206.200	2.5897	ppb	0.3530	13.6	450.4195

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

640-42713-a-7-aSD^5 (Samp) 3/21/2013, 11:01:58 PM Rack 3, Tube 17

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1641u	-0.4255u	-0.7744u
Al 308.215	39.8823	39.5097	40.5029
As 188.980	4.8984	5.7218	-1.6598u
B 249.678	6.5906	6.7892	6.6257
Ba 389.178	-0.8484u	-0.1303u	-0.4483u
Be 313.042	0.0058	0.0041	0.0019
Ca 370.602	194.1	195.3	196.4
Cd 226.502	-0.0045u	0.0437	-0.0777u
Co 228.615	0.0958	-0.0734u	-0.4451u
Cr 267.716	0.1462	-0.0135u	0.1256
Cu 324.754	-0.5846u	-0.5450u	-0.8453u
Fe 271.441	49.9420	54.5980	57.7402
K 766.491	78.9372	79.9315	80.5107
Mg 279.078	212.820	215.967	217.288
Mn 257.610	0.2517	0.2621	0.2792
Mo 202.032	0.7962	0.9217	0.1804
Na 330.237	1034.70	1207.74	1448.69
Ni 231.604	-0.1310u	1.7240	1.2348
Pb 220.353	1.1934	0.0812	3.5809
Sb 206.834	4.0095	3.8715	9.7267
Se 196.026	1.2027	-4.9860u	-6.9630u
Sn 189.925	-2.2609u	-0.6168u	-0.3927u
Sr 216.596	2.0506	1.4134	1.8446
Ti 334.941	0.2766	0.3963	0.1638
Tl 190.794	2.9429	6.2908	3.3233
V 292.401	-0.2348u	0.2716	-0.0159u
Zn 206.200	2.1701	1.2707	0.3344

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4547	ppb	0.3062	67.3	-86.8112
Al 308.215	39.9650	ppb	0.5018	1.3	499.575
As 188.980	2.9868	ppb	4.0450	135.4	-0.3932
B 249.678	6.6685	ppb	0.1060	1.6	107.684
Ba 389.178	-0.4757	ppb	0.3598	75.6	-37.4561
Be 313.042	0.0040	ppb	0.0020	49.1	-262.797
Ca 370.602	195.2	ppb	1.131	0.6	709.6
Cd 226.502	-0.0128	ppb	0.0611	475.9	8.5604
Co 228.615	-0.1409	ppb	0.2767	196.4	12.4465
Cr 267.716	0.0861	ppb	0.0869	100.9	11.5012
Cu 324.754	-0.6583	ppb	0.1632	24.8	131.257
Fe 271.441	54.0934	ppb	3.9235	7.3	101.347
K 766.491	79.7931	ppb	0.7958	1.0	5184.36
Mg 279.078	215.358	ppb	2.2950	1.1	500.491
Mn 257.610	0.2643	ppb	0.0139	5.3	133.392
Mo 202.032	0.6327	ppb	0.3968	62.7	14.3624
Na 330.237	1230.38	ppb	207.921	16.9	59.8365
Ni 231.604	0.9426	ppb	0.9614	102.0	1.1209
Pb 220.353	1.6185	ppb	1.7881	110.5	3.4492
Sb 206.834	5.8692	ppb	3.3414	56.9	2.8411
Se 196.026	-3.5821	ppb	4.2600	118.9	-1.0657
Sn 189.925	-1.0901	ppb	1.0201	93.6	-1.4799
Sr 216.596	1.7695	ppb	0.3252	18.4	24.9799
Ti 334.941	0.2789	ppb	0.1163	41.7	-36.8287
Tl 190.794	4.1857	ppb	1.8330	43.8	2.5167
V 292.401	0.0070	ppb	0.2540	3641.3	3.7402
Zn 206.200	1.2584	ppb	0.9179	72.8	3.6074

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

640-42713-a-7-aPDS (Samp) **3/21/2013, 11:07:24 PM** **Rack 3, Tube 18****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.4888	51.2689	51.6609
Al 308.215	2191.46	2187.44	2184.51
As 188.980	2214.81	2208.58	2198.37
B 249.678	1052.91	1060.19	1064.14
Ba 389.178	2100.17	2096.61	2095.80
Be 313.042	52.7319	52.7040	52.5857
Ca 370.602	5991	5979	5968
Cd 226.502	52.7530	53.1228	52.8004
Co 228.615	526.479	526.292	521.767
Cr 267.716	212.595	211.965	211.055
Cu 324.754	258.108	256.160	255.369
Fe 271.441	1300.38	1292.04	1285.11
K 766.491	5742.09	5714.00	5695.38
Mg 279.078	6211.25	6227.18	6211.39
Mn 257.610	529.817	529.349	528.458
Mo 202.032	521.679	520.604	520.292
Na 330.237	10304.2	10385.7	10479.0
Ni 231.604	526.093	528.020	523.836
Pb 220.353	532.293	532.411	530.988
Sb 206.834	512.721	515.343	516.452
Se 196.026	2079.42	2062.63	2046.04
Sn 189.925	1063.00	1053.33	1050.74
Sr 216.596	550.528	549.383	551.155
Ti 334.941	1030.16	1027.14	1027.62
Tl 190.794	2188.96	2166.26	2171.33
V 292.401	519.019	517.960	515.570
Zn 206.200	524.898	523.434	528.698

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.4729	ppb	0.1965	0.4	3600.56
Al 308.215	2187.80	ppb	3.4892	0.2	13108.0
As 188.980	2207.26	ppb	8.3003	0.4	1374.33
B 249.678	1059.08	ppb	5.6955	0.5	10067.4
Ba 389.178	2097.53	ppb	2.3233	0.1	55420.9
Be 313.042	52.6738	ppb	0.0776	0.1	108862
Ca 370.602	5979	ppb	11.09	0.2	22077
Cd 226.502	52.8921	ppb	0.2012	0.4	2099.47
Co 228.615	524.846	ppb	2.6681	0.5	6720.63
Cr 267.716	211.872	ppb	0.7741	0.4	9688.58
Cu 324.754	256.546	ppb	1.4098	0.5	13628.8
Fe 271.441	1292.51	ppb	7.6464	0.6	2355.18
K 766.491	5717.16	ppb	23.5139	0.4	349882
Mg 279.078	6216.61	ppb	9.1559	0.1	13607.3
Mn 257.610	529.208	ppb	0.6902	0.1	125112
Mo 202.032	520.858	ppb	0.7278	0.1	3829.76
Na 330.237	10389.7	ppb	87.4646	0.8	538.539
Ni 231.604	525.983	ppb	2.0942	0.4	1396.13
Pb 220.353	531.897	ppb	0.7897	0.1	908.179
Sb 206.834	514.838	ppb	1.9158	0.4	513.145
Se 196.026	2062.69	ppb	16.6917	0.8	966.989
Sn 189.925	1055.69	ppb	6.4633	0.6	979.610
Sr 216.596	550.355	ppb	0.8982	0.2	5928.25
Ti 334.941	1028.31	ppb	1.6212	0.2	308377
Tl 190.794	2175.52	ppb	11.9153	0.5	1644.14
V 292.401	517.516	ppb	1.7669	0.3	15465.7
Zn 206.200	525.677	ppb	2.7170	0.5	437.436

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

640-42713-a-7-b ms (Samp) 3/21/2013, 11:12:51 PM Rack 3, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	11.3525	11.6093	11.7329
Al 308.215	5105.10	5095.46	5076.07
As 188.980	111.464	105.887	105.185
B 249.678	223.789	224.984	224.082
Ba 389.178	103.453	104.520	103.227
Be 313.042	51.7329	52.1287	51.9113
Ca 370.602	5739	5775	5759
Cd 226.502	51.7059	52.0503	51.7518
Co 228.615	50.0675	51.3864	50.7631
Cr 267.716	103.260	104.261	103.878
Cu 324.754	96.6884	98.3132	99.8300
Fe 271.441	5232.57	5292.79	5252.14
K 766.491	5480.77	5507.38	5463.86
Mg 279.078	5993.14	6030.89	5996.15
Mn 257.610	513.023	516.460	514.094
Mo 202.032	100.742	102.213	100.120
Na 330.237	10379.9	10209.4	10127.9
Ni 231.604	103.459	103.302	101.639
Pb 220.353	50.6694	52.9519	55.7435
Sb 206.834	58.3073	57.5280	56.7963
Se 196.026	102.781	96.6226	94.4837
Sn 189.925	198.762	204.964	202.986
Sr 216.596	111.037	112.180	111.141
Ti 334.941	101.197	101.467	101.307
Tl 190.794	42.0863	44.5919	43.4355
V 292.401	101.516	102.514	101.515
Zn 206.200	103.895	107.009	105.676

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	11.5649	ppb	0.1940	1.7	768.920
Al 308.215	5092.21	ppb	14.7829	0.3	30025.2
As 188.980	107.512	ppb	3.4404	3.2	64.7663
B 249.678	224.285	ppb	0.6225	0.3	2162.49
Ba 389.178	103.733	ppb	0.6909	0.7	2742.73
Be 313.042	51.9243	ppb	0.1982	0.4	107398
Ca 370.602	5758	ppb	17.75	0.3	20696
Cd 226.502	51.8360	ppb	0.1870	0.4	2067.84
Co 228.615	50.7390	ppb	0.6598	1.3	660.783
Cr 267.716	103.799	ppb	0.5049	0.5	4753.06
Cu 324.754	98.2772	ppb	1.5711	1.6	5322.76
Fe 271.441	5259.17	ppb	30.7196	0.6	9207.35
K 766.491	5484.00	ppb	21.9395	0.4	335626
Mg 279.078	6006.73	ppb	20.9772	0.3	13148.7
Mn 257.610	514.526	ppb	1.7588	0.3	121653
Mo 202.032	101.025	ppb	1.0749	1.1	750.398
Na 330.237	10239.1	ppb	128.566	1.3	539.893
Ni 231.604	102.800	ppb	1.0087	1.0	271.857
Pb 220.353	53.1216	ppb	2.5413	4.8	91.2618
Sb 206.834	57.5439	ppb	0.7556	1.3	55.2771
Se 196.026	97.9623	ppb	4.3076	4.4	46.5889
Sn 189.925	202.237	ppb	3.1682	1.6	187.290
Sr 216.596	111.453	ppb	0.6320	0.6	1207.92
Ti 334.941	101.324	ppb	0.1358	0.1	30302.9
Tl 190.794	43.3712	ppb	1.2540	2.9	31.4057
V 292.401	101.848	ppb	0.5764	0.6	3041.20
Zn 206.200	105.527	ppb	1.5628	1.5	415.378

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

640-42713-a-7-c msd (Samp) 3/21/2013, 11:18:17 PM Rack 3, Tube 20**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	22.5541	23.2508	22.9864
Al 308.215	5156.13	5180.12	5190.35
As 188.980	98.7492	107.613	106.925
B 249.678	219.684	223.211	225.833
Ba 389.178	103.727	105.534	106.095
Be 313.042	52.7313	53.0028	53.0515
Ca 370.602	5830	5859	5877
Cd 226.502	52.8073	53.0152	53.1166
Co 228.615	52.0140	52.8567	51.7558
Cr 267.716	104.830	105.625	106.074
Cu 324.754	99.1565	101.310	100.261
Fe 271.441	5345.45	5370.15	5364.78
K 766.491	5592.41	5597.02	5584.06
Mg 279.078	6079.62	6115.20	6121.50
Mn 257.610	522.749	526.265	526.114
Mo 202.032	102.186	102.036	102.532
Na 330.237	9947.54	10351.3	10440.3
Ni 231.604	104.823	104.333	104.390
Pb 220.353	54.4097	55.4745	53.2951
Sb 206.834	57.8431	53.4888	61.5366
Se 196.026	99.8857	95.1234	92.8610
Sn 189.925	207.213	204.684	206.843
Sr 216.596	112.963	113.709	113.689
Ti 334.941	102.386	102.865	103.204
Tl 190.794	45.1471	42.8980	38.3917
V 292.401	103.837	103.934	103.308
Zn 206.200	107.951	107.072	105.377

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	22.9304	ppb	0.3517	1.5	1579.84
Al 308.215	5175.53	ppb	17.5606	0.3	30512.2
As 188.980	104.429	ppb	4.9310	4.7	62.8428
B 249.678	222.909	ppb	3.0855	1.4	2149.37
Ba 389.178	105.119	ppb	1.2374	1.2	2779.82
Be 313.042	52.9285	ppb	0.1726	0.3	109481
Ca 370.602	5855	ppb	23.70	0.4	21044
Cd 226.502	52.9797	ppb	0.1577	0.3	2113.25
Co 228.615	52.2088	ppb	0.5757	1.1	679.515
Cr 267.716	105.510	ppb	0.6297	0.6	4831.25
Cu 324.754	100.242	ppb	1.0766	1.1	5425.88
Fe 271.441	5360.13	ppb	12.9899	0.2	9383.90
K 766.491	5591.16	ppb	6.5698	0.1	342179
Mg 279.078	6105.44	ppb	22.5816	0.4	13364.3
Mn 257.610	525.043	ppb	1.9881	0.4	124138
Mo 202.032	102.251	ppb	0.2544	0.2	759.386
Na 330.237	10246.4	ppb	262.593	2.6	540.233
Ni 231.604	104.515	ppb	0.2682	0.3	276.417
Pb 220.353	54.3931	ppb	1.0898	2.0	93.4318
Sb 206.834	57.6228	ppb	4.0284	7.0	55.3578
Se 196.026	95.9567	ppb	3.5857	3.7	45.6511
Sn 189.925	206.247	ppb	1.3661	0.7	191.012
Sr 216.596	113.454	ppb	0.4251	0.4	1229.52
Ti 334.941	102.818	ppb	0.4111	0.4	30751.8
Tl 190.794	42.1456	ppb	3.4400	8.2	30.4634
V 292.401	103.693	ppb	0.3367	0.3	3096.26
Zn 206.200	106.800	ppb	1.3081	1.2	417.109

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

640-42728-a-1-a (Samp) 3/21/2013, 11:23:43 PM Rack 3, Tube 21

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.1280u	-0.9429u	-1.3396u
Al 308.215	162.287	162.694	163.552
As 188.980	2.6222	10.4585	2.4831
B 249.678	86.5914	87.4961	87.0368
Ba 389.178	28.7072	29.0971	28.8672
Be 313.042	-0.0179	-0.0249u	-0.0170
Ca 370.602	132102	130976	130617
Cd 226.502	-0.1402u	-0.0087	0.1356
Co 228.615	0.7277	0.4062	-0.0488u
Cr 267.716	0.5966	0.4860	0.6751
Cu 324.754	2.0778	2.5826	1.8134
Fe 271.441	275.803	284.246	290.079
K 766.491	17059.2	17018.7	16911.6
Mg 279.078	3708.26	3716.20	3717.94
Mn 257.610	5.9826	5.9124	5.9478
Mo 202.032	2.6676	2.2158	2.9503
Na 330.237	13411.5	13496.1	13142.8
Ni 231.604	2.7065	2.4168	2.4690
Pb 220.353	0.2355	1.1103	0.9329
Sb 206.834	0.5671	8.0008	6.2389
Se 196.026	3.6488	-3.5827u	-1.1215u
Sn 189.925	-0.4313u	-4.1112u	-2.5414u
Sr 216.596	740.593	743.444	745.908
Ti 334.941	2.0981	1.6676	1.7028
Tl 190.794	0.9238	0.2727	-1.5682u
V 292.401	1.7188	1.8702	2.2186
Zn 206.200	4.5102	3.1289	1.3788

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1368	ppb	0.1985	17.5	-166.606
Al 308.215	162.845	ppb	0.6459	0.4	1217.66
As 188.980	5.1879	ppb	4.5649	88.0	2.0707
B 249.678	87.0414	ppb	0.4524	0.5	868.218
Ba 389.178	28.8905	ppb	0.1960	0.7	749.434
Be 313.042	-0.0199	ppb	0.0043	21.7	-266.490
Ca 370.602	131231	ppb	774.8	0.6	482082
Cd 226.502	-0.0045	ppb	0.1379	3091.9	9.4390
Co 228.615	0.3617	ppb	0.3902	107.9	18.8295
Cr 267.716	0.5859	ppb	0.0950	16.2	34.6067
Cu 324.754	2.1579	ppb	0.3908	18.1	279.049
Fe 271.441	283.376	ppb	7.1774	2.5	502.158
K 766.491	16996.5	ppb	76.2913	0.4	1039562
Mg 279.078	3714.13	ppb	5.1599	0.1	8147.15
Mn 257.610	5.9476	ppb	0.0351	0.6	1495.91
Mo 202.032	2.6112	ppb	0.3705	14.2	28.8620
Na 330.237	13350.1	ppb	184.428	1.4	709.936
Ni 231.604	2.5307	ppb	0.1544	6.1	5.3451
Pb 220.353	0.7595	ppb	0.4625	60.9	1.9764
Sb 206.834	4.9356	ppb	3.8845	78.7	1.8755
Se 196.026	-0.3518	ppb	3.6767	1045.1	0.4474
Sn 189.925	-2.3613	ppb	1.8466	78.2	-2.5950
Sr 216.596	743.315	ppb	2.6600	0.4	8054.12
Ti 334.941	1.8229	ppb	0.2390	13.1	442.512
Tl 190.794	-0.1239	ppb	1.2925	1043.0	-0.7571
V 292.401	1.9359	ppb	0.2563	13.2	61.2563
Zn 206.200	3.0060	ppb	1.5693	52.2	5.9870

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

640-42728-a-2-a (Samp) 3/21/2013, 11:29:10 PM Rack 3, Tube 22

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0022u	-0.9671u	-0.6978u
Al 308.215	34.9120	33.1690	33.3163
As 188.980	3.7508	6.8272	-1.1335
B 249.678	90.1898	91.5983	91.0921
Ba 389.178	38.2766	38.4668	38.0898
Be 313.042	-0.0023	-0.0045	-0.0071
Ca 370.602	102455	102596	102707
Cd 226.502	-0.0063u	0.0913	-0.1884u
Co 228.615	0.8278	0.1398	0.9440
Cr 267.716	0.5711	0.1226	0.4262
Cu 324.754	1.2495	1.2290	1.0110
Fe 271.441	144.250	148.835	145.153
K 766.491	17697.1	17649.6	17634.8
Mg 279.078	18124.0	18173.5	18175.2
Mn 257.610	20.0305	20.1138	20.0801
Mo 202.032	2.5667	2.2255	2.7996
Na 330.237	102241x	102373x	101922x
Ni 231.604	2.5190	2.5521	1.0814
Pb 220.353	0.4180	-0.7722u	3.2619
Sb 206.834	0.0095u	-3.3881u	4.4268
Se 196.026	2.5383	2.6474	7.4690
Sn 189.925	-0.2804u	-0.3183u	0.1986
Sr 216.596	1228.41	1233.07	1236.21
Ti 334.941	2.2956	1.7987	2.3632
Tl 190.794	-0.8548u	-6.4407u	-3.7767u
V 292.401	1.9881	2.0495	2.1403
Zn 206.200	5.7169	6.4297	5.7003

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8890b	ppb	0.1665	18.7	-169.464
Al 308.215	33.7991b	ppb	0.9666	2.9	463.767
As 188.980	3.1481b	ppb	4.0144	127.5	0.5622
B 249.678	90.9600b	ppb	0.7135	0.8	905.433
Ba 389.178	38.2777b	ppb	0.1885	0.5	1040.98
Be 313.042	-0.0046b	ppb	0.0024	52.4	-257.393
Ca 370.602	102586b	ppb	126.1	0.1	376858
Cd 226.502	-0.0345b	ppb	0.1420	412.0	7.5816
Co 228.615	0.6372b	ppb	0.4347	68.2	22.3768
Cr 267.716	0.3733b	ppb	0.2289	61.3	26.4401
Cu 324.754	1.1632b	ppb	0.1322	11.4	226.834
Fe 271.441	146.079b	ppb	2.4287	1.7	262.160
K 766.491	17660.5b	ppb	32.5608	0.2	1080163
Mg 279.078	18157.5b	ppb	29.0807	0.2	39713.7
Mn 257.610	20.0748b	ppb	0.0419	0.2	4905.01
Mo 202.032	2.5306b	ppb	0.2888	11.4	28.2767
Na 330.237	102179xb	ppb	231.896	0.2	5475.38
Ni 231.604	2.0509b	ppb	0.8397	40.9	4.0673
Pb 220.353	0.9692b	ppb	2.0728	213.9	2.3406
Sb 206.834	0.3494b	ppb	3.9185	1121.5	-2.7635
Se 196.026	4.2182b	ppb	2.8158	66.8	2.5925
Sn 189.925	-0.1334b	ppb	0.2881	216.0	-0.5041
Sr 216.596	1232.56b	ppb	3.9241	0.3	13340.0
Ti 334.941	2.1525b	ppb	0.3083	14.3	604.820
Tl 190.794	-3.6907b	ppb	2.7939	75.7	-3.4653
V 292.401	2.0593b	ppb	0.0765	3.7	64.4638
Zn 206.200	5.9490b	ppb	0.4164	7.0	9.9961

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

640-42728-a-3-a (Samp) 3/21/2013, 11:34:36 PM Rack 3, Tube 23

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8842u	-0.3775u	-1.1832u
Al 308.215	115.755	116.534	116.161
As 188.980	4.8111	-1.0822	5.4451
B 249.678	82.3465	82.3736	82.3651
Ba 389.178	46.3812	46.0602	45.8518
Be 313.042	-0.0145	-0.0215u	-0.0282u
Ca 370.602	130995	131049	131566
Cd 226.502	0.2299	-0.0350u	-0.1126u
Co 228.615	0.7611	0.7026	0.9707
Cr 267.716	0.3679	0.3205	0.4734
Cu 324.754	0.3674	0.4062	0.4519
Fe 271.441	294.461	299.553	286.536
K 766.491	18515.9	18383.0	18404.1
Mg 279.078	5871.87	5876.42	5899.92
Mn 257.610	7.4905	7.4333	7.4293
Mo 202.032	7.5456	6.3856	6.8594
Na 330.237	26045.7	26214.7	26122.6
Ni 231.604	2.1819	1.5673	1.4877
Pb 220.353	2.5061	-0.8909u	-2.6722u
Sb 206.834	2.1762	-0.7170u	4.6827
Se 196.026	7.3430	10.5208	8.4576
Sn 189.925	-3.8577u	2.1354	-0.2769u
Sr 216.596	815.461	816.590	821.970
Ti 334.941	3.3293	2.4111	1.7865
Tl 190.794	0.8847	7.5303	5.4255
V 292.401	0.7300	0.3529	0.5456
Zn 206.200	5.8544	2.7378	5.7435

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8149	ppb	0.4073	50.0	-146.785
Al 308.215	116.150	ppb	0.3899	0.3	945.481
As 188.980	3.0580	ppb	3.5995	117.7	0.7405
B 249.678	82.3617	ppb	0.0139	0.0	823.918
Ba 389.178	46.0977	ppb	0.2667	0.6	1210.68
Be 313.042	-0.0214	ppb	0.0069	32.0	-272.060
Ca 370.602	131203	ppb	315.2	0.2	481976
Cd 226.502	0.0274	ppb	0.1796	654.7	10.6788
Co 228.615	0.8115	ppb	0.1410	17.4	24.4328
Cr 267.716	0.3873	ppb	0.0782	20.2	25.7720
Cu 324.754	0.4085	ppb	0.0423	10.3	187.452
Fe 271.441	293.517	ppb	6.5593	2.2	519.872
K 766.491	18434.4	ppb	71.4015	0.4	1127479
Mg 279.078	5882.73	ppb	15.0563	0.3	12886.7
Mn 257.610	7.4510	ppb	0.0342	0.5	1861.98
Mo 202.032	6.9302	ppb	0.5833	8.4	60.5486
Na 330.237	26127.7	ppb	84.6064	0.3	1395.40
Ni 231.604	1.7456	ppb	0.3799	21.8	3.2594
Pb 220.353	-0.3524	ppb	2.6308	746.6	0.0715
Sb 206.834	2.0473	ppb	2.7022	132.0	-1.1063
Se 196.026	8.7738	ppb	1.6123	18.4	4.7226
Sn 189.925	-0.6664	ppb	3.0155	452.5	-1.0164
Sr 216.596	818.007	ppb	3.4782	0.4	8861.40
Ti 334.941	2.5089	ppb	0.7760	30.9	657.886
Tl 190.794	4.6135	ppb	3.3964	73.6	2.8214
V 292.401	0.5428	ppb	0.1886	34.7	18.3697
Zn 206.200	4.7786	ppb	1.7682	37.0	8.4020

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

640-42728-a-4-a (Samp) 3/21/2013, 11:40:02 PM Rack 3, Tube 24

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8956u	-0.7325u	-1.3460u
Al 308.215	179.414	181.267	180.784
As 188.980	-3.5976u	5.4893	1.4668
B 249.678	114.849	114.756	116.820
Ba 389.178	66.0786	66.3236	65.9692
Be 313.042	-0.0314u	-0.0292	-0.0334u
Ca 370.602	185775	185861	185334
Cd 226.502	0.1457	0.1179	0.0462
Co 228.615	-0.0896u	0.7977	0.6651
Cr 267.716	0.6247	0.6023	0.5647
Cu 324.754	1.4319	1.6123	0.9585
Fe 271.441	235.687	237.506	235.562
K 766.491	35361.6	35247.0	35158.7
Mg 279.078	6604.82	6606.77	6623.25
Mn 257.610	11.4192	11.5231	11.4911
Mo 202.032	1.8835	2.6591	2.9310
Na 330.237	26274.2	26250.8	26259.5
Ni 231.604	1.6434	2.9428	2.3249
Pb 220.353	0.0429	1.7910	-1.1606u
Sb 206.834	5.9931	3.3016	3.5833
Se 196.026	-2.3487u	9.3151	4.8471
Sn 189.925	1.6209	-1.5305u	-1.9160u
Sr 216.596	1182.36	1187.39	1187.46
Ti 334.941	3.3080	2.0540	2.3423
Tl 190.794	-3.7140u	0.8761	3.2486
V 292.401	3.6563	3.6011	3.3742
Zn 206.200	3.1350	2.4428	1.0828

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9914	ppb	0.3178	32.1	-174.958
Al 308.215	180.488	ppb	0.9609	0.5	1320.67
As 188.980	1.1195	ppb	4.5534	406.7	-0.0119
B 249.678	115.475	ppb	1.1659	1.0	1137.41
Ba 389.178	66.1238	ppb	0.1815	0.3	1741.91
Be 313.042	-0.0313	ppb	0.0021	6.6	-272.632
Ca 370.602	185657	ppb	282.4	0.2	682031
Cd 226.502	0.1033	ppb	0.0513	49.7	13.5318
Co 228.615	0.4577	ppb	0.4786	104.6	20.1026
Cr 267.716	0.5973	ppb	0.0303	5.1	35.3455
Cu 324.754	1.3342	ppb	0.3377	25.3	235.817
Fe 271.441	236.252	ppb	1.0883	0.5	419.777
K 766.491	35255.8	ppb	101.709	0.3	2156029
Mg 279.078	6611.61	ppb	10.1270	0.2	14479.6
Mn 257.610	11.4778	ppb	0.0532	0.5	2817.42
Mo 202.032	2.4912	ppb	0.5435	21.8	27.9805
Na 330.237	26261.5	ppb	11.8103	0.0	1402.62
Ni 231.604	2.3037	ppb	0.6500	28.2	4.7409
Pb 220.353	0.2244	ppb	1.4841	661.3	1.0629
Sb 206.834	4.2927	ppb	1.4793	34.5	1.2277
Se 196.026	3.9378	ppb	5.8848	149.4	2.4585
Sn 189.925	-0.6085	ppb	1.9403	318.8	-0.9376
Sr 216.596	1185.73	ppb	2.9224	0.2	12842.1
Ti 334.941	2.5681	ppb	0.6568	25.6	679.197
Tl 190.794	0.1369	ppb	3.5397	2585.3	-0.5636
V 292.401	3.5439	ppb	0.1495	4.2	109.616
Zn 206.200	2.2202	ppb	1.0440	47.0	4.9163

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

Cont Calib Verif (CCV) 3/21/2013, 11:45:29 PM Rack 3, Tube 25
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	514.887	510.952	512.522
Al 308.215	5083.31	5013.36	5011.82
As 188.980	488.735	477.486	472.705
B 249.678	2537.87	2543.30	2552.57
Ba 389.178	5007.22	4987.94	4980.31
Be 313.042	505.060	502.882	501.589
Ca 370.602	5088	5060	5045
Cd 226.502	508.694	507.657	506.245
Co 228.615	503.942	501.080	499.468
Cr 267.716	5117.01	5099.04	5100.54
Cu 324.754	4900.00	4878.20	4869.83
Fe 271.441	5061.47	5028.56	5020.87
K 766.491	9887.40	9825.69	9777.52
Mg 279.078	5033.54	5012.33	4998.73
Mn 257.610	5050.80	5027.70	5014.59
Mo 202.032	503.800	502.666	502.587
Na 330.237	7632.36	7630.00	7615.78
Ni 231.604	2557.93	2549.43	2541.13
Pb 220.353	525.516	519.375	517.830
Sb 206.834	924.467	931.275	933.437
Se 196.026	5013.45	4986.96	4985.69
Sn 189.925	5108.76	5090.09	5095.20
Sr 216.596	2555.82	2547.83	2545.20
Ti 334.941	500.235	499.629	499.229
Tl 190.794	5220.47	5192.62	5167.08
V 292.401	5034.57	4999.48	4986.51
Zn 206.200	2587.15	2570.56	2572.88

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	512.787	ppb	1.9807	0.4	36476.7	102.55740
Al 308.215	5036.16	ppb	40.8374	0.8	29663.8	100.72327
As 188.980	479.642	ppb	8.2297	1.7	296.755	95.92836
B 249.678	2544.58	ppb	7.4330	0.3	24123.9	101.78324
Ba 389.178	4991.82	ppb	13.8692	0.3	131908	99.83647
Be 313.042	503.177	ppb	1.7543	0.3	1043021	100.63542
Ca 370.602	5065	ppb	22.16	0.4	18448	101.29037
Cd 226.502	507.532	ppb	1.2294	0.2	20048.7	101.50636
Co 228.615	501.497	ppb	2.2660	0.5	6422.00	100.29934
Cr 267.716	5105.53	ppb	9.9694	0.2	233283	102.11060
Cu 324.754	4882.68	ppb	15.5764	0.3	256170	97.65352
Fe 271.441	5036.97	ppb	21.5653	0.4	8937.65	100.73932
K 766.491	9830.20	ppb	55.0772	0.6	601376	98.30203
Mg 279.078	5014.87	ppb	17.5449	0.3	10906.2	100.29733
Mn 257.610	5031.03	ppb	18.3327	0.4	1188512	100.62065
Mo 202.032	503.018	ppb	0.6791	0.1	3690.15	100.60354
Na 330.237	7626.04	ppb	8.9680	0.1	377.571	101.68059
Ni 231.604	2549.50	ppb	8.3991	0.3	6772.50	101.97993
Pb 220.353	520.907	ppb	4.0660	0.8	890.665	104.18137
Sb 206.834	929.726	ppb	4.6810	0.5	984.145	92.97264
Se 196.026	4995.36	ppb	15.6732	0.3	2341.81	99.90729
Sn 189.925	5098.02	ppb	9.6520	0.2	4732.38	101.96031
Sr 216.596	2549.62	ppb	5.5277	0.2	27507.8	101.98473
Ti 334.941	499.698	ppb	0.5066	0.1	149801	99.93956
Tl 190.794	5193.39	ppb	26.7076	0.5	3922.92	103.86778
V 292.401	5006.85	ppb	24.8664	0.5	150218	100.13706
Zn 206.200	2576.86	ppb	8.9833	0.3	3499.05	103.07459

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

Cont Calib Blank (CCB) 3/21/2013, 11:50:55 PM Rack 3, Tube 26

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7628u	0.2222	0.8403
Al 308.215	-3.5987u	-5.3809u	-0.8565u
As 188.980	-0.5499u	3.5867	5.0828
B 249.678	27.5775	24.9988	22.3676
Ba 389.178	1.3524	0.7733	-0.3864u
Be 313.042	0.0611	0.0503	0.0532
Ca 370.602	1.558	8.796	3.134
Cd 226.502	0.0730	0.2565	0.1610
Co 228.615	-0.1256u	-0.3145u	-0.2378u
Cr 267.716	0.5465	0.2815	0.5994
Cu 324.754	0.4359	-0.1202u	-0.1337u
Fe 271.441	-4.3929u	-0.2349u	5.2259
K 766.491	0.8058	1.2699	0.4202
Mg 279.078	-1.8723u	-2.8434u	-2.3558u
Mn 257.610	0.5753	0.5120	0.5317
Mo 202.032	0.8354	0.8095	0.7376
Na 330.237	108.126	225.665	89.8896
Ni 231.604	1.8940	0.9925	2.2534
Pb 220.353	2.8243	4.2146	0.5168
Sb 206.834	4.4477	10.6881	6.9250
Se 196.026	2.8659	-0.0254u	-3.3405u
Sn 189.925	3.0881	-1.8190u	0.2815
Sr 216.596	0.6065	0.4861	0.5896
Ti 334.941	0.2605	0.2433	0.2479
Tl 190.794	3.7721	-0.4995u	1.8426
V 292.401	0.6332	0.5939	0.8323
Zn 206.200	-0.1771u	-2.2381u	-0.2018u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0999	ppb	0.8085	809.4	-47.1891	0.09990
Al 308.215	-3.2787	ppb	2.2791	69.5	246.955	-3.27870
As 188.980	2.7065	ppb	2.9177	107.8	-0.5691	2.70652
B 249.678	24.9813	ppb	2.6050	10.4	281.063	24.98132
Ba 389.178	0.5798	ppb	0.8854	152.7	-10.3143	0.57977
Be 313.042	0.0549	ppb	0.0056	10.3	-157.227	0.05486
Ca 370.602	4.496	ppb	3.806	84.7	13.91	4.49565
Cd 226.502	0.1635	ppb	0.0918	56.1	15.3826	0.16349
Co 228.615	-0.2260	ppb	0.0950	42.0	11.3612	-0.22600
Cr 267.716	0.4758	ppb	0.1704	35.8	29.2723	0.47583
Cu 324.754	0.0607	ppb	0.3250	535.6	168.939	0.06068
Fe 271.441	0.1994	ppb	4.8241	2419.6	7.1736	0.19938
K 766.491	0.8320	ppb	0.4255	51.1	356.256	0.83195
Mg 279.078	-2.3572	ppb	0.4856	20.6	24.6610	-2.35718
Mn 257.610	0.5397	ppb	0.0324	6.0	197.177	0.53968
Mo 202.032	0.7942	ppb	0.0507	6.4	15.5482	0.79418
Na 330.237	141.227	ppb	73.6916	52.2	1.4364	141.22679
Ni 231.604	1.7133	ppb	0.6496	37.9	3.1674	1.71331
Pb 220.353	2.5186	ppb	1.8678	74.2	4.9880	2.51858
Sb 206.834	7.3536	ppb	3.1422	42.7	4.3431	7.35359
Se 196.026	-0.1667	ppb	3.1056	1863.1	0.5347	-0.16669
Sn 189.925	0.5169	ppb	2.4620	476.3	0.0115	0.51686
Sr 216.596	0.5607	ppb	0.0652	11.6	11.8560	0.56074
Ti 334.941	0.2505	ppb	0.0089	3.5	-46.3323	0.25053
Tl 190.794	1.7051	ppb	2.1391	125.5	0.6429	1.70507
V 292.401	0.6865	ppb	0.1278	18.6	24.1560	0.68647
Zn 206.200	-0.8723	ppb	1.1828	135.6	4.07041	-0.87234

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

640-42733-c-2-a (Samp) 3/21/2013, 11:56:22 PM Rack 3, Tube 27

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7808u	-0.3491u	-1.0293u
Al 308.215	256.048	255.820	253.267
As 188.980	6.9250	1.5680	6.9717
B 249.678	51.7246	51.6515	52.0777
Ba 389.178	21.1533	20.8532	21.6269
Be 313.042	0.0131	0.0157	0.0059
Ca 370.602	17073	16996	17106
Cd 226.502	-0.0756u	-0.0240u	0.0716
Co 228.615	0.3098	0.0781	0.4980
Cr 267.716	1.0105	0.7440	0.4908
Cu 324.754	1.0039	1.2267	0.2460
Fe 271.441	16.5385	20.4920	16.4718
K 766.491	3704.61	3670.92	3679.30
Mg 279.078	4901.27	4862.51	4891.14
Mn 257.610	4.1782	4.1363	4.1777
Mo 202.032	0.7827	1.3339	0.7970
Na 330.237	12898.1	12651.0	12457.4
Ni 231.604	1.4439	1.7918	1.6617
Pb 220.353	0.0644	1.7830	4.7093
Sb 206.834	9.1247	4.8339	7.3827
Se 196.026	7.5246	1.5348	4.0950
Sn 189.925	-0.2712u	-3.2841u	0.8704
Sr 216.596	109.614	108.495	109.674
Ti 334.941	0.7226	0.8343	0.7574
Tl 190.794	4.5222	-1.3888u	2.8444
V 292.401	2.7838	2.0941	2.7189
Zn 206.200	1.9101	2.0033	1.9519

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7198	ppb	0.3442	47.8	-110.325
Al 308.215	255.045	ppb	1.5440	0.6	1756.04
As 188.980	5.1549	ppb	3.1064	60.3	1.1006
B 249.678	51.8179	ppb	0.2279	0.4	535.059
Ba 389.178	21.2111	ppb	0.3901	1.8	549.643
Be 313.042	0.0115	ppb	0.0051	44.2	-242.825
Ca 370.602	17058	ppb	56.28	0.3	62665
Cd 226.502	-0.0094	ppb	0.0747	798.9	8.5933
Co 228.615	0.2953	ppb	0.2103	71.2	18.0163
Cr 267.716	0.7484	ppb	0.2599	34.7	41.9514
Cu 324.754	0.8255	ppb	0.5141	62.3	209.045
Fe 271.441	17.8341	ppb	2.3021	12.9	38.0244
K 766.491	3684.94	ppb	17.5430	0.5	225622
Mg 279.078	4884.98	ppb	20.1015	0.4	10706.0
Mn 257.610	4.1641	ppb	0.0241	0.6	1078.32
Mo 202.032	0.9712	ppb	0.3142	32.4	16.8427
Na 330.237	12668.8	ppb	220.872	1.7	673.484
Ni 231.604	1.6325	ppb	0.1758	10.8	2.9531
Pb 220.353	2.1856	ppb	2.3485	107.5	4.4139
Sb 206.834	7.1138	ppb	2.1580	30.3	4.0974
Se 196.026	4.3848	ppb	3.0054	68.5	2.6676
Sn 189.925	-0.8949	ppb	2.1463	239.8	-1.2863
Sr 216.596	109.261	ppb	0.6642	0.6	1188.60
Ti 334.941	0.7714	ppb	0.0572	7.4	132.892
Tl 190.794	1.9926	ppb	3.0461	152.9	0.8562
V 292.401	2.5323	ppb	0.3808	15.0	79.5416
Zn 206.200	1.9551	ppb	0.0467	2.4	4.5550

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

640-42733-c-3-a (Samp) 3/22/2013, 12:01:49 AM Rack 3, Tube 28

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4628u	-0.9150u	-0.1993u
Al 308.215	362.527	364.759	365.621
As 188.980	6.9193	9.0987	7.7079
B 249.678	960.324	966.593	972.532
Ba 389.178	103.255	103.876	103.713
Be 313.042	-0.0065u	0.0009u	0.0022
Ca 370.602	48921	48982	48969
Cd 226.502	0.0588	0.1424	0.0169
Co 228.615	1.0329	0.5027	0.7680
Cr 267.716	27.0751	26.8816	26.8026
Cu 324.754	1.3717	1.7921	1.6096
Fe 271.441	2728.42	2711.35	2718.17
K 766.491	64566.9x	64442.4x	64448.4x
Mg 279.078	15604.3	15618.9	15619.4
Mn 257.610	71.2939	71.2793	71.3553
Mo 202.032	-0.5264u	0.0113u	-0.0071u
Na 330.237	132659x	132198x	132243x
Ni 231.604	6.6501	2.8496	3.8154
Pb 220.353	4.0113	2.8919	-1.2075u
Sb 206.834	3.6999	6.3709	7.8263
Se 196.026	3.0382	7.6824	-10.3120u
Sn 189.925	-0.6440u	0.6701	-1.0310u
Sr 216.596	247.730	246.224	248.412
Ti 334.941	1.0694	1.1593	1.1467
Tl 190.794	-2.5335u	1.5028	-1.1123u
V 292.401	3.2894	3.3022	3.1281
Zn 206.200	8.2541	5.9379	6.3474

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5257b	ppb	0.3620	68.9	-102.183
Al 308.215	364.302b	ppb	1.5965	0.4	2394.11
As 188.980	7.9086b	ppb	1.1034	14.0	3.0575
B 249.678	966.483b	ppb	6.1043	0.6	9189.77
Ba 389.178	103.615b	ppb	0.3222	0.3	2763.74
Be 313.042	-0.0011b	ppb	0.0047	414.5	-276.301
Ca 370.602	48957b	ppb	32.24	0.1	179603
Cd 226.502	0.0727b	ppb	0.0639	87.9	18.1891
Co 228.615	0.7679b	ppb	0.2651	34.5	24.1436
Cr 267.716	26.9198b	ppb	0.1402	0.5	1240.80
Cu 324.754	1.5911b	ppb	0.2108	13.2	249.987
Fe 271.441	2719.32b	ppb	8.5921	0.3	4759.44
K 766.491	64485.9xb	ppb	70.2215	0.1	3943313
Mg 279.078	15614.2b	ppb	8.5725	0.1	34154.7
Mn 257.610	71.3095b	ppb	0.0404	0.1	17000.7
Mo 202.032	-0.1741b	ppb	0.3053	175.4	8.3029
Na 330.237	132367xb	ppb	253.853	0.2	7094.10
Ni 231.604	4.4384b	ppb	1.9754	44.5	10.4647
Pb 220.353	1.8986b	ppb	2.7476	144.7	3.9376
Sb 206.834	5.9657b	ppb	2.0928	35.1	3.2654
Se 196.026	0.1362b	ppb	9.3416	6859.0	0.6756
Sn 189.925	-0.3350b	ppb	0.8917	266.2	-0.7039
Sr 216.596	247.455b	ppb	1.1194	0.5	2686.77
Ti 334.941	1.1252b	ppb	0.0487	4.3	281.918
Tl 190.794	-0.7143b	ppb	2.0473	286.6	-1.3691
V 292.401	3.2399b	ppb	0.0970	3.0	98.5012
Zn 206.200	6.8464b	ppb	1.2362	18.1	410.1505

640-42733-c-4-a (Samp) 3/22/2013, 12:07:15 AM Rack 3, Tube 29

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2462u	-0.3374u	0.1932
Al 308.215	595.700	595.871	591.191
As 188.980	3.8899	-1.4366u	4.3056
B 249.678	35.5404	34.6192	33.5545
Ba 389.178	21.1049	23.0469	21.7926
Be 313.042	0.0236	0.0089	0.0171
Ca 370.602	4054	4058	4039
Cd 226.502	0.0227	0.0152	0.1653
Co 228.615	1.0834	1.0892	1.0088
Cr 267.716	0.6008	0.4762	0.2837
Cu 324.754	-0.3896u	-0.1256u	-0.8104u
Fe 271.441	613.257	607.288	598.812
K 766.491	1069.75	1067.25	1063.46
Mg 279.078	3034.49	3038.89	3023.06
Mn 257.610	6.6699	6.7091	6.6517
Mo 202.032	-0.3455u	0.2537	0.0495
Na 330.237	7054.34	6736.45	6708.36
Ni 231.604	1.7583	3.1075	1.2942
Pb 220.353	2.7750	-0.5695u	-2.5026u
Sb 206.834	2.3835	-0.7048u	2.3643
Se 196.026	2.5112	-8.8867u	-5.3651u
Sn 189.925	-0.9548u	1.3596	-4.4044u
Sr 216.596	30.7958	31.3668	31.6617
Ti 334.941	0.6840	0.6522	0.5895
Tl 190.794	-0.6058u	-1.2058u	0.8822
V 292.401	2.9257	3.6628	2.7885
Zn 206.200	3.8685	2.0417	2.5615

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1301	ppb	0.2837	218.0	-64.9005
Al 308.215	594.254	ppb	2.6538	0.4	3737.41
As 188.980	2.2529	ppb	3.2020	142.1	-0.8241
B 249.678	34.5714	ppb	0.9938	2.9	371.260
Ba 389.178	21.9815	ppb	0.9847	4.5	565.332
Be 313.042	0.0165	ppb	0.0074	44.7	-236.153
Ca 370.602	4050	ppb	10.10	0.2	14821
Cd 226.502	0.0677	ppb	0.0846	124.9	13.1646
Co 228.615	1.0604	ppb	0.0448	4.2	27.7995
Cr 267.716	0.4536	ppb	0.1598	35.2	28.5171
Cu 324.754	-0.4418	ppb	0.3454	78.2	142.724
Fe 271.441	606.453	ppb	7.2583	1.2	1066.83
K 766.491	1066.82	ppb	3.1641	0.3	65536.4
Mg 279.078	3032.15	ppb	8.1703	0.3	6656.56
Mn 257.610	6.6769	ppb	0.0293	0.4	1663.99
Mo 202.032	-0.0141	ppb	0.3046	2161.2	9.5832
Na 330.237	6833.05	ppb	192.156	2.8	360.222
Ni 231.604	2.0533	ppb	0.9420	45.9	4.0838
Pb 220.353	-0.0990	ppb	2.6701	2696.1	0.5059
Sb 206.834	1.3477	ppb	1.7775	131.9	-1.7056
Se 196.026	-3.9135	ppb	5.8360	149.1	-1.2230
Sn 189.925	-1.3332	ppb	2.9006	217.6	-1.7015
Sr 216.596	31.2748	ppb	0.4402	1.4	344.556
Ti 334.941	0.6419	ppb	0.0481	7.5	85.5021
Tl 190.794	-0.3098	ppb	1.0750	347.0	-0.9098
V 292.401	3.1257	ppb	0.4702	15.0	97.7240
Zn 206.200	2.8239	ppb	0.9412	33.3	45.7391

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

640-42733-c-5-a (Samp) 3/22/2013, 12:12:42 AM Rack 3, Tube 30

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2155u	-0.5128u	-0.5502u
Al 308.215	514.115	509.017	514.718
As 188.980	-1.2966u	4.2293	6.4849
B 249.678	62.1890	61.3410	60.5610
Ba 389.178	7.5500	7.4615	6.8021
Be 313.042	0.0594	0.0599	0.0648
Ca 370.602	14281	14255	14312
Cd 226.502	-0.0740u	0.1830	-0.0561u
Co 228.615	0.5911	0.4728	0.1542
Cr 267.716	0.9082	0.9535	0.8175
Cu 324.754	0.5633	0.5300	0.6685
Fe 271.441	218.319	217.507	213.695
K 766.491	7028.20	7000.21	6999.97
Mg 279.078	7148.21	7145.49	7147.19
Mn 257.610	0.4403	0.4056	0.4184
Mo 202.032	0.5457	0.5685	0.2605
Na 330.237	23231.3	23146.0	23195.7
Ni 231.604	0.4302	1.9638	0.3704
Pb 220.353	-1.6052u	2.0014	0.8619
Sb 206.834	9.7045	-4.8782u	4.8102
Se 196.026	4.2409	1.3746	-9.8834u
Sn 189.925	0.6019	-0.7068u	-1.1968u
Sr 216.596	100.058	100.945	101.460
Ti 334.941	0.6398	0.5555	0.6321
Tl 190.794	6.0992	-3.0928u	-4.9683u
V 292.401	2.4505	2.5685	2.7929
Zn 206.200	9.2111	7.2347	8.0143

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4262	ppb	0.1834	43.0	-89.0680
Al 308.215	512.617	ppb	3.1320	0.6	3260.61
As 188.980	3.1392	ppb	4.0036	127.5	-0.1817
B 249.678	61.3637	ppb	0.8142	1.3	625.223
Ba 389.178	7.2712	ppb	0.4087	5.6	188.482
Be 313.042	0.0614	ppb	0.0030	4.9	-141.978
Ca 370.602	14283	ppb	28.83	0.2	52449
Cd 226.502	0.0177	ppb	0.1435	812.4	10.1443
Co 228.615	0.4060	ppb	0.2260	55.7	19.4447
Cr 267.716	0.8930	ppb	0.0692	7.8	48.7699
Cu 324.754	0.5873	ppb	0.0723	12.3	196.594
Fe 271.441	216.507	ppb	2.4687	1.1	385.248
K 766.491	7009.46	ppb	16.2324	0.2	428901
Mg 279.078	7146.97	ppb	1.3749	0.0	15649.8
Mn 257.610	0.4214	ppb	0.0175	4.2	206.188
Mo 202.032	0.4583	ppb	0.1716	37.4	13.0693
Na 330.237	23191.0	ppb	42.8125	0.2	1237.87
Ni 231.604	0.9215	ppb	0.9032	98.0	1.0684
Pb 220.353	0.4193	ppb	1.8436	439.6	1.3911
Sb 206.834	3.2122	ppb	7.4215	231.0	0.1665
Se 196.026	-1.4226	ppb	7.4661	524.8	-0.0550
Sn 189.925	-0.4339	ppb	0.9299	214.3	-0.8553
Sr 216.596	100.821	ppb	0.7092	0.7	1097.20
Ti 334.941	0.6091	ppb	0.0466	7.6	94.4506
Tl 190.794	-0.6540	ppb	5.9231	905.7	-1.1487
V 292.401	2.6040	ppb	0.1739	6.7	81.7689
Zn 206.200	8.1533	ppb	0.9955	12.2	430.9979

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88477-i-1-a (Samp) 3/22/2013, 12:18:09 AM Rack 3, Tube 31
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2445u	-0.0492u	-1.0556u
Al 308.215	297.270	292.185	295.746
As 188.980	4.3931	1.0079	4.9262
B 249.678	1316.62	1329.79	1331.13
Ba 389.178	54.2538	54.6316	54.1034
Be 313.042	0.2785	0.2688	0.2631
Ca 370.602	14722	14744	14673
Cd 226.502	-0.0184	0.0739	0.0119
Co 228.615	2.7115	2.4237	2.4802
Cr 267.716	0.2422	0.3500	-0.0352
Cu 324.754	0.5832	0.6826	0.6756
Fe 271.441	3738.78	3728.04	3729.80
K 766.491	5836.63	5838.60	5826.98
Mg 279.078	11285.8	11262.7	11270.6
Mn 257.610	159.123	159.263	159.228
Mo 202.032	0.3515	0.1646	0.5267
Na 330.237	39043.5	38969.4	38822.7
Ni 231.604	2.6515	3.2360	3.5285
Pb 220.353	6.6897	6.5177	6.5405
Sb 206.834	0.7755	9.4409	3.2294
Se 196.026	3.9145	5.0087	2.2294
Sn 189.925	-0.9475u	-1.0972u	-0.0966u
Sr 216.596	167.503	168.385	167.544
Ti 334.941	-0.0158	0.0205	-0.0347
Tl 190.794	-1.1879u	0.2456u	1.5633
V 292.401	7.1566	7.1262	6.9584
Zn 206.200	5.4940	4.3536	4.9681

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4498	ppb	0.5337	118.7	-92.9145
Al 308.215	295.067	ppb	2.6100	0.9	1989.64
As 188.980	3.4424	ppb	2.1251	61.7	-0.0247
B 249.678	1325.85	ppb	8.0216	0.6	12590.0
Ba 389.178	54.3296	ppb	0.2721	0.5	1450.02
Be 313.042	0.2701	ppb	0.0078	2.9	288.688
Ca 370.602	14713	ppb	36.42	0.2	53705
Cd 226.502	0.0225	ppb	0.0470	209.4	19.2890
Co 228.615	2.5384	ppb	0.1525	6.0	46.5091
Cr 267.716	0.1857	ppb	0.1987	107.0	18.1116
Cu 324.754	0.6472	ppb	0.0555	8.6	200.768
Fe 271.441	3732.20	ppb	5.7603	0.2	6529.85
K 766.491	5834.07	ppb	6.2181	0.1	357031
Mg 279.078	11273.0	ppb	11.7536	0.1	24665.6
Mn 257.610	159.204	ppb	0.0731	0.0	37743.7
Mo 202.032	0.3476	ppb	0.1811	52.1	12.0715
Na 330.237	38945.2	ppb	112.394	0.3	2081.98
Ni 231.604	3.1387	ppb	0.4466	14.2	7.0325
Pb 220.353	6.5827	ppb	0.0934	1.4	11.9619
Sb 206.834	4.4819	ppb	4.4664	99.7	1.5291
Se 196.026	3.7175	ppb	1.4001	37.7	2.3673
Sn 189.925	-0.7138	ppb	0.5397	75.6	-1.1087
Sr 216.596	167.811	ppb	0.4983	0.3	1822.81
Ti 334.941	-0.0100	ppb	0.0280	280.9	-71.9269
Tl 190.794	0.2070	ppb	1.3760	664.7	-0.8064
V 292.401	7.0804	ppb	0.1067	1.5	216.447
Zn 206.200	4.9386	ppb	0.5708	11.6	436204

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

680-88493-a-1-a (Samp) 3/22/2013, 12:23:35 AM Rack 3, Tube 32

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0330	-0.7303u	-1.1010u
Al 308.215	323.911	325.320	325.861
As 188.980	2.5303	-0.9578u	3.7732
B 249.678	35.3854	34.2545	31.4530
Ba 389.178	51.3683	51.6532	51.5034
Be 313.042	0.0765	0.0735	0.0732
Ca 370.602	4545	4548	4564
Cd 226.502	0.1056	-0.0743u	0.0261
Co 228.615	0.0860	0.7729	0.4929
Cr 267.716	31.9297	31.6964	31.8764
Cu 324.754	0.9973	0.4131	0.7259
Fe 271.441	205.916	205.231	203.748
K 766.491	1101.57	1105.79	1106.10
Mg 279.078	2164.82	2169.48	2172.69
Mn 257.610	4.4548	4.4005	4.4484
Mo 202.032	-0.0865u	-0.0264u	-0.2788u
Na 330.237	11251.7	11077.7	11213.7
Ni 231.604	10.3218	9.0579	11.1511
Pb 220.353	0.8605	1.9869	1.3704
Sb 206.834	0.2197	4.7136	6.0091
Se 196.026	-7.6520u	-1.6451u	2.3157
Sn 189.925	0.7668	-1.5640u	0.3187
Sr 216.596	36.8636	37.3095	37.1693
Ti 334.941	1.1472	1.0903	1.2450
Tl 190.794	0.4607	-0.7883u	5.2195
V 292.401	1.9540	1.8259	1.7999
Zn 206.200	3.1283	2.8839	3.6717

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5994	ppb	0.5782	96.5	-98.6252
Al 308.215	325.031	ppb	1.0068	0.3	2164.74
As 188.980	1.7819	ppb	2.4527	137.6	-1.1095
B 249.678	33.6976	ppb	2.0245	6.0	363.373
Ba 389.178	51.5083	ppb	0.1425	0.3	1342.22
Be 313.042	0.0744	ppb	0.0018	2.4	-116.548
Ca 370.602	4552	ppb	10.52	0.2	16703
Cd 226.502	0.0192	ppb	0.0902	470.6	10.1685
Co 228.615	0.4506	ppb	0.3454	76.7	20.1474
Cr 267.716	31.8342	ppb	0.1223	0.4	1462.47
Cu 324.754	0.7121	ppb	0.2923	41.0	203.130
Fe 271.441	204.965	ppb	1.1080	0.5	365.238
K 766.491	1104.48	ppb	2.5313	0.2	67839.4
Mg 279.078	2169.00	ppb	3.9561	0.2	4770.14
Mn 257.610	4.4346	ppb	0.0297	0.7	1128.79
Mo 202.032	-0.1306	ppb	0.1318	101.0	8.7519
Na 330.237	11181.0	ppb	91.4811	0.8	593.594
Ni 231.604	10.1769	ppb	1.0541	10.4	25.6588
Pb 220.353	1.4059	ppb	0.5640	40.1	3.0815
Sb 206.834	3.6475	ppb	3.0384	83.3	0.9084
Se 196.026	-2.3271	ppb	5.0187	215.7	-0.4778
Sn 189.925	-0.1595	ppb	1.2368	775.4	-0.6099
Sr 216.596	37.1141	ppb	0.2280	0.6	407.414
Ti 334.941	1.1608	ppb	0.0783	6.7	236.502
Tl 190.794	1.6306	ppb	3.1702	194.4	0.5754
V 292.401	1.8599	ppb	0.0825	4.4	57.5180
Zn 206.200	3.2280	ppb	0.4932	12.5	6.2088

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88493-a-2-a (Samp) 3/22/2013, 12:29:02 AM Rack 3, Tube 33

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2572	-0.9003u	0.6611
Al 308.215	413.469	403.569	404.679
As 188.980	6.6289	0.7957	-1.1715u
B 249.678	19.2247	18.4988	17.7759
Ba 389.178	31.8045	31.5616	31.8591
Be 313.042	0.0991	0.1057	0.0992
Ca 370.602	510.2	501.7	510.5
Cd 226.502	0.0868	0.1305	0.0834
Co 228.615	0.2306	0.9417	-0.1762u
Cr 267.716	23.9558	23.7739	23.8803
Cu 324.754	1.8361	1.4027	2.2362
Fe 271.441	384.989	380.615	380.062
K 766.491	859.823	845.535	852.161
Mg 279.078	663.536	646.149	655.726
Mn 257.610	5.7037	5.6667	5.6672
Mo 202.032	0.4621	1.1640	0.9244
Na 330.237	3568.23	3490.93	3779.39
Ni 231.604	11.1473	11.4552	11.0289
Pb 220.353	3.0894	4.2117	1.3616
Sb 206.834	4.4582	4.7918	6.6835
Se 196.026	4.4509	16.1726	-1.2351u
Sn 189.925	-3.1437u	-2.5676u	0.3160
Sr 216.596	8.3002	7.3111	7.7960
Ti 334.941	8.2266	8.4061	8.0127
Tl 190.794	-1.3588u	-4.9516u	0.1614
V 292.401	7.0023	6.5590	6.9221
Zn 206.200	5.0083	3.3364	4.2195

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0060	ppb	0.8104	13584.2	-54.1270
Al 308.215	407.239	ppb	5.4237	1.3	2644.99
As 188.980	2.0844	ppb	4.0567	194.6	-0.9568
B 249.678	18.4998	ppb	0.7244	3.9	219.361
Ba 389.178	31.7417	ppb	0.1584	0.5	815.671
Be 313.042	0.1013	ppb	0.0038	3.8	-61.4598
Ca 370.602	507.5	ppb	4.977	1.0	1828
Cd 226.502	0.1002	ppb	0.0263	26.2	13.8481
Co 228.615	0.3320	ppb	0.5658	170.4	18.7711
Cr 267.716	23.8700	ppb	0.0914	0.4	1098.42
Cu 324.754	1.8250	ppb	0.4168	22.8	261.515
Fe 271.441	381.889	ppb	2.6993	0.7	674.427
K 766.491	852.506	ppb	7.1503	0.8	52432.1
Mg 279.078	655.137	ppb	8.7085	1.3	1461.51
Mn 257.610	5.6792	ppb	0.0212	0.4	1415.59
Mo 202.032	0.8502	ppb	0.3568	42.0	15.9281
Na 330.237	3612.85	ppb	149.318	4.1	187.466
Ni 231.604	11.2104	ppb	0.2200	2.0	28.4085
Pb 220.353	2.8875	ppb	1.4357	49.7	5.6070
Sb 206.834	5.3112	ppb	1.2001	22.6	2.5085
Se 196.026	6.4628	ppb	8.8765	137.3	3.6390
Sn 189.925	-1.7984	ppb	1.8536	103.1	-2.1363
Sr 216.596	7.8024	ppb	0.4946	6.3	90.1714
Ti 334.941	8.2151	ppb	0.1970	2.4	2345.88
Tl 190.794	-2.0497	ppb	2.6256	128.1	-2.2145
V 292.401	6.8278	ppb	0.2362	3.5	207.499
Zn 206.200	4.1881	ppb	0.8364	20.0	7.5372

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88493-a-3-a (Samp) 3/22/2013, 12:34:39 AM Rack 3, Tube 34

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4910	0.2184	-0.2496u
Al 308.215	172.918	172.405	173.501
As 188.980	-0.7669u	5.6107	-3.4654u
B 249.678	16.4443	17.5916	17.8547
Ba 389.178	117.634	118.390	118.003
Be 313.042	0.1739	0.1728	0.1721
Ca 370.602	1183	1180	1177
Cd 226.502	0.1983	0.1019	0.2040
Co 228.615	1.5677	1.3644	1.2955
Cr 267.716	15.8567	16.0436	15.9850
Cu 324.754	-0.1597u	0.5304	0.0903
Fe 271.441	143.866	142.050	141.774
K 766.491	2597.97	2605.05	2602.91
Mg 279.078	2379.35	2382.03	2382.71
Mn 257.610	3.8892	3.9133	3.8928
Mo 202.032	-0.2780u	0.5202	0.2702
Na 330.237	10184.5	9853.05	10023.8
Ni 231.604	4.6310	5.5727	4.9929
Pb 220.353	0.9131	0.7928	4.7499
Sb 206.834	3.2653	0.2796	6.3178
Se 196.026	-2.1910u	-7.0874u	7.1854
Sn 189.925	-0.8143u	-2.4984u	-1.4059u
Sr 216.596	33.3225	33.9165	33.6683
Ti 334.941	2.8697	2.3415	2.4172
Tl 190.794	-0.0437u	-5.2871u	-4.7436u
V 292.401	0.5537	0.7279	0.4723
Zn 206.200	6.3576	5.7064	6.3419

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1533	ppb	0.3746	244.4	-44.8009
Al 308.215	172.942	ppb	0.5485	0.3	1276.30
As 188.980	0.4594	ppb	4.6607	1014.4	-1.9620
B 249.678	17.2968	ppb	0.7500	4.3	208.201
Ba 389.178	118.009	ppb	0.3783	0.3	3099.87
Be 313.042	0.1729	ppb	0.0009	0.5	86.6338
Ca 370.602	1180	ppb	2.907	0.2	4320
Cd 226.502	0.1681	ppb	0.0574	34.1	15.8999
Co 228.615	1.4092	ppb	0.1416	10.0	32.3662
Cr 267.716	15.9617	ppb	0.0956	0.6	737.139
Cu 324.754	0.1537	ppb	0.3494	227.4	173.841
Fe 271.441	142.563	ppb	1.1363	0.8	256.176
K 766.491	2601.98	ppb	3.6311	0.1	159404
Mg 279.078	2381.36	ppb	1.7734	0.1	5234.32
Mn 257.610	3.8984	ppb	0.0130	0.3	1003.02
Mo 202.032	0.1708	ppb	0.4083	239.1	10.9679
Na 330.237	10020.4	ppb	165.738	1.7	531.317
Ni 231.604	5.0655	ppb	0.4750	9.4	12.0770
Pb 220.353	2.1519	ppb	2.2507	104.6	4.3581
Sb 206.834	3.2876	ppb	3.0191	91.8	0.3918
Se 196.026	-0.6977	ppb	7.2527	1039.5	0.2858
Sn 189.925	-1.5729	ppb	0.8543	54.3	-1.9240
Sr 216.596	33.6358	ppb	0.2983	0.9	369.540
Ti 334.941	2.5428	ppb	0.2856	11.2	652.193
Tl 190.794	-3.3581	ppb	2.8832	85.9	-3.1947
V 292.401	0.5846	ppb	0.1306	22.3	20.2067
Zn 206.200	6.1353	ppb	0.3715	6.1	410.2099

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

640-42709-d-1-a (Samp) 3/22/2013, 12:40:07 AM Rack 3, Tube 35

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8877u	-0.1014u	-0.7135u
Al 308.215	2.7659	1.1175	2.9180
As 188.980	-0.0321	-0.1298	7.0259
B 249.678	632.121	635.719	638.430
Ba 389.178	53.1423	54.4661	53.6689
Be 313.042	-0.0107u	-0.0062u	-0.0149u
Ca 370.602	22870	22844	22811
Cd 226.502	-0.2433u	0.1682	0.1299
Co 228.615	2.8960	2.2269	2.2896
Cr 267.716	-0.2435u	0.2559	0.0005
Cu 324.754	12.1850	12.3875	13.0419
Fe 271.441	41.2133	43.8210	41.8035
K 766.491	37997.2x	38102.8x	38115.6x
Mg 279.078	19456.2	19431.1	19420.6
Mn 257.610	85.7224	85.4361	85.6110
Mo 202.032	0.3662	-0.0360u	0.6551
Na 330.237	111031x	110886x	110954x
Ni 231.604	5.4526	5.1073	4.9267
Pb 220.353	1.3639	-1.9945u	-0.1714u
Sb 206.834	1.9754	0.5541	4.2519
Se 196.026	-5.1387u	4.7904	-3.0826u
Sn 189.925	-1.6092u	0.7138	-1.4830u
Sr 216.596	53.0164	51.8035	52.3900
Ti 334.941	0.0141	-0.0181	0.0317
Tl 190.794	-3.3423u	1.2909	7.0160
V 292.401	0.1207	-0.1832u	-0.6993u
Zn 206.200	2.4775	0.8636	1.4083

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5675b	ppb	0.4130	72.8	-96.9638
Al 308.215	2.2672b	ppb	0.9985	44.0	279.288
As 188.980	2.2880b	ppb	4.1035	179.3	-0.6383
B 249.678	635.424b	ppb	3.1647	0.5	6058.82
Ba 389.178	53.7591b	ppb	0.6665	1.2	1453.74
Be 313.042	-0.0106b	ppb	0.0044	41.3	-301.465
Ca 370.602	22842b	ppb	30.00	0.1	83911
Cd 226.502	0.0182b	ppb	0.2273	1246.0	9.3492
Co 228.615	2.4708b	ppb	0.3696	15.0	45.8228
Cr 267.716	0.0043b	ppb	0.2497	5763.6	9.9928
Cu 324.754	12.5381b	ppb	0.4479	3.6	823.241
Fe 271.441	42.2793b	ppb	1.3674	3.2	81.0826
K 766.491	38071.9xb	ppb	64.9957	0.2	2328219
Mg 279.078	19436.0b	ppb	18.2951	0.1	42506.8
Mn 257.610	85.5898b	ppb	0.1443	0.2	20385.8
Mo 202.032	0.3284b	ppb	0.3471	105.7	12.1314
Na 330.237	110957xb	ppb	72.6501	0.1	5946.40
Ni 231.604	5.1622b	ppb	0.2672	5.2	12.3315
Pb 220.353	-0.2673b	ppb	1.6812	628.9	0.2464
Sb 206.834	2.2604b	ppb	1.8653	82.5	-0.8046
Se 196.026	-1.1436b	ppb	5.2409	458.3	0.0967
Sn 189.925	-0.7928b	ppb	1.3063	164.8	-1.1494
Sr 216.596	52.4033b	ppb	0.6065	1.2	574.546
Ti 334.941	0.0092b	ppb	0.0252	273.4	-32.5391
Tl 190.794	1.6549b	ppb	5.1887	313.5	0.5098
V 292.401	-0.2539b	ppb	0.4145	163.2	-4.6883
Zn 206.200	1.5831b	ppb	0.8210	51.8	4.0501

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

640-42709-d-2-a (Samp) 3/22/2013, 12:45:33 AM Rack 3, Tube 36
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3319u	-0.3710u	0.2156
Al 308.215	245.911	247.264	246.286
As 188.980	4.4711	1.8478	0.7979
B 249.678	49.1052	48.4608	48.5478
Ba 389.178	30.3058	30.2953	30.5253
Be 313.042	0.0679	0.0703	0.0716
Ca 370.602	6734	6743	6717
Cd 226.502	0.1752	0.1699	0.2308
Co 228.615	0.9946	0.6960	0.7127
Cr 267.716	0.9857	1.1251	0.9893
Cu 324.754	8.5547	8.1622	8.4991
Fe 271.441	91.0354	95.2273	86.5970
K 766.491	643.764	643.138	643.401
Mg 279.078	4359.06	4356.86	4333.58
Mn 257.610	2.7464	2.6508	2.7567
Mo 202.032	-0.9393u	0.2087	0.0646
Na 330.237	32884.5	32723.7	32948.5
Ni 231.604	2.8536	2.2051	3.1903
Pb 220.353	2.3961	1.6838	2.2270
Sb 206.834	7.0999	5.3172	1.9224
Se 196.026	-10.2975u	-4.4596u	-8.9506u
Sn 189.925	0.6635	-2.8056u	-0.1035u
Sr 216.596	42.2099	42.8343	42.4552
Ti 334.941	5.3416	5.3014	5.3407
Tl 190.794	-0.0419u	-0.7648u	-1.3729u
V 292.401	-0.0743u	0.0200	0.2203
Zn 206.200	7.0225	9.1212	7.6087

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1625	ppb	0.3280	201.9	-67.7149
Al 308.215	246.487	ppb	0.6985	0.3	1705.94
As 188.980	2.3723	ppb	1.8919	79.8	-0.7219
B 249.678	48.7046	ppb	0.3497	0.7	505.520
Ba 389.178	30.3754	ppb	0.1299	0.4	790.259
Be 313.042	0.0699	ppb	0.0019	2.7	-127.766
Ca 370.602	6731	ppb	12.98	0.2	24720
Cd 226.502	0.1920	ppb	0.0337	17.6	16.5892
Co 228.615	0.8011	ppb	0.1678	20.9	24.6355
Cr 267.716	1.0334	ppb	0.0795	7.7	55.3552
Cu 324.754	8.4053	ppb	0.2124	2.5	606.534
Fe 271.441	90.9532	ppb	4.3157	4.7	165.905
K 766.491	643.434	ppb	0.3143	0.0	39648.4
Mg 279.078	4349.83	ppb	14.1189	0.3	9536.50
Mn 257.610	2.7180	ppb	0.0584	2.1	733.946
Mo 202.032	-0.2220	ppb	0.6254	281.7	8.0902
Na 330.237	32852.2	ppb	115.835	0.4	1756.17
Ni 231.604	2.7497	ppb	0.5007	18.2	5.9228
Pb 220.353	2.1023	ppb	0.3721	17.7	4.2702
Sb 206.834	4.7798	ppb	2.6303	55.0	1.7570
Se 196.026	-7.9025	ppb	3.0568	38.7	-3.0892
Sn 189.925	-0.7486	ppb	1.8223	243.4	-1.1471
Sr 216.596	42.4998	ppb	0.3146	0.7	465.934
Ti 334.941	5.3279	ppb	0.0230	0.4	1495.40
Tl 190.794	-0.7265	ppb	0.6663	91.7	-1.2015
V 292.401	0.0554	ppb	0.1504	271.7	5.1164
Zn 206.200	7.9175	ppb	1.0829	13.7	430.6759

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

Cont Calib Verif (CCV) 3/22/2013, 12:51:00 AM Rack 3, Tube 37
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	508.780	508.013	514.318
Al 308.215	5038.67	4993.90	5018.28
As 188.980	477.206	490.265	479.733
B 249.678	2515.10	2539.44	2563.24
Ba 389.178	4964.01	4967.00	4989.97
Be 313.042	501.678	500.676	504.367
Ca 370.602	5015	5023	5047
Cd 226.502	504.454	503.958	506.399
Co 228.615	502.045	500.370	502.477
Cr 267.716	5089.26	5077.29	5108.35
Cu 324.754	4789.02	4968.24	5031.02
Fe 271.441	5024.88	5033.91	5049.27
K 766.491	9742.57	9802.98	9868.70
Mg 279.078	4982.01	4987.69	5003.51
Mn 257.610	5012.00	5010.11	5039.72
Mo 202.032	499.018	499.824	501.776
Na 330.237	7623.49	7747.35	7505.55
Ni 231.604	2530.27	2533.57	2542.20
Pb 220.353	516.846	517.544	521.974
Sb 206.834	931.707	928.357	934.022
Se 196.026	5002.77	4985.06	5022.09
Sn 189.925	5109.80	5059.85	5092.06
Sr 216.596	2540.16	2533.55	2547.94
Ti 334.941	497.026	497.330	500.443
Tl 190.794	5176.16	5179.18	5197.71
V 292.401	4988.95	4989.34	5017.44
Zn 206.200	2568.92	2572.52	2575.68

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	510.370	ppb	3.4403	0.7	36304.7	102.07410
Al 308.215	5016.95	ppb	22.4187	0.4	29551.3	100.33900
As 188.980	482.401	ppb	6.9267	1.4	298.477	96.48024
B 249.678	2539.26	ppb	24.0676	0.9	24073.5	101.57047
Ba 389.178	4973.66	ppb	14.2032	0.3	131428	99.47318
Be 313.042	502.241	ppb	1.9086	0.4	1041079	100.44811
Ca 370.602	5028	ppb	16.24	0.3	18315	100.56654
Cd 226.502	504.937	ppb	1.2905	0.3	19946.3	100.98738
Co 228.615	501.631	ppb	1.1128	0.2	6423.73	100.32611
Cr 267.716	5091.63	ppb	15.6632	0.3	232648	101.83270
Cu 324.754	4929.43	ppb	125.582	2.5	258621	98.58855
Fe 271.441	5036.02	ppb	12.3305	0.2	8935.83	100.72041
K 766.491	9804.75	ppb	63.0826	0.6	599819	98.04749
Mg 279.078	4991.07	ppb	11.1408	0.2	10854.3	99.82143
Mn 257.610	5020.61	ppb	16.5777	0.3	1186050	100.41222
Mo 202.032	500.206	ppb	1.4181	0.3	3669.53	100.04120
Na 330.237	7625.46	ppb	120.914	1.6	377.574	101.67285
Ni 231.604	2535.34	ppb	6.1589	0.2	6734.89	101.41379
Pb 220.353	518.788	ppb	2.7811	0.5	887.047	103.75764
Sb 206.834	931.362	ppb	2.8482	0.3	985.725	93.13620
Se 196.026	5003.31	ppb	18.5181	0.4	2345.53	100.06612
Sn 189.925	5087.24	ppb	25.3205	0.5	4722.38	101.74474
Sr 216.596	2540.55	ppb	7.2049	0.3	27410.0	101.62202
Ti 334.941	498.266	ppb	1.8911	0.4	149372	99.65324
Tl 190.794	5184.35	ppb	11.6669	0.2	3916.09	103.68697
V 292.401	4998.58	ppb	16.3375	0.3	149970	99.97160
Zn 206.200	2572.37	ppb	3.3810	0.1	3492.96	102.89491

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

Cont Calib Blank (CCB) 3/22/2013, 12:56:27 AM Rack 3, Tube 38

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5529u	-0.6212u	-0.1581u
Al 308.215	-3.9388u	-3.7090u	-4.7862u
As 188.980	5.6168	4.6231	5.1202
B 249.678	27.3851	23.7626	21.8070
Ba 389.178	-0.3606u	0.5789	0.7363
Be 313.042	0.0649	0.0557	0.0635
Ca 370.602	0.7800	2.538	4.181
Cd 226.502	0.0991	0.0720	0.0608
Co 228.615	0.5627	-0.3554u	0.2690
Cr 267.716	0.7418	0.4168	0.4414
Cu 324.754	0.4187	-0.6846u	-0.0725u
Fe 271.441	-9.6095u	-0.7759u	-3.3891u
K 766.491	-0.0827u	0.5193	0.2311
Mg 279.078	-5.8977u	-0.7613u	-4.1844u
Mn 257.610	0.6097	0.5116	0.5001
Mo 202.032	0.7033	-0.1551u	0.5598
Na 330.237	-94.3830u	241.130	33.5797
Ni 231.604	1.1440	2.3121	0.3781
Pb 220.353	0.2724	-1.4200u	2.0017
Sb 206.834	12.6108	7.6763	8.9505
Se 196.026	2.6023	-3.1444u	7.3001
Sn 189.925	1.7431	1.7476	3.1019
Sr 216.596	0.5839	0.5431	0.8448
Ti 334.941	0.2891	0.1783	0.2011
Tl 190.794	-1.3832u	1.6812	2.1014
V 292.401	0.7955	0.4498	0.3254
Zn 206.200	0.7501	1.1901	0.3048

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.4441	ppb	0.2499	56.3	-86.0099	-0.44405
Al 308.215	-4.1447	ppb	0.5674	13.7	241.852	-4.14466
As 188.980	5.1201	ppb	0.4969	9.7	0.9363	5.12006
B 249.678	24.3183	ppb	2.8303	11.6	274.789	24.31825
Ba 389.178	0.3182	ppb	0.5931	186.4	-17.2330	0.31820
Be 313.042	0.0614	ppb	0.0050	8.1	-143.633	0.06138
Ca 370.602	2.500	ppb	1.701	68.0	6.764	2.49970
Cd 226.502	0.0773	ppb	0.0197	25.5	11.9758	0.07728
Co 228.615	0.1588	ppb	0.4689	295.3	16.2807	0.15876
Cr 267.716	0.5333	ppb	0.1810	33.9	31.9003	0.53333
Cu 324.754	-0.1128	ppb	0.5527	490.0	159.832	-0.11282
Fe 271.441	-4.5915	ppb	4.5379	98.8	-1.1512	-4.59150
K 766.491	0.2226	ppb	0.3011	135.3	318.995	0.22256
Mg 279.078	-3.6145	ppb	2.6152	72.4	21.9129	-3.61447
Mn 257.610	0.5405	ppb	0.0603	11.1	197.360	0.54049
Mo 202.032	0.3693	ppb	0.4598	124.5	12.4319	0.36933
Na 330.237	60.1090	ppb	169.323	281.7	-2.9230	60.10898
Ni 231.604	1.2781	ppb	0.9739	76.2	2.0110	1.27807
Pb 220.353	0.2847	ppb	1.7109	600.9	1.1713	0.28472
Sb 206.834	9.7459	ppb	2.5616	26.3	6.7695	9.74586
Se 196.026	2.2526	ppb	5.2310	232.2	1.6680	2.25264
Sn 189.925	2.1975	ppb	0.7832	35.6	1.5718	2.19755
Sr 216.596	0.6573	ppb	0.1637	24.9	12.9151	0.65725
Ti 334.941	0.2228	ppb	0.0585	26.3	-54.6398	0.22283
Tl 190.794	0.7998	ppb	1.9022	237.8	-0.0415	0.79981
V 292.401	0.5235	ppb	0.2436	46.5	19.3218	0.52355
Zn 206.200	0.7483	ppb	0.4427	59.2	2.9115	0.74833

640-42709-d-3-a (Samp) 3/22/2013, 1:01:54 AM Rack 3, Tube 39
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4351u	-0.1251u	-0.4552u
Al 308.215	3667.12	3683.26	3692.45
As 188.980	0.2373	3.1180	9.8365
B 249.678	304.630	308.887	310.818
Ba 389.178	23.2254	23.8260	25.2702
Be 313.042	0.0301	0.0295	0.0400
Ca 370.602	9079	9125	9133
Cd 226.502	0.0838	-0.0522	0.3037
Co 228.615	-0.1375	0.1584	0.1260
Cr 267.716	3.2803	3.3655	3.3399
Cu 324.754	1.4212	1.6652	1.5787
Fe 271.441	3162.30	3178.79	3166.62
K 766.491	15833.7	15924.2	15970.8
Mg 279.078	8074.39	8104.75	8089.37
Mn 257.610	100.692	101.190	101.025
Mo 202.032	0.5793	0.6000	0.2971
Na 330.237	48386.4	48561.0	48620.2
Ni 231.604	4.0731	2.9294	1.8399
Pb 220.353	5.1976	6.6333	4.9785
Sb 206.834	-1.7283u	6.3529	6.0850
Se 196.026	-4.7743u	0.1021	5.4246
Sn 189.925	-0.5848u	-1.1521u	4.1650
Sr 216.596	29.0353	29.6174	29.3187
Ti 334.941	78.5750	77.6516	78.0180
Tl 190.794	-0.9687u	-2.4496u	-4.7799u
V 292.401	4.1622	4.0091	4.0525
Zn 206.200	15.4795	15.2075	15.4196

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3385	ppb	0.1851	54.7	-79.3645
Al 308.215	3680.94	ppb	12.8229	0.3	21769.1
As 188.980	4.3973	ppb	4.9258	112.0	0.5294
B 249.678	308.112	ppb	3.1661	1.0	2957.89
Ba 389.178	24.1072	ppb	1.0510	4.4	640.960
Be 313.042	0.0332	ppb	0.0059	17.7	-206.000
Ca 370.602	9113	ppb	29.28	0.3	33197
Cd 226.502	0.1118	ppb	0.1796	160.7	21.2953
Co 228.615	0.0489	ppb	0.1623	331.6	17.0000
Cr 267.716	3.3285	ppb	0.0437	1.3	161.728
Cu 324.754	1.5550	ppb	0.1237	8.0	248.240
Fe 271.441	3169.24	ppb	8.5482	0.3	5545.67
K 766.491	15909.6	ppb	69.7178	0.4	973100
Mg 279.078	8089.50	ppb	15.1789	0.2	17707.6
Mn 257.610	100.969	ppb	0.2538	0.3	23969.8
Mo 202.032	0.4922	ppb	0.1693	34.4	13.1656
Na 330.237	48522.6	ppb	121.561	0.3	2595.24
Ni 231.604	2.9475	ppb	1.1167	37.9	6.5142
Pb 220.353	5.6031	ppb	0.8989	16.0	10.1683
Sb 206.834	3.5698	ppb	4.5903	128.6	0.6201
Se 196.026	0.2508	ppb	5.1010	2034.0	0.7332
Sn 189.925	0.8093	ppb	2.9199	360.8	0.3066
Sr 216.596	29.3238	ppb	0.2911	1.0	324.978
Ti 334.941	78.0815	ppb	0.4649	0.6	23337.5
Tl 190.794	-2.7327	ppb	1.9213	70.3	-2.9456
V 292.401	4.0746	ppb	0.0789	1.9	126.955
Zn 206.200	15.3689	ppb	0.1429	0.9	228205

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

640-42709-d-4-a (Samp) 3/22/2013, 1:07:21 AM Rack 3, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1579	-0.5551u	-0.4067u
Al 308.215	34.5844	34.9633	35.2763
As 188.980	0.4865	-4.0116u	4.8729
B 249.678	10.5510	10.3868	9.8678
Ba 389.178	4.5991	5.3063	4.2875
Be 313.042	0.0161	0.0021	0.0129
Ca 370.602	673.6	685.6	671.6
Cd 226.502	0.0941	0.1720	0.1112
Co 228.615	2.5264	3.0666	3.1167
Cr 267.716	2.2584	2.0271	2.2654
Cu 324.754	25.3969	26.6398	26.6383
Fe 271.441	65.6171	63.8075	66.3296
K 766.491	194.093	195.679	192.743
Mg 279.078	567.799	571.753	555.026
Mn 257.610	2.9982	2.9870	2.8928
Mo 202.032	1.6909	1.4490	1.3907
Na 330.237	1903.94	1704.69	1679.24
Ni 231.604	8.1980	9.3496	8.9985
Pb 220.353	1.3733	0.3919	0.6533
Sb 206.834	-0.2343u	2.3258	-0.2052u
Se 196.026	-2.0880u	-13.7547u	-7.8692u
Sn 189.925	-1.2815u	1.0262	1.3431
Sr 216.596	6.8544	6.3656	5.8572
Ti 334.941	1.0192	1.0221	0.9685
Tl 190.794	1.3885	3.4477	5.2265
V 292.401	-0.0344u	0.1076	0.0381
Zn 206.200	22.3319	19.7396	20.3015

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2680	ppb	0.3762	140.4	-73.6682
Al 308.215	34.9413	ppb	0.3465	1.0	470.361
As 188.980	0.4493	ppb	4.4424	988.8	-1.9722
B 249.678	10.2686	ppb	0.3566	3.5	141.748
Ba 389.178	4.7310	ppb	0.5220	11.0	101.195
Be 313.042	0.0104	ppb	0.0073	70.8	-249.597
Ca 370.602	676.9	ppb	7.607	1.1	2478
Cd 226.502	0.1258	ppb	0.0410	32.6	14.0593
Co 228.615	2.9033	ppb	0.3273	11.3	51.2784
Cr 267.716	2.1837	ppb	0.1356	6.2	107.374
Cu 324.754	26.2250	ppb	0.7172	2.7	1541.01
Fe 271.441	65.2514	ppb	1.3002	2.0	121.334
K 766.491	194.172	ppb	1.4697	0.8	12178.1
Mg 279.078	564.859	ppb	8.7422	1.5	1264.30
Mn 257.610	2.9593	ppb	0.0579	2.0	771.794
Mo 202.032	1.5102	ppb	0.1592	10.5	20.7990
Na 330.237	1762.63	ppb	123.044	7.0	88.2327
Ni 231.604	8.8487	ppb	0.5903	6.7	22.1268
Pb 220.353	0.8062	ppb	0.5082	63.0	2.0590
Sb 206.834	0.6288	ppb	1.4698	233.8	-2.4526
Se 196.026	-7.9040	ppb	5.8334	73.8	-3.0897
Sn 189.925	0.3626	ppb	1.4326	395.1	-0.1307
Sr 216.596	6.3591	ppb	0.4987	7.8	74.4760
Ti 334.941	1.0033	ppb	0.0301	3.0	182.128
Tl 190.794	3.3542	ppb	1.9207	57.3	1.8854
V 292.401	0.0371	ppb	0.0710	191.6	4.3048
Zn 206.200	20.7910	ppb	1.3637	6.6	30.2094

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

640-42709-d-5-a (Samp) 3/22/2013, 1:12:48 AM Rack 3, Tube 41

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0279	-0.2455u	-0.1005u
Al 308.215	223.266	222.487	223.616
As 188.980	3.9660	4.9326	1.0248
B 249.678	73.4729	74.1312	74.6199
Ba 389.178	46.7804	46.2526	47.0030
Be 313.042	0.2174	0.2235	0.2176
Ca 370.602	2115	2102	2095
Cd 226.502	0.2192	0.0971	0.4123
Co 228.615	4.4233	4.4097	3.9830
Cr 267.716	0.1900	0.1209	0.1950
Cu 324.754	0.8095	0.8284	0.2690
Fe 271.441	156.965	164.114	166.266
K 766.491	223.699	223.661	224.094
Mg 279.078	5268.27	5269.04	5232.75
Mn 257.610	497.829	497.477	496.059
Mo 202.032	-0.2152u	0.2962	0.3154
Na 330.237	23421.3	23379.4	23722.8
Ni 231.604	3.4599	3.5102	2.3708
Pb 220.353	3.5714	1.7128	0.2907
Sb 206.834	2.6134	7.1132	6.7007
Se 196.026	1.7685	-2.1674u	9.2810
Sn 189.925	-2.2556u	1.1078	1.4168
Sr 216.596	18.2385	18.2956	18.8134
Ti 334.941	1.0136	1.0022	0.9588
Tl 190.794	4.8499	4.1880	1.8449
V 292.401	0.0093	0.2168	-0.2157u
Zn 206.200	21.0656	19.0294	20.1268

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1060	ppb	0.1368	129.0	-60.5667
Al 308.215	223.123	ppb	0.5783	0.3	1569.47
As 188.980	3.3078	ppb	2.0354	61.5	-0.1780
B 249.678	74.0747	ppb	0.5756	0.8	745.572
Ba 389.178	46.6787	ppb	0.3854	0.8	1223.89
Be 313.042	0.2195	ppb	0.0034	1.6	181.745
Ca 370.602	2104	ppb	9.949	0.5	7728
Cd 226.502	0.2429	ppb	0.1589	65.4	18.8583
Co 228.615	4.2720	ppb	0.2504	5.9	68.7875
Cr 267.716	0.1687	ppb	0.0414	24.6	17.7166
Cu 324.754	0.6357	ppb	0.3177	50.0	199.132
Fe 271.441	162.448	ppb	4.8689	3.0	291.399
K 766.491	223.818	ppb	0.2396	0.1	13990.8
Mg 279.078	5256.69	ppb	20.7353	0.4	11510.3
Mn 257.610	497.122	ppb	0.9369	0.2	117524
Mo 202.032	0.1321	ppb	0.3010	227.8	10.6846
Na 330.237	23507.8	ppb	187.373	0.8	1254.78
Ni 231.604	3.1136	ppb	0.6438	20.7	6.8914
Pb 220.353	1.8583	ppb	1.6452	88.5	3.9643
Sb 206.834	5.4758	ppb	2.4874	45.4	2.4541
Se 196.026	2.9607	ppb	5.8166	196.5	2.1146
Sn 189.925	0.0897	ppb	2.0369	2271.8	-0.3748
Sr 216.596	18.4492	ppb	0.3167	1.7	205.501
Ti 334.941	0.9915	ppb	0.0289	2.9	199.829
Tl 190.794	3.6276	ppb	1.5789	43.5	1.5434
V 292.401	0.0034	ppb	0.2163	6288.5	3.6143
Zn 206.200	20.0739	ppb	1.0191	5.1	20.2380

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

640-42709-d-6-a (Samp) 3/22/2013, 1:18:15 AM Rack 3, Tube 42

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6373u	-0.7760u	-0.3971u
Al 308.215	-1.6659u	-4.3372u	-3.6914u
As 188.980	-2.7376u	5.2863	2.3590
B 249.678	0.8570	1.9775	1.7422
Ba 389.178	-0.2829u	-0.7384u	-0.9063u
Be 313.042	-0.0021u	0.0025	-0.0048u
Ca 370.602	9.070	5.692	5.964
Cd 226.502	0.1020	0.0045	0.0056
Co 228.615	-0.4299u	-0.0701u	-0.1497u
Cr 267.716	0.0375	0.0479	-0.0626u
Cu 324.754	0.7756	-1.2256u	-0.5915u
Fe 271.441	3.6700	2.3035	-2.0150u
K 766.491	-0.0186u	-0.2984u	0.1786
Mg 279.078	-1.9293u	-2.4793u	-3.7602u
Mn 257.610	0.2581	0.2252	0.2119
Mo 202.032	-0.6884u	0.1713	0.3234
Na 330.237	126.270	-11.3245u	14.5605
Ni 231.604	0.7189	1.8005	2.8915
Pb 220.353	-0.0660u	-0.7053u	-1.4983u
Sb 206.834	5.3110	3.6375	0.8469
Se 196.026	-3.0553u	-3.7663u	1.7043
Sn 189.925	-0.1371u	-3.0068u	-0.9985u
Sr 216.596	0.1071	-0.2069u	0.6766
Ti 334.941	0.1890	0.2766	0.2181
Tl 190.794	-0.8439u	0.5668	1.5954
V 292.401	-0.0656u	-0.2189u	0.0085
Zn 206.200	1.0668	0.1664	0.2402

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6035	ppb	0.1917	31.8	-97.3806
Al 308.215	-3.2315	ppb	1.3938	43.1	247.127
As 188.980	1.6359	ppb	4.0605	248.2	-1.2366
B 249.678	1.5256	ppb	0.5908	38.7	59.0592
Ba 389.178	-0.6425	ppb	0.3226	50.2	-42.6200
Be 313.042	-0.0015	ppb	0.0037	253.0	-273.862
Ca 370.602	6.909	ppb	1.876	27.2	22.87
Cd 226.502	0.0374	ppb	0.0560	149.8	10.4025
Co 228.615	-0.2165	ppb	0.1890	87.3	11.5096
Cr 267.716	0.0076	ppb	0.0610	803.1	7.8820
Cu 324.754	-0.3472	ppb	1.0227	294.6	147.534
Fe 271.441	1.3195	ppb	2.9675	224.9	9.1352
K 766.491	-0.0461	ppb	0.2397	519.9	302.567
Mg 279.078	-2.7229	ppb	0.9394	34.5	23.8663
Mn 257.610	0.2318	ppb	0.0238	10.3	124.437
Mo 202.032	-0.0646	ppb	0.5456	845.1	9.2499
Na 330.237	43.1687	ppb	73.1224	169.4	-3.8316
Ni 231.604	1.8037	ppb	1.0863	60.2	3.4074
Pb 220.353	-0.7566	ppb	0.7175	94.8	-0.6073
Sb 206.834	3.2651	ppb	2.2553	69.1	0.2151
Se 196.026	-1.7058	ppb	2.9745	174.4	-0.1864
Sn 189.925	-1.3808	ppb	1.4726	106.6	-1.7503
Sr 216.596	0.1923	ppb	0.4479	232.9	7.9125
Ti 334.941	0.2279	ppb	0.0446	19.6	-53.1201
Tl 190.794	0.4394	ppb	1.2246	278.7	-0.3138
V 292.401	-0.0920	ppb	0.1160	126.1	0.9483
Zn 206.200	0.4911	ppb	0.4999	301.8	430.5626

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

mb 680-270170/1-a (Samp) **3/22/2013, 1:23:42 AM** **Rack 3, Tube 43**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.5461u	-0.7708u	-0.0635u
Al 308.215	0.6647	1.5755	0.0350
As 188.980	-0.6954u	8.3569	-0.1772u
B 249.678	1.7345	2.2742	1.6950
Ba 389.178	-0.5338u	-0.9459u	-1.0311u
Be 313.042	-0.0058u	-0.0080u	-0.0152u
Ca 370.602	20.85	25.78	22.78
Cd 226.502	-0.0002	0.2074	0.0114
Co 228.615	0.2399	0.3311	1.0861
Cr 267.716	0.4369	0.3513	0.3887
Cu 324.754	-0.3954u	-0.0804u	-0.5979u
Fe 271.441	8.4529	8.0160	8.9208
K 766.491	7.3581	7.6879	6.6974
Mg 279.078	1.0639	-1.4905u	1.1606
Mn 257.610	0.0979	0.0441	0.0367
Mo 202.032	0.3155	-0.1693u	0.2092
Na 330.237	127.532	218.459	370.494
Ni 231.604	0.9245	0.2240	1.4761
Pb 220.353	-0.9128u	2.5097	1.3677
Sb 206.834	4.9045	4.1701	4.7515
Se 196.026	-4.3563u	-0.5782u	-8.0992u
Sn 189.925	10.9853	15.9285	11.6324
Sr 216.596	-0.0965u	-0.0333u	0.2970
Ti 334.941	0.1372	0.2105	0.1923
Tl 190.794	-3.2496u	-2.9181u	2.1933
V 292.401	-0.4384u	0.1056	0.2059
Zn 206.200	1.8010	0.1195	1.9679

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4601	ppb	0.3614	78.5	-87.1292
Al 308.215	0.7584	ppb	0.7745	102.1	270.504
As 188.980	2.4948	ppb	5.0834	203.8	-0.7010
B 249.678	1.9012	ppb	0.3236	17.0	62.6034
Ba 389.178	-0.8369	ppb	0.2659	31.8	-47.7253
Be 313.042	-0.0097	ppb	0.0049	50.7	-290.957
Ca 370.602	23.14	ppb	2.483	10.7	81.34
Cd 226.502	0.0729	ppb	0.1166	160.1	11.8337
Co 228.615	0.5524	ppb	0.4645	84.1	21.2945
Cr 267.716	0.3923	ppb	0.0429	10.9	25.4651
Cu 324.754	-0.3579	ppb	0.2608	72.9	146.992
Fe 271.441	8.4632	ppb	0.4525	5.3	21.6279
K 766.491	7.2478	ppb	0.5044	7.0	748.554
Mg 279.078	0.2447	ppb	1.5035	614.5	30.3561
Mn 257.610	0.0596	ppb	0.0334	56.1	83.8112
Mo 202.032	0.1185	ppb	0.2548	215.1	10.5918
Na 330.237	238.828	ppb	122.755	51.4	6.6579
Ni 231.604	0.8749	ppb	0.6275	71.7	0.9400
Pb 220.353	0.9882	ppb	1.7425	176.3	2.3732
Sb 206.834	4.6087	ppb	0.3875	8.4	1.5739
Se 196.026	-4.3446	ppb	3.7605	86.6	-1.4226
Sn 189.925	12.8487	ppb	2.6867	20.9	11.4601
Sr 216.596	0.0557	ppb	0.2113	379.3	6.4266
Ti 334.941	0.1800	ppb	0.0382	21.2	-67.4794
Tl 190.794	-1.3248	ppb	3.0512	230.3	-1.6484
V 292.401	-0.0423	ppb	0.3467	819.8	2.2988
Zn 206.200	1.2961	ppb	1.0224	78.9	3.6579

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

ics 680-270170/2-a (Samp) 3/22/2013, 1:29:09 AM Rack 3, Tube 44
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	16.8577	15.8669	17.4969
Al 308.215	4746.36	4753.71	4726.82
As 188.980	107.060	105.727	102.522
B 249.678	189.718	190.235	191.700
Ba 389.178	97.8689	97.8273	97.6380
Be 313.042	49.4774	49.5270	49.2092
Ca 370.602	4794	4783	4756
Cd 226.502	50.4269	50.7540	50.5188
Co 228.615	49.5799	49.4913	49.6081
Cr 267.716	100.549	100.951	100.122
Cu 324.754	96.0042	96.3552	94.8396
Fe 271.441	4886.12	4897.73	4880.20
K 766.491	4905.16	4917.89	4877.34
Mg 279.078	4838.27	4838.42	4810.58
Mn 257.610	501.344	502.691	500.250
Mo 202.032	95.9692	96.8515	96.2183
Na 330.237	4883.85	4731.59	5061.22
Ni 231.604	99.8940	98.6096	100.104
Pb 220.353	53.3861	52.2134	50.7669
Sb 206.834	53.1872	51.3694	51.2242
Se 196.026	91.3959	88.1478	86.5641
Sn 189.925	205.936	204.229	204.941
Sr 216.596	101.543	100.617	99.4836
Ti 334.941	97.2927	97.3319	96.4559
Tl 190.794	36.1480	41.2667	45.5570
V 292.401	99.0950	99.5863	98.0564
Zn 206.200	104.788	103.248	105.192

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	16.7405	ppb	0.8213	4.9	1138.52
Al 308.215	4742.30	ppb	13.8971	0.3	27980.6
As 188.980	105.103	ppb	2.3326	2.2	63.2610
B 249.678	190.551	ppb	1.0282	0.5	1843.57
Ba 389.178	97.7781	ppb	0.1231	0.1	2581.18
Be 313.042	49.4045	ppb	0.1710	0.3	102173
Ca 370.602	4778	ppb	19.37	0.4	17130
Cd 226.502	50.5666	ppb	0.1687	0.3	2016.78
Co 228.615	49.5598	ppb	0.0609	0.1	645.787
Cr 267.716	100.540	ppb	0.4148	0.4	4603.93
Cu 324.754	95.7330	ppb	0.7934	0.8	5189.14
Fe 271.441	4888.01	ppb	8.9165	0.2	8558.32
K 766.491	4900.13	ppb	20.7353	0.4	299925
Mg 279.078	4829.09	ppb	16.0342	0.3	10575.2
Mn 257.610	501.428	ppb	1.2224	0.2	118552
Mo 202.032	96.3463	ppb	0.4549	0.5	716.099
Na 330.237	4892.22	ppb	164.970	3.4	253.210
Ni 231.604	99.5357	ppb	0.8089	0.8	263.176
Pb 220.353	52.1222	ppb	1.3120	2.5	89.5659
Sb 206.834	51.9269	ppb	1.0938	2.1	49.6016
Se 196.026	88.7026	ppb	2.4632	2.8	42.2506
Sn 189.925	205.036	ppb	0.8573	0.4	189.885
Sr 216.596	100.548	ppb	1.0313	1.0	1089.98
Ti 334.941	97.0268	ppb	0.4948	0.5	29008.6
Tl 190.794	40.9906	ppb	4.7106	11.5	29.6343
V 292.401	98.9126	ppb	0.7811	0.8	2953.89
Zn 206.200	104.409	ppb	1.0258	1.0	143.863

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

ics 680-270170/3-a (Samp) 3/22/2013, 1:34:37 AM Rack 3, Tube 45
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	220.821	220.522	217.983
Al 308.215	2008.53	2011.47	2011.56
As 188.980	214.885	221.030	220.096
B 249.678	399.802	400.979	406.980
Ba 389.178	202.133	201.271	202.294
Be 313.042	208.888	208.567	208.650
Ca 370.602	20218	20139	20107
Cd 226.502	206.564	206.087	206.499
Co 228.615	203.503	205.310	202.088
Cr 267.716	209.368	208.777	209.291
Cu 324.754	203.940	204.130	201.914
Fe 271.441	21316.7	21347.7	21358.0
K 766.491	20045.2	20039.3	19933.4
Mg 279.078	20529.7	20500.5	20530.5
Mn 257.610	2105.75	2107.62	2108.47
Mo 202.032	205.228	202.118	204.266
Na 330.237	17712.0	18146.4	17882.1
Ni 231.604	209.346	209.139	207.794
Pb 220.353	213.950	212.454	209.791
Sb 206.834	197.319	199.394	197.234
Se 196.026	200.035	194.667	196.515
Sn 189.925	220.724	221.718	216.408
Sr 216.596	222.203	221.540	220.153
Ti 334.941	205.891	205.245	205.013
Tl 190.794	50.4833	43.6110	57.6391
V 292.401	206.574	206.763	205.948
Zn 206.200	202.986	200.690	201.349

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	219.775	ppb	1.5592	0.7	15627.0
Al 308.215	2010.52	ppb	1.7251	0.1	12035.0
As 188.980	218.670	ppb	3.3116	1.5	134.026
B 249.678	402.587	ppb	3.8497	1.0	3834.97
Ba 389.178	201.899	ppb	0.5503	0.3	5407.25
Be 313.042	208.702	ppb	0.1668	0.1	432531
Ca 370.602	20155	ppb	57.18	0.3	72155
Cd 226.502	206.384	ppb	0.2587	0.1	8207.52
Co 228.615	203.634	ppb	1.6153	0.8	2610.52
Cr 267.716	209.145	ppb	0.3210	0.2	9575.04
Cu 324.754	203.328	ppb	1.2282	0.6	10838.4
Fe 271.441	21340.8	ppb	21.4797	0.1	37338.0
K 766.491	20006.0	ppb	62.9020	0.3	1223576
Mg 279.078	20520.2	ppb	17.1098	0.1	44846.3
Mn 257.610	2107.28	ppb	1.3942	0.1	498003
Mo 202.032	203.871	ppb	1.5922	0.8	1503.88
Na 330.237	17913.5	ppb	218.922	1.2	945.008
Ni 231.604	208.760	ppb	0.8426	0.4	553.718
Pb 220.353	212.065	ppb	2.1065	1.0	363.015
Sb 206.834	197.982	ppb	1.2235	0.6	198.533
Se 196.026	197.072	ppb	2.7271	1.4	93.2844
Sn 189.925	219.616	ppb	2.8229	1.3	203.433
Sr 216.596	221.299	ppb	1.0463	0.5	2397.79
Ti 334.941	205.383	ppb	0.4550	0.2	61590.8
Tl 190.794	50.5778	ppb	7.0145	13.9	34.5391
V 292.401	206.428	ppb	0.4268	0.2	6160.45
Zn 206.200	201.675	ppb	1.1824	0.6	476.081

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

640-42730-b-1-f (Samp) 3/22/2013, 1:40:04 AM Rack 3, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3494u	0.0067u	-0.4450u
Al 308.215	3574.11	3535.85	3569.73
As 188.980	-0.2636u	3.8144	0.3893
B 249.678	6.3047	5.6106	4.9317
Ba 389.178	21.8021	22.3911	22.2104
Be 313.042	0.0832	0.0885	0.0824
Ca 370.602	485.4	476.7	483.7
Cd 226.502	-0.0749u	0.0559	0.0102
Co 228.615	0.6066	0.6969	0.6148
Cr 267.716	5.8340	6.0567	6.2999
Cu 324.754	0.0727	-0.2260u	-0.8781u
Fe 271.441	690.936	685.995	700.770
K 766.491	118.781	118.143	117.380
Mg 279.078	222.558	217.772	227.086
Mn 257.610	7.5101	7.4109	7.4362
Mo 202.032	0.7308	0.8325	0.3903
Na 330.237	569.808	610.086	558.522
Ni 231.604	1.0623	3.7233	2.5422
Pb 220.353	7.8371	9.3377	9.3289
Sb 206.834	-1.0249u	7.1297	8.5213
Se 196.026	-3.7892u	10.5550	3.1260
Sn 189.925	12.6446	14.1169	9.6126
Sr 216.596	35.9767	35.8372	36.8144
Ti 334.941	104.593	103.253	104.412
Tl 190.794	0.7202	1.1539	-5.5838u
V 292.401	4.5324	4.7536	4.3237
Zn 206.200	1.2930	0.7083	2.0106

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2626	ppb	0.2380	90.7	-74.4933
Al 308.215	3559.90	ppb	20.9361	0.6	21062.0
As 188.980	1.3134	ppb	2.1904	166.8	-1.4410
B 249.678	5.6157	ppb	0.6865	12.2	97.1189
Ba 389.178	22.1346	ppb	0.3018	1.4	561.014
Be 313.042	0.0847	ppb	0.0033	3.9	-94.9085
Ca 370.602	481.9	ppb	4.613	1.0	1725
Cd 226.502	-0.0029	ppb	0.0664	2251.3	10.5902
Co 228.615	0.6394	ppb	0.0499	7.8	25.3679
Cr 267.716	6.0635	ppb	0.2331	3.8	284.990
Cu 324.754	-0.3438	ppb	0.4862	141.4	147.894
Fe 271.441	692.567	ppb	7.5214	1.1	1217.32
K 766.491	118.102	ppb	0.7013	0.6	7526.74
Mg 279.078	222.472	ppb	4.6573	2.1	514.932
Mn 257.610	7.4524	ppb	0.0516	0.7	1833.13
Mo 202.032	0.6512	ppb	0.2316	35.6	14.4569
Na 330.237	579.472	ppb	27.1063	4.7	23.8814
Ni 231.604	2.4426	ppb	1.3333	54.6	5.1210
Pb 220.353	8.8346	ppb	0.8639	9.8	15.6568
Sb 206.834	4.8754	ppb	5.1570	105.8	1.9123
Se 196.026	3.2972	ppb	7.1736	217.6	2.1545
Sn 189.925	12.1247	ppb	2.2967	18.9	10.7883
Sr 216.596	36.2094	ppb	0.5285	1.5	397.546
Ti 334.941	104.086	ppb	0.7270	0.7	31103.4
Tl 190.794	-1.2366	ppb	3.7710	305.0	-1.6144
V 292.401	4.5366	ppb	0.2149	4.7	141.442
Zn 206.200	1.3373	ppb	0.6523	48.8	3.6995

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

640-42730-b-1-fSD^5 (Samp) 3/22/2013, 1:45:31 AM Rack 3, Tube 47

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1282u	-0.8149u	-0.4897u
Al 308.215	744.392	754.607	753.653
As 188.980	6.0354	-2.6371u	1.6537
B 249.678	2.2607	0.5874	1.8919
Ba 389.178	4.0274	4.4340	3.8606
Be 313.042	0.0134	0.0201	0.0186
Ca 370.602	102.1	103.4	100.4
Cd 226.502	-0.0234u	0.0218	0.0034
Co 228.615	0.6335	0.3391	0.2674
Cr 267.716	1.0829	0.9769	1.1292
Cu 324.754	-0.5141u	-0.1455u	-0.8587u
Fe 271.441	146.362	147.402	148.606
K 766.491	24.3176	24.7724	24.1157
Mg 279.078	45.4566	44.4229	44.7997
Mn 257.610	1.4615	1.4719	1.4764
Mo 202.032	0.7185	0.1305	-0.0410u
Na 330.237	439.573	256.606	-33.6684u
Ni 231.604	0.3080	1.1600	1.4166
Pb 220.353	2.7340	-0.3737u	1.3165
Sb 206.834	9.9228	4.5653	0.9434
Se 196.026	3.7918	1.6106	-6.2920u
Sn 189.925	-0.6146u	5.7284	-0.5042u
Sr 216.596	7.0806	7.1111	7.6940
Ti 334.941	21.4636	21.7209	21.6375
Tl 190.794	-4.6708u	0.0249	-1.7514u
V 292.401	0.8018	0.4217	1.0086
Zn 206.200	1.4497	-1.0082u	0.6201

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4776	ppb	0.3435	71.9	-88.6931
Al 308.215	750.884	ppb	5.6423	0.8	4652.52
As 188.980	1.6840	ppb	4.3363	257.5	-1.2074
B 249.678	1.5800	ppb	0.8792	55.6	59.4396
Ba 389.178	4.1073	ppb	0.2950	7.2	83.2620
Be 313.042	0.0174	ppb	0.0035	20.4	-234.829
Ca 370.602	102.0	ppb	1.471	1.4	363.3
Cd 226.502	0.0006	ppb	0.0227	3829.1	9.3189
Co 228.615	0.4133	ppb	0.1940	46.9	20.1374
Cr 267.716	1.0630	ppb	0.0781	7.3	56.1882
Cu 324.754	-0.5061	ppb	0.3566	70.5	139.250
Fe 271.441	147.457	ppb	1.1229	0.8	264.549
K 766.491	24.4019	ppb	0.3364	1.4	1797.45
Mg 279.078	44.8931	ppb	0.5232	1.2	127.703
Mn 257.610	1.4699	ppb	0.0077	0.5	417.553
Mo 202.032	0.2693	ppb	0.3983	147.9	11.6905
Na 330.237	220.837	ppb	238.640	108.1	5.4857
Ni 231.604	0.9615	ppb	0.5803	60.4	1.1733
Pb 220.353	1.2256	ppb	1.5558	126.9	2.7532
Sb 206.834	5.1439	ppb	4.5176	87.8	2.1229
Se 196.026	-0.2965	ppb	5.3055	1789.2	0.4732
Sn 189.925	1.5365	ppb	3.6307	236.3	0.9583
Sr 216.596	7.2953	ppb	0.3457	4.7	84.7502
Ti 334.941	21.6073	ppb	0.1313	0.6	6360.51
Tl 190.794	-2.1324	ppb	2.3709	111.2	-2.2655
V 292.401	0.7440	ppb	0.2977	40.0	26.2880
Zn 206.200	0.3539	ppb	1.2504	353.3	2.3728

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

640-42730-b-1-fPDS (Samp) 3/22/2013, 1:50:58 AM Rack 3, Tube 48**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.3386	50.6341	52.1464
Al 308.215	5460.71	5462.16	5471.85
As 188.980	2238.35	2255.68	2243.81
B 249.678	1037.97	1048.93	1055.02
Ba 389.178	2128.62	2130.39	2133.16
Be 313.042	52.1613	52.2924	52.3332
Ca 370.602	5604	5612	5627
Cd 226.502	53.6787	53.2523	53.8269
Co 228.615	532.369	531.641	530.127
Cr 267.716	218.841	219.169	220.443
Cu 324.754	255.939	255.219	257.753
Fe 271.441	1725.81	1719.84	1719.11
K 766.491	5434.61	5427.82	5425.63
Mg 279.078	5440.81	5453.47	5460.95
Mn 257.610	540.606	540.964	541.504
Mo 202.032	525.258	527.263	529.681
Na 330.237	5331.59	5620.51	5514.49
Ni 231.604	528.976	528.174	532.740
Pb 220.353	544.984	547.127	543.877
Sb 206.834	515.124	517.208	519.077
Se 196.026	2070.41	2061.80	2058.80
Sn 189.925	1060.94	1073.00	1077.49
Sr 216.596	581.977	583.258	585.131
Ti 334.941	1138.84	1138.74	1143.99
Tl 190.794	2198.31	2199.33	2194.43
V 292.401	530.432	529.486	529.621
Zn 206.200	533.052	540.921	537.530

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.3730	ppb	0.7567	1.5	3592.11
Al 308.215	5464.91	ppb	6.0527	0.1	32252.9
As 188.980	2245.95	ppb	8.8590	0.4	1398.45
B 249.678	1047.31	ppb	8.6408	0.8	9955.53
Ba 389.178	2130.72	ppb	2.2887	0.1	56296.5
Be 313.042	52.2623	ppb	0.0898	0.2	108008
Ca 370.602	5614	ppb	11.56	0.2	20722
Cd 226.502	53.5860	ppb	0.2983	0.6	2127.97
Co 228.615	531.379	ppb	1.1442	0.2	6807.05
Cr 267.716	219.485	ppb	0.8463	0.4	10036.6
Cu 324.754	256.304	ppb	1.3056	0.5	13616.4
Fe 271.441	1721.58	ppb	3.6732	0.2	3105.94
K 766.491	5429.35	ppb	4.6827	0.1	332285
Mg 279.078	5451.74	ppb	10.1822	0.2	11934.5
Mn 257.610	541.025	ppb	0.4519	0.1	127900
Mo 202.032	527.401	ppb	2.2148	0.4	3877.71
Na 330.237	5488.86	ppb	146.154	2.7	274.456
Ni 231.604	529.963	ppb	2.4376	0.5	1406.72
Pb 220.353	545.329	ppb	1.6520	0.3	930.992
Sb 206.834	517.137	ppb	1.9776	0.4	515.445
Se 196.026	2063.67	ppb	6.0239	0.3	967.445
Sn 189.925	1070.48	ppb	8.5587	0.8	993.336
Sr 216.596	583.455	ppb	1.5860	0.3	6285.80
Ti 334.941	1140.52	ppb	3.0035	0.3	342037
Tl 190.794	2197.36	ppb	2.5836	0.1	1660.64
V 292.401	529.846	ppb	0.5115	0.1	15836.4
Zn 206.200	537.167	ppb	3.9470	0.7	733.067

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

Cont Calib Verif (CCV) 3/22/2013, 1:56:25 AM Rack 3, Tube 49
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	512.419	509.787	515.203
Al 308.215	5042.19	5052.27	5032.60
As 188.980	498.148	490.961	487.361
B 249.678	2553.15	2575.40	2579.03
Ba 389.178	5010.06	5018.56	5002.17
Be 313.042	504.408	507.074	506.137
Ca 370.602	5060	5076	5070
Cd 226.502	509.281	510.787	508.613
Co 228.615	504.438	505.700	503.458
Cr 267.716	5112.62	5136.34	5132.28
Cu 324.754	4935.50	4868.96	4889.48
Fe 271.441	5059.86	5079.52	5069.77
K 766.491	9848.70	9834.99	9821.70
Mg 279.078	5033.08	5025.31	5024.52
Mn 257.610	5045.23	5073.08	5058.62
Mo 202.032	503.124	506.537	505.775
Na 330.237	7546.00	7351.22	7670.01
Ni 231.604	2559.53	2558.89	2553.70
Pb 220.353	520.503	524.095	526.603
Sb 206.834	933.937	939.977	934.827
Se 196.026	5056.38	5051.10	4995.92
Sn 189.925	5109.85	5140.13	5168.49
Sr 216.596	2545.67	2561.63	2562.51
Ti 334.941	500.246	503.128	502.669
Tl 190.794	5194.13	5237.00	5205.39
V 292.401	5031.51	5044.75	5034.47
Zn 206.200	2601.20	2596.21	2577.45

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	512.470	ppb	2.7080	0.5	36453.8	102.49396
Al 308.215	5042.35	ppb	9.8362	0.2	29699.9	100.84706
As 188.980	492.157	ppb	5.4921	1.1	304.560	98.43137
B 249.678	2569.19	ppb	14.0153	0.5	24356.8	102.76776
Ba 389.178	5010.27	ppb	8.1979	0.2	132395	100.20532
Be 313.042	505.873	ppb	1.3526	0.3	1048610	101.17457
Ca 370.602	5069	ppb	8.030	0.2	18462	101.37200
Cd 226.502	509.560	ppb	1.1140	0.2	20128.8	101.91206
Co 228.615	504.532	ppb	1.1240	0.2	6460.74	100.90642
Cr 267.716	5127.08	ppb	12.6841	0.2	234267	102.54163
Cu 324.754	4897.98	ppb	34.0731	0.7	256972	97.95960
Fe 271.441	5069.72	ppb	9.8275	0.2	8995.59	101.39433
K 766.491	9835.13	ppb	13.5025	0.1	601677	98.35133
Mg 279.078	5027.64	ppb	4.7292	0.1	10933.6	100.55283
Mn 257.610	5058.98	ppb	13.9313	0.3	1195113	101.17953
Mo 202.032	505.145	ppb	1.7915	0.4	3705.70	101.02907
Na 330.237	7522.41	ppb	160.699	2.1	371.861	100.29879
Ni 231.604	2557.38	ppb	3.1975	0.1	6793.43	102.29507
Pb 220.353	523.734	ppb	3.0657	0.6	895.493	104.74674
Sb 206.834	936.247	ppb	3.2609	0.3	990.973	93.62468
Se 196.026	5034.47	ppb	33.4909	0.7	2360.14	100.68938
Sn 189.925	5139.49	ppb	29.3277	0.6	4770.89	102.78980
Sr 216.596	2556.60	ppb	9.4813	0.4	27583.0	102.26407
Ti 334.941	502.014	ppb	1.5486	0.3	150496	100.40282
Tl 190.794	5212.17	ppb	22.2239	0.4	3937.10	104.24350
V 292.401	5036.91	ppb	6.9502	0.1	151120	100.73827
Zn 206.200	2591.62	ppb	12.5252	0.5	3519.08	103.66483

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

Cont Calib Blank (CCB) 3/22/2013, 2:01:52 AM Rack 3, Tube 50

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3274u	0.8587	-0.3441u
Al 308.215	-3.2900u	-3.9869u	-2.5965u
As 188.980	4.0646	3.3792	-0.4858u
B 249.678	28.9372	26.3214	24.1843
Ba 389.178	0.9396	1.0058	0.2184
Be 313.042	0.0623	0.0658	0.0671
Ca 370.602	-0.4650u	2.796	0.5693
Cd 226.502	0.2417	0.0833	0.1688
Co 228.615	0.2975	-0.3695u	0.1408
Cr 267.716	0.8330	0.4328	0.4115
Cu 324.754	-0.0498u	0.1874	-0.1967u
Fe 271.441	-10.2378u	8.2799	1.7614
K 766.491	0.2069	-0.2411u	0.3705
Mg 279.078	0.4021	-5.0639u	-0.1506u
Mn 257.610	0.6410	0.5853	0.5579
Mo 202.032	0.9604	0.7832	0.6676
Na 330.237	193.227	-17.9660u	53.2740
Ni 231.604	-0.3060u	0.7315	1.5962
Pb 220.353	1.1065	2.6761	-1.4646u
Sb 206.834	7.1635	6.3095	5.6561
Se 196.026	-10.0403u	6.2287	-0.6606u
Sn 189.925	5.0223	3.1228	4.2862
Sr 216.596	0.4688	0.6005	0.3911
Ti 334.941	0.3224	0.3350	0.3059
Tl 190.794	-1.1662u	6.2881	-2.2344u
V 292.401	0.1469	0.5650	0.3430
Zn 206.200	0.9140	1.4999	0.2234

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0624	ppb	0.6897	1104.9	-49.8791	0.06242
Al 308.215	-3.2911	ppb	0.6952	21.1	246.882	-3.29112
As 188.980	2.3193	ppb	2.4534	105.8	-0.8106	2.31931
B 249.678	26.4810	ppb	2.3805	9.0	295.258	26.48096
Ba 389.178	0.7213	ppb	0.4367	60.6	-6.5765	0.72127
Be 313.042	0.0651	ppb	0.0025	3.8	-136.018	0.06507
Ca 370.602	0.9666	ppb	1.666	172.4	1.103	0.96662
Cd 226.502	0.1646	ppb	0.0793	48.2	15.4214	0.16457
Co 228.615	0.0229	ppb	0.3488	1520.0	14.5396	0.02295
Cr 267.716	0.5591	ppb	0.2374	42.5	33.0794	0.55909
Cu 324.754	-0.0197	ppb	0.1938	983.9	164.726	-0.01970
Fe 271.441	-0.0655	ppb	9.3930	14340.0	6.7170	-0.06550
K 766.491	0.1121	ppb	0.3166	282.5	312.240	0.11209
Mg 279.078	-1.6041	ppb	3.0090	187.6	26.3057	-1.60411
Mn 257.610	0.5947	ppb	0.0423	7.1	210.183	0.59473
Mo 202.032	0.8037	ppb	0.1475	18.3	15.6189	0.80372
Na 330.237	76.1784	ppb	107.443	141.0	-2.0638	76.17836
Ni 231.604	0.6739	ppb	0.9524	141.3	0.4057	0.67388
Pb 220.353	0.7727	ppb	2.0904	270.5	2.0047	0.77267
Sb 206.834	6.3764	ppb	0.7559	11.9	3.3574	6.37636
Se 196.026	-1.4908	ppb	8.1662	547.8	-0.0856	-1.49075
Sn 189.925	4.1438	ppb	0.9577	23.1	3.3786	4.14378
Sr 216.596	0.4868	ppb	0.1059	21.7	11.0716	0.48683
Ti 334.941	0.3211	ppb	0.0146	4.5	-25.1645	0.32107
Tl 190.794	0.9625	ppb	4.6429	482.4	0.0812	0.96250
V 292.401	0.3516	ppb	0.2092	59.5	14.0836	0.35162
Zn 206.200	0.8791	ppb	0.6389	72.7	3.0896	0.87910

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

640-42730-b-1-g ms (Samp) **3/22/2013, 2:07:30 AM** **Rack 3, Tube 51****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	16.7455	16.7656	16.5026
Al 308.215	10643.7	10666.5	10632.7
As 188.980	101.449	106.763	97.5771
B 249.678	197.601	197.653	198.696
Ba 389.178	123.724	124.717	123.899
Be 313.042	49.9586	50.0706	49.9127
Ca 370.602	5529	5542	5519
Cd 226.502	51.1613	50.7526	51.0117
Co 228.615	49.7042	50.4564	50.6671
Cr 267.716	111.015	111.436	110.721
Cu 324.754	96.2960	96.0781	96.5546
Fe 271.441	5729.96	5737.23	5714.46
K 766.491	5087.51	5098.27	5085.38
Mg 279.078	5208.49	5214.68	5188.79
Mn 257.610	507.854	508.418	506.499
Mo 202.032	98.4206	97.9243	96.8081
Na 330.237	5018.52	5058.61	5401.92
Ni 231.604	103.245	100.430	101.283
Pb 220.353	55.4165	58.3494	57.4641
Sb 206.834	49.9376	51.2252	52.6243
Se 196.026	93.6157	101.117	92.0725
Sn 189.925	208.528	210.424	208.352
Sr 216.596	144.133	143.060	142.432
Ti 334.941	180.346	180.834	180.338
Tl 190.794	42.3946	34.7613	37.2221
V 292.401	106.063	106.108	105.221
Zn 206.200	105.473	105.118	102.256

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	16.6712	ppb	0.1464	0.9	1131.94
Al 308.215	10647.7	ppb	17.2543	0.2	62478.1
As 188.980	101.930	ppb	4.6118	4.5	61.2790
B 249.678	197.983	ppb	0.6182	0.3	1913.11
Ba 389.178	124.113	ppb	0.5298	0.4	3279.54
Be 313.042	49.9806	ppb	0.0812	0.2	103369
Ca 370.602	5530	ppb	11.22	0.2	19833
Cd 226.502	50.9752	ppb	0.2068	0.4	2035.10
Co 228.615	50.2759	ppb	0.5062	1.0	657.259
Cr 267.716	111.058	ppb	0.3595	0.3	5084.89
Cu 324.754	96.3096	ppb	0.2385	0.2	5219.59
Fe 271.441	5727.22	ppb	11.6313	0.2	10025.2
K 766.491	5090.39	ppb	6.9105	0.1	311558
Mg 279.078	5203.99	ppb	13.5185	0.3	11392.7
Mn 257.610	507.590	ppb	0.9865	0.2	120012
Mo 202.032	97.7177	ppb	0.8259	0.8	726.103
Na 330.237	5159.69	ppb	210.740	4.1	266.621
Ni 231.604	101.653	ppb	1.4436	1.4	268.821
Pb 220.353	57.0767	ppb	1.5043	2.6	97.8740
Sb 206.834	51.2624	ppb	1.3437	2.6	49.0387
Se 196.026	95.6018	ppb	4.8384	5.1	45.4785
Sn 189.925	209.101	ppb	1.1492	0.5	193.660
Sr 216.596	143.208	ppb	0.8599	0.6	1551.51
Ti 334.941	180.506	ppb	0.2839	0.2	54052.6
Tl 190.794	38.1260	ppb	3.8961	10.2	27.4308
V 292.401	105.798	ppb	0.4998	0.5	3161.59
Zn 206.200	104.282	ppb	1.7637	1.7	143.663

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

640-42730-b-1-h msd (Samp) 3/22/2013, 2:12:58 AM Rack 3, Tube 52

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	21.0780	20.5892	20.2064
Al 308.215	10271.3	10279.2	10247.4
As 188.980	107.212	113.535	105.550
B 249.678	203.133	204.574	203.892
Ba 389.178	129.591	129.861	128.450
Be 313.042	51.9838	52.0050	52.0036
Ca 370.602	5392	5384	5387
Cd 226.502	52.8710	53.0056	52.7322
Co 228.615	51.8786	51.2236	51.5424
Cr 267.716	112.742	112.750	112.910
Cu 324.754	101.616	101.120	100.876
Fe 271.441	5806.63	5823.44	5805.36
K 766.491	5194.04	5209.14	5208.62
Mg 279.078	5320.48	5314.53	5314.02
Mn 257.610	532.053	532.547	531.461
Mo 202.032	101.149	102.216	101.838
Na 330.237	5445.80	5423.62	5452.17
Ni 231.604	106.462	104.687	105.391
Pb 220.353	59.2169	55.7921	59.8585
Sb 206.834	51.8927	53.9759	52.0046
Se 196.026	97.3904	98.1262	94.3054
Sn 189.925	213.686	215.247	216.698
Sr 216.596	139.859	138.056	137.995
Ti 334.941	215.775	215.820	216.269
Tl 190.794	45.7986	41.7716	39.9646
V 292.401	109.259	108.969	108.357
Zn 206.200	107.339	108.503	106.482

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	20.6245	ppb	0.4369	2.1	1414.32
Al 308.215	10266.0	ppb	16.5508	0.2	60248.8
As 188.980	108.766	ppb	4.2135	3.9	65.5398
B 249.678	203.866	ppb	0.7208	0.4	1968.72
Ba 389.178	129.301	ppb	0.7493	0.6	3417.09
Be 313.042	51.9974	ppb	0.0119	0.0	107551
Ca 370.602	5388	ppb	3.783	0.1	19311
Cd 226.502	52.8696	ppb	0.1367	0.3	2110.04
Co 228.615	51.5482	ppb	0.3276	0.6	674.353
Cr 267.716	112.800	ppb	0.0947	0.1	5164.66
Cu 324.754	101.204	ppb	0.3771	0.4	5476.35
Fe 271.441	5811.81	ppb	10.0903	0.2	10173.4
K 766.491	5203.93	ppb	8.5721	0.2	318501
Mg 279.078	5316.34	ppb	3.5866	0.1	11638.0
Mn 257.610	532.020	ppb	0.5437	0.1	125784
Mo 202.032	101.734	ppb	0.5411	0.5	755.559
Na 330.237	5440.53	ppb	14.9897	0.3	281.357
Ni 231.604	105.513	ppb	0.8938	0.8	279.079
Pb 220.353	58.2892	ppb	2.1862	3.8	99.9319
Sb 206.834	52.6244	ppb	1.1718	2.2	50.3952
Se 196.026	96.6073	ppb	2.0272	2.1	45.9547
Sn 189.925	215.210	ppb	1.5061	0.7	199.331
Sr 216.596	138.637	ppb	1.0592	0.8	1501.88
Ti 334.941	215.955	ppb	0.2736	0.1	64687.0
Tl 190.794	42.5116	ppb	2.9866	7.0	30.7180
V 292.401	108.862	ppb	0.4605	0.4	3253.32
Zn 206.200	107.442	ppb	1.0144	0.9	417.962

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

640-42730-b-2-d (Samp) 3/22/2013, 2:18:25 AM Rack 3, Tube 53

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0611	-1.0764u	-0.3710u
Al 308.215	9537.33	9589.31	9634.40
As 188.980	-1.5671u	0.6262	3.4326
B 249.678	6.0827	5.0343	5.1827
Ba 389.178	53.9068	55.1644	53.9436
Be 313.042	0.3206	0.3243	0.3221
Ca 370.602	1287	1292	1297
Cd 226.502	0.4132	0.1473	0.3223
Co 228.615	0.6286	1.4047	0.4063
Cr 267.716	15.0644	14.8711	14.6594
Cu 324.754	0.4841	0.7303	0.5251
Fe 271.441	2032.29	2042.52	2049.98
K 766.491	256.129	258.679	261.034
Mg 279.078	507.914	511.270	511.052
Mn 257.610	17.0808	17.2094	17.2925
Mo 202.032	1.5405	1.5681	1.9013
Na 330.237	347.898	539.605	269.800
Ni 231.604	4.6340	5.5199	4.8366
Pb 220.353	10.9240	8.8504	8.4023
Sb 206.834	7.5623	2.9421	3.9427
Se 196.026	2.4278	-3.0729u	6.0964
Sn 189.925	13.1452	13.0071	10.1266
Sr 216.596	73.3952	74.4300	74.1169
Ti 334.941	208.140	209.262	210.125
Tl 190.794	-5.9454u	-5.0318u	-4.8359u
V 292.401	11.4512	11.4392	11.7513
Zn 206.200	9.9790	12.4808	12.2059

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4621	ppb	0.5742	124.3	-90.2455
Al 308.215	9587.01	ppb	48.5779	0.5	56270.8
As 188.980	0.8306	ppb	2.5061	301.7	-1.7494
B 249.678	5.4332	ppb	0.5674	10.4	94.1251
Ba 389.178	54.3383	ppb	0.7157	1.3	1414.97
Be 313.042	0.3223	ppb	0.0018	0.6	398.211
Ca 370.602	1292	ppb	4.774	0.4	4598
Cd 226.502	0.2943	ppb	0.1352	45.9	25.7757
Co 228.615	0.8132	ppb	0.5242	64.5	30.5159
Cr 267.716	14.8650	ppb	0.2026	1.4	687.700
Cu 324.754	0.5798	ppb	0.1319	22.7	196.717
Fe 271.441	2041.60	ppb	8.8823	0.4	3575.09
K 766.491	258.614	ppb	2.4534	0.9	16118.4
Mg 279.078	510.079	ppb	1.8778	0.4	1141.71
Mn 257.610	17.1942	ppb	0.1067	0.6	4139.52
Mo 202.032	1.6700	ppb	0.2008	12.0	21.8492
Na 330.237	385.768	ppb	138.832	36.0	12.1413
Ni 231.604	4.9968	ppb	0.4642	9.3	11.9377
Pb 220.353	9.3922	ppb	1.3453	14.3	16.4370
Sb 206.834	4.8157	ppb	2.4307	50.5	1.9478
Se 196.026	1.8171	ppb	4.6151	254.0	1.4547
Sn 189.925	12.0929	ppb	1.7043	14.1	10.7590
Sr 216.596	73.9807	ppb	0.5307	0.7	806.379
Ti 334.941	209.176	ppb	0.9953	0.5	62629.8
Tl 190.794	-5.2710	ppb	0.5922	11.2	-4.7260
V 292.401	11.5472	ppb	0.1768	1.5	353.254
Zn 206.200	11.5553	ppb	1.3720	11.8	47.5960

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

640-42730-c-3-d (Samp) 3/22/2013, 2:23:52 AM Rack 3, Tube 54

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.1168u	-0.1707u	-0.6250u
Al 308.215	11955.9	11997.3	11929.0
As 188.980	1.5216	6.7255	6.0928
B 249.678	4.8310	3.9094	4.5514
Ba 389.178	60.2350	60.1480	59.8555
Be 313.042	0.4919	0.4804	0.4849
Ca 370.602	5972	5999	5950
Cd 226.502	0.2524	0.3415	0.2705
Co 228.615	1.9438	1.1597	0.5960
Cr 267.716	21.3898	21.3090	21.1658
Cu 324.754	1.2694	1.0892	0.1890
Fe 271.441	2907.23	2907.79	2901.51
K 766.491	258.550	259.265	259.757
Mg 279.078	1324.90	1336.44	1319.19
Mn 257.610	47.2137	47.3243	46.9642
Mo 202.032	2.8238	2.4914	3.0657
Na 330.237	168.098	224.275	379.077
Ni 231.604	4.8497	4.9661	4.3341
Pb 220.353	10.1083	10.6674	13.1249
Sb 206.834	1.0534	1.5240	4.1648
Se 196.026	-2.2142u	2.6446	-0.3358u
Sn 189.925	10.5896	12.4911	9.0033
Sr 216.596	93.7537	93.7379	92.9744
Ti 334.941	516.840	519.420	515.890
Tl 190.794	-0.8878u	-2.4617u	-1.9372u
V 292.401	19.7613	20.0425	19.6605
Zn 206.200	10.6996	7.0781	9.9634

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6375	ppb	0.4732	74.2	-103.396
Al 308.215	11960.7	ppb	34.4143	0.3	70137.5
As 188.980	4.7799	ppb	2.8395	59.4	0.7442
B 249.678	4.4306	ppb	0.4726	10.7	83.8216
Ba 389.178	60.0795	ppb	0.1988	0.3	1570.56
Be 313.042	0.4857	ppb	0.0058	1.2	738.633
Ca 370.602	5973	ppb	24.26	0.4	21782
Cd 226.502	0.2881	ppb	0.0471	16.4	27.7632
Co 228.615	1.2332	ppb	0.6769	54.9	44.6486
Cr 267.716	21.2882	ppb	0.1135	0.5	982.036
Cu 324.754	0.8492	ppb	0.5788	68.2	211.048
Fe 271.441	2905.51	ppb	3.4751	0.1	5085.27
K 766.491	259.191	ppb	0.6070	0.2	16153.7
Mg 279.078	1326.84	ppb	8.7838	0.7	2925.71
Mn 257.610	47.1674	ppb	0.1844	0.4	11226.2
Mo 202.032	2.7936	ppb	0.2884	10.3	30.0325
Na 330.237	257.150	ppb	109.264	42.5	2.5034
Ni 231.604	4.7166	ppb	0.3364	7.1	11.2123
Pb 220.353	11.3002	ppb	1.6048	14.2	19.4861
Sb 206.834	2.2474	ppb	1.6771	74.6	-0.5813
Se 196.026	0.0315	ppb	2.4501	7769.5	0.6197
Sn 189.925	10.6946	ppb	1.7463	16.3	9.4630
Sr 216.596	93.4887	ppb	0.4454	0.5	1018.05
Ti 334.941	517.383	ppb	1.8266	0.4	155089
Tl 190.794	-1.7622	ppb	0.8014	45.5	-2.1356
V 292.401	19.8214	ppb	0.1979	1.0	606.870
Zn 206.200	9.2470	ppb	1.9141	20.7	144349

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

640-42730-c-4-h (Samp) 3/22/2013, 2:29:19 AM Rack 3, Tube 55

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.8572	-1.0925u	-1.0547u
Al 308.215	10354.6	10307.1	10343.7
As 188.980	9.4831	2.0204	3.6138
B 249.678	3.2743	1.9646	2.4943
Ba 389.178	54.0553	53.9980	54.0397
Be 313.042	0.3671	0.3627	0.3680
Ca 370.602	2878	2861	2867
Cd 226.502	0.2861	0.3176	0.2553
Co 228.615	1.8679	0.7254	0.7532
Cr 267.716	16.7238	16.8493	16.9043
Cu 324.754	0.4416	0.6590	0.7187
Fe 271.441	2621.08	2612.71	2611.76
K 766.491	233.276	231.781	233.274
Mg 279.078	761.651	755.506	753.817
Mn 257.610	35.5227	35.3423	35.3467
Mo 202.032	1.8726	2.3853	1.9390
Na 330.237	164.315	307.817	418.520
Ni 231.604	5.1937	4.9420	4.7108
Pb 220.353	10.4928	10.7237	12.4689
Sb 206.834	3.7595	5.9903	6.6631
Se 196.026	-5.7790u	-2.3276u	-3.5689u
Sn 189.925	10.5810	9.8902	11.9844
Sr 216.596	76.4362	75.8698	75.0645
Ti 334.941	388.727	386.413	388.474
Tl 190.794	-0.2729u	1.0822	7.6738
V 292.401	15.0234	14.8083	15.1607
Zn 206.200	10.4093	7.3494	7.8301

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4300	ppb	1.1149	259.3	-87.9354
Al 308.215	10335.1	ppb	24.8749	0.2	60641.1
As 188.980	5.0391	ppb	3.9302	78.0	0.8830
B 249.678	2.5777	ppb	0.6588	25.6	66.5623
Ba 389.178	54.0310	ppb	0.0296	0.1	1408.53
Be 313.042	0.3660	ppb	0.0028	0.8	489.241
Ca 370.602	2869	ppb	8.526	0.3	10376
Cd 226.502	0.2863	ppb	0.0312	10.9	26.9278
Co 228.615	1.1155	ppb	0.6517	58.4	39.4686
Cr 267.716	16.8258	ppb	0.0925	0.5	777.803
Cu 324.754	0.6065	ppb	0.1459	24.1	198.256
Fe 271.441	2615.19	ppb	5.1318	0.2	4577.74
K 766.491	232.777	ppb	0.8628	0.4	14538.6
Mg 279.078	756.991	ppb	4.1229	0.5	1680.92
Mn 257.610	35.4039	ppb	0.1029	0.3	8443.77
Mo 202.032	2.0656	ppb	0.2788	13.5	24.7162
Na 330.237	296.884	ppb	127.455	42.9	5.7773
Ni 231.604	4.9488	ppb	0.2415	4.9	11.8224
Pb 220.353	11.2284	ppb	1.0804	9.6	19.4650
Sb 206.834	5.4710	ppb	1.5198	27.8	2.6422
Se 196.026	-3.8918	ppb	1.7482	44.9	-1.2191
Sn 189.925	10.8185	ppb	1.0671	9.9	9.5766
Sr 216.596	75.7902	ppb	0.6893	0.9	826.332
Ti 334.941	387.872	ppb	1.2694	0.3	116236
Tl 190.794	2.8277	ppb	4.2512	150.3	1.3581
V 292.401	14.9975	ppb	0.1776	1.2	459.976
Zn 206.200	8.5296	ppb	1.6455	19.3	430.4690

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88454-a-1-a (Samp) 3/22/2013, 2:34:46 AM Rack 3, Tube 56

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.4957u	-4.1426u	-4.1199u
Al 308.215	91238.1	91235.6	90651.6
As 188.980	122.940	117.747	114.941
B 249.678	23.5163	23.7518	25.6031
Ba 389.178	730.185	728.148	726.365
Be 313.042	3.8662	3.8623	3.8559
Ca 370.602	28666	28608	28614
Cd 226.502	0.2281	0.1051	-0.0396
Co 228.615	40.0261	39.4532	39.1103
Cr 267.716	85.8990	86.1167	85.2906
Cu 324.754	194.158	191.840	192.060
Fe 271.441	116772	116650	116647
K 766.491	6485.79	6509.98	6512.45
Mg 279.078	6195.52	6194.35	6193.85
Mn 257.610	4669.28	4665.15	4658.32
Mo 202.032	6.3262	6.7337	6.6667
Na 330.237	1015.44u	947.524u	760.091u
Ni 231.604	65.3232	65.4850	66.1862
Pb 220.353	514.008	515.621	513.206
Sb 206.834	17.2972	16.3203	21.5677
Se 196.026	-3.9167u	5.3931	5.4331
Sn 189.925	62.3716	61.2787	60.5524
Sr 216.596	172.716	172.701	173.023
Ti 334.941	2574.44	2575.67	2570.35
Tl 190.794	18.4285	17.6119	18.2082
V 292.401	207.514	207.460	207.451
Zn 206.200	414.528	412.557	415.526

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.5861	ppb	0.9444	26.3	-296.256
Al 308.215	91041.8	ppb	337.867	0.4	532105
As 188.980	118.543	ppb	4.0586	3.4	70.7304
B 249.678	24.2904	ppb	1.1429	4.7	165.033
Ba 389.178	728.233	ppb	1.9114	0.3	19422.7
Be 313.042	3.8614	ppb	0.0052	0.1	7744.31
Ca 370.602	28629	ppb	31.93	0.1	94979
Cd 226.502	0.0979	ppb	0.1340	136.9	311.204
Co 228.615	39.5298	ppb	0.4627	1.2	588.057
Cr 267.716	85.7688	ppb	0.4281	0.5	3975.69
Cu 324.754	192.686	ppb	1.2797	0.7	10303.9
Fe 271.441	116690	ppb	71.2587	0.1	203950
K 766.491	6502.74	ppb	14.7286	0.2	397917
Mg 279.078	6194.57	ppb	0.8540	0.0	13484.4
Mn 257.610	4664.25	ppb	5.5340	0.1	1102189
Mo 202.032	6.5756	ppb	0.2185	3.3	51.6810
Na 330.237	907.686	ppb	132.256	14.6	-17.7027
Ni 231.604	65.6648	ppb	0.4587	0.7	175.550
Pb 220.353	514.279	ppb	1.2302	0.2	877.314
Sb 206.834	18.3951	ppb	2.7907	15.2	18.9692
Se 196.026	2.3032	ppb	5.3866	233.9	2.0293
Sn 189.925	61.4009	ppb	0.9157	1.5	56.5450
Sr 216.596	172.813	ppb	0.1821	0.1	1923.21
Ti 334.941	2573.49	ppb	2.7848	0.1	771917
Tl 190.794	18.0828	ppb	0.4225	2.3	3.4644
V 292.401	207.475	ppb	0.0340	0.0	6282.94
Zn 206.200	414.204	ppb	1.5111	0.4	565.904

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88454-a-2-a (Samp) 3/22/2013, 2:40:13 AM Rack 3, Tube 57
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.9488u	-3.1939u	-4.3296u
Al 308.215	201972	202025	202315
As 188.980	42.8372	42.7670	47.8801
B 249.678	21.2085	22.6662	22.7776
Ba 389.178	470.063	472.013	471.787
Be 313.042	4.7928	4.7926	4.8055
Ca 370.602	4949	4944	4978
Cd 226.502	-0.6917	-0.9114	-0.7943
Co 228.615	28.9976	29.1671	29.3715
Cr 267.716	133.869	134.416	134.141
Cu 324.754	80.0468	81.5377	79.8897
Fe 271.441	136043	136082	136696
K 766.491	6649.74	6666.30	6688.85
Mg 279.078	4952.66	4958.90	4962.62
Mn 257.610	1029.26	1029.55	1031.22
Mo 202.032	6.3332	7.0101	5.8856
Na 330.237	692.062u	256.579u	556.875u
Ni 231.604	91.8133	89.2631	90.9258
Pb 220.353	156.364	152.823	147.944
Sb 206.834	-1.1418	9.9704	9.2865
Se 196.026	1.5832	-12.4783u	-5.1043u
Sn 189.925	19.4798	21.4518	19.8311
Sr 216.596	79.8194	80.1631	79.8867
Ti 334.941	2418.49	2425.65	2416.01
Tl 190.794	13.8418	7.5359u	9.3325
V 292.401	304.153	305.475	306.461
Zn 206.200	266.233	267.571	265.173

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.4908	ppb	0.7367	21.1	-300.115
Al 308.215	202104	ppb	184.620	0.1	1180898
As 188.980	44.4948	ppb	2.9320	6.6	24.1471
B 249.678	22.2174	ppb	0.8755	3.9	127.096
Ba 389.178	471.288	ppb	1.0665	0.2	12661.6
Be 313.042	4.7970	ppb	0.0074	0.2	9684.86
Ca 370.602	4957	ppb	18.26	0.4	6044
Cd 226.502	-0.7991	ppb	0.1100	13.8	325.690
Co 228.615	29.1787	ppb	0.1872	0.6	451.145
Cr 267.716	134.142	ppb	0.2735	0.2	6175.50
Cu 324.754	80.4914	ppb	0.9095	1.1	4425.61
Fe 271.441	136273	ppb	366.273	0.3	238174
K 766.491	6668.30	ppb	19.6297	0.3	408040
Mg 279.078	4958.06	ppb	5.0289	0.1	10810.8
Mn 257.610	1030.01	ppb	1.0571	0.1	243777
Mo 202.032	6.4096	ppb	0.5661	8.8	49.2936
Na 330.237	501.839	ppb	222.897	44.4	-43.1860
Ni 231.604	90.6674	ppb	1.2946	1.4	242.430
Pb 220.353	152.377	ppb	4.2274	2.8	256.082
Sb 206.834	6.0384	ppb	6.2276	103.1	7.3855
Se 196.026	-5.3331	ppb	7.0336	131.9	-2.5218
Sn 189.925	20.2542	ppb	1.0519	5.2	18.3340
Sr 216.596	79.9564	ppb	0.1821	0.2	924.600
Ti 334.941	2420.05	ppb	5.0049	0.2	725891
Tl 190.794	10.2367	ppb	3.2487	31.7	0.8252
V 292.401	305.363	ppb	1.1578	0.4	9221.62
Zn 206.200	266.326	ppb	1.2920	0.5	264.337

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88454-a-3-a (Samp) 3/22/2013, 2:45:41 AM Rack 3, Tube 58

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.7767u	-2.6528u	-2.7262u
Al 308.215	205364	205846	205418
As 188.980	37.1071	46.3024	38.1704
B 249.678	-2.2531u	-1.2835u	-1.5664u
Ba 389.178	176.789	175.532	174.717
Be 313.042	2.7196	2.7177	2.7137
Ca 370.602	3118u	3133u	3128u
Cd 226.502	-0.9978	-0.7045	-0.7201
Co 228.615	27.9977	29.2589	27.8682
Cr 267.716	165.762	165.549	165.076
Cu 324.754	81.1658	81.4790	81.2356
Fe 271.441	138971	139460	139352
K 766.491	5401.30	5431.37	5399.30
Mg 279.078	3359.30	3350.56	3353.39
Mn 257.610	841.731	841.973	841.920
Mo 202.032	5.4726	5.2874	5.4709
Na 330.237	188.591u	110.371u	185.533u
Ni 231.604	77.1295	80.1850	81.0231
Pb 220.353	126.123	126.234	127.450
Sb 206.834	4.3225	7.1745	-1.6049
Se 196.026	19.0442	-3.7812u	-5.6595u
Sn 189.925	25.1414	20.3103	16.9690
Sr 216.596	36.7438	34.5357	34.8677
Ti 334.941	2236.41	2236.02	2225.08
Tl 190.794	13.6955	5.7517u	14.2543
V 292.401	333.798	334.885	333.607
Zn 206.200	256.279	257.207	254.889

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.3853	ppb	0.5283	22.1	-220.000
Al 308.215	205543	ppb	264.072	0.1	1200986
As 188.980	40.5266	ppb	5.0301	12.4	21.6269
B 249.678	-1.7010	ppb	0.4986	29.3	-102.054
Ba 389.178	175.680	ppb	1.0436	0.6	4850.94
Be 313.042	2.7170	ppb	0.0030	0.1	5370.12
Ca 370.602	3126	ppb	7.682	0.2	-1002
Cd 226.502	-0.8074	ppb	0.1650	20.4	332.872
Co 228.615	28.3750	ppb	0.7683	2.7	435.603
Cr 267.716	165.463	ppb	0.3513	0.2	7606.06
Cu 324.754	81.2935	ppb	0.1644	0.2	4468.25
Fe 271.441	139261	ppb	256.853	0.2	243396
K 766.491	5410.66	ppb	17.9659	0.3	331142
Mg 279.078	3354.42	ppb	4.4585	0.1	7308.51
Mn 257.610	841.875	ppb	0.1268	0.0	199337
Mo 202.032	5.4103	ppb	0.1065	2.0	41.7593
Na 330.237	161.498	ppb	44.3042	27.4	-60.7758
Ni 231.604	79.4458	ppb	2.0493	2.6	212.678
Pb 220.353	126.602	ppb	0.7362	0.6	212.036
Sb 206.834	3.2974	ppb	4.4786	135.8	4.9774
Se 196.026	3.2012	ppb	13.7525	429.6	1.4132
Sn 189.925	20.8069	ppb	4.1088	19.7	18.8461
Sr 216.596	35.3824	ppb	1.1907	3.4	444.016
Ti 334.941	2232.50	ppb	6.4320	0.3	669623
Tl 190.794	11.2338	ppb	4.7559	42.3	1.6839
V 292.401	334.097	ppb	0.6896	0.2	10081.1
Zn 206.200	256.125	ppb	1.1663	0.5	350.361

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88454-a-4-a (Samp) 3/22/2013, 2:51:08 AM Rack 3, Tube 59

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.7505u	-1.7123u	-1.9756u
Al 308.215	170425	169444	169772
As 188.980	45.8912	48.2619	51.4185
B 249.678	-16.9222u	-15.5940u	-15.8990u
Ba 389.178	98.1040	98.1218	97.8178
Be 313.042	3.3230	3.2953	3.3142
Ca 370.602	2240u	2323u	2296u
Cd 226.502	-1.5018	-1.8953	-1.6383
Co 228.615	14.2518	14.3922	14.1279
Cr 267.716	319.626	316.581	317.320
Cu 324.754	74.9725	74.4091	75.1370
Fe 271.441	241227	239772	240937
K 766.491	3253.71	3226.02	3228.87
Mg 279.078	1908.90	1880.42	1893.99
Mn 257.610	657.788	653.414	655.569
Mo 202.032	8.4957	8.2416	8.6841
Na 330.237	192.349u	275.727u	174.471u
Ni 231.604	54.0128	54.8584	52.9129
Pb 220.353	94.6121	93.0513	93.0511
Sb 206.834	0.7603	2.9420	7.7171
Se 196.026	15.6173	6.8631	7.0625
Sn 189.925	18.2733	17.6258	19.8280
Sr 216.596	17.9944	17.6369	17.9260
Ti 334.941	1571.17	1554.83	1558.29
Tl 190.794	4.3820u	6.5480u	5.3204u
V 292.401	505.436	501.362	503.614
Zn 206.200	156.559	155.389	158.860

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.8128	ppb	0.1423	7.8	-178.804
Al 308.215	169880	ppb	499.486	0.3	992653
As 188.980	48.5239	ppb	2.7730	5.7	25.5763
B 249.678	-16.1384	ppb	0.6957	4.3	-333.604
Ba 389.178	98.0146	ppb	0.1706	0.2	2957.56
Be 313.042	3.3109	ppb	0.0142	0.4	6588.81
Ca 370.602	2286	ppb	42.40	1.9	-13677
Cd 226.502	-1.6785	ppb	0.1998	11.9	557.016
Co 228.615	14.2573	ppb	0.1322	0.9	232.897
Cr 267.716	317.842	ppb	1.5882	0.5	14588.0
Cu 324.754	74.8395	ppb	0.3817	0.5	4159.35
Fe 271.441	240646	ppb	770.103	0.3	420580
K 766.491	3236.20	ppb	15.2329	0.5	198184
Mg 279.078	1894.44	ppb	14.2439	0.8	4150.78
Mn 257.610	655.590	ppb	2.1871	0.3	155608
Mo 202.032	8.4738	ppb	0.2221	2.6	58.8134
Na 330.237	214.183	ppb	54.0435	25.2	-83.2030
Ni 231.604	53.9280	ppb	0.9755	1.8	146.976
Pb 220.353	93.5715	ppb	0.9012	1.0	156.604
Sb 206.834	3.8065	ppb	3.5581	93.5	9.2419
Se 196.026	9.8476	ppb	4.9977	50.8	3.8325
Sn 189.925	18.5757	ppb	1.1318	6.1	16.7719
Sr 216.596	17.8524	ppb	0.1898	1.1	296.141
Ti 334.941	1561.43	ppb	8.6134	0.6	468320
Tl 190.794	5.4168	ppb	1.0862	20.1	-6.3582
V 292.401	503.470	ppb	2.0409	0.4	15155.3
Zn 206.200	156.936	ppb	1.7660	1.1	214.849

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

680-88454-a-5-a (Samp) 3/22/2013, 2:56:35 AM Rack 3, Tube 60
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.2317u	-2.0221u	-2.7573u
Al 308.215	99662.4	99771.5	99896.3
As 188.980	51.3634	51.3137	52.1538
B 249.678	26.8010	27.0215	27.0847
Ba 389.178	990.003	990.743	992.482
Be 313.042	4.8379	4.8562	4.8383
Ca 370.602	44481	44473	44496
Cd 226.502	-0.1550	0.0053	-0.0949
Co 228.615	37.5833	38.3675	37.2654
Cr 267.716	105.683	105.750	105.946
Cu 324.754	244.714	243.873	243.180
Fe 271.441	103957	104425	104338
K 766.491	8752.39	8737.00	8702.07
Mg 279.078	8197.04	8209.98	8229.32
Mn 257.610	5015.85	5025.54	5024.90
Mo 202.032	6.9823	7.8753	7.7187
Na 330.237	629.686u	683.369u	661.262u
Ni 231.604	63.5690	61.5168	63.0873
Pb 220.353	565.614	567.988	576.085
Sb 206.834	9.6793	8.5472	11.4091
Se 196.026	-0.3657	-5.8545u	-6.8669u
Sn 189.925	55.3497	54.1849	53.5055
Sr 216.596	245.181	244.756	245.341
Ti 334.941	2943.01	2934.81	2949.86
Tl 190.794	24.6518	18.2906	21.5722
V 292.401	197.585	198.015	197.867
Zn 206.200	489.259	492.805	496.987

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.3370	ppb	0.3787	16.2	-208.682
Al 308.215	99776.7	ppb	117.025	0.1	583132
As 188.980	51.6103	ppb	0.4714	0.9	29.2465
B 249.678	26.9691	ppb	0.1490	0.6	202.236
Ba 389.178	991.076	ppb	1.2728	0.1	26353.4
Be 313.042	4.8442	ppb	0.0104	0.2	9789.48
Ca 370.602	44484	ppb	11.94	0.0	154494
Cd 226.502	-0.0815	ppb	0.0810	99.3	271.882
Co 228.615	37.7387	ppb	0.5673	1.5	576.429
Cr 267.716	105.793	ppb	0.1367	0.1	4890.20
Cu 324.754	243.922	ppb	0.7682	0.3	12986.9
Fe 271.441	104240	ppb	248.798	0.2	182192
K 766.491	8730.49	ppb	25.7866	0.3	534133
Mg 279.078	8212.12	ppb	16.2455	0.2	17882.8
Mn 257.610	5022.09	ppb	5.4196	0.1	1186692
Mo 202.032	7.5254	ppb	0.4769	6.3	59.3041
Na 330.237	658.105	ppb	26.9803	4.1	-30.7948
Ni 231.604	62.7244	ppb	1.0731	1.7	167.478
Pb 220.353	569.896	ppb	5.4900	1.0	972.053
Sb 206.834	9.8785	ppb	1.4413	14.6	10.2537
Se 196.026	-4.3624	ppb	3.4980	80.2	-0.9287
Sn 189.925	54.3467	ppb	0.9327	1.7	50.0036
Sr 216.596	245.093	ppb	0.3019	0.1	2701.01
Ti 334.941	2942.56	ppb	7.5361	0.3	882638
Tl 190.794	21.5048	ppb	3.1811	14.8	6.1416
V 292.401	197.822	ppb	0.2184	0.1	5997.43
Zn 206.200	493.017	ppb	3.8683	0.8	673.213

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

Cont Calib Verif (CCV) 3/22/2013, 3:02:02 AM Rack 4, Tube 1
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	515.470	513.040	514.635
Al 308.215	5051.78	5067.28	5056.15
As 188.980	489.433	493.738	499.650
B 249.678	2544.09	2568.73	2585.27
Ba 389.178	4992.71	5006.10	5003.98
Be 313.042	503.989	505.120	504.473
Ca 370.602	5036	5044	5047
Cd 226.502	508.177	511.570	509.034
Co 228.615	504.648	505.886	505.000
Cr 267.716	5092.69	5114.14	5120.81
Cu 324.754	4836.01	4955.92	4934.64
Fe 271.441	5101.13	5120.56	5112.23
K 766.491	9824.86	9866.95	9832.69
Mg 279.078	5013.75	5026.99	5028.85
Mn 257.610	5047.25	5070.07	5065.87
Mo 202.032	498.441	502.125	501.461
Na 330.237	7507.24	7617.83	7569.22
Ni 231.604	2555.78	2565.53	2555.04
Pb 220.353	521.342	525.488	524.971
Sb 206.834	925.691	944.567	943.595
Se 196.026	5058.48	5082.04	5063.15
Sn 189.925	5066.92	5069.71	5017.87
Sr 216.596	2530.24	2542.05	2544.08
Ti 334.941	499.486	500.299	500.767
Tl 190.794	5187.37	5198.99	5177.41
V 292.401	5034.16	5051.21	5042.45
Zn 206.200	2599.69	2609.39	2597.42

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	514.382	ppb	1.2343	0.2	36589.7	102.87634
Al 308.215	5058.40	ppb	7.9912	0.2	29793.2	101.16808
As 188.980	494.274	ppb	5.1296	1.0	305.881	98.85472
B 249.678	2566.03	ppb	20.7216	0.8	24326.8	102.64130
Ba 389.178	5000.93	ppb	7.1969	0.1	132149	100.01862
Be 313.042	504.527	ppb	0.5679	0.1	1045819	100.90545
Ca 370.602	5042	ppb	5.745	0.1	18363	100.83985
Cd 226.502	509.594	ppb	1.7646	0.3	20130.2	101.91876
Co 228.615	505.178	ppb	0.6377	0.1	6469.14	101.03561
Cr 267.716	5109.21	ppb	14.6931	0.3	233451	102.18428
Cu 324.754	4908.85	ppb	63.9758	1.3	257542	98.17710
Fe 271.441	5111.31	ppb	9.7433	0.2	9068.28	102.22611
K 766.491	9841.50	ppb	22.3838	0.2	602067	98.41501
Mg 279.078	5023.20	ppb	8.2353	0.2	10923.9	100.46393
Mn 257.610	5061.06	ppb	12.1462	0.2	1195605	101.22120
Mo 202.032	500.676	ppb	1.9638	0.4	3672.89	100.13512
Na 330.237	7564.77	ppb	55.4310	0.7	374.045	100.86355
Ni 231.604	2558.78	ppb	5.8504	0.2	6797.17	102.35136
Pb 220.353	523.934	ppb	2.2591	0.4	895.837	104.78676
Sb 206.834	937.951	ppb	10.6286	1.1	992.840	93.79507
Se 196.026	5067.89	ppb	12.4735	0.2	2375.79	101.35774
Sn 189.925	5051.50	ppb	29.1613	0.6	4689.20	101.03002
Sr 216.596	2538.79	ppb	7.4738	0.3	27390.3	101.55159
Ti 334.941	500.184	ppb	0.6480	0.1	149947	100.03684
Tl 190.794	5187.93	ppb	10.8008	0.2	3918.77	103.75851
V 292.401	5042.61	ppb	8.5253	0.2	151291	100.85218
Zn 206.200	2602.17	ppb	6.3581	0.2	3533.42	104.08671

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Cont Calib Blank (CCB) 3/22/2013, 3:07:30 AM Rack 4, Tube 2

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2207	-0.0792u	0.4066
Al 308.215	-3.1923u	-1.4297u	-1.2954u
As 188.980	1.2935	5.7887	5.9734
B 249.678	26.8388	23.5272	20.7522
Ba 389.178	1.6512	0.7254	0.3526
Be 313.042	0.0651	0.0575	0.0547
Ca 370.602	0.8675	-2.434u	0.2409
Cd 226.502	-0.0538u	-0.0742u	0.0865
Co 228.615	-0.2876u	0.8287	0.1928
Cr 267.716	0.3931	0.5468	0.2781
Cu 324.754	-0.0705u	-0.1792u	-0.6364u
Fe 271.441	-0.6336u	4.4967	5.4340
K 766.491	-0.1737u	-0.8452u	-0.6239u
Mg 279.078	0.4042	-2.6177u	-3.4220u
Mn 257.610	0.6168	0.5773	0.5747
Mo 202.032	0.7789	1.5216	0.8985
Na 330.237	74.7172	19.5073	-94.1555u
Ni 231.604	1.4413	1.2144	0.0574
Pb 220.353	1.8694	1.5944	2.8017
Sb 206.834	8.7193	5.4078	5.1549
Se 196.026	-2.4037u	8.6748	3.3830
Sn 189.925	-0.6058u	2.6225	-0.3056u
Sr 216.596	0.0043	0.6889	0.7312
Ti 334.941	0.5642	0.5038	0.4104
Tl 190.794	6.2950	-1.1304u	7.7445
V 292.401	1.0911	0.6347	0.6564
Zn 206.200	0.1202	2.7219	1.5338

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1827	ppb	0.2451	134.2	-41.2810	0.18269
Al 308.215	-1.9725	ppb	1.0586	53.7	254.605	-1.97246
As 188.980	4.3519	ppb	2.6502	60.9	0.4570	4.35186
B 249.678	23.7061	ppb	3.0473	12.9	268.987	23.70608
Ba 389.178	0.9097	ppb	0.6686	73.5	-1.5818	0.90974
Be 313.042	0.0591	ppb	0.0054	9.1	-148.480	0.05909
Ca 370.602	-0.4419	ppb	1.754	396.8	-4.812	-0.44193
Cd 226.502	-0.0138	ppb	0.0875	632.6	8.4035	-0.01383
Co 228.615	0.2446	ppb	0.5600	228.9	17.3648	0.24463
Cr 267.716	0.4060	ppb	0.1348	33.2	26.0823	0.40598
Cu 324.754	-0.2954	ppb	0.3003	101.7	150.275	-0.29536
Fe 271.441	3.0990	ppb	3.2664	105.4	12.2738	3.09903
K 766.491	-0.5476	ppb	0.3421	62.5	271.903	-0.54760
Mg 279.078	-1.8785	ppb	2.0174	107.4	25.7073	-1.87850
Mn 257.610	0.5896	ppb	0.0236	4.0	208.997	0.58962
Mo 202.032	1.0663	ppb	0.3988	37.4	17.5441	1.06631
Na 330.237	0.0230	ppb	86.1059	374093.1	-6.1579	0.02302
Ni 231.604	0.9044	ppb	0.7422	82.1	1.0182	0.90435
Pb 220.353	2.0885	ppb	0.6328	30.3	4.2527	2.08852
Sb 206.834	6.4273	ppb	1.9889	30.9	3.4060	6.42734
Se 196.026	3.2181	ppb	5.5411	172.2	2.1202	3.21805
Sn 189.925	0.5703	ppb	1.7835	312.7	0.0611	0.57032
Sr 216.596	0.4748	ppb	0.4080	85.9	10.9314	0.47480
Ti 334.941	0.4928	ppb	0.0775	15.7	26.3531	0.49280
Tl 190.794	4.3031	ppb	4.7610	110.6	2.6073	4.30307
V 292.401	0.7941	ppb	0.2575	32.4	27.3568	0.79409
Zn 206.200	1.4586	ppb	1.3025	89.3	3.8791	1.45862

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680-88454-a-6-a (Samp) 3/22/2013, 3:12:58 AM Rack 4, Tube 3
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-6.5945u	-5.9985u	-6.3195u
Al 308.215	212094	211883	212239
As 188.980	45.1400	56.1039	47.4952
B 249.678	34.8777	32.9172	33.1378
Ba 389.178	768.810	765.545	767.604
Be 313.042	6.5722	6.5595	6.5812
Ca 370.602	9952	9929	9955
Cd 226.502	-0.7014	-0.6967	-0.7753
Co 228.615	64.3568	63.6369	63.9838
Cr 267.716	144.074	143.869	143.923
Cu 324.754	86.2234	87.0008	87.0140
Fe 271.441	137986	137556	138056
K 766.491	8395.14	8371.84	8405.83
Mg 279.078	5186.08	5177.11	5190.69
Mn 257.610	9616.73	9606.98	9632.86
Mo 202.032	8.1630	8.0253	7.5896
Na 330.237	671.062u	497.210u	352.207u
Ni 231.604	97.9178	98.4733	100.468
Pb 220.353	195.186	192.597	187.101
Sb 206.834	3.4859	1.0058	8.0701
Se 196.026	-8.6229u	7.9324	-5.3716u
Sn 189.925	24.3529	18.9148	20.6569
Sr 216.596	117.882	118.090	117.862
Ti 334.941	2499.93	2507.26	2510.32
Tl 190.794	39.7990	37.5498	43.6522
V 292.401	327.782	327.353	327.828
Zn 206.200	260.376	256.941	259.299

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-6.3042	ppb	0.2983	4.7	-465.030
Al 308.215	212072	ppb	178.971	0.1	1239127
As 188.980	49.5797	ppb	5.7715	11.6	27.3435
B 249.678	33.6442	ppb	1.0739	3.2	233.672
Ba 389.178	767.320	ppb	1.6512	0.2	20486.7
Be 313.042	6.5709	ppb	0.0109	0.2	13363.1
Ca 370.602	9945	ppb	14.40	0.1	24507
Cd 226.502	-0.7244	ppb	0.0441	6.1	332.941
Co 228.615	63.9925	ppb	0.3600	0.6	897.687
Cr 267.716	143.956	ppb	0.1063	0.1	6659.57
Cu 324.754	86.7460	ppb	0.4527	0.5	4753.91
Fe 271.441	137866	ppb	270.804	0.2	240964
K 766.491	8390.94	ppb	17.3813	0.2	513372
Mg 279.078	5184.63	ppb	6.9075	0.1	11161.0
Mn 257.610	9618.85	ppb	13.0725	0.1	2272591
Mo 202.032	7.9260	ppb	0.2993	3.8	60.2904
Na 330.237	506.826	ppb	159.645	31.5	-44.0598
Ni 231.604	98.9531	ppb	1.3412	1.4	264.483
Pb 220.353	191.628	ppb	4.1290	2.2	324.803
Sb 206.834	4.1872	ppb	3.5840	85.6	5.6438
Se 196.026	-2.0207	ppb	8.7716	434.1	1.0233
Sn 189.925	21.3082	ppb	2.7769	13.0	19.3148
Sr 216.596	117.945	ppb	0.1263	0.1	1336.28
Ti 334.941	2505.84	ppb	5.3394	0.2	751626
Tl 190.794	40.3337	ppb	3.0861	7.7	14.0560
V 292.401	327.654	ppb	0.2620	0.1	9892.80
Zn 206.200	258.872	ppb	1.7570	0.7	354.159

680-88454-a-7-a (Samp) 3/22/2013, 3:18:26 AM Rack 4, Tube 4
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.4557u	-2.3755u	-3.6769u
Al 308.215	238489	239960	239184
As 188.980	50.8721	52.6656	49.6352
B 249.678	5.3400u	4.9267u	3.0065u
Ba 389.178	421.871	425.294	422.388
Be 313.042	3.5074	3.5388	3.5224
Ca 370.602	7690	7706	7690
Cd 226.502	-0.6690	-0.7682	-0.7972
Co 228.615	34.3824	35.1963	34.5835
Cr 267.716	253.265	255.583	254.144
Cu 324.754	85.5423	84.4110	84.2363
Fe 271.441	165125	166304	165763
K 766.491	7886.98	7936.27	7913.91
Mg 279.078	4455.95	4492.74	4464.46
Mn 257.610	4167.48	4194.14	4180.80
Mo 202.032	6.1474	5.4299	5.2070
Na 330.237	151.900u	318.813u	327.655u
Ni 231.604	97.1539	97.8694	98.1891
Pb 220.353	122.126	128.850	128.293
Sb 206.834	8.1342	2.5475	4.2574
Se 196.026	-1.5627u	2.0237	-10.8162u
Sn 189.925	17.7519	14.9739	22.7707
Sr 216.596	68.3762	70.6264	69.9449
Ti 334.941	2647.56	2677.70	2668.08
Tl 190.794	18.6354	15.9927	19.1925
V 292.401	387.806	391.580	390.564
Zn 206.200	263.930	266.149	263.058

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.8360	ppb	0.7293	25.7	-238.752
Al 308.215	239211	ppb	735.466	0.3	1397664
As 188.980	51.0577	ppb	1.5237	3.0	27.9633
B 249.678	4.4244	ppb	1.2452	28.1	-68.9540
Ba 389.178	423.184	ppb	1.8448	0.4	11436.6
Be 313.042	3.5229	ppb	0.0157	0.4	7042.77
Ca 370.602	7696	ppb	9.064	0.1	13507
Cd 226.502	-0.7448	ppb	0.0673	9.0	403.140
Co 228.615	34.7207	ppb	0.4239	1.2	528.029
Cr 267.716	254.331	ppb	1.1699	0.5	11687.2
Cu 324.754	84.7299	ppb	0.7090	0.8	4656.05
Fe 271.441	165731	ppb	590.402	0.4	289657
K 766.491	7912.39	ppb	24.6777	0.3	484110
Mg 279.078	4471.05	ppb	19.2624	0.4	9688.11
Mn 257.610	4180.80	ppb	13.3330	0.3	988119
Mo 202.032	5.5948	ppb	0.4914	8.8	41.6693
Na 330.237	266.123	ppb	99.0188	37.2	-66.8883
Ni 231.604	97.7375	ppb	0.5301	0.5	261.843
Pb 220.353	126.423	ppb	3.7321	3.0	211.593
Sb 206.834	4.9797	ppb	2.8625	57.5	8.1428
Se 196.026	-3.4517	ppb	6.6251	191.9	-1.0946
Sn 189.925	18.4988	ppb	3.9517	21.4	16.7048
Sr 216.596	69.6492	ppb	1.1539	1.7	825.428
Ti 334.941	2664.45	ppb	15.3937	0.6	799208
Tl 190.794	17.9402	ppb	1.7094	9.5	2.0670
V 292.401	389.983	ppb	1.9527	0.5	11763.9
Zn 206.200	264.379	ppb	1.5937	0.6	261.375

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88454-a-8-a (Samp) 3/22/2013, 3:23:54 AM Rack 4, Tube 5
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.2574u	-0.9664u	-0.7850u
Al 308.215	192824	193352	193486
As 188.980	42.4320	36.9709	42.0422
B 249.678	-8.0620u	-7.2731u	-6.6569u
Ba 389.178	118.969	119.873	117.538
Be 313.042	3.8605	3.8676	3.8577
Ca 370.602	3209u	3202u	3187u
Cd 226.502	-1.6369	-1.7949	-2.2708
Co 228.615	9.7116	10.7335	10.9723
Cr 267.716	274.315	274.871	275.699
Cu 324.754	77.7141	78.7887	78.6305
Fe 271.441	259875	260551	260814
K 766.491	3552.44	3566.30	3565.84
Mg 279.078	1931.29	1941.13	1942.18
Mn 257.610	424.620	425.675	425.289
Mo 202.032	6.3128	6.6800	6.5227
Na 330.237	433.986u	-19.6047u	120.393u
Ni 231.604	58.8926	58.9919	57.4135
Pb 220.353	81.3556	81.4413	82.4686
Sb 206.834	4.8136	-0.7977	3.5588
Se 196.026	-6.3115u	2.5166u	-10.2507u
Sn 189.925	20.9192	21.3945	16.6033
Sr 216.596	25.8493	25.6313	26.0386
Ti 334.941	1849.01	1856.77	1857.83
Tl 190.794	3.3148u	5.3472u	5.7358u
V 292.401	563.242	565.913	566.123
Zn 206.200	166.444	164.632	164.337

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0030	ppb	0.2383	23.8	-121.930
Al 308.215	193221	ppb	349.953	0.2	1129001
As 188.980	40.4817	ppb	3.0467	7.5	20.3618
B 249.678	-7.3307	ppb	0.7043	9.6	-269.235
Ba 389.178	118.794	ppb	1.1776	1.0	3539.40
Be 313.042	3.8619	ppb	0.0051	0.1	7732.06
Ca 370.602	3199	ppb	10.84	0.3	-12159
Cd 226.502	-1.9009	ppb	0.3300	17.4	599.991
Co 228.615	10.4725	ppb	0.6697	6.4	191.866
Cr 267.716	274.962	ppb	0.6964	0.3	12632.2
Cu 324.754	78.3778	ppb	0.5802	0.7	4350.44
Fe 271.441	260413	ppb	484.327	0.2	455128
K 766.491	3561.53	ppb	7.8688	0.2	218076
Mg 279.078	1938.20	ppb	6.0078	0.3	4246.72
Mn 257.610	425.195	ppb	0.5339	0.1	101241
Mo 202.032	6.5052	ppb	0.1842	2.8	43.2332
Na 330.237	178.258	ppb	232.266	130.3	-93.7748
Ni 231.604	58.4327	ppb	0.8840	1.5	159.375
Pb 220.353	81.7551	ppb	0.6193	0.8	135.767
Sb 206.834	2.5249	ppb	2.9450	116.6	8.0108
Se 196.026	-4.6819	ppb	6.5378	139.6	-3.1578
Sn 189.925	19.6390	ppb	2.6397	13.4	17.7589
Sr 216.596	25.8397	ppb	0.2039	0.8	390.821
Ti 334.941	1854.54	ppb	4.8177	0.3	556250
Tl 190.794	4.7993	ppb	1.3002	27.1	-7.3295
V 292.401	565.093	ppb	1.6061	0.3	17017.3
Zn 206.200	165.137	ppb	1.1411	0.7	226.135

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

lb 680-269861/5-c (Samp) 3/22/2013, 3:29:21 AM Rack 4, Tube 6

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3671u	-0.0217u	-0.7563u
Al 308.215	26.0321	19.7880	14.1333
As 188.980	-1.8181u	0.5066	5.6192
B 249.678	13.1052	14.2608	13.9868
Ba 389.178	-1.6671u	-1.2336u	-1.5522u
Be 313.042	-0.0124u	-0.0066u	-0.0110u
Ca 370.602	137.5	134.6	131.7
Cd 226.502	-0.1023u	-0.0279u	0.1209
Co 228.615	0.1217	-0.4429u	0.2697
Cr 267.716	0.5922	0.8287	0.5818
Cu 324.754	0.4018	0.0978	-0.4032u
Fe 271.441	41.8586	23.8721	21.1828
K 766.491	36.9766	36.0214	35.9463
Mg 279.078	21.6520	19.4309	21.6460
Mn 257.610	0.1739	0.1204	0.1078
Mo 202.032	0.5285	0.1868	0.3024
Na 330.237	23629.7	23614.2	23190.5
Ni 231.604	1.3252	0.6898	3.2583
Pb 220.353	-0.6532u	1.9255	1.8126
Sb 206.834	3.5822	-2.9654u	5.1364
Se 196.026	-0.4285u	-4.4769u	5.0066
Sn 189.925	26.6949	24.6729	21.7585
Sr 216.596	0.8494	0.7316	0.0839
Ti 334.941	2.0954	1.8212	1.6134
Tl 190.794	2.8069	-0.0927u	1.4883
V 292.401	0.1347	-0.0187u	-0.3868u
Zn 206.200	4.6096	3.0633	2.6419

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3817	ppb	0.3675	96.3	-81.5455
Al 308.215	19.9845	ppb	5.9519	29.8	382.835
As 188.980	1.4359	ppb	3.8048	265.0	-1.3607
B 249.678	13.7843	ppb	0.6039	4.4	175.054
Ba 389.178	-1.4843	ppb	0.2246	15.1	-64.7329
Be 313.042	-0.0100	ppb	0.0030	30.4	-294.606
Ca 370.602	134.6	ppb	2.869	2.1	489.2
Cd 226.502	-0.0031	ppb	0.1136	3657.6	8.7531
Co 228.615	-0.0172	ppb	0.3761	2187.7	14.0583
Cr 267.716	0.6675	ppb	0.1397	20.9	38.4492
Cu 324.754	0.0321	ppb	0.4065	1265.6	167.453
Fe 271.441	28.9712	ppb	11.2416	38.8	57.4512
K 766.491	36.3148	ppb	0.5744	1.6	2525.86
Mg 279.078	20.9096	ppb	1.2807	6.1	75.5171
Mn 257.610	0.1340	ppb	0.0351	26.2	101.437
Mo 202.032	0.3392	ppb	0.1738	51.2	12.2105
Na 330.237	23478.1	ppb	249.223	1.1	1253.35
Ni 231.604	1.7578	ppb	1.3378	76.1	3.2862
Pb 220.353	1.0283	ppb	1.4573	141.7	2.4404
Sb 206.834	1.9177	ppb	4.2998	224.2	-1.1446
Se 196.026	0.0338	ppb	4.7586	14096.3	0.6283
Sn 189.925	24.3754	ppb	2.4816	10.2	22.1705
Sr 216.596	0.5550	ppb	0.4122	74.3	11.8291
Ti 334.941	1.8433	ppb	0.2417	13.1	429.625
Tl 190.794	1.4008	ppb	1.4518	103.6	0.4118
V 292.401	-0.0903	ppb	0.2680	296.9	0.6411
Zn 206.200	3.4383	ppb	1.0361	30.1	6.5754

680-88413-a-1-g (Samp) 3/22/2013, 3:34:49 AM Rack 4, Tube 7
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	5.2338	5.2002	4.2759
Al 308.215	15.8596	16.4363	15.7528
As 188.980	-0.3491u	2.5987	-0.5647u
B 249.678	10.8132	10.2583	10.2260
Ba 389.178	-1.7613u	-2.1664u	-1.4476u
Be 313.042	-0.0128u	-0.0150u	-0.0097u
Ca 370.602	7887	7894	7846
Cd 226.502	0.7553	0.4334	0.6033
Co 228.615	13.2028	13.3579	12.3852
Cr 267.716	0.6656	0.9468	0.6300
Cu 324.754	32606.8	32636.8	32467.8
Fe 271.441	9.4807	4.1186	9.6582
K 766.491	252.425	252.616	252.766
Mg 279.078	9806.32	9780.28	9759.64
Mn 257.610	742.995	742.185	739.315
Mo 202.032	0.4571	-0.5380u	-0.5017u
Na 330.237	74157.4	74523.9	74055.1
Ni 231.604	16857.6x	16666.1x	16717.4x
Pb 220.353	1.5261	0.5283	1.6354
Sb 206.834	10.7640	-0.1611u	3.2240
Se 196.026	1.7427	6.5993	2.2812
Sn 189.925	23.3967	23.4309	20.7211
Sr 216.596	-0.9856u	-2.4483u	-2.1664u
Ti 334.941	-0.2444u	-0.2579u	-0.4179u
Tl 190.794	-2.3208u	-3.7842u	-2.2669u
V 292.401	0.5311	0.2244	0.5670
Zn 206.200	601.351	597.412	607.034

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	4.9033b	ppb	0.5436	11.1	300.959
Al 308.215	16.0162b	ppb	0.3677	2.3	359.556
As 188.980	0.5616b	ppb	1.7675	314.7	-1.8403
B 249.678	10.4325b	ppb	0.3301	3.2	143.350
Ba 389.178	-1.7918b	ppb	0.3604	20.1	-43.3329
Be 313.042	-0.0125b	ppb	0.0027	21.3	-299.259
Ca 370.602	7876b	ppb	26.07	0.3	28954
Cd 226.502	0.5973b	ppb	0.1610	27.0	32.2210
Co 228.615	12.9820b	ppb	0.5226	4.0	179.905
Cr 267.716	0.7475b	ppb	0.1735	23.2	45.9818
Cu 324.754	32570.5b	ppb	90.1786	0.3	1708112
Fe 271.441	7.7525b	ppb	3.1483	40.6	22.3019
K 766.491	252.602b	ppb	0.1708	0.1	15750.8
Mg 279.078	9782.08b	ppb	23.3927	0.2	21396.8
Mn 257.610	741.498b	ppb	1.9338	0.3	175271
Mo 202.032	-0.1942b	ppb	0.5643	290.6	8.2969
Na 330.237	74245.5b	ppb	246.492	0.3	3972.31
Ni 231.604	16747.0xb	ppb	99.1185	0.6	44493.8
Pb 220.353	1.2299b	ppb	0.6101	49.6	2.9467
Sb 206.834	4.6090b	ppb	5.5927	121.3	1.5865
Se 196.026	3.5410b	ppb	2.6622	75.2	2.4445
Sn 189.925	22.5162b	ppb	1.5547	6.9	20.4684
Sr 216.596	-1.8668b	ppb	0.7760	41.6	-299.661
Ti 334.941	-0.3067b	ppb	0.0965	31.5	-171.679
Tl 190.794	-2.7906b	ppb	0.8609	30.8	-3.5711
V 292.401	0.4409b	ppb	0.1883	42.7	16.4153
Zn 206.200	601.932b	ppb	4.8371	0.8	821.852

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

680-88413-a-2-c (Samp) 3/22/2013, 3:40:17 AM Rack 4, Tube 8
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.2812	0.9497	1.0071
Al 308.215	7.8888	8.1286	6.1287
As 188.980	7.4627	-3.3494u	-1.0930u
B 249.678	7.0405	7.1964	6.8214
Ba 389.178	-0.5391u	-0.5889u	-0.8381u
Be 313.042	-0.0096u	0.0017	-0.0079u
Ca 370.602	1737	1753	1760
Cd 226.502	0.2858	0.3126	0.2547
Co 228.615	4.2836	4.3663	4.7308
Cr 267.716	0.1995	0.4374	0.3551
Cu 324.754	10623.1	10739.5	10608.6
Fe 271.441	7.3689	-2.3477u	5.5851
K 766.491	98.8310	100.149	100.476
Mg 279.078	1552.80	1556.65	1571.15
Mn 257.610	163.702	164.124	164.933
Mo 202.032	0.1190	0.2724	0.1616
Na 330.237	25874.5	25586.6	26037.6
Ni 231.604	6878.90	6908.59	6948.81
Pb 220.353	0.5532	-2.1505u	1.4684
Sb 206.834	2.7162	3.7311	5.7061
Se 196.026	-0.6646u	-0.2541u	-3.7132u
Sn 189.925	21.9409	23.3007	16.9665
Sr 216.596	0.4440u	-0.1388u	0.2060u
Ti 334.941	0.2619	0.2185	0.2875
Tl 190.794	-0.6019u	1.3803	3.9014
V 292.401	0.1382	0.3001	-0.0824u
Zn 206.200	154.655	154.080	158.286

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.0793	ppb	0.1772	16.4	24.3382
Al 308.215	7.3820	ppb	1.0921	14.8	309.167
As 188.980	1.0068	ppb	5.7037	566.5	-1.6144
B 249.678	7.0194	ppb	0.1884	2.7	111.054
Ba 389.178	-0.6554	ppb	0.1602	24.4	-38.2145
Be 313.042	-0.0053	ppb	0.0061	115.6	-283.085
Ca 370.602	1750	ppb	11.79	0.7	6432
Cd 226.502	0.2844	ppb	0.0290	10.2	20.0268
Co 228.615	4.4602	ppb	0.2379	5.3	71.1629
Cr 267.716	0.3307	ppb	0.1208	36.5	23.7517
Cu 324.754	10657.1	ppb	71.7861	0.7	559005
Fe 271.441	3.5354	ppb	5.1724	146.3	13.7088
K 766.491	99.8189	ppb	0.8711	0.9	6408.84
Mg 279.078	1560.20	ppb	9.6723	0.6	3437.00
Mn 257.610	164.253	ppb	0.6255	0.4	38876.3
Mo 202.032	0.1843	ppb	0.0792	43.0	11.0752
Na 330.237	25832.9	ppb	228.365	0.9	1378.53
Ni 231.604	6912.10	ppb	35.0881	0.5	18363.4
Pb 220.353	-0.0430	ppb	1.8817	4381.0	0.6461
Sb 206.834	4.0511	ppb	1.5204	37.5	1.0135
Se 196.026	-1.5440	ppb	1.8898	122.4	-0.0723
Sn 189.925	20.7360	ppb	3.3346	16.1	18.7935
Sr 216.596	0.1704	ppb	0.2931	172.0	-110.097
Ti 334.941	0.2560	ppb	0.0349	13.6	-39.1816
Tl 190.794	1.5599	ppb	2.2571	144.7	0.3539
V 292.401	0.1186	ppb	0.1920	161.9	6.9938
Zn 206.200	155.673	ppb	2.2804	1.5	213.953

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

X (Samp)	3/22/2013, 3:45:45 AM	Rack 4, Tube 9	
Weight: 1	Volume: 1	Dilution: 1	
Label	Replicates Concentration		
Ag 328.068	-0.1406u	0.3131	-0.2491u
Al 308.215	-1.8664u	-3.4723u	-3.6023u
As 188.980	-4.7807u	-0.0916u	0.8884
B 249.678	0.0930	-0.0335u	0.4622
Ba 389.178	-0.5887u	-0.1439u	-0.3448u
Be 313.042	0.0004	-0.0065u	0.0046
Ca 370.602	-0.2965u	3.339	0.1484
Cd 226.502	0.0562	0.2952	0.0203
Co 228.615	-0.4249u	0.6346	-0.3372u
Cr 267.716	-0.3268u	-0.1180u	-0.3609u
Cu 324.754	0.4985	0.5470	-0.0283u
Fe 271.441	4.8566	-1.3998u	3.5586
K 766.491	-1.6619u	-2.1338u	-2.1404u
Mg 279.078	1.2778	-1.9723u	-3.5487u
Mn 257.610	-0.0709u	-0.1121u	-0.0922u
Mo 202.032	-0.2311u	0.1465	-0.8696u
Na 330.237	59.3245	217.626	-32.3886u
Ni 231.604	1.5051	3.9663	1.8363
Pb 220.353	1.1379	0.8421	4.2598
Sb 206.834	1.8959	4.3389	5.2464
Se 196.026	-5.0351u	-7.8610u	1.7113
Sn 189.925	-2.5001u	-1.3079u	0.5180
Sr 216.596	0.0534	0.0145	0.2391
Ti 334.941	0.0649	0.0498	0.1074
Tl 190.794	-3.5263u	3.3917	0.6265
V 292.401	-0.0364u	-0.2024u	-0.2253u
Zn 206.200	1.2072	1.2581	0.3883

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0255	ppb	0.2982	1168.0	-56.1322
Al 308.215	-2.9804	ppb	0.9669	32.4	248.559
As 188.980	-1.3280	ppb	3.0300	228.2	-3.0852
B 249.678	0.1739	ppb	0.2575	148.1	46.2642
Ba 389.178	-0.3591	ppb	0.2228	62.0	-35.1236
Be 313.042	-0.0005	ppb	0.0056	1060.4	-271.866
Ca 370.602	1.064	ppb	1.983	186.4	1.160
Cd 226.502	0.1239	ppb	0.1494	120.6	13.8223
Co 228.615	-0.0425	ppb	0.5880	1383.2	13.7356
Cr 267.716	-0.2685	ppb	0.1315	49.0	-4.7376
Cu 324.754	0.3390	ppb	0.3190	94.1	183.512
Fe 271.441	2.3385	ppb	3.3019	141.2	10.9398
K 766.491	-1.9787	ppb	0.2744	13.9	184.399
Mg 279.078	-1.4144	ppb	2.4612	174.0	26.7321
Mn 257.610	-0.0917	ppb	0.0206	22.5	48.0385
Mo 202.032	-0.3181	ppb	0.5136	161.5	7.3903
Na 330.237	81.5207	ppb	126.477	155.1	-1.7759
Ni 231.604	2.4359	ppb	1.3357	54.8	5.0873
Pb 220.353	2.0800	ppb	1.8936	91.0	4.2400
Sb 206.834	3.8271	ppb	1.7329	45.3	0.7864
Se 196.026	-3.7283	ppb	4.9182	131.9	-1.1339
Sn 189.925	-1.0967	ppb	1.5201	138.6	-1.4865
Sr 216.596	0.1024	ppb	0.1200	117.3	6.9267
Ti 334.941	0.0740	ppb	0.0299	40.4	-99.2672
Tl 190.794	0.1640	ppb	3.4821	2123.4	-0.5217
V 292.401	-0.1547	ppb	0.1031	66.7	-0.8708
Zn 206.200	0.9512	ppb	0.4882	511.3	430.1898

E03212013.wvq. All Data Report 3/22/2013, 9:34:21 AM

CRI (Samp) 3/22/2013, 3:51:13 AM **Rack 4, Tube 10**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.1227	9.5225	10.0721
Al 308.215	204.511	199.472	200.291
As 188.980	27.5530	18.7631	18.6909
B 249.678	104.857	103.684	106.445
Ba 389.178	9.9232	9.8027	9.5721
Be 313.042	4.3131	4.2234	4.2642
Ca 370.602	518.8	513.3	513.5
Cd 226.502	5.4088	5.4970	5.3743
Co 228.615	10.4715	10.3565	11.6215
Cr 267.716	10.2369	9.9619	10.4582
Cu 324.754	20.1812	20.1228	19.7491
Fe 271.441	58.4027	53.8019	56.0627
K 766.491	1062.86	1044.20	1056.52
Mg 279.078	531.419	519.846	523.256
Mn 257.610	10.7537	10.5396	10.7429
Mo 202.032	9.8594	10.1895	10.3881
Na 330.237	979.287	1183.73	1021.76
Ni 231.604	45.3915	41.0275	42.0041
Pb 220.353	11.9833	6.0356	12.6458
Sb 206.834	24.2155	29.8817	21.1388
Se 196.026	18.7089	19.3438	17.8245
Sn 189.925	51.4823	50.6905	56.6564
Sr 216.596	11.0588	9.2582	10.5741
Ti 334.941	10.3911	10.1380	10.1234
Tl 190.794	20.3501	28.8988	26.5982
V 292.401	10.4885	10.0842	10.5949
Zn 206.200	20.7789	20.5221	22.0080

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.9058	ppb	0.3329	3.4	652.101
Al 308.215	201.425	ppb	2.7040	1.3	1443.89
As 188.980	21.6690	ppb	5.0958	23.5	11.2592
B 249.678	104.995	ppb	1.3855	1.3	1038.33
Ba 389.178	9.7660	ppb	0.1784	1.8	234.174
Be 313.042	4.2669	ppb	0.0449	1.1	8576.43
Ca 370.602	515.2	ppb	3.097	0.6	1887
Cd 226.502	5.4267	ppb	0.0633	1.2	223.206
Co 228.615	10.8165	ppb	0.6995	6.5	152.181
Cr 267.716	10.2190	ppb	0.2486	2.4	474.452
Cu 324.754	20.0177	ppb	0.2344	1.2	1215.65
Fe 271.441	56.0891	ppb	2.3005	4.1	106.701
K 766.491	1054.52	ppb	9.4880	0.9	64784.6
Mg 279.078	524.840	ppb	5.9472	1.1	1176.66
Mn 257.610	10.6788	ppb	0.1206	1.1	2595.01
Mo 202.032	10.1457	ppb	0.2671	2.6	84.1308
Na 330.237	1061.59	ppb	107.887	10.2	50.5495
Ni 231.604	42.8077	ppb	2.2903	5.4	112.352
Pb 220.353	10.2216	ppb	3.6403	35.6	18.1265
Sb 206.834	25.0787	ppb	4.4349	17.7	22.2823
Se 196.026	18.6257	ppb	0.7630	4.1	9.3399
Sn 189.925	52.9431	ppb	3.2402	6.1	48.6830
Sr 216.596	10.2970	ppb	0.9317	9.0	116.126
Ti 334.941	10.2175	ppb	0.1505	1.5	2946.08
Tl 190.794	25.2824	ppb	4.4236	17.5	18.4643
V 292.401	10.3892	ppb	0.2694	2.6	313.556
Zn 206.200	21.1030	ppb	0.7942	3.8	30.6136

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

CCV (Samp) 3/22/2013, 3:56:41 AM **Rack 4, Tube 11**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	514.989	510.461	516.968
Al 308.215	5042.66	5031.21	5057.03
As 188.980	491.829	492.370	497.468
B 249.678	2542.02	2558.88	2597.00
Ba 389.178	5006.77	4999.89	5025.13
Be 313.042	507.052	506.761	508.356
Ca 370.602	5051	5041	5062
Cd 226.502	509.351	509.014	512.888
Co 228.615	505.427	505.215	507.458
Cr 267.716	5100.81	5093.26	5108.21
Cu 324.754	4890.76	4913.19	4998.10
Fe 271.441	5078.08	5092.20	5124.44
K 766.491	9864.76	9897.66	9918.68
Mg 279.078	5016.17	5017.20	5040.77
Mn 257.610	5051.94	5049.28	5078.50
Mo 202.032	501.704	499.283	502.237
Na 330.237	7453.07	7593.35	7679.60
Ni 231.604	2556.30	2546.97	2568.16
Pb 220.353	521.010	523.212	528.649
Sb 206.834	932.728	936.529	950.418
Se 196.026	5075.67	5062.89	5120.15
Sn 189.925	5141.30	5118.08	5144.19
Sr 216.596	2544.14	2536.46	2546.86
Ti 334.941	498.578	497.695	498.281
Tl 190.794	5203.28	5205.23	5215.01
V 292.401	5046.24	5051.59	5068.23
Zn 206.200	2603.20	2588.89	2615.61

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	514.139	ppb	3.3357	0.6	36572.2
Al 308.215	5043.63	ppb	12.9350	0.3	29707.0
As 188.980	493.889	ppb	3.1112	0.6	305.641
B 249.678	2565.97	ppb	28.1663	1.1	24326.3
Ba 389.178	5010.60	ppb	13.0470	0.3	132404
Be 313.042	507.390	ppb	0.8494	0.2	1051755
Ca 370.602	5051	ppb	10.17	0.2	18399
Cd 226.502	510.418	ppb	2.1459	0.4	20162.7
Co 228.615	506.033	ppb	1.2384	0.2	6479.94
Cr 267.716	5100.76	ppb	7.4750	0.1	233064
Cu 324.754	4934.02	ppb	56.6196	1.1	258861
Fe 271.441	5098.24	ppb	23.7651	0.5	9045.55
K 766.491	9893.70	ppb	27.1774	0.3	605258
Mg 279.078	5024.72	ppb	13.9172	0.3	10927.3
Mn 257.610	5059.91	ppb	16.1596	0.3	1195333
Mo 202.032	501.075	ppb	1.5741	0.3	3675.80
Na 330.237	7575.34	ppb	114.337	1.5	374.628
Ni 231.604	2557.14	ppb	10.6218	0.4	6792.81
Pb 220.353	524.291	ppb	3.9319	0.7	896.445
Sb 206.834	939.892	ppb	9.3123	1.0	994.695
Se 196.026	5086.24	ppb	30.0546	0.6	2384.39
Sn 189.925	5134.52	ppb	14.3178	0.3	4766.28
Sr 216.596	2542.49	ppb	5.3923	0.2	27430.3
Ti 334.941	498.185	ppb	0.4494	0.1	149348
Tl 190.794	5207.84	ppb	6.2858	0.1	3933.84
V 292.401	5055.35	ppb	11.4643	0.2	151675
Zn 206.200	2602.56	ppb	13.3704	0.5	2533.99

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

CCB (Samp) 3/22/2013, 4:02:19 AM Rack 4, Tube 12
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.2425	-0.0163u	0.4432
Al 308.215	-2.5406u	-3.9728u	-3.0005u
As 188.980	-0.0981u	1.0097	-0.4211u
B 249.678	25.4121	21.4854	19.5101
Ba 389.178	0.1907	0.0558	-0.5229u
Be 313.042	0.0559	0.0627	0.0538
Ca 370.602	-3.611u	3.548	4.846
Cd 226.502	0.1290	0.0941	0.0311
Co 228.615	0.6018	0.3931	-0.3199u
Cr 267.716	0.1683	0.3463	0.6470
Cu 324.754	0.3111	0.3050	-0.6574u
Fe 271.441	-2.0150u	-0.3016u	-5.2649u
K 766.491	0.2705	-0.4741u	-0.9688u
Mg 279.078	-3.9309u	-4.3137u	-1.8680u
Mn 257.610	0.5450	0.5322	0.4959
Mo 202.032	0.6403	0.9182	0.6859
Na 330.237	-98.0127u	77.5581	241.360
Ni 231.604	2.5945	1.3198	1.6630
Pb 220.353	-2.0608u	1.6058	1.6057
Sb 206.834	10.5362	5.3133	4.1395
Se 196.026	8.1706	2.2995	-0.5092u
Sn 189.925	-0.2018u	1.4138	2.5956
Sr 216.596	0.6583	0.4878	0.1094
Ti 334.941	0.3103	0.1943	0.3172
Tl 190.794	2.7635	4.5000	2.0692
V 292.401	0.9473	0.2785	0.6688
Zn 206.200	0.8136	0.3052	1.9307

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5564	ppb	0.6370	114.5	-14.6082
Al 308.215	-3.1713	ppb	0.7312	23.1	247.591
As 188.980	0.1635	ppb	0.7504	459.0	-2.1552
B 249.678	22.1359	ppb	3.0043	13.6	254.136
Ba 389.178	-0.0921	ppb	0.3791	411.6	-28.0774
Be 313.042	0.0575	ppb	0.0046	8.0	-151.827
Ca 370.602	1.594	ppb	4.555	285.7	3.721
Cd 226.502	0.0847	ppb	0.0496	58.6	12.2625
Co 228.615	0.2250	ppb	0.4833	214.8	17.1124
Cr 267.716	0.3872	ppb	0.2420	62.5	25.2205
Cu 324.754	-0.0138	ppb	0.5574	4047.6	165.036
Fe 271.441	-2.5271	ppb	2.5210	99.8	2.4540
K 766.491	-0.3908	ppb	0.6238	159.6	281.490
Mg 279.078	-3.3709	ppb	1.3155	39.0	22.4448
Mn 257.610	0.5244	ppb	0.0255	4.9	193.540
Mo 202.032	0.7481	ppb	0.1491	19.9	15.2107
Na 330.237	73.6352	ppb	169.720	230.5	-2.1986
Ni 231.604	1.8591	ppb	0.6596	35.5	3.5546
Pb 220.353	0.3836	ppb	2.1169	551.9	1.3396
Sb 206.834	6.6630	ppb	3.4052	51.1	3.6447
Se 196.026	3.3203	ppb	4.4290	133.4	2.1682
Sn 189.925	1.2692	ppb	1.4043	110.6	0.7099
Sr 216.596	0.4185	ppb	0.2809	67.1	10.3114
Ti 334.941	0.2739	ppb	0.0690	25.2	-39.3073
Tl 190.794	3.1109	ppb	1.2521	40.2	1.7063
V 292.401	0.6315	ppb	0.3359	53.2	22.4890
Zn 206.200	1.0165	ppb	0.8315	81.8	3.2770

E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

Cont Calib Verif (CCV) 3/22/2013, 4:07:48 AM Rack 4, Tube 13
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	513.382	523.566	521.325
Al 308.215	5118.08	5098.02	5115.31
As 188.980	486.843	490.029	495.818
B 249.678	2564.66	2572.12	2601.39
Ba 389.178	5033.30	5010.39	5030.28
Be 313.042	508.375	507.817	509.945
Ca 370.602	5099	5082	5104
Cd 226.502	511.128	510.641	512.985
Co 228.615	506.524	505.165	507.672
Cr 267.716	5121.64	5112.25	5134.91
Cu 324.754	4915.22	4960.89	4978.14
Fe 271.441	5166.04	5122.44	5165.02
K 766.491	9943.20	9819.39	9888.42
Mg 279.078	5046.24	5031.71	5051.23
Mn 257.610	5079.93	5063.21	5096.36
Mo 202.032	500.129	502.407	504.396
Na 330.237	7754.89	7530.72	7634.56
Ni 231.604	2557.90	2558.23	2570.87
Pb 220.353	523.355	523.650	523.640
Sb 206.834	1004.74	997.429	1003.86
Se 196.026	5076.50	5071.31	5088.39
Sn 189.925	5077.73	5113.91	5101.87
Sr 216.596	2538.40	2520.63	2548.07
Ti 334.941	490.401	489.469	491.941
Tl 190.794	5199.26	5141.64	5165.08
V 292.401	5079.06	5043.87	5073.30
Zn 206.200	2602.24	2607.98	2615.90

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	519.424	ppb	5.3513	1.0	36950.1	103.88486
Al 308.215	5110.47	ppb	10.8692	0.2	30097.4	102.20943
As 188.980	490.897	ppb	4.5498	0.9	303.773	98.17931
B 249.678	2579.39	ppb	19.4146	0.8	24453.2	103.17561
Ba 389.178	5024.66	ppb	12.4453	0.2	132776	100.49317
Be 313.042	508.712	ppb	1.1037	0.2	1054497	101.74242
Ca 370.602	5095	ppb	11.71	0.2	18551	101.90150
Cd 226.502	511.584	ppb	1.2369	0.2	20208.9	102.31686
Co 228.615	506.454	ppb	1.2550	0.2	6485.03	101.29074
Cr 267.716	5122.94	ppb	11.3845	0.2	234078	102.45871
Cu 324.754	4951.42	ppb	32.5125	0.7	259774	99.02839
Fe 271.441	5151.16	ppb	24.8816	0.5	9138.41	103.02328
K 766.491	9883.67	ppb	62.0428	0.6	604645	98.83668
Mg 279.078	5043.06	ppb	10.1441	0.2	10967.0	100.86124
Mn 257.610	5079.83	ppb	16.5732	0.3	1200040	101.59669
Mo 202.032	502.311	ppb	2.1352	0.4	3684.85	100.46220
Na 330.237	7640.06	ppb	112.183	1.5	378.116	101.86741
Ni 231.604	2562.34	ppb	7.3945	0.3	6806.61	102.49343
Pb 220.353	523.548	ppb	0.1676	0.0	895.182	104.70961
Sb 206.834	1002.01	ppb	3.9910	0.4	1057.63	100.20087
Se 196.026	5078.73	ppb	8.7528	0.2	2380.88	101.57468
Sn 189.925	5097.83	ppb	18.4222	0.4	4732.22	101.95668
Sr 216.596	2535.70	ppb	13.9161	0.5	27356.9	101.42802
Ti 334.941	490.603	ppb	1.2485	0.3	147074	98.12070
Tl 190.794	5168.66	ppb	28.9750	0.6	3904.18	103.37319
V 292.401	5065.41	ppb	18.8713	0.4	151976	101.30818
Zn 206.200	2608.71	ppb	6.8602	0.3	3542.33	104.34833

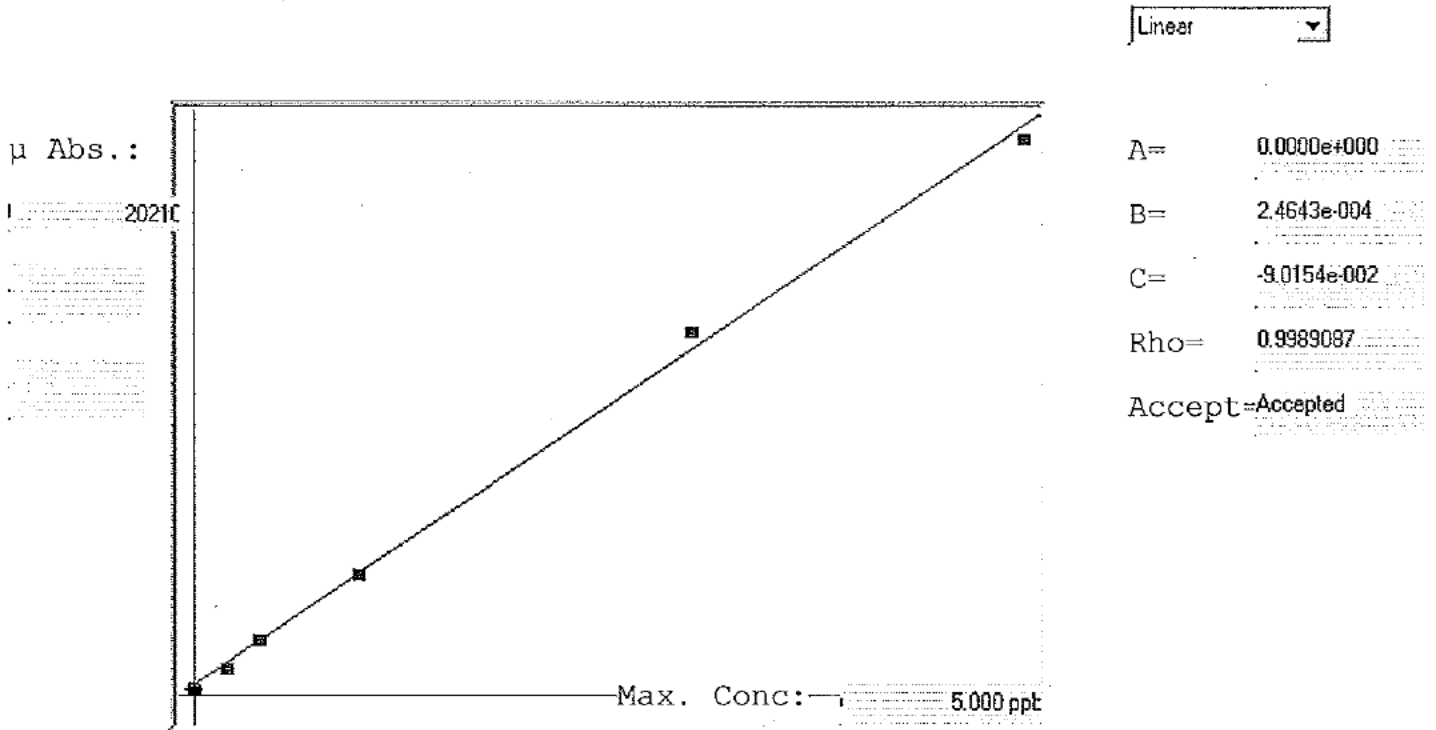
E03212013.vvq. All Data Report 3/22/2013, 9:34:21 AM

Cont Calib Blank (CCB) 3/22/2013, 4:13:16 AM Rack 4, Tube 14
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0295	0.2070	0.2409
Al 308.215	-1.5260u	-0.5294u	-0.7334u
As 188.980	3.2976	7.2450	5.2348
B 249.678	30.2705	25.3617	22.3362
Ba 389.178	0.4739	1.1474	0.7247
Be 313.042	0.0905	0.0919	0.0868
Ca 370.602	0.7054	12.25	15.52
Cd 226.502	0.1265	0.0452	0.0325
Co 228.615	0.3787	0.1505	0.8331
Cr 267.716	0.4170	0.8170	1.0524
Cu 324.754	0.3434	0.9844	0.5894
Fe 271.441	-3.6045u	5.8761	-4.4268u
K 766.491	-0.1663u	0.5387	0.0108
Mg 279.078	0.2259	-2.1435u	-1.7059u
Mn 257.610	0.9743	0.9745	0.9759
Mo 202.032	1.5915	0.8566	0.4460
Na 330.237	21.5195	121.693	84.2630
Ni 231.604	1.3583	0.9513	2.5988
Pb 220.353	1.8357	2.0426	0.9658
Sb 206.834	0.6154	7.2767	6.5657
Se 196.026	6.5380	0.5099	5.7420
Sn 189.925	1.2905	2.1720	3.4079
Sr 216.596	0.4143	0.3877	1.4494
Ti 334.941	0.3406	0.4053	0.2862
Tl 190.794	5.1655	2.6034	3.1150
V 292.401	1.0679	0.8606	0.7488
Zn 206.200	-0.4963u	2.4703	1.2761

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1591	ppb	0.1136	71.4	-42.9594	0.15912
Al 308.215	-0.9296	ppb	0.5265	56.6	260.721	-0.92964
As 188.980	5.2591	ppb	1.9738	37.5	1.0229	5.25914
B 249.678	25.9894	ppb	4.0042	15.4	290.600	25.98944
Ba 389.178	0.7820	ppb	0.3404	43.5	-4.9556	0.78196
Be 313.042	0.0897	ppb	0.0026	2.9	-84.9574	0.08974
Ca 370.602	9.492	ppb	7.782	82.0	31.84	9.49169
Cd 226.502	0.0680	ppb	0.0510	74.9	11.6293	0.06805
Co 228.615	0.4541	ppb	0.3475	76.5	20.0274	0.45408
Cr 267.716	0.7621	ppb	0.3212	42.1	42.3576	0.76214
Cu 324.754	0.6391	ppb	0.3234	50.6	199.278	0.63905
Fe 271.441	-0.7184	ppb	5.7258	797.0	5.6458	-0.71839
K 766.491	0.1277	ppb	0.3668	287.1	313.197	0.12774
Mg 279.078	-1.2079	ppb	1.2608	104.4	27.1659	-1.20786
Mn 257.610	0.9749	ppb	0.0009	0.1	300.006	0.97489
Mo 202.032	0.9647	ppb	0.5804	60.2	16.7984	0.96468
Na 330.237	75.8252	ppb	50.6171	66.8	-2.0857	75.82521
Ni 231.604	1.6361	ppb	0.8581	52.5	2.9624	1.63612
Pb 220.353	1.6147	ppb	0.5714	35.4	3.4428	1.61468
Sb 206.834	4.8193	ppb	3.6580	75.9	1.7791	4.81929
Se 196.026	4.2633	ppb	3.2748	76.8	2.6100	4.26334
Sn 189.925	2.2902	ppb	1.0636	46.4	1.6578	2.29016
Sr 216.596	0.7505	ppb	0.6055	80.7	13.9006	0.75048
Ti 334.941	0.3440	ppb	0.0597	17.3	-18.2718	0.34403
Tl 190.794	3.6280	ppb	1.3559	37.4	2.0965	3.62797
V 292.401	0.8924	ppb	0.1620	18.1	30.2576	0.89244
Zn 206.200	1.0834	ppb	1.4927	137.8	3.3673	1.08335

Hg Norm2



Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
blank	0.000	-0.034	-0.034	229	3.559	231	232	224		
0.2	0.200	0.156	-0.044	999	0.0 %	1000	999	1000		
0.4	0.400	0.413	0.013	2040	0.7 %	2025	2037	2060		
1.0	1.000	1.007	0.007	4453	0.0 %	4452	4456	4452		
3.0	3.000	3.167	0.167	13218	0.8 %	13354	13222	13079		
5.0	5.000	4.890	-0.110	20210	0.6 %	20079	20181	20371		

C03202013A

Method: Hg Norm2

Operator: Admin

Date of Analysis: 20 Mar 2013 15:11:42

Sample ID	Extended ID	Mean	RSD	Date
blank		229	1.5542	20 Mar 2013 15:12:24
0.2		1000	0.0472	20 Mar 2013 15:14:48
0.4		2041	0.7116	20 Mar 2013 15:17:15
1.0		4453	0.0423	20 Mar 2013 15:19:43
3.0		13218	0.8496	20 Mar 2013 15:22:10
5.0		20210	0.5987	20 Mar 2013 15:24:35
ICV		3.0734	0.4234	20 Mar 2013 15:27:04
ICB		-0.0357	-1.6912	20 Mar 2013 15:29:31
CRA		0.1554	0.5840	20 Mar 2013 15:31:57
CCV		2.5120	0.7443	20 Mar 2013 15:34:24
CCB		-0.0328	-0.9365	20 Mar 2013 15:36:52
MB	BCB 7471 269772	-0.0695	-1.5053	20 Mar 2013 15:39:18
LCS	BCB 7471 269772	2.4109	0.8335	20 Mar 2013 15:41:45
88298-33	BCB 7471 269772	3.5599	0.2956	20 Mar 2013 15:44:10
88298-34	BCB 7471 269772	1.2030	0.1642	20 Mar 2013 15:46:36
88298-35	BCB 7471 269772	7.5122	0.1366	20 Mar 2013 15:49:01
88348-4	BCB 7471 269772	1.4127	1.2535	20 Mar 2013 15:51:27
88348-4S	BCB 7471 269772	2.4417	0.5268	20 Mar 2013 15:53:52
88348-4SD	BCB 7471 269772	2.4095	0.4246	20 Mar 2013 15:56:17
88348-17	BCB 7471 269772	3.1391	0.5386	20 Mar 2013 15:58:43
88348-22	BCB 7471 269772	4.2552	0.5982	20 Mar 2013 16:01:09
CCV		2.5163	0.1709	20 Mar 2013 16:03:35
CCB		-0.0312	-0.9859	20 Mar 2013 16:06:02
88348-33	BCB 7471 269772	6.1311	1.6739	20 Mar 2013 16:08:30
88348-34	BCB 7471 269772	1.4850	0.6716	20 Mar 2013 16:10:57
88358-3	BCB 7471 269772	0.0454	6.9679	20 Mar 2013 16:13:25
88358-5	BCB 7471 269772	3.3598	0.2906	20 Mar 2013 16:15:50
88358-5S	BCB 7471 269772	3.5908	0.7220	20 Mar 2013 16:18:16
88358-5SD	BCB 7471 269772	4.4672	1.2810	20 Mar 2013 16:20:44
88358-6	BCB 7471 269772	3.4524	0.0430	20 Mar 2013 16:23:10
88358-7	BCB 7471 269772	0.4347	0.0535	20 Mar 2013 16:25:35
88420-12	BCB 7471 269772	2.9306	0.2620	20 Mar 2013 16:28:01
88420-12S	BCB 7471 269772	3.7339	0.3469	20 Mar 2013 16:30:28
CCV		2.6043	0.2706	20 Mar 2013 16:32:54
CCB		-0.0322	-1.6511	20 Mar 2013 16:35:20
88420-12SD	BCB 7471 269772	3.7361	0.5819	20 Mar 2013 16:37:48
88420-26	BCB 7471 269772	3.2971	0.1129	20 Mar 2013 16:40:14
88420-29	BCB 7471 269772	2.6889	0.1401	20 Mar 2013 16:42:40
88420-32	BCB 7471 269772	3.0666	0.0993	20 Mar 2013 16:45:10
88420-33	BCB 7471 269772	4.4197	0.7376	20 Mar 2013 16:47:39
88420-34	BCB 7471 269772	3.3072	0.8534	20 Mar 2013 16:50:05
88348-35	BCB 7471 269772	4.8210	0.3159	20 Mar 2013 16:52:32
88348-35S	BCB 7471 269772	5.3900	0.0934	20 Mar 2013 16:54:57
88348-35SD	BCB 7471 269772	5.7326	1.1915	20 Mar 2013 16:57:24
88401-7	BCB 7471 269772	-0.0097	-4.3024	20 Mar 2013 16:59:51
CCV		2.5576	0.1434	20 Mar 2013 17:02:17
CCB		-0.0285	-4.3192	20 Mar 2013 17:04:43
MB	BCB 7471 269769	-0.0669	-0.9187	20 Mar 2013 17:07:08
LCS	BCB 7471 269769	2.4630	0.6299	20 Mar 2013 17:09:34
88427-1	BCB 7471 269769	2.0624	0.1279	20 Mar 2013 17:12:01
88427-1S	BCB 7471 269769	3.0858	0.4938	20 Mar 2013 17:14:28
88427-1SD	BCB 7471 269769	3.2739	0.2771	20 Mar 2013 17:16:55
88427-2	BCB 7471 269769	3.6089	0.0371	20 Mar 2013 17:19:24
88427-3	BCB 7471 269769	3.9483	0.1387	20 Mar 2013 17:21:52
88427-4	BCB 7471 269769	11.0741	0.2120	20 Mar 2013 17:24:17
88427-5	BCB 7471 269769	12.8106	0.4639	20 Mar 2013 17:26:43

C03202013A

Method: Hg Norm2

Operator: Admin

Date of Analysis: 20 Mar 2013 15:11:42

Sample ID	Extended ID	Mean	RSD	Date
88427-6	BCB 7471 269769	1.6735	0.4438	20 Mar 2013 17:29:10
CCV		2.5972	0.4726	20 Mar 2013 17:31:36
CCB		-0.0270	-2.1524	20 Mar 2013 17:34:02
88427-7	BCB 7471 269769	4.0097	0.4538	20 Mar 2013 17:36:30
88427-8	BCB 7471 269769	4.7787	0.8915	20 Mar 2013 17:38:57
88427-9	BCB 7471 269769	10.3687	0.1650	20 Mar 2013 17:41:23
88427-10	BCB 7471 269769	20.0594	0.7158	20 Mar 2013 17:43:48
88427-11	BCB 7471 269769	-0.0714	-0.8451	20 Mar 2013 17:46:15
88427-12	BCB 7471 269769	-0.0576	-0.6048	20 Mar 2013 17:48:41
88427-13	BCB 7471 269769	6.3753	0.4041	20 Mar 2013 17:51:07
88427-14	BCB 7471 269769	-0.0712	-0.4896	20 Mar 2013 17:53:35
88427-15	BCB 7471 269769	-0.0564	-1.2360	20 Mar 2013 17:56:02
88427-16	BCB 7471 269769	9.2193	0.0864	20 Mar 2013 17:58:29
CCV		2.6162	0.4432	20 Mar 2013 18:00:56
CCB		-0.0279	-3.7023	20 Mar 2013 18:03:22
88427-17	BCB 7471 269769	7.3336	0.3496	20 Mar 2013 18:05:47
88427-18	BCB 7471 269769	4.5830	0.1237	20 Mar 2013 18:08:14
MB	BCB 7471 269698	-0.0578	-0.2010	20 Mar 2013 18:10:40
LCS	BCB 7471 269698	2.5331	0.2522	20 Mar 2013 18:13:06
88339-2	BCB 7471 269698	-0.0349	-2.1845	20 Mar 2013 18:15:33
88358-3	BCB 7471 269698	0.0256	8.1850	20 Mar 2013 18:17:59
88358-4	BCB 7471 269698	0.0296	1.7978	20 Mar 2013 18:20:26
88358-5	BCB 7471 269698	2.8859	0.1450	20 Mar 2013 18:22:53
88358-6	BCB 7471 269698	3.9566	0.4300	20 Mar 2013 18:25:21
88339-7	BCB 7471 269698	3.2858	0.0980	20 Mar 2013 18:27:47
CCV		2.5606	0.9216	20 Mar 2013 18:30:15
CCB		-0.0263	-2.6474	20 Mar 2013 18:32:42
88339-7S	BCB 7471 269698	3.6833	0.3328	20 Mar 2013 18:35:09
88339-7SD	BCB 7471 269698	3.8751	1.0411	20 Mar 2013 18:37:35
88339-8	BCB 7471 269698	0.3068	0.8660	20 Mar 2013 18:40:01
88339-9	BCB 7471 269698	0.4274	0.6859	20 Mar 2013 18:42:28
88339-10	BCB 7471 269698	0.3276	0.4926	20 Mar 2013 18:44:54
88339-11	BCB 7471 269698	0.2711	0.3235	20 Mar 2013 18:47:20
88339-12	BCB 7471 269698	0.7440	0.6630	20 Mar 2013 18:49:46
88339-13	BCB 7471 269698	0.3695	0.4941	20 Mar 2013 18:52:13
88339-14	BCB 7471 269698	0.4838	0.4011	20 Mar 2013 18:54:39
88339-15	BCB 7471 269698	0.6705	0.2552	20 Mar 2013 18:57:05
CCV		2.5393	0.0929	20 Mar 2013 18:59:32
CCB		-0.0312	-1.6243	20 Mar 2013 19:01:58
88339-16	BCB 7471 269698	0.4915	0.3334	20 Mar 2013 19:04:23
88339-17	BCB 7471 269698	0.1736	0.2917	20 Mar 2013 19:06:49
88339-18	BCB 7471 269698	0.9270	1.2723	20 Mar 2013 19:09:17
88339-19	BCB 7471 269698	2.7828	0.8616	20 Mar 2013 19:11:44
88339-20	BCB 7471 269698	0.5259	0.6073	20 Mar 2013 19:14:11
88339-21	BCB 7471 269698	2.0048	0.2108	20 Mar 2013 19:16:39
MB	BCB 7471 269705	-0.0264	-1.1638	20 Mar 2013 19:19:05
LCS	BCB 7471 269705	2.4965	0.1566	20 Mar 2013 19:21:32
88339-22	BCB 7471 269705	0.5916	0.5456	20 Mar 2013 19:23:59
88339-23	BCB 7471 269705	1.6530	0.5487	20 Mar 2013 19:26:25
CCV		2.5650	0.0981	20 Mar 2013 19:28:51
CCB		-0.0268	-1.9848	20 Mar 2013 19:31:17
88339-24	BCB 7471 269705	1.0283	0.2554	20 Mar 2013 19:33:42
88362-1	BCB 7471 269705	0.3071	0.1966	20 Mar 2013 19:36:08
88362-2	BCB 7471 269705	2.8935	0.2344	20 Mar 2013 19:38:35
88362-3	BCB 7471 269705	1.4656	0.8662	20 Mar 2013 19:41:02
88362-4	BCB 7471 269705	-0.0034	-32.8507	20 Mar 2013 19:43:28

C03202013A

Method: Hg Norm2

Operator: Admin

Date of Analysis: 20 Mar 2013 15:11:42

Sample ID	Extended ID	Mean	RSD	Date
88399-2	BCB 7471 269705	1.0259	0.9054	20 Mar 2013 19:45:55
88399-3	BCB 7471 269705	0.0907	1.1524	20 Mar 2013 19:48:21
88339-4	BCB 7471 269705	-0.0704	-0.5713	20 Mar 2013 19:50:47
88399-5	BCB 7471 269705	0.2272	0.5806	20 Mar 2013 19:53:15
88399-6	BCB 7471 269705	1.2232	0.7375	20 Mar 2013 19:55:41
CCV		2.5964	0.5023	20 Mar 2013 19:58:09
CCB		-0.0267	-1.1495	20 Mar 2013 20:00:36
88399-7	BCB 7471 269705	0.0661	2.9988	20 Mar 2013 20:03:03
88401-25	BCB 7471 269705	0.1569	1.1569	20 Mar 2013 20:05:30
88401-26	BCB 7471 269705	3.0954	0.6273	20 Mar 2013 20:07:57
88401-27	BCB 7471 269705	0.1560	0.2579	20 Mar 2013 20:10:23
88401-28	BCB 7471 269705	0.1206	0.5096	20 Mar 2013 20:12:49
88401-29	BCB 7471 269705	0.2763	0.1927	20 Mar 2013 20:15:16
88401-29S	BCB 7471 269705	1.4434	0.6592	20 Mar 2013 20:17:43
88401-29SD	BCB 7471 269705	1.3211	0.6854	20 Mar 2013 20:20:09
MB	BCB 7471 269707	-0.0063	-21.3153	20 Mar 2013 20:22:37
LCS	BCB 7471 269707	2.6566	0.3214	20 Mar 2013 20:25:04
CCV		2.5906	0.4827	20 Mar 2013 20:27:30
CCB		-0.0288	-1.3976	20 Mar 2013 20:29:57
88401-1	BCB 7471 269707	0.1707	0.1361	20 Mar 2013 20:32:22
88401-1S	BCB 7471 269707	1.2720	0.5102	20 Mar 2013 20:34:48
88401-1SD	BCB 7471 269707	1.2340	0.6180	20 Mar 2013 20:37:15
88401-2	BCB 7471 269707	0.4421	0.4824	20 Mar 2013 20:39:42
88401-3	BCB 7471 269707	3.2702	0.3022	20 Mar 2013 20:42:09
88401-4	BCB 7471 269707	0.1246	0.8289	20 Mar 2013 20:44:36
88401-5	BCB 7471 269707	1.1591	0.4080	20 Mar 2013 20:47:03
88401-6	BCB 7471 269707	0.6017	0.0511	20 Mar 2013 20:49:31
88401-8	BCB 7471 269707	0.8883	0.9863	20 Mar 2013 20:51:59
88401-9	BCB 7471 269707	0.4701	0.2718	20 Mar 2013 20:54:26
CCV		2.5893	0.5291	20 Mar 2013 20:56:53
CCB		-0.0253	-1.8395	20 Mar 2013 20:59:20
88401-10	BCB 7471 269707	0.6324	0.4209	20 Mar 2013 21:01:45
88401-11	BCB 7471 269707	0.6224	0.8826	20 Mar 2013 21:04:11
88401-12	BCB 7471 269707	0.5824	0.2158	20 Mar 2013 21:06:38
88401-13	BCB 7471 269707	1.5857	0.9404	20 Mar 2013 21:09:05
88401-14	BCB 7471 269707	0.1981	0.6914	20 Mar 2013 21:11:32
88401-15	BCB 7471 269707	0.0295	1.9670	20 Mar 2013 21:13:59
88401-16	BCB 7471 269707	4.4876	0.0504	20 Mar 2013 21:16:27
88401-16S	BCB 7471 269707	3.6952	0.6761	20 Mar 2013 21:18:53
88401-16SD	BCB 7471 269707	27.8551	0.7972	20 Mar 2013 21:21:21
88401-17	BCB 7471 269707	0.0437	0.7983	20 Mar 2013 21:23:48
CCV		2.5844	0.7709	20 Mar 2013 21:26:17
CCB		-0.0285	-0.7049	20 Mar 2013 21:28:43
88401-18	BCB 7471 269707	0.0589	0.9033	20 Mar 2013 21:31:08
88401-19	BCB 7471 269707	0.0577	1.5199	20 Mar 2013 21:33:36
88401-23	BCB 7471 269707	1.8511	0.2395	20 Mar 2013 21:36:04
88401-24	BCB 7471 269707	8.0023	0.6884	20 Mar 2013 21:38:30
CCV		2.5536	0.8712	20 Mar 2013 21:40:58
CCB		-0.0293	-2.0612	20 Mar 2013 21:43:26
CCV		2.5398	0.5153	21 Mar 2013 10:34:52
CCB		-0.0256	-2.7239	21 Mar 2013 10:37:18
88298-35	1/5 BCB 269772	1.3539	0.9803	21 Mar 2013 10:39:43
88348-33	1/5 BCB 269772	1.0951	0.0424	21 Mar 2013 10:42:09
88348-35	1/5 BCB 269772	0.8471	0.5547	21 Mar 2013 10:44:34
88348-35S	1/5 BCB 269772	0.9453	0.7788	21 Mar 2013 10:47:00
88348-35SD	1/5 BCB 269772	1.0236	0.0744	21 Mar 2013 10:49:24

C03202013A

Method: Hg Norm2

Operator: Admin

Date of Analysis: 20 Mar 2013 15:11:42

Sample ID	Extended ID	Mean	RSD	Date
88427-4	1/5 BCB 269769	2.0497	0.0891	21 Mar 2013 10:51:49
88427-5	1/5 BCB 269769	2.4049	0.5575	21 Mar 2013 10:54:15
88427-6	STR BCB 269769	1.7254	0.3688	21 Mar 2013 10:56:40
88427-9	1/5 BCB 269769	1.9523	0.4192	21 Mar 2013 10:59:06
88427-10	1/10 BCB 269769	1.9893	0.8135	21 Mar 2013 11:01:32
CCV		2.6846	0.8475	21 Mar 2013 11:03:58
CCB		-0.0192	-6.3806	21 Mar 2013 11:06:24
88427-11	STR BCB 269769	-0.0641	-0.6533	21 Mar 2013 11:08:49
88427-13	1/5 BCB 269769	1.2380	0.4132	21 Mar 2013 11:11:16
88427-16	1/5 BCB 269769	1.8078	0.5414	21 Mar 2013 11:13:43
88427-17	1/5 BCB 269769	1.3760	0.2131	21 Mar 2013 11:16:10
88401-16	STR BCB 269707	4.5992	0.9273	21 Mar 2013 11:18:35
88401-16S	STR BCB 269707	3.7075	0.3113	21 Mar 2013 11:21:01
88401-16SD	1/10 BCB 269707	2.8022	0.6304	21 Mar 2013 11:23:27
88401-24	1/5 BCB 269707	1.5085	0.6136	21 Mar 2013 11:25:53
CCV		2.6169	0.3049	21 Mar 2013 11:28:19
CCB		-0.0200	-1.5365	21 Mar 2013 11:30:45

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-88420-3

SDG No.: 68088420-3

Batch Number: 269729 Batch Start Date: 03/18/13 13:13 Batch Analyst: Boyuk, Brian

Batch Method: 3050B Batch End Date: 03/18/13 16:11

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MS Cal Stk 00019	MS lcs1cpi 00037	MS LCS2_wk 00142
MB 680-269729/1		3050B, 6010C		CALC NOT SET TO RUN	1.00 g	100 mL			
LCS 680-269729/3		3050B, 6010C		CALC NOT SET TO RUN	1.04 g	100 mL	2 mL		1 mL
680-88420-B-12	CV1151A-CS-SP	3050B, 6010C	T	CALC NOT SET TO RUN	1.15 g	100 mL			
680-88420-B-12 MS	CV1151A-CS-SP	3050B, 6010C	T	CALC NOT SET TO RUN	1.15 g	100 mL		1 mL	1 mL
680-88420-B-12 MSD	CV1151A-CS-SP	3050B, 6010C	T	CALC NOT SET TO RUN	1.14 g	100 mL		1 mL	1 mL
680-88420-B-26	CV0865B-CS-SP	3050B, 6010C	T	CALC NOT SET TO RUN	1.17 g	100 mL			
680-88420-B-29	CV0766A-CS-SP	3050B, 6010C	T	CALC NOT SET TO RUN	1.11 g	100 mL			

Batch Notes	
Analyst	RM
Balance ID	25
Blank Soil Lot Number	P-TEPHCH-00013 2958846
Hydrogen peroxide lot number	52223236
Lot # of hydrochloric acid	0000024317
Lot # of Nitric Acid	L10022
Hood ID or number	9
Hot Block ID number	10
Nominal Amount Used	1.0 g
Pipette ID	ME 4
Perform Calculation (0=No, 1=Yes)	0
Temperature	96 Degrees C
ID number of the thermometer	MEPREP 14
Digestion Tube/Cup Lot #	147592-264

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.: 680-88420-3

SDG No.: 68088420-3

Batch Number: 269879 Batch Start Date: 03/20/13 07:22 Batch Analyst: Boyuk, Brian

Batch Method: 3050B Batch End Date: 03/20/13 10:42

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MS lcs1cpi 00037	MS_LCS1_WK 00001	MS_LCS2_wk 00142
MB 680-269879/1		3050B, 6010C		CALC NOT SET TO RUN	1.00 g	100 mL			
LCS 680-269879/2		3050B, 6010C		CALC NOT SET TO RUN	1.00 g	100 mL		1 mL	1 mL
680-88401-B-16 MS		3050B, 6010C	T	CALC NOT SET TO RUN	1.06 g	100 mL	1 mL		1 mL
680-88401-B-16 MSD		3050B, 6010C	T	CALC NOT SET TO RUN	1.00 g	100 mL	1 mL		1 mL
680-88420-A-32	CV1151A-CS-SP SIEVED	3050B, 6010C	T	CALC NOT SET TO RUN	1.14 g	100 mL			
680-88420-A-33	CV08658-CS-SP SIEVED	3050B, 6010C	T	CALC NOT SET TO RUN	1.07 g	100 mL			
680-88420-A-34	CV0766A-CS-SP SIEVED	3050B, 6010C	T	CALC NOT SET TO RUN	1.02 g	100 mL			

Batch Notes	
Analyst	RM
Balance ID	25
Blank Soil Lot Number	P-TEPHCH-00013 2958846
Hydrogen peroxide lot number	52223236
Lot # of hydrochloric acid	0000024317
Lot # of Nitric Acid	L10022
Hood ID or number	8
Hot Block ID number	10
Nominal Amount Used	1.0 g
Pipette ID	ME 4
Perform Calculation (0=No, 1=Yes)	0
Temperature	96 Degrees C
ID number of the thermometer	MEPREP 14
Digestion Tube/Cup Lot #	147592-264

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.: 680-88420-3

SDG No.: 68088420-3

Batch Number: 269698 Batch Start Date: 03/18/13 11:09 Batch Analyst: Umbehr, Uli

Batch Method: 7471A Batch End Date: 03/20/13 11:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	hg_icvint 00084	Hg_Int_Cal 00090	AnalysisComment	
CCV 680-269698/32		7471A, 7471B		50 mL	50 mL		0.25 mL		
CCB 680-269698/33		7471A, 7471B		50 mL	50 mL				
ICV 680-269698/35		7471A, 7471B		50 mL	50 mL	0.15 mL			
ICB 680-269698/36		7471A, 7471B		50 mL	50 mL				
CRA 680-269698/37		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.: 680-88420-3

SDG No.: 68088420-3

Batch Number: 269698 Batch Start Date: 03/18/13 11:09 Batch Analyst: Umbehr, Uli

Batch Method: 7471A Batch End Date: 03/20/13 11:00

Batch Notes	
Hydroxylamine Sulfate Lot Number	2965828
Hydroxylamine Hydrochloride Lot	3001958
Aqua Regia Lot Number	3001953
Balance ID	27
Blank Soil Lot Number	2021822
Sulfuric Acid Lot Number	2956908
Lot # of hydrochloric acid	2968294
Lot # of Nitric Acid	2950992
Hood ID or number	WB2
Hot Block ID number	11, 12
Potassium Persulfate Lot Number	3001730
Potassium Permanganate Lot Number	2384878
NaCL Lot #	2891381
Nominal Amount Used	0.5 - 0.6 g g
Oven, Bath or Block Temperature 1	95 Degrees C
Oven, Bath or Block Temperature 2	95 Degrees C
Pipette ID	ME1, ME7, ME10
Repittetor Volume Check	01/03/13
Stannous Chloride Lot Number	3001827
SOP Number	ME1, ME7, ME10
ID number of the thermometer	ME9, ME10
Digestion Tube/Cup Lot #	J147592-264-100
Uncorrected Temperature	95 Celsius
Uncorrected Temperature 2	95 Celsius

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-88420-3

SDG No.: 68088420-3

Batch Number: 269772 Batch Start Date: 03/18/13 16:37 Batch Analyst: Umbehr, Uli

Batch Method: 7471B Batch End Date: 03/20/13 11:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Hg_Int_Cal 00090			
MB 680-269772/1		7471B, 7471B		0.58 g	50 mL				
LCS 680-269772/2		7471B, 7471B		0.50 g	50 mL	0.25 mL			
680-88420-B-12	CV1151A-CS-SP	7471B, 7471B	T	0.56 g	50 mL				
680-88420-B-12 MS	CV1151A-CS-SP	7471B, 7471B	T	0.53 g	50 mL	0.1 mL			
680-88420-B-12 MSD	CV1151A-CS-SP	7471B, 7471B	T	0.50 g	50 mL	0.1 mL			
680-88420-B-26	CV0865B-CS-SP	7471B, 7471B	T	0.52 g	50 mL				
680-88420-B-29	CV0766A-CS-SP	7471B, 7471B	T	0.51 g	50 mL				
680-88420-A-32	CV1151A-CS-SP SIEVED	7471B, 7471B	T	0.55 g	50 mL				
680-88420-A-33	CV08658-CS-SP SIEVED	7471B, 7471B	T	0.56 g	50 mL				
680-88420-A-34	CV0766A-CS-SP SIEVED	7471B, 7471B	T	0.55 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.: 680-88420-3

SDG No.: 68088420-3

Batch Number: 269772 Batch Start Date: 03/18/13 16:37 Batch Analyst: Umbehr, Uli

Batch Method: 7471B Batch End Date: 03/20/13 11:00

Batch Notes	
Hydroxylamine Sulfate Lot Number	2965828
Hydroxylamine Hydrochloride Lot	3001958
Aqua Regia Lot Number	3001953
Balance ID	27
Blank Soil Lot Number	2021822
Sulfuric Acid Lot Number	2956908
Lot # of hydrochloric acid	2968294
Lot # of Nitric Acid	2950992
Hood ID or number	WB2
Hot Block ID number	11, 12
Potassium Persulfate Lot Number	3001730
Potassium Permanganate Lot Number	2384878
NaCL Lot #	2891381
Nominal Amount Used	0.5 - 0.6 g g
Oven, Bath or Block Temperature 1	95 Degrees C
Oven, Bath or Block Temperature 2	95 Degrees C
Pipette ID	ME1, ME7, ME10
Repittetor Volume Check	01/03/13
Stannous Chloride Lot Number	3001827
SOP Number	ME1, ME7, ME10
ID number of the thermometer	ME9, ME10
Digestion Tube/Cup Lot #	J147592-264-100
Uncorrected Temperature	95 Celsius
Uncorrected Temperature 2	95 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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: **LL PAH** REQUIRED ANALYSIS: **PCRA-8 METALS** PAGE **1** OF **4**

TAL (LAB) PROJECT MANAGER: **LISA HARVEY** P.O. NUMBER: CONTRACT NO.: STANDARD REPORT DELIVERY: DATE DUE: EXPEDITED REPORT DELIVERY (SURCHARGE): DATE DUE:

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable): **PRESERVATIVE** NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE IDENTIFICATION: **DATE** **TIME** **COMPOSITE** **AQUEOUS (WATER)** **SOLID OR SEMISOLID** **AIR** **NONAQUEOUS LIQUID (OIL, SOLVENT, ...)** **NUMBER OF CONTAINERS SUBMITTED** **REMARKS**

DATE	TIME	SAMPLE IDENTIFICATION	COMPOSITE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
3-14-13	0901	CV0200A-CS-SP	C	X			X		
	0916	CV0200B-CS-SP	C	X			X		
	0840	FM0347A-CS	C	X			X		
	0945	HP0035A-CS	C	X			X		
	0945	HP0035A-CSD	C	X			X		
	1010	CV0951A-CS	C	X			X		
	1045	CV0618A-CS	C	X			X		
	1003	CV0843A-CS-SP	C	X			X		
	1011	CV0843B-CS-SP	C	X			X		
	1040	CV0826A-CS-SP	C	X			X		
	1051	CV0826B-CS-SP	C	X			X		
	1119	CV1151A-CS-SP	C	X			X	X	

RELINQUISHED BY: (SIGNATURE) *[Signature]* DATE: **3-15-13** TIME: **1000** RECEIVED BY: (SIGNATURE) DATE: TIME: RELINQUISHED BY: (SIGNATURE) DATE: TIME: RECEIVED BY: (SIGNATURE) DATE: TIME:

LABORATORY USE ONLY
 RECEIVED FOR LABORATORY BY: (SIGNATURE) *[Signature]* DATE: **3/16/13** TIME: **0920** CUSTODY INTACT YES: NO: CUSTODY SEAL NO.: SAVANNAH LOG NO.: **680-88420** LABORATORY REMARKS: **3.4°C**

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: 680-88420-3

TestAmerica Sample Delivery Group: 68088420-3
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:
3/27/2013 9:33:08 AM

Bernard Kirkland
Project Manager I
bernard.kirkland@testamericainc.com

Designee for

Lisa Harvey
Project Manager II
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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Case Narrative

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

TestAmerica Job ID: 680-88420-3
SDG: 68088420-3

Job ID: 680-88420-3

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88420-3

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 03/16/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.4 C.

METALS (ICP)

Samples CV1151A-CS-SP (680-88420-12), CV0865B-CS-SP (680-88420-26), CV0766A-CS-SP (680-88420-29), CV1151A-CS-SP SIEVED (680-88420-32), CV08658-CS-SP SIEVED (680-88420-33) and CV0766A-CS-SP SIEVED (680-88420-34) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 03/18/2013 and 03/20/2013 and analyzed on 03/19/2013 and 03/21/2013.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-88401-16 in batch 680-270285. Barium and Lead exceeded the rpd limit.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV1151A-CS-SP (680-88420-12) in batch 680-270010. Also, Barium exceeded the rpd limit.

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

The serial dilution performed for the following sample(s) associated with batch 680-269729 was outside control limits for aluminum, barium, calcium, iron, manganese, manganese, lead, vanadium, and zinc: (680-88339-7 SD)

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples CV1151A-CS-SP (680-88420-12), CV0865B-CS-SP (680-88420-26), CV0766A-CS-SP (680-88420-29), CV1151A-CS-SP SIEVED (680-88420-32), CV08658-CS-SP SIEVED (680-88420-33) and CV0766A-CS-SP SIEVED (680-88420-34) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 03/18/2013 and analyzed on 03/20/2013.

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
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-88420-3
SDG: 68088420-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88420-12	CV1151A-CS-SP	Solid	03/14/13 11:19	03/16/13 09:20
680-88420-26	CV0865B-CS-SP	Solid	03/14/13 13:22	03/16/13 09:20
680-88420-29	CV0766A-CS-SP	Solid	03/14/13 14:21	03/16/13 09:20
680-88420-32	CV1151A-CS-SP SIEVED	Solid	03/14/13 11:19	03/16/13 09:20
680-88420-33	CV0865B-CS-SP SIEVED	Solid	03/14/13 13:22	03/16/13 09:20
680-88420-34	CV0766A-CS-SP SIEVED	Solid	03/14/13 14:21	03/16/13 09:20

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Method Summary

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

TestAmerica Job ID: 680-88420-3
SDG: 68088420-3

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

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Definitions/Glossary

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

TestAmerica Job ID: 680-88420-3
SDG: 68088420-3

Qualifiers

Metals

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

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

TestAmerica Job ID: 680-88420-3
 SDG: 68088420-3

Client Sample ID: CV1151A-CS-SP

Lab Sample ID: 680-88420-12

Date Collected: 03/14/13 11:19

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 78.0

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	45		2.2	0.66	mg/Kg	☼	03/18/13 13:13	03/19/13 18:12	1
Barium	280		1.1	0.33	mg/Kg	☼	03/18/13 13:13	03/19/13 18:12	1
Cadmium	3.1		0.56	0.11	mg/Kg	☼	03/18/13 13:13	03/19/13 18:12	1
Chromium	73		1.1	0.56	mg/Kg	☼	03/18/13 13:13	03/19/13 18:12	1
Lead	360		1.1	0.59	mg/Kg	☼	03/18/13 13:13	03/19/13 18:12	1
Selenium	2.8	U	2.8	1.1	mg/Kg	☼	03/18/13 13:13	03/19/13 18:12	1
Silver	0.53	J	1.1	0.11	mg/Kg	☼	03/18/13 13:13	03/19/13 18:12	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	0.34		0.023	0.0094	mg/Kg	☼	03/18/13 16:37	03/20/13 16:28	1

Client Sample ID: CV0865B-CS-SP

Lab Sample ID: 680-88420-26

Date Collected: 03/14/13 13:22

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 83.4

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	19		2.1	0.60	mg/Kg	☼	03/18/13 13:13	03/19/13 18:39	1
Barium	250		1.0	0.31	mg/Kg	☼	03/18/13 13:13	03/19/13 18:39	1
Cadmium	2.5		0.51	0.10	mg/Kg	☼	03/18/13 13:13	03/19/13 18:39	1
Chromium	38		1.0	0.51	mg/Kg	☼	03/18/13 13:13	03/19/13 18:39	1
Lead	230		1.0	0.54	mg/Kg	☼	03/18/13 13:13	03/19/13 18:39	1
Selenium	2.6	U	2.6	1.0	mg/Kg	☼	03/18/13 13:13	03/19/13 18:39	1
Silver	0.16	J	1.0	0.098	mg/Kg	☼	03/18/13 13:13	03/19/13 18:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.38		0.023	0.0095	mg/Kg	☼	03/18/13 16:37	03/20/13 16:40	1

Client Sample ID: CV0766A-CS-SP

Lab Sample ID: 680-88420-29

Date Collected: 03/14/13 14:21

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 70.7

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	29		2.5	0.75	mg/Kg	☼	03/18/13 13:13	03/19/13 18:44	1
Barium	530		1.3	0.38	mg/Kg	☼	03/18/13 13:13	03/19/13 18:44	1
Cadmium	1.8		0.64	0.13	mg/Kg	☼	03/18/13 13:13	03/19/13 18:44	1
Chromium	37		1.3	0.64	mg/Kg	☼	03/18/13 13:13	03/19/13 18:44	1
Lead	340		1.3	0.67	mg/Kg	☼	03/18/13 13:13	03/19/13 18:44	1
Selenium	1.3	J	3.2	1.3	mg/Kg	☼	03/18/13 13:13	03/19/13 18:44	1
Silver	1.9		1.3	0.12	mg/Kg	☼	03/18/13 13:13	03/19/13 18:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.37		0.028	0.011	mg/Kg	☼	03/18/13 16:37	03/20/13 16:42	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88420-3
 SDG: 68088420-3

Client Sample ID: CV1151A-CS-SP SIEVED

Lab Sample ID: 680-88420-32

Date Collected: 03/14/13 11:19

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 99.5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	29		1.8	0.52	mg/Kg	☼	03/20/13 07:22	03/21/13 13:23	1
Barium	260		0.88	0.26	mg/Kg	☼	03/20/13 07:22	03/21/13 13:23	1
Cadmium	4.2		0.44	0.088	mg/Kg	☼	03/20/13 07:22	03/21/13 13:23	1
Chromium	41		0.88	0.44	mg/Kg	☼	03/20/13 07:22	03/21/13 13:23	1
Lead	530		0.88	0.47	mg/Kg	☼	03/20/13 07:22	03/21/13 13:23	1
Selenium	2.2	U	2.2	0.88	mg/Kg	☼	03/20/13 07:22	03/21/13 13:23	1
Silver	0.87	J	0.88	0.085	mg/Kg	☼	03/20/13 07:22	03/21/13 13:23	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	0.28		0.018	0.0075	mg/Kg	☼	03/18/13 16:37	03/20/13 16:45	1

Client Sample ID: CV08658-CS-SP SIEVED

Lab Sample ID: 680-88420-33

Date Collected: 03/14/13 13:22

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 92.7

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	17		2.0	0.59	mg/Kg	☼	03/20/13 07:22	03/21/13 13:28	1
Barium	280		1.0	0.30	mg/Kg	☼	03/20/13 07:22	03/21/13 13:28	1
Cadmium	3.0		0.50	0.10	mg/Kg	☼	03/20/13 07:22	03/21/13 13:28	1
Chromium	51		1.0	0.50	mg/Kg	☼	03/20/13 07:22	03/21/13 13:28	1
Lead	310		1.0	0.53	mg/Kg	☼	03/20/13 07:22	03/21/13 13:28	1
Selenium	2.5	U	2.5	1.0	mg/Kg	☼	03/20/13 07:22	03/21/13 13:28	1
Silver	0.14	J	1.0	0.097	mg/Kg	☼	03/20/13 07:22	03/21/13 13:28	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	0.43		0.019	0.0079	mg/Kg	☼	03/18/13 16:37	03/20/13 16:47	1

Client Sample ID: CV0766A-CS-SP SIEVED

Lab Sample ID: 680-88420-34

Date Collected: 03/14/13 14:21

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 85.6

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	29		2.3	0.68	mg/Kg	☼	03/20/13 07:22	03/21/13 13:34	1
Barium	500		1.1	0.34	mg/Kg	☼	03/20/13 07:22	03/21/13 13:34	1
Cadmium	1.8		0.57	0.11	mg/Kg	☼	03/20/13 07:22	03/21/13 13:34	1
Chromium	42		1.1	0.57	mg/Kg	☼	03/20/13 07:22	03/21/13 13:34	1
Lead	360		1.1	0.61	mg/Kg	☼	03/20/13 07:22	03/21/13 13:34	1
Selenium	2.9	U	2.9	1.1	mg/Kg	☼	03/20/13 07:22	03/21/13 13:34	1
Silver	0.21	J	1.1	0.11	mg/Kg	☼	03/20/13 07:22	03/21/13 13:34	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	0.35		0.021	0.0087	mg/Kg	☼	03/18/13 16:37	03/20/13 16:50	1

QC Sample Results

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

TestAmerica Job ID: 680-88420-3
 SDG: 68088420-3

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-269729/1-A
Matrix: Solid
Analysis Batch: 270010

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 269729

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0	0.59	mg/Kg		03/18/13 13:13	03/19/13 16:17	1
Barium	1.0	U	1.0	0.30	mg/Kg		03/18/13 13:13	03/19/13 16:17	1
Cadmium	0.50	U	0.50	0.10	mg/Kg		03/18/13 13:13	03/19/13 16:17	1
Chromium	1.0	U	1.0	0.50	mg/Kg		03/18/13 13:13	03/19/13 16:17	1
Lead	1.0	U	1.0	0.53	mg/Kg		03/18/13 13:13	03/19/13 16:17	1
Selenium	2.5	U	2.5	1.0	mg/Kg		03/18/13 13:13	03/19/13 16:17	1
Silver	1.0	U	1.0	0.096	mg/Kg		03/18/13 13:13	03/19/13 16:17	1

Lab Sample ID: LCS 680-269729/3-A
Matrix: Solid
Analysis Batch: 270010

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 269729

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	19.2	21.2		mg/Kg		110	75 - 125
Barium	19.2	19.2		mg/Kg		100	75 - 125
Cadmium	19.2	19.2		mg/Kg		100	75 - 125
Chromium	19.2	19.3		mg/Kg		100	75 - 125
Lead	19.2	19.0		mg/Kg		99	75 - 125
Selenium	19.2	19.2		mg/Kg		100	75 - 125
Silver	19.2	19.7		mg/Kg		103	75 - 125

Lab Sample ID: 680-88420-12 MS
Matrix: Solid
Analysis Batch: 270010

Client Sample ID: CV1151A-CS-SP
Prep Type: Total/NA
Prep Batch: 269729

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	45		11.2	58.3	4	mg/Kg	☼	122	75 - 125
Barium	280		11.2	257	4	mg/Kg	☼	-248	75 - 125
Cadmium	3.1		5.58	8.94		mg/Kg	☼	104	75 - 125
Chromium	73		11.2	73.3	4	mg/Kg	☼	6	75 - 125
Lead	360		5.58	415	4	mg/Kg	☼	919	75 - 125
Selenium	2.8	U	11.2	10.3		mg/Kg	☼	93	75 - 125
Silver	0.53	J	5.58	6.24		mg/Kg	☼	102	75 - 125

Lab Sample ID: 680-88420-12 MSD
Matrix: Solid
Analysis Batch: 270010

Client Sample ID: CV1151A-CS-SP
Prep Type: Total/NA
Prep Batch: 269729

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	45		11.2	52.8	F	mg/Kg	☼	72	75 - 125	10	20
Barium	280		11.2	373	4 F	mg/Kg	☼	783	75 - 125	37	20
Cadmium	3.1		5.62	8.85		mg/Kg	☼	101	75 - 125	1	20
Chromium	73		11.2	77.8	4	mg/Kg	☼	45	75 - 125	6	20
Lead	360		5.62	414	4	mg/Kg	☼	893	75 - 125	0	20
Selenium	2.8	U	11.2	9.12		mg/Kg	☼	81	75 - 125	13	20
Silver	0.53	J	5.62	6.15		mg/Kg	☼	100	75 - 125	1	20

QC Sample Results

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

TestAmerica Job ID: 680-88420-3
 SDG: 68088420-3

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

Lab Sample ID: MB 680-269879/1-A
Matrix: Solid
Analysis Batch: 270285

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 269879

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0	0.59	mg/Kg		03/20/13 07:22	03/21/13 10:51	1
Barium	1.0	U	1.0	0.30	mg/Kg		03/20/13 07:22	03/21/13 10:51	1
Cadmium	0.50	U	0.50	0.10	mg/Kg		03/20/13 07:22	03/21/13 10:51	1
Chromium	1.0	U	1.0	0.50	mg/Kg		03/20/13 07:22	03/21/13 10:51	1
Lead	1.0	U	1.0	0.53	mg/Kg		03/20/13 07:22	03/21/13 10:51	1
Selenium	2.5	U	2.5	1.0	mg/Kg		03/20/13 07:22	03/21/13 10:51	1
Silver	1.0	U	1.0	0.096	mg/Kg		03/20/13 07:22	03/21/13 10:51	1

Lab Sample ID: LCS 680-269879/2-A
Matrix: Solid
Analysis Batch: 270285

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 269879

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.0	11.0		mg/Kg		110	75 - 125
Barium	10.0	10.9		mg/Kg		109	75 - 125
Cadmium	5.00	5.58		mg/Kg		112	75 - 125
Chromium	10.0	11.4		mg/Kg		114	75 - 125
Lead	5.00	5.74		mg/Kg		115	75 - 125
Selenium	10.0	10.6		mg/Kg		106	75 - 125
Silver	5.00	4.36		mg/Kg		87	75 - 125

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

Lab Sample ID: MB 680-269772/1-A
Matrix: Solid
Analysis Batch: 270183

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 269772

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	U	0.017	0.0071	mg/Kg		03/18/13 16:37	03/20/13 15:39	1

Lab Sample ID: LCS 680-269772/2-A
Matrix: Solid
Analysis Batch: 270183

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 269772

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.250	0.241		mg/Kg		96	80 - 120

Lab Sample ID: 680-88420-12 MS
Matrix: Solid
Analysis Batch: 270183

Client Sample ID: CV1151A-CS-SP
Prep Type: Total/NA
Prep Batch: 269772

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.34		0.121	0.452		mg/Kg	☼	96	80 - 120

QC Sample Results

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

TestAmerica Job ID: 680-88420-3
 SDG: 68088420-3

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

Lab Sample ID: 680-88420-12 MSD
 Matrix: Solid
 Analysis Batch: 270183

Client Sample ID: CV1151A-CS-SP
 Prep Type: Total/NA
 Prep Batch: 269772

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.34		0.128	0.479		mg/Kg	✱	112	80 - 120	6	20

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QC Association Summary

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

TestAmerica Job ID: 680-88420-3
 SDG: 68088420-3

Metals

Prep Batch: 269729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88420-12	CV1151A-CS-SP	Total/NA	Solid	3050B	
680-88420-12 MS	CV1151A-CS-SP	Total/NA	Solid	3050B	
680-88420-12 MSD	CV1151A-CS-SP	Total/NA	Solid	3050B	
680-88420-26	CV0865B-CS-SP	Total/NA	Solid	3050B	
680-88420-29	CV0766A-CS-SP	Total/NA	Solid	3050B	
LCS 680-269729/3-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 680-269729/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 269772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88420-12	CV1151A-CS-SP	Total/NA	Solid	7471B	
680-88420-12 MS	CV1151A-CS-SP	Total/NA	Solid	7471B	
680-88420-12 MSD	CV1151A-CS-SP	Total/NA	Solid	7471B	
680-88420-26	CV0865B-CS-SP	Total/NA	Solid	7471B	
680-88420-29	CV0766A-CS-SP	Total/NA	Solid	7471B	
680-88420-32	CV1151A-CS-SP SIEVED	Total/NA	Solid	7471B	
680-88420-33	CV08658-CS-SP SIEVED	Total/NA	Solid	7471B	
680-88420-34	CV0766A-CS-SP SIEVED	Total/NA	Solid	7471B	
LCS 680-269772/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 680-269772/1-A	Method Blank	Total/NA	Solid	7471B	

Prep Batch: 269879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88420-32	CV1151A-CS-SP SIEVED	Total/NA	Solid	3050B	
680-88420-33	CV08658-CS-SP SIEVED	Total/NA	Solid	3050B	
680-88420-34	CV0766A-CS-SP SIEVED	Total/NA	Solid	3050B	
LCS 680-269879/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 680-269879/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 270010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88420-12	CV1151A-CS-SP	Total/NA	Solid	6010C	269729
680-88420-12 MS	CV1151A-CS-SP	Total/NA	Solid	6010C	269729
680-88420-12 MSD	CV1151A-CS-SP	Total/NA	Solid	6010C	269729
680-88420-26	CV0865B-CS-SP	Total/NA	Solid	6010C	269729
680-88420-29	CV0766A-CS-SP	Total/NA	Solid	6010C	269729
LCS 680-269729/3-A	Lab Control Sample	Total/NA	Solid	6010C	269729
MB 680-269729/1-A	Method Blank	Total/NA	Solid	6010C	269729

Analysis Batch: 270183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88420-12	CV1151A-CS-SP	Total/NA	Solid	7471B	269772
680-88420-12 MS	CV1151A-CS-SP	Total/NA	Solid	7471B	269772
680-88420-12 MSD	CV1151A-CS-SP	Total/NA	Solid	7471B	269772
680-88420-26	CV0865B-CS-SP	Total/NA	Solid	7471B	269772
680-88420-29	CV0766A-CS-SP	Total/NA	Solid	7471B	269772
680-88420-32	CV1151A-CS-SP SIEVED	Total/NA	Solid	7471B	269772
680-88420-33	CV08658-CS-SP SIEVED	Total/NA	Solid	7471B	269772
680-88420-34	CV0766A-CS-SP SIEVED	Total/NA	Solid	7471B	269772
LCS 680-269772/2-A	Lab Control Sample	Total/NA	Solid	7471B	269772
MB 680-269772/1-A	Method Blank	Total/NA	Solid	7471B	269772

TestAmerica Savannah

QC Association Summary

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

TestAmerica Job ID: 680-88420-3
SDG: 68088420-3

Metals (Continued)

Analysis Batch: 270285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88420-32	CV1151A-CS-SP SIEVED	Total/NA	Solid	6010C	269879
680-88420-33	CV08658-CS-SP SIEVED	Total/NA	Solid	6010C	269879
680-88420-34	CV0766A-CS-SP SIEVED	Total/NA	Solid	6010C	269879
LCS 680-269879/2-A	Lab Control Sample	Total/NA	Solid	6010C	269879
MB 680-269879/1-A	Method Blank	Total/NA	Solid	6010C	269879

General Chemistry

Analysis Batch: 135607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88420-12	CV1151A-CS-SP	Total/NA	Solid	Moisture	
680-88420-12 MS	CV1151A-CS-SP	Total/NA	Solid	Moisture	
680-88420-12 MSD	CV1151A-CS-SP	Total/NA	Solid	Moisture	
LCS 660-135607/1	Lab Control Sample	Total/NA	Solid	Moisture	
LCSD 660-135607/13	Lab Control Sample Dup	Total/NA	Solid	Moisture	

Analysis Batch: 135642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88420-26	CV0865B-CS-SP	Total/NA	Solid	Moisture	
680-88420-26 MS	CV0865B-CS-SP	Total/NA	Solid	Moisture	
680-88420-26 MSD	CV0865B-CS-SP	Total/NA	Solid	Moisture	
LCS 660-135642/1	Lab Control Sample	Total/NA	Solid	Moisture	
LCSD 660-135642/12	Lab Control Sample Dup	Total/NA	Solid	Moisture	

Analysis Batch: 135659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88420-29	CV0766A-CS-SP	Total/NA	Solid	Moisture	
MB 660-135659/1	Method Blank	Total/NA	Solid	Moisture	

Analysis Batch: 269742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88420-32	CV1151A-CS-SP SIEVED	Total/NA	Solid	Moisture	
680-88420-33	CV08658-CS-SP SIEVED	Total/NA	Solid	Moisture	
680-88420-34	CV0766A-CS-SP SIEVED	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 680-88420-3
 SDG: 68088420-3

Client Sample ID: CV1151A-CS-SP

Lab Sample ID: 680-88420-12

Date Collected: 03/14/13 11:19

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			269729	03/18/13 13:13	BB	TAL SAV
Total/NA	Analysis	6010C		1	270010	03/19/13 18:12	BCB	TAL SAV
Total/NA	Prep	7471B			269772	03/18/13 16:37	UU	TAL SAV
Total/NA	Analysis	7471B		1	270183	03/20/13 16:28	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	135607	03/21/13 08:16	AG	TAL TAM

Client Sample ID: CV0865B-CS-SP

Lab Sample ID: 680-88420-26

Date Collected: 03/14/13 13:22

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			269729	03/18/13 13:13	BB	TAL SAV
Total/NA	Analysis	6010C		1	270010	03/19/13 18:39	BCB	TAL SAV
Total/NA	Prep	7471B			269772	03/18/13 16:37	UU	TAL SAV
Total/NA	Analysis	7471B		1	270183	03/20/13 16:40	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	135642	03/21/13 11:56	AG	TAL TAM

Client Sample ID: CV0766A-CS-SP

Lab Sample ID: 680-88420-29

Date Collected: 03/14/13 14:21

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 70.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			269729	03/18/13 13:13	BB	TAL SAV
Total/NA	Analysis	6010C		1	270010	03/19/13 18:44	BCB	TAL SAV
Total/NA	Prep	7471B			269772	03/18/13 16:37	UU	TAL SAV
Total/NA	Analysis	7471B		1	270183	03/20/13 16:42	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	135659	03/22/13 06:22	AG	TAL TAM

Client Sample ID: CV1151A-CS-SP SIEVED

Lab Sample ID: 680-88420-32

Date Collected: 03/14/13 11:19

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 99.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			269772	03/18/13 16:37	UU	TAL SAV
Total/NA	Analysis	7471B		1	270183	03/20/13 16:45	BCB	TAL SAV
Total/NA	Prep	3050B			269879	03/20/13 07:22	BB	TAL SAV
Total/NA	Analysis	6010C		1	270285	03/21/13 13:23	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	269742	03/18/13 14:21	FS	TAL SAV

Lab Chronicle

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

TestAmerica Job ID: 680-88420-3
 SDG: 68088420-3

Client Sample ID: CV08658-CS-SP SIEVED

Lab Sample ID: 680-88420-33

Date Collected: 03/14/13 13:22

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			269772	03/18/13 16:37	UU	TAL SAV
Total/NA	Analysis	7471B		1	270183	03/20/13 16:47	BCB	TAL SAV
Total/NA	Prep	3050B			269879	03/20/13 07:22	BB	TAL SAV
Total/NA	Analysis	6010C		1	270285	03/21/13 13:28	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	269742	03/18/13 14:21	FS	TAL SAV

Client Sample ID: CV0766A-CS-SP SIEVED

Lab Sample ID: 680-88420-34

Date Collected: 03/14/13 14:21

Matrix: Solid

Date Received: 03/16/13 09:20

Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			269772	03/18/13 16:37	UU	TAL SAV
Total/NA	Analysis	7471B		1	270183	03/20/13 16:50	BCB	TAL SAV
Total/NA	Prep	3050B			269879	03/20/13 07:22	BB	TAL SAV
Total/NA	Analysis	6010C		1	270285	03/21/13 13:34	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	269742	03/18/13 14:21	FS	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE 35TH AVE REMOVAL	PROJECT NO. 2005148-1356	PROJECT LOCATION (STATE) AL	MATRIX TYPE	REQUIRED ANALYSIS	PAGE 1	OF 4
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TAL (LAB) PROJECT MANAGER LISA HARVEY	P.O. NUMBER	CONTRACT NO.	DATE	STANDARD REPORT DELIVERY <input type="checkbox"/>	DATE DUE
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(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)	LL PAH	PCPA-B METALS	EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="checkbox"/>	DATE DUE
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NUMBER OF COOLERS SUBMITTED PER SHIPMENT:	PRESERVATIVE
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SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS										REMARKS						
DATE	TIME							1	2	3	4	5	6	7	8	9	10		11	12				
3-14-13	0901	CV0200A-CS-SP	C	X			X																	
	0916	CV0200B-CS-SP	C	X			X																	
	0840	FM0347A-CS	C	X			X																	
	0945	HP0035A-CS	C	X			X																	
	0945	HP0035A-CSD	C	X			X																	
	1010	CV0951A-CS	C	X			X																	
	1045	CV0618A-CS	C	X			X																	
	1003	CV0843A-CS-SP	C	X			X																	
	1011	CV0843B-CS-SP	C	X			X																	
	1040	CV0826A-CS-SP	C	X			X																	
	1051	CV0826B-CS-SP	C	X			X																	
	1119	CV1151A-CS-SP	C	X			X	X																

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 3-15-13	TIME 1000	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE 3/16/13	TIME 0920	CUSTODY INTACT YES <input type="checkbox"/> NO <input type="checkbox"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680-88420	LABORATORY REMARKS 3.4°C
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3/27/2013

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 3	OF 4
TAL (LAB) PROJECT MANAGER LISA HARVEY	P.O. NUMBER	CONTRACT NO.			STANDARD REPORT DELIVERY <input type="checkbox"/>	

(b) (6)

COMPOSITE (C) OR GRAB (G) INDICATE	AGUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH PCBA-S METALS	PRESERVATIVE	STANDARD REPORT DELIVERY <input type="checkbox"/>	DATE DUE _____
							EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="checkbox"/>	DATE DUE _____
							NUMBER OF COOLERS SUBMITTED PER SHIPMENT:	

Page 16 of 20

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AGUEOUS (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	
3-14-13	1310	CV0865A-CS-SP	C	X			X														
	1322	CV0865B-CS-SP	C	X			X	X													
	1350	CV0770A-CS-SP	C	X			X														
	1400	CV0770B-CS-SP	C	X			X														
	1421	CV0760A-CS-SP	C	X			X	X													
	1521	CV0968A-CS-SP	C	X			X														
	1531	CV0968B-CS-SP	C	X			X														
	1119	CV151A-CS-SP SIEVED	C	X				X													
	1322	CV0865B-CS-SP SIEVED	C	X				X													
	1421	CV0760A-CS-SP SIEVED	C	X				X													

RELINQUISHED BY: (SIGNATURE) <i>Conc. [Signature]</i>	DATE 3-15-13	TIME 1000	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE 3/16/13	TIME 0920	CUSTODY INTACT YES <input type="checkbox"/> NO <input type="checkbox"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680-88420	LABORATORY REMARKS 3.4°C
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3/27/2013



Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88420-3

SDG Number: 68088420-3

Login Number: 88420

List Number: 1

Creator: Conner, Keaton

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have leg ble labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88420-3

SDG Number: 68088420-3

Login Number: 88420

List Number: 1

Creator: Edwards, Erricka

List Source: TestAmerica Tampa

List Creation: 03/20/13 08:50 AM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have leg ble labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

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

TestAmerica Job ID: 680-88420-3
 SDG: 68088420-3

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	03-31-13
A2LA	ISO/IEC 17025		399.01	03-31-13
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
Connecticut	State Program	1	PH-0161	03-31-13
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	04-01-13
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-13
Florida	NELAP	4	E84282	06-30-13

TestAmerica Savannah

Certification Summary

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

TestAmerica Job ID: 680-88420-3
SDG: 68088420-3

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12