

REDACTED

Data Validation Checklist Inorganic Analyses

Project: 35TH Avenue Superfund Site
 Laboratory: TestAmerica - Savannah, GA
 Method: SW-846 6010C and 7471B, and EPA 200.7 and 245.1
 Matrix: Soil and Water
 Reviewer: Karen Marie Trujillo, URS Group
 Concurrence¹: Nicole Lancaster / Martha Meyers-Lee, URS Group

Project No: 15268508.20000
 Job ID.: 680-89275-3
 Associated Samples: Refer to Attachment A (Sample Summary)
 Date Collected: 04/10/2013 & 04/11/2013
 Date: 05/07/2013
 Date: 05/08/2013

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?	✓			Except arsenic, target analytes were not detected during the analysis of method blanks. <ul style="list-style-type: none"> • MB 640-272923/1-A, 200.7: Arsenic @ 6.55 J 	

¹ Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
				µg/L (RL 20, MDL 4.6) Calibration blanks were not evaluated.	
11. Were target analytes reported in equipment/rinsate blanks analyses above the DL?	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. Rinsate blank 04113-RB-Bowls + Spoons (680-89275-1) was collected during the week of 4/08/13. Target analytes were not detected during the EPA Methods 200.7 and 245.1 analyses of the rinsate blank, and all results were reported under this Test America Job ID.	
12. Were contaminants detected in samples below the blank contamination action level? <ul style="list-style-type: none"> ○ If blank result > RL, <ul style="list-style-type: none"> • Flag sample results ≤ RL with a U • Flag positive sample results > RL and ≤10x blank result , as J+ positive results ○ If blank result ≤RL, <ul style="list-style-type: none"> • Flag sample results ≤ RL with a U • Flag positive sample results > RL and <10x blank result , as J+ positive results 		✓		Rinsate blank contamination does not exist. A blank contamination action level of 32.75 µg/L (6.55 x 5) was developed for arsenic. Arsenic was not detected in the associated sample, 04113-RB-Bowls + Spoons (680-89275-1); therefore, qualification of data is not warranted. Qualification of soil sample results due to the presence of arsenic method blank contamination is not warranted, as the method blank pertains to rinsate blank 04113-RB-Bowls + Spoons only.	
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: <ul style="list-style-type: none"> • 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 ○ 7471A: 	✓			<ul style="list-style-type: none"> • 200.7: 04/16/2013, 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. • 245.1: 04/16/2013, instrument LEEMAN2. 6-Point ICAL per analytical batch. ICV initially, CCV every 10 samples and at end of run. CRI after initial calibration blank analysis. • 6010C: 04/17/2013-04/18/2013, instrument 	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> • ICAL: Blank and five standards • ICV initially, and CCV every 10th sample and at the end of the analytical run ○ 7196A: <ul style="list-style-type: none"> • ICAL: Blank and minimum of five standards • ICV initially, and CCV every 10th sample (15th per Method) and at the end of the analytical run 				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. <ul style="list-style-type: none"> • 7471B: 04/15/2013 & 04/17/2013, instrument LEEMAN2. 6-Point ICAL per analytical batch. ICV initially, CCV every 10 samples and at end of run. CRI after initial calibration blank analysis. 	
17. Were these results within lab/project specifications? <ul style="list-style-type: none"> ○ 6010C <ul style="list-style-type: none"> • 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-detects ▪ If 111-125%R, then J flag positive results ▪ If >125%R, then J+ flag positive results ▪ If >160%R, then R flag positive results • 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 ≤ 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 ≤180% (>150%, but ≤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 ○ 7471A <ul style="list-style-type: none"> • 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: 	✓			Mercury correlation coefficient: <ul style="list-style-type: none"> • 245.1: ICAL of 04/16/2013 is 0.9998170 (page 437) • 7471B: <ul style="list-style-type: none"> ○ ICAL of 04/15/2013 is 0.9999852 (page 440) ○ ICAL of 04/17/2013 is 0.9999250 (page 442) 	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
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 ○ 7196A: <ul style="list-style-type: none"> • ICV/CCV (Criteria: 90-110%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 65-90%R, then J- flag positive results and UJ flag non-detects ▪ If 110-135%R, then J flag positive results ▪ If $>135\%$R, then J+ flag positive results ▪ If $>170\%$R, then R flag positive results 					
18. Was the interference check sample (ICS) analyzed at the beginning of each ICP analytical run?	✓				
19. Are ICS recoveries within 80-120% of the true value? If not, qualify data as follows when native Al, Fe, Ca, and Mg sample concentrations are equal to or greater than the ICS spiking level: <ul style="list-style-type: none"> ○ 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 positive results and UJ flag non-detects ○ 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? <ul style="list-style-type: none"> ○ Soil: <ul style="list-style-type: none"> • 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 ○ Aqueous: <ul style="list-style-type: none"> • 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 	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> • >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 ($\leq 20\%$ RPD)? If not, J and UJ flag positive and non-detect results, respectively			✓	LCS only	
23. Was a Matrix Spike (MS) and Matrix Spike Duplicate (MSD) analyzed once per preparation batch?	✓				
24. Is the MS and MSD parent sample a project-specific sample?	✓			<ul style="list-style-type: none"> • 200.7, Prep Batch 272923: 680-89208-1 (Batch Sample), MS/MSD • 245.1, Prep Batch 273023: 680-89286-1 (Batch Sample), MS/MSD • 6010C: <ul style="list-style-type: none"> ○ Prep Batch 272935: 680-89275-2 (CV0877A-CS), MS/MSD ○ Prep Batch 273045: 680-89328-8 (HP0202C-CS-SP), MS/MSD. Lab sample is a project-specific sample that was selected by TestAmerica for the MS and MSD analyses, and the native sample results were reported under Job ID 680-89328-3. • 7471B: <ul style="list-style-type: none"> ○ Prep Batch 272882: 680-89275-2 (CV0877A-CS), MS/MSD ○ Prep Batch 273176: 680-89275-26 [CV0877A-CS (sieve)], 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 or mercury)?		✓		<ul style="list-style-type: none"> • 200.7: 680-89208-1 (Batch Sample) • 6010C: <ul style="list-style-type: none"> ○ 680-89242-1 (Batch Sample) ○ 680-89328-8 (HP0202C-CS-SP, which was reported under Job ID 680-89328-3). ○ Although MS/MSD results did not meet control limits, a PDS analysis was not conducted for 680-89275-2 (CV0877A-CS). 	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<p>26. For all analytes with sample concentration < 4 x spike concentration, are spike recoveries within method (6010C: 75-125%R MS/MSD and 80-120%R PDS; 7471B: 80-120%R MS/MSD and PDS not required), laboratory (MS, MSD, and PDS: 75-125%R), and project (as noted below) specifications? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i></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 		✓		<p>CV0877A-CS (680-89275-2) [Note: PDS analysis not conducted]:</p> <ul style="list-style-type: none"> • 6010C: <ul style="list-style-type: none"> ○ Arsenic @ 146 and 196 %R (75-125). An evaluation of interference is not possible based on MS and MSD results². ○ Barium @ -55 and 2287 %R (75-125). An evaluation of interference is not possible based on MS and MSD results². ○ Chromium @ 80 and 280 %R (75-125). Qualification of the data is not necessary³. ○ Lead @ -612 and -1640 %R (75-125). An evaluation of interference is not possible based on MS and MSD results². ○ Silver @ 17 and 12 %R (75-125), J- Flag sample result. • 7471B: Mercury @ -5 and 24 %R (80-120). An evaluation of interference is not possible based on MS and MSD results². <p>CV0877A-CS (sieve) (680-89275-26), 7471B: Mercury @ -0.3 and 30 %R (80-120). An evaluation of interference is not possible based on MS and MSD results².</p>	J-
<p>27. Were laboratory/project (≤20%RPD) criteria met for precision during the MS and MSD analysis? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i></p> <ul style="list-style-type: none"> ○ If RPD >20%, J and UJ flag positive and non-detect results. 		✓		<p>CV0877A-CS (680-89275-2)</p> <ul style="list-style-type: none"> • Barium 41%RPD (≤20). An evaluation of interference is not possible based on MS and MSD results². • Chromium 21%RPD (≤20). An evaluation of interference is not possible based on MS and 	J

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

³ The recovery of either the MS or MSD fell within control limits.

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
				MSD results ² . <ul style="list-style-type: none"> Silver 31%RPD (≤ 20). J Flag sample result. 	
28. Was a serial dilution conducted for 6010C?	✓			<ul style="list-style-type: none"> 200.7: 680-89208-1 (Batch Sample) 6010C: <ul style="list-style-type: none"> 680-89328-8 (HP0202C-CS-SP, which was reported under Job ID 680-89328-3) 680-89242-1 (Batch Sample) 	
29. Is the serial dilution parent sample a project-specific sample?	✓	✓		See above.	
30. Is the percent difference between the serially diluted result and undiluted result less 10% (for those analytes with native concentrations greater than 50x the DL)? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i> <ul style="list-style-type: none"> If %D >10, J and UJ flag positive and non-detect results, respectively. 			✓		
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"> 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>					

Data Validation Checklist (Continued)

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: 680-89275-3
SDG: 68089275-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89275-1	041113-RB-Bowls + Spoons	Water	04/11/13 08:10	04/12/13 09:50
680-89275-2	CV0877A-CS	Solid	04/10/13 14:15	04/12/13 09:50
680-89275-5	CV1086A-CS	Solid	04/10/13 09:50	04/12/13 09:50
680-89275-26	CV0877A-CS (sieve)	Solid	04/10/13 14:15	04/12/13 09:50
680-89275-27	CV1086A-CS (sieve)	Solid	04/10/13 09:50	04/12/13 09:50
680-89275-28	CV1091A-CS (sieve)	Solid	04/10/13 09:00	04/12/13 09:50

ATTACHMENT B
CASE NARRATIVE

Case Narrative

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

TestAmerica Job ID: 680-89275-3
SDG: 68089275-3

Job ID: 680-89275-3

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89275-3

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

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

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

RECEIPT

The samples were received on 04/12/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.2 C.

METALS (ICP)-Water

Sample 04113-RB-Bowls + Spoons (680-89275-1) was analyzed for Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 04/12/2013 and analyzed on 04/16/2013.

Arsenic was detected in method blank MB 680-272923/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Silver recovered outside the recovery criteria for the MS/MSD of sample 680-89208-1 in batch 680-273344. Silver also 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.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY-Water

Sample 04113-RB-Bowls + Spoons (680-89275-1) was analyzed for total mercury in accordance with EPA Method 245.1. The samples were prepared on 04/15/2013 and analyzed on 04/16/2013.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

METALS (ICP)

Samples CV0877A-CS (680-89275-2), CV1086A-CS (680-89275-5), CV0877A-CS (sieve) (680-89275-26), CV1086A-CS (sieve) (680-89275-27) and CV1091A-CS (sieve) (680-89275-28) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 04/12/2013 and 04/15/2013 and analyzed on 04/17/2013 and 04/18/2013.

Case Narrative

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

TestAmerica Job ID: 680-89275-3
SDG: 68089275-3

Job ID: 680-89275-3 (Continued)

Laboratory: TestAmerica Savannah (Continued)

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0877A-CS (680-89275-2) in batch 680-273539. Also, Barium, Chromium and Silver exceeded the rpd limit.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-89328-8 in batch 680-273539. Also, Arsenic, Chromium, Lead and Silver 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.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples CV0877A-CS (680-89275-2), CV1086A-CS (680-89275-5), CV0877A-CS (sieve) (680-89275-26), CV1086A-CS (sieve) (680-89275-27) and CV1091A-CS (sieve) (680-89275-28) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 04/12/2013 and 04/16/2013 and analyzed on 04/15/2013 and 04/17/2013.

Samples CV0877A-CS (680-89275-2)[2X], CV0877A-CS (sieve) (680-89275-26)[2X] and CV1091A-CS (sieve) (680-89275-28)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Mercury recovered outside the recovery criteria for the MS/MSD of sample CV0877A-CS (sieve) (680-89275-26) in batch 680-273523.

Mercury recovered outside the recovery criteria for the MS/MSD of sample CV0877A-CS (680-89275-2) in batch 680-273129.

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

No other difficulties were encountered during the mercury analyses.

All other quality control parameters were within the acceptance limits.

ATTACHMENT C
QUALIFIED SAMPLE RESULTS

Client Sample Results

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

TestAmerica Job ID: 680-89275-3
 SDG: 68089275-3

Client Sample ID: 04113-RB-Bowls + Spoons

Lab Sample ID: 680-89275-1

Date Collected: 04/11/13 08:10

Matrix: Water

Date Received: 04/12/13 09:50

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20	U	20	4.6	ug/L		04/12/13 16:26	04/16/13 19:34	1
Barium	10	U	10	2.3	ug/L		04/12/13 16:26	04/16/13 19:34	1
Cadmium	5.0	U	5.0	2.0	ug/L		04/12/13 16:26	04/16/13 19:34	1
Chromium	10	U	10	1.2	ug/L		04/12/13 16:26	04/16/13 19:34	1
Lead	10	U	10	4.0	ug/L		04/12/13 16:26	04/16/13 19:34	1
Selenium	20	U	20	6.4	ug/L		04/12/13 16:26	04/16/13 19:34	1
Silver	10	U	10	0.89	ug/L		04/12/13 16:26	04/16/13 19:34	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		04/15/13 09:40	04/16/13 20:51	1

Client Sample ID: CV0877A-CS

Lab Sample ID: 680-89275-2

Date Collected: 04/10/13 14:15

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 79.6

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	57		2.5	0.73	mg/Kg	☼	04/12/13 16:55	04/17/13 14:11	1
Barium	550		1.2	0.37	mg/Kg	☼	04/12/13 16:55	04/17/13 14:11	1
Cadmium	3.8		0.62	0.12	mg/Kg	☼	04/12/13 16:55	04/17/13 14:11	1
Chromium	94		1.2	0.62	mg/Kg	☼	04/12/13 16:55	04/17/13 14:11	1
Lead	420		1.2	0.65	mg/Kg	☼	04/12/13 16:55	04/17/13 14:11	1
Selenium	3.1	U	3.1	1.2	mg/Kg	☼	04/12/13 16:55	04/17/13 14:11	1
Silver	0.13	J-	1.2	0.12	mg/Kg	☼	04/12/13 16:55	04/17/13 14:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.61		0.046	0.019	mg/Kg	☼	04/12/13 14:07	04/15/13 16:22	2

Client Sample ID: CV1086A-CS

Lab Sample ID: 680-89275-5

Date Collected: 04/10/13 09:50

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 72.0

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	34		2.7	0.81	mg/Kg	☼	04/12/13 16:55	04/17/13 14:45	1
Barium	600		1.4	0.41	mg/Kg	☼	04/12/13 16:55	04/17/13 14:45	1
Cadmium	5.0		0.69	0.14	mg/Kg	☼	04/12/13 16:55	04/17/13 14:45	1
Chromium	54		1.4	0.69	mg/Kg	☼	04/12/13 16:55	04/17/13 14:45	1
Lead	560		1.4	0.73	mg/Kg	☼	04/12/13 16:55	04/17/13 14:45	1
Selenium	3.4	U	3.4	1.4	mg/Kg	☼	04/12/13 16:55	04/17/13 14:45	1
Silver	0.45	J	1.4	0.13	mg/Kg	☼	04/12/13 16:55	04/17/13 14:45	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	0.47		0.026	0.011	mg/Kg	☼	04/12/13 14:07	04/15/13 15:45	1

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

Client Sample Results

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

TestAmerica Job ID: 680-89275-3
 SDG: 68089275-3

Client Sample ID: CV0877A-CS (sieve)

Lab Sample ID: 680-89275-26

Date Collected: 04/10/13 14:15

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 80.1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	55		2.2	0.65	mg/Kg	☼	04/15/13 10:41	04/18/13 05:02	1
Barium	530		1.1	0.33	mg/Kg	☼	04/15/13 10:41	04/18/13 05:02	1
Cadmium	3.7		0.55	0.11	mg/Kg	☼	04/15/13 10:41	04/18/13 05:02	1
Chromium	91		1.1	0.55	mg/Kg	☼	04/15/13 10:41	04/18/13 05:02	1
Lead	410		1.1	0.59	mg/Kg	☼	04/15/13 10:41	04/18/13 05:02	1
Selenium	2.8	U	2.8	1.1	mg/Kg	☼	04/15/13 10:41	04/18/13 05:02	1
Silver	0.37	J	1.1	0.11	mg/Kg	☼	04/15/13 10:41	04/18/13 05:02	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	0.58		0.045	0.019	mg/Kg	☼	04/16/13 09:45	04/17/13 17:29	2

Client Sample ID: CV1086A-CS (sieve)

Lab Sample ID: 680-89275-27

Date Collected: 04/10/13 09:50

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 76.9

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	33		2.6	0.77	mg/Kg	☼	04/15/13 10:41	04/18/13 05:08	1
Barium	700		1.3	0.39	mg/Kg	☼	04/15/13 10:41	04/18/13 05:08	1
Cadmium	5.1		0.65	0.13	mg/Kg	☼	04/15/13 10:41	04/18/13 05:08	1
Chromium	68		1.3	0.65	mg/Kg	☼	04/15/13 10:41	04/18/13 05:08	1
Lead	630		1.3	0.69	mg/Kg	☼	04/15/13 10:41	04/18/13 05:08	1
Selenium	3.2	U	3.2	1.3	mg/Kg	☼	04/15/13 10:41	04/18/13 05:08	1
Silver	0.38	J	1.3	0.12	mg/Kg	☼	04/15/13 10:41	04/18/13 05:08	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	0.48		0.024	0.0099	mg/Kg	☼	04/16/13 09:45	04/17/13 14:50	1

Client Sample ID: CV1091A-CS (sieve)

Lab Sample ID: 680-89275-28

Date Collected: 04/10/13 09:00

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 79.0

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	67		2.5	0.75	mg/Kg	☼	04/15/13 10:41	04/18/13 05:14	1
Barium	1100		1.3	0.38	mg/Kg	☼	04/15/13 10:41	04/18/13 05:14	1
Cadmium	3.5		0.63	0.13	mg/Kg	☼	04/15/13 10:41	04/18/13 05:14	1
Chromium	59		1.3	0.63	mg/Kg	☼	04/15/13 10:41	04/18/13 05:14	1
Lead	430		1.3	0.67	mg/Kg	☼	04/15/13 10:41	04/18/13 05:14	1
Selenium	3.2	U	3.2	1.3	mg/Kg	☼	04/15/13 10:41	04/18/13 05:14	1
Silver	0.60	J	1.3	0.12	mg/Kg	☼	04/15/13 10:41	04/18/13 05:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.67		0.048	0.020	mg/Kg	☼	04/16/13 09:45	04/17/13 17:36	2

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

ANALYTICAL REPORT

Job Number: 680-89275-3

SDG Number: 68089275-3

Job Description: 35th Avenue Superfund Site

For:

Oneida Total Integrated Enterprises LLC

1220 Kennestone Circle

Suite 106

Marietta, GA 30060

Attention: Ms. Limari F Krebs



Approved for release.
Bernard Kirkland
Project Manager I
4/24/2013 2:28 PM

Designee for

Lisa Harvey

Project Manager II

lisa.harvey@testamericainc.com

04/24/2013

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: 680-89275-3

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

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

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

RECEIPT

The samples were received on 04/12/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.2 C.

METALS (ICP)-Water

Sample 04113-RB-Bowls + Spoons (680-89275-1) was analyzed for Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 04/12/2013 and analyzed on 04/16/2013.

Arsenic was detected in method blank MB 680-272923/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Silver recovered outside the recovery criteria for the MS/MSD of sample 680-89208-1 in batch 680-273344. Silver also 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.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY-Water

Sample 04113-RB-Bowls + Spoons (680-89275-1) was analyzed for total mercury in accordance with EPA Method 245.1. The samples were prepared on 04/15/2013 and analyzed on 04/16/2013.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

METALS (ICP)

Samples CV0877A-CS (680-89275-2), CV1086A-CS (680-89275-5), CV0877A-CS (sieve) (680-89275-26), CV1086A-CS (sieve) (680-89275-27) and CV1091A-CS (sieve) (680-89275-28) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 04/12/2013 and 04/15/2013 and analyzed on 04/17/2013 and 04/18/2013.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0877A-CS (680-89275-2) in batch 680-273539. Also, Barium, Chromium and Silver exceeded the rpd limit.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-89328-8 in batch 680-273539. Also, Arsenic, Chromium, Lead and Silver 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.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples CV0877A-CS (680-89275-2), CV1086A-CS (680-89275-5), CV0877A-CS (sieve) (680-89275-26), CV1086A-CS (sieve) (680-89275-27) and CV1091A-CS (sieve) (680-89275-28) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 04/12/2013 and 04/16/2013 and analyzed on 04/15/2013 and 04/17/2013.

Samples CV0877A-CS (680-89275-2)[2X], CV0877A-CS (sieve) (680-89275-26)[2X] and CV1091A-CS (sieve) (680-89275-28)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Mercury recovered outside the recovery criteria for the MS/MSD of sample CV0877A-CS (sieve) (680-89275-26) in batch 680-273523.

Mercury recovered outside the recovery criteria for the MS/MSD of sample CV0877A-CS (680-89275-2) in batch 680-273129.

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

No other difficulties were encountered during the mercury analyses.

All other quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89275-3
Sdg Number: 68089275-3

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-89275-1	04113-RB-Bowls + Spoons	Water	04/11/2013 0810	04/12/2013 0950
680-89275-2	CV0877A-CS	Solid	04/10/2013 1415	04/12/2013 0950
680-89275-2MS	CV0877A-CS	Solid	04/10/2013 1415	04/12/2013 0950
680-89275-2MSD	CV0877A-CS	Solid	04/10/2013 1415	04/12/2013 0950
680-89275-5	CV1086A-CS	Solid	04/10/2013 0950	04/12/2013 0950
680-89275-26	CV0877A-CS (sieve)	Solid	04/10/2013 1415	04/12/2013 0950
680-89275-27	CV1086A-CS (sieve)	Solid	04/10/2013 0950	04/12/2013 0950
680-89275-28	CV1091A-CS (sieve)	Solid	04/10/2013 0900	04/12/2013 0950

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89275-3

Sdg Number: 68089275-3

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	
Matrix: Water			
Metals (ICP)	TAL SAV	40CFR136A 200.7 Rev 4.4	
Preparation, Total Metals	TAL SAV		EPA 200.7
Mercury (CVAA)	TAL SAV	EPA 245.1	
Preparation, Mercury	TAL SAV		EPA 245.1

Lab References:

TAL SAV = TestAmerica Savannah

TAL TAM = TestAmerica Tampa

Method References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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: 680-89275-3

Sdg Number: 68089275-3

Method	Analyst	Analyst ID
40CFR136A 200.7 Rev 4.4	Bland, Brian	BCB
EPA 245.1	Bland, Brian	BCB
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: 680-89275-3

Sdg Number: 68089275-3

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: 680-89275-3

Sdg Number: 68089275-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
Metals					
Prep Batch: 680-272882					
LCS 680-272882/2-A	Lab Control Sample	T	Solid	7471B	
MB 680-272882/1-A	Method Blank	T	Solid	7471B	
680-89275-2	CV0877A-CS	T	Solid	7471B	
680-89275-2MS	Matrix Spike	T	Solid	7471B	
680-89275-2MSD	Matrix Spike Duplicate	T	Solid	7471B	
680-89275-5	CV1086A-CS	T	Solid	7471B	
Prep Batch: 680-272923					
LCS 680-272923/3-A	Lab Control Sample	T	Water	200.7	
MB 680-272923/1-A	Method Blank	T	Water	200.7	
680-89208-A-1-D MS	Matrix Spike	T	Water	200.7	
680-89208-A-1-E MSD	Matrix Spike Duplicate	T	Water	200.7	
680-89275-1	04113-RB-Bowls + Spoons	T	Water	200.7	
Prep Batch: 680-272935					
LCS 680-272935/3-A	Lab Control Sample	T	Solid	3050B	
MB 680-272935/1-A	Method Blank	T	Solid	3050B	
680-89275-2	CV0877A-CS	T	Solid	3050B	
680-89275-2MS	Matrix Spike	T	Solid	3050B	
680-89275-2MSD	Matrix Spike Duplicate	T	Solid	3050B	
680-89275-5	CV1086A-CS	T	Solid	3050B	
Prep Batch: 680-273023					
LCS 680-273023/2-A	Lab Control Sample	T	Water	245.1	
MB 680-273023/1-A	Method Blank	T	Water	245.1	
680-89275-1	04113-RB-Bowls + Spoons	T	Water	245.1	
680-89286-E-1-B MS	Matrix Spike	T	Water	245.1	
680-89286-E-1-C MSD	Matrix Spike Duplicate	T	Water	245.1	
Prep Batch: 680-273045					
LCS 680-273045/3-A	Lab Control Sample	T	Solid	3050B	
MB 680-273045/1-A	Method Blank	T	Solid	3050B	
680-89275-26	CV0877A-CS (sieve)	T	Solid	3050B	
680-89275-27	CV1086A-CS (sieve)	T	Solid	3050B	
680-89275-28	CV1091A-CS (sieve)	T	Solid	3050B	
680-89328-B-8-B MS	Matrix Spike	T	Solid	3050B	
680-89328-B-8-C MSD	Matrix Spike Duplicate	T	Solid	3050B	
Analysis Batch: 680-273129					
LCS 680-272882/2-A	Lab Control Sample	T	Solid	7471B	680-272882
MB 680-272882/1-A	Method Blank	T	Solid	7471B	680-272882
680-89275-2	CV0877A-CS	T	Solid	7471B	680-272882
680-89275-2MS	Matrix Spike	T	Solid	7471B	680-272882
680-89275-2MSD	Matrix Spike Duplicate	T	Solid	7471B	680-272882
680-89275-5	CV1086A-CS	T	Solid	7471B	680-272882

TestAmerica Savannah

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89275-3

Sdg Number: 68089275-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
Metals					
Prep Batch: 680-273176					
LCS 680-273176/2-A	Lab Control Sample	T	Solid	7471B	
MB 680-273176/1-A	Method Blank	T	Solid	7471B	
680-89275-26	CV0877A-CS (sieve)	T	Solid	7471B	
680-89275-26MS	Matrix Spike	T	Solid	7471B	
680-89275-26MSD	Matrix Spike Duplicate	T	Solid	7471B	
680-89275-27	CV1086A-CS (sieve)	T	Solid	7471B	
680-89275-28	CV1091A-CS (sieve)	T	Solid	7471B	
Analysis Batch:680-273336					
LCS 680-273023/2-A	Lab Control Sample	T	Water	245.1	680-273023
MB 680-273023/1-A	Method Blank	T	Water	245.1	680-273023
680-89275-1	04113-RB-Bowls + Spoons	T	Water	245.1	680-273023
680-89286-E-1-B MS	Matrix Spike	T	Water	245.1	680-273023
680-89286-E-1-C MSD	Matrix Spike Duplicate	T	Water	245.1	680-273023
Analysis Batch:680-273344					
LCS 680-272923/3-A	Lab Control Sample	T	Water	200.7 Rev 4.4	680-272923
MB 680-272923/1-A	Method Blank	T	Water	200.7 Rev 4.4	680-272923
680-89208-A-1-D MS	Matrix Spike	T	Water	200.7 Rev 4.4	680-272923
680-89208-A-1-E MSD	Matrix Spike Duplicate	T	Water	200.7 Rev 4.4	680-272923
680-89275-1	04113-RB-Bowls + Spoons	T	Water	200.7 Rev 4.4	680-272923
Analysis Batch:680-273523					
LCS 680-273176/2-A	Lab Control Sample	T	Solid	7471B	680-273176
MB 680-273176/1-A	Method Blank	T	Solid	7471B	680-273176
680-89275-26	CV0877A-CS (sieve)	T	Solid	7471B	680-273176
680-89275-26MS	Matrix Spike	T	Solid	7471B	680-273176
680-89275-26MSD	Matrix Spike Duplicate	T	Solid	7471B	680-273176
680-89275-27	CV1086A-CS (sieve)	T	Solid	7471B	680-273176
680-89275-28	CV1091A-CS (sieve)	T	Solid	7471B	680-273176
Analysis Batch:680-273539					
LCS 680-272935/3-A	Lab Control Sample	T	Solid	6010C	680-272935
MB 680-272935/1-A	Method Blank	T	Solid	6010C	680-272935
LCS 680-273045/3-A	Lab Control Sample	T	Solid	6010C	680-273045
MB 680-273045/1-A	Method Blank	T	Solid	6010C	680-273045
680-89275-2	CV0877A-CS	T	Solid	6010C	680-272935
680-89275-2MS	Matrix Spike	T	Solid	6010C	680-272935
680-89275-2MSD	Matrix Spike Duplicate	T	Solid	6010C	680-272935
680-89275-5	CV1086A-CS	T	Solid	6010C	680-272935
680-89275-26	CV0877A-CS (sieve)	T	Solid	6010C	680-273045
680-89275-27	CV1086A-CS (sieve)	T	Solid	6010C	680-273045
680-89275-28	CV1091A-CS (sieve)	T	Solid	6010C	680-273045
680-89328-B-8-B MS	Matrix Spike	T	Solid	6010C	680-273045
680-89328-B-8-C MSD	Matrix Spike Duplicate	T	Solid	6010C	680-273045

TestAmerica Savannah

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89275-3

Sdg Number: 68089275-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
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Report Basis

T = Total

General Chemistry

Analysis Batch:660-136438

LCS 660-136438/1	Lab Control Sample	T	Solid	Moisture
LCSD 660-136438/22	Lab Control Sample Duplicate	T	Solid	Moisture
680-89275-2	CV0877A-CS	T	Solid	Moisture
680-89275-2MS	Matrix Spike	T	Solid	Moisture
680-89275-2MSD	Matrix Spike Duplicate	T	Solid	Moisture
680-89275-5	CV1086A-CS	T	Solid	Moisture

Analysis Batch:680-272906

680-89275-26	CV0877A-CS (sieve)	T	Solid	Moisture
680-89275-27	CV1086A-CS (sieve)	T	Solid	Moisture
680-89275-28	CV1091A-CS (sieve)	T	Solid	Moisture

Report Basis

T = Total

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Savannah Job Number: 680-89275-3

SDG No.: 68089275-3

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
<u>04113-RB-Bowls + Spoons</u>	<u>680-89275-1</u>
<u>CV0877A-CS</u>	<u>680-89275-2</u>
<u>CV1086A-CS</u>	<u>680-89275-5</u>
<u>CV0877A-CS (sieve)</u>	<u>680-89275-26</u>
<u>CV1086A-CS (sieve)</u>	<u>680-89275-27</u>
<u>CV1091A-CS (sieve)</u>	<u>680-89275-28</u>

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 04113-RB-Bowls + Spoons

Lab Sample ID: 680-89275-1

Lab Name: TestAmerica Savannah

Job No.: 680-89275-3

SDG ID.: 68089275-3

Matrix: Water

Date Sampled: 04/11/2013 08:10

Reporting Basis: WET

Date Received: 04/12/2013 09:50

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	20	20	4.6	ug/L	U		1	200.7 Rev 4.4
7440-39-3	Barium	10	10	2.3	ug/L	U		1	200.7 Rev 4.4
7440-43-9	Cadmium	5.0	5.0	2.0	ug/L	U		1	200.7 Rev 4.4
7440-47-3	Chromium	10	10	1.2	ug/L	U		1	200.7 Rev 4.4
7439-92-1	Lead	10	10	4.0	ug/L	U		1	200.7 Rev 4.4
7782-49-2	Selenium	20	20	6.4	ug/L	U		1	200.7 Rev 4.4
7440-22-4	Silver	10	10	0.89	ug/L	U		1	200.7 Rev 4.4
7439-97-6	Mercury	0.20	0.20	0.091	ug/L	U		1	245.1

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: CV0877A-CS

Lab Sample ID: 680-89275-2

Lab Name: TestAmerica Savannah

Job No.: 680-89275-3

SDG ID.: 68089275-3

Matrix: Solid

Date Sampled: 04/10/2013 14:15

Reporting Basis: DRY

Date Received: 04/12/2013 09:50

% Solids: 79.6

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	57	2.5	0.73	mg/Kg			1	6010C
7440-39-3	Barium	550	1.2	0.37	mg/Kg			1	6010C
7440-43-9	Cadmium	3.8	0.62	0.12	mg/Kg			1	6010C
7440-47-3	Chromium	94	1.2	0.62	mg/Kg			1	6010C
7439-92-1	Lead	420	1.2	0.65	mg/Kg			1	6010C
7782-49-2	Selenium	3.1	3.1	1.2	mg/Kg	U		1	6010C
7440-22-4	Silver	0.13	1.2	0.12	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.61	0.046	0.019	mg/Kg			2	7471B

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: CV1086A-CS Lab Sample ID: 680-89275-5
 Lab Name: TestAmerica Savannah Job No.: 680-89275-3
 SDG ID.: 68089275-3
 Matrix: Solid Date Sampled: 04/10/2013 09:50
 Reporting Basis: DRY Date Received: 04/12/2013 09:50
 % Solids: 72.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	34	2.7	0.81	mg/Kg			1	6010C
7440-39-3	Barium	600	1.4	0.41	mg/Kg			1	6010C
7440-43-9	Cadmium	5.0	0.69	0.14	mg/Kg			1	6010C
7440-47-3	Chromium	54	1.4	0.69	mg/Kg			1	6010C
7439-92-1	Lead	560	1.4	0.73	mg/Kg			1	6010C
7782-49-2	Selenium	3.4	3.4	1.4	mg/Kg	U		1	6010C
7440-22-4	Silver	0.45	1.4	0.13	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.47	0.026	0.011	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0877A-CS (sieve)

Lab Sample ID: 680-89275-26

Lab Name: TestAmerica Savannah

Job No.: 680-89275-3

SDG ID.: 68089275-3

Matrix: Solid

Date Sampled: 04/10/2013 14:15

Reporting Basis: DRY

Date Received: 04/12/2013 09:50

% Solids: 80.1

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	55	2.2	0.65	mg/Kg			1	6010C
7440-39-3	Barium	530	1.1	0.33	mg/Kg			1	6010C
7440-43-9	Cadmium	3.7	0.55	0.11	mg/Kg			1	6010C
7440-47-3	Chromium	91	1.1	0.55	mg/Kg			1	6010C
7439-92-1	Lead	410	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	0.37	1.1	0.11	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.58	0.045	0.019	mg/Kg			2	7471B

1A-IN
 INORGANIC ANALYSIS DATA SHEET
 METALS

Client Sample ID: CV1086A-CS (sieve)

Lab Sample ID: 680-89275-27

Lab Name: TestAmerica Savannah

Job No.: 680-89275-3

SDG ID.: 68089275-3

Matrix: Solid

Date Sampled: 04/10/2013 09:50

Reporting Basis: DRY

Date Received: 04/12/2013 09:50

% Solids: 76.9

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	33	2.6	0.77	mg/Kg			1	6010C
7440-39-3	Barium	700	1.3	0.39	mg/Kg			1	6010C
7440-43-9	Cadmium	5.1	0.65	0.13	mg/Kg			1	6010C
7440-47-3	Chromium	68	1.3	0.65	mg/Kg			1	6010C
7439-92-1	Lead	630	1.3	0.69	mg/Kg			1	6010C
7782-49-2	Selenium	3.2	3.2	1.3	mg/Kg	U		1	6010C
7440-22-4	Silver	0.38	1.3	0.12	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.48	0.024	0.0099	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV1091A-CS (sieve)

Lab Sample ID: 680-89275-28

Lab Name: TestAmerica Savannah

Job No.: 680-89275-3

SDG ID.: 68089275-3

Matrix: Solid

Date Sampled: 04/10/2013 09:00

Reporting Basis: DRY

Date Received: 04/12/2013 09:50

% Solids: 79.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	67	2.5	0.75	mg/Kg			1	6010C
7440-39-3	Barium	1100	1.3	0.38	mg/Kg			1	6010C
7440-43-9	Cadmium	3.5	0.63	0.13	mg/Kg			1	6010C
7440-47-3	Chromium	59	1.3	0.63	mg/Kg			1	6010C
7439-92-1	Lead	430	1.3	0.67	mg/Kg			1	6010C
7782-49-2	Selenium	3.2	3.2	1.3	mg/Kg	U		1	6010C
7440-22-4	Silver	0.60	1.3	0.12	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.67	0.048	0.020	mg/Kg			2	7471B

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3

SDG No.: 68089275-3

ICV Source: P_ICV_wk_00213 Concentration Units: ug/L

CCV Source: P_CCV_wk_00109

Analyte	ICV 680-273344/6 04/16/2013 16:33				CCV 680-273344/14 04/16/2013 17:22				CCV 680-273344/26 04/16/2013 18:38			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	981		1000	98	496		500	99	471		500	94
Barium	1030		1000	103	5170		5000	103	5040		5000	101
Cadmium	1040		1000	104	523		500	105	508		500	102
Chromium	1050		1000	105	5280		5000	106	5140		5000	103
Lead	1010		1000	101	501		500	100	486		500	97
Selenium	980		1000	98	4950		5000	99	4810		5000	96
Silver	975		1000	97	510		500	102	497		500	99

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

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3

SDG No.: 68089275-3

ICV Source: P_ICV_wk_00213 Concentration Units: ug/L

CCV Source: P_CCV_wk_00109

Analyte	CCV 680-273344/38 04/16/2013 19:45											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	487		500	97								
Barium	5210		5000	104								
Cadmium	524		500	105								
Chromium	5310		5000	106								
Lead	504		500	101								
Selenium	4930		5000	99								
Silver	513		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.: 680-89275-3

SDG No.: 68089275-3

ICV Source: P_ICV_wk_00213 Concentration Units: ug/L

CCV Source: P_CCV_wk_00109

Analyte	ICV 680-273539/4 04/17/2013 11:51				CCV 680-273539/12 04/17/2013 12:36				CCV 680-273539/24 04/17/2013 13:43			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	976		1000	98	487		500	97	484		500	97
Barium	1030		1000	103	5160		5000	103	5140		5000	103
Cadmium	1030		1000	103	519		500	104	520		500	104
Chromium	1010		1000	101	5160		5000	103	5190		5000	104
Lead	991		1000	99	498		500	100	501		500	100
Selenium	972		1000	97	5000		5000	100	5010		5000	100
Silver	966		1000	97	489		500	98	491		500	98

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

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3

SDG No.: 68089275-3

ICV Source: P_ICV_wk_00213 Concentration Units: ug/L

CCV Source: P_CCV_wk_00109

Analyte	CCV 680-273539/36 04/17/2013 14:50				CCV 680-273539/180 04/18/2013 04:17				CCV 680-273539/192 04/18/2013 05:25			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	484		500	97	494		500	99	494		500	99
Barium	5140		5000	103	5060		5000	101	5040		5000	101
Cadmium	521		500	104	524		500	105	525		500	105
Chromium	5200		5000	104	5200		5000	104	5210		5000	104
Lead	502		500	100	508		500	102	508		500	102
Selenium	5020		5000	100	5110		5000	102	5130		5000	103
Silver	489		500	98	495		500	99	492		500	98

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

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3

SDG No.: 68089275-3

ICV Source: P_ICV_wk_00213 Concentration Units: ug/L

CCV Source: P_CCV_wk_00109

Analyte	CCV 680-273539/204 04/18/2013 06:32											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	504		500	101								
Barium	4980		5000	100								
Cadmium	529		500	106								
Chromium	5190		5000	104								
Lead	510		500	102								
Selenium	5220		5000	104								
Silver	494		500	99								

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

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3

SDG No.: 68089275-3

ICV Source: hg_icvint_00085 Concentration Units: ug/L

CCV Source: Hg_Int_Cal_00091

Analyte	ICV 680-272882/26-A 04/15/2013 15:04				CCV 680-272882/24-A 04/15/2013 15:11				CCV 680-272882/24-A 04/15/2013 15:40			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	3.05		3.00	102	2.51		2.50	100	2.50		2.50	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.: 680-89275-3

SDG No.: 68089275-3

ICV Source: hg_icvint_00085 Concentration Units: ug/L

CCV Source: Hg_Int_Cal_00091

Analyte	CCV 680-272882/24-A 04/15/2013 16:07				CCV 680-272882/24-A 04/15/2013 16:29							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.58		2.50	103	2.60		2.50	104				

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

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3

SDG No.: 68089275-3

ICV Source: hg_icvint_00085 Concentration Units: ug/L

CCV Source: Hg_Int_Cal_00091

Analyte	ICV 680-273023/20-A 04/16/2013 17:40				CCV 680-273023/17-A 04/16/2013 20:14				CCV 680-273023/17-A 04/16/2013 20:44			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	3.07		3.00	102	2.54		2.50	102	2.53		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.: 680-89275-3

SDG No.: 68089275-3

ICV Source: hg_icvint_00085 Concentration Units: ug/L

CCV Source: Hg_Int_Cal_00091

Analyte	CCV 680-273023/17-A 04/16/2013 21:06											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.62		2.50	105								

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

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3

SDG No.: 68089275-3

ICV Source: hg_icvint_00085 Concentration Units: ug/L

CCV Source: Hg_Int_Cal_00091

Analyte	ICV 680-273176/39-A 04/17/2013 14:03				CCV 680-273176/36-A 04/17/2013 14:10				CCV 680-273176/36-A 04/17/2013 14:40			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.99		3.00	100	2.45		2.50	98	2.59		2.50	104

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

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3

SDG No.: 68089275-3

ICV Source: hg_icvint_00085 Concentration Units: ug/L

CCV Source: Hg_Int_Cal_00091

Analyte	CCV 680-273176/36-A 04/17/2013 15:09				CCV 680-273176/36-A 04/17/2013 17:17				CCV 680-273176/36-A 04/17/2013 17:39			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.48		2.50	99	2.55		2.50	102	2.60		2.50	104

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

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3
 SDG No.: 68089275-3
 Method: 200.7 Rev 4.4 Instrument ID: ICPE
 Lab Sample ID: CRI 680-273344/8 Concentration Units: ug/L
 CRQL Check Standard Source: P_CRI_00023

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	20.0	22.8		114	50-150
Barium	10.0	10.8		108	50-150
Cadmium	5.00	5.46		109	50-150
Chromium	10.0	10.5		105	50-150
Lead	10.0	11.7		117	50-150
Selenium	20.0	16.6	J	83	50-150
Silver	10.0	10.3		103	50-150

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3
 SDG No.: 68089275-3
 Method: 6010C Instrument ID: ICPE
 Lab Sample ID: CRI 680-273539/6 Concentration Units: ug/L
 CRQL Check Standard Source: P_CRI_00023

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	20.0	22.3		112	50-150
Barium	10.0	8.88	J	89	50-150
Cadmium	5.00	5.20		104	50-150
Chromium	10.0	9.95	J	99	50-150
Lead	10.0	11.7		117	50-150
Selenium	20.0	18.9	J	95	50-150
Silver	10.0	9.46	J	95	50-150

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

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3
 SDG No.: 68089275-3
 Method: 245.1 Instrument ID: LEEMAN2
 Lab Sample ID: CRA 680-273023/22-A Concentration Units: ug/L
 CRQL Check Standard Source: Hg_Int_Cal_00091

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.208		104	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.: 680-89275-3
 SDG No.: 68089275-3
 Method: 7471B Instrument ID: LEEMAN2
 Lab Sample ID: CRA 680-272882/29-A Concentration Units: ug/L
 CRQL Check Standard Source: Hg_Int_Cal_00091

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.194	J	97	50-150

Lab Sample ID: CRA 680-273176/41-A Concentration Units: ug/L
 CRQL Check Standard Source: Hg_Int_Cal_00091

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.205		103	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.: 680-89275-3

SDG No.: 68089275-3

Concentration Units: ug/L

Analyte	RL	ICBIS 680-273344/7 04/16/2013 16:43		CCB 680-273344/15 04/16/2013 17:28		CCB 680-273344/27 04/16/2013 18:44		CCB 680-273344/39 04/16/2013 19:51	
		Found	C	Found	C	Found	C	Found	C
Arsenic	20	20	U	9.36	J	20	U	20	U
Barium	10	10	U	10	U	10	U	10	U
Cadmium	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Chromium	10	10	U	10	U	10	U	10	U
Lead	10	10	U	10	U	10	U	10	U
Selenium	20	20	U	20	U	20	U	20	U
Silver	10	10	U	10	U	10	U	10	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3

SDG No.: 68089275-3

Concentration Units: ug/L

Analyte	RL	ICBIS 680-273539/5 04/17/2013 11:57		CCB 680-273539/13 04/17/2013 12:41		CCB 680-273539/25 04/17/2013 13:49		CCB 680-273539/37 04/17/2013 14:56	
		Found	C	Found	C	Found	C	Found	C
Arsenic	20	20	U	6.04	J	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.: 680-89275-3

SDG No.: 68089275-3

Concentration Units: ug/L

Analyte	RL	CCB 680-273539/181 04/18/2013 04:23		CCB 680-273539/193 04/18/2013 05:30		CCB 680-273539/205 04/18/2013 06:38		Found	C
		Found	C	Found	C	Found	C		
Arsenic	20	20	U	20	U	20	U		
Barium	10	10	U	10	U	10	U		
Cadmium	5.0	5.0	U	5.0	U	5.0	U		
Chromium	10	10	U	10	U	10	U		
Lead	10	10	U	10	U	10	U		
Selenium	25	25	U	25	U	25	U		
Silver	10	10	U	10	U	10	U		

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3

SDG No.: 68089275-3

Concentration Units: ug/L

Analyte	RL	ICB 680-272882/28-A 04/15/2013 15:06		CCB 680-272882/25-A 04/15/2013 15:14		CCB 680-272882/25-A 04/15/2013 15:43		CCB 680-272882/25-A 04/15/2013 16:10	
		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.: 680-89275-3

SDG No.: 68089275-3

Concentration Units: ug/L

Analyte	RL	CCB 680-272882/25-A 04/15/2013 16:31		Found	C	Found	C	Found	C
		Found	C						
Mercury	0.20	0.20	U						

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3

SDG No.: 68089275-3

Concentration Units: ug/L

Analyte	RL	ICB 680-273023/21-A 04/16/2013 17:42		CCB 680-273023/18-A 04/16/2013 20:17		CCB 680-273023/18-A 04/16/2013 20:46		CCB 680-273023/18-A 04/16/2013 21:08	
		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.: 680-89275-3

SDG No.: 68089275-3

Concentration Units: ug/L

Analyte	RL	ICB 680-273176/40-A 04/17/2013 14:06		CCB 680-273176/37-A 04/17/2013 14:13		CCB 680-273176/37-A 04/17/2013 14:42		CCB 680-273176/37-A 04/17/2013 15:12	
		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.: 680-89275-3

SDG No.: 68089275-3

Concentration Units: ug/L

Analyte	RL	CCB 680-273176/37-A 04/17/2013 17:19		CCB 680-273176/37-A 04/17/2013 17:41		Found	C	Found	C
		Found	C	Found	C				
Mercury	0.20	0.20	U	0.20	U				

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3

SDG No.: 68089275-3

Concentration Units: ug/L Lab Sample ID: MB 680-272923/1-A

Instrument Code: ICPE Batch No.: 273344

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	6.55	J		200.7_CWA
7440-39-3	Barium	10	U		200.7_CWA
7440-43-9	Cadmium	5.0	U		200.7_CWA
7440-47-3	Chromium	10	U		200.7_CWA
7439-92-1	Lead	10	U		200.7_CWA
7782-49-2	Selenium	20	U		200.7_CWA
7440-22-4	Silver	10	U		200.7_CWA

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3
SDG No.: 68089275-3
Concentration Units: mg/Kg Lab Sample ID: MB 680-272935/1-A
Instrument Code: ICPE Batch No.: 273539

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	2.0	U		6010C
7440-39-3	Barium	0.99	U		6010C
7440-43-9	Cadmium	0.50	U		6010C
7440-47-3	Chromium	0.99	U		6010C
7439-92-1	Lead	0.99	U		6010C
7782-49-2	Selenium	2.5	U		6010C
7440-22-4	Silver	0.99	U		6010C

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3
SDG No.: 68089275-3
Concentration Units: mg/Kg Lab Sample ID: MB 680-273045/1-A
Instrument Code: ICPE Batch No.: 273539

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

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3
SDG No.: 68089275-3
Concentration Units: ug/L Lab Sample ID: MB 680-273023/1-A
Instrument Code: LEEMAN2 Batch No.: 273336

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.20	U		245.1

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3
SDG No.: 68089275-3
Concentration Units: mg/Kg Lab Sample ID: MB 680-272882/1-A
Instrument Code: LEEMAN2 Batch No.: 273129

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

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3
SDG No.: 68089275-3
Concentration Units: mg/Kg Lab Sample ID: MB 680-273176/1-A
Instrument Code: LEEMAN2 Batch No.: 273523

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-89275-3

SDG No.: 68089275-3

Lab Sample ID: ICSA 680-273344/9

Instrument ID: ICPE

Lab File ID: E04162013B.csv

ICS Source: P_ICSA_wk_00030

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Arsenic		0.784	
Barium		-3.61	
Cadmium		2.92	
Chromium		0.460	
Lead		6.57	
Selenium		-4.81	
Silver		-0.637	
<i>Aluminum</i>	<i>500000</i>	<i>571014</i>	<i>114</i>
<i>Antimony</i>		<i>2.04</i>	
<i>Beryllium</i>		<i>-0.161</i>	
<i>Boron</i>		<i>-16.7</i>	
<i>Calcium</i>	<i>500000</i>	<i>505339</i>	<i>101</i>
<i>Cobalt</i>		<i>1.01</i>	
<i>Copper</i>		<i>-0.641</i>	
<i>Iron</i>	<i>200000</i>	<i>197814</i>	<i>99</i>
<i>Magnesium</i>	<i>500000</i>	<i>547989</i>	<i>110</i>
<i>Manganese</i>		<i>2.94</i>	
<i>Molybdenum</i>		<i>1.88</i>	
<i>Nickel</i>		<i>4.29</i>	
<i>Potassium</i>		<i>-1.70</i>	
<i>Sodium</i>		<i>-28.6</i>	
<i>Strontium</i>		<i>4.11</i>	
<i>Thallium</i>		<i>-5.49</i>	
<i>Tin</i>		<i>-0.950</i>	
<i>Titanium</i>		<i>-0.170</i>	
<i>Vanadium</i>		<i>0.837</i>	
<i>Zinc</i>		<i>17.8</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.: 680-89275-3

SDG No.: 68089275-3

Lab Sample ID: ICSAB 680-273344/10

Instrument ID: ICPE

Lab File ID: E04162013B.csv

ICS Source: P_ICSAB_wk_00043

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Arsenic	100	114	114
Barium	500	520	104
Cadmium	1000	1017	102
Chromium	500	524	105
Lead	50.0	52.9	106
Selenium	50.0	40.4	81
Silver	200	222	111
<i>Aluminum</i>	<i>500000</i>	<i>559644</i>	<i>112</i>
<i>Antimony</i>	<i>600</i>	<i>618</i>	<i>103</i>
<i>Beryllium</i>	<i>500</i>	<i>512</i>	<i>102</i>
<i>Boron</i>		<i>-19.0</i>	
<i>Calcium</i>	<i>500000</i>	<i>498370</i>	<i>100</i>
<i>Cobalt</i>	<i>500</i>	<i>498</i>	<i>100</i>
<i>Copper</i>	<i>500</i>	<i>570</i>	<i>114</i>
<i>Iron</i>	<i>200000</i>	<i>194663</i>	<i>97</i>
<i>Magnesium</i>	<i>500000</i>	<i>541274</i>	<i>108</i>
<i>Manganese</i>	<i>500</i>	<i>524</i>	<i>105</i>
<i>Molybdenum</i>	<i>1000</i>	<i>1084</i>	<i>108</i>
<i>Nickel</i>	<i>1000</i>	<i>983</i>	<i>98</i>
<i>Potassium</i>		<i>-1.81</i>	
<i>Sodium</i>		<i>-512</i>	
<i>Strontium</i>		<i>5.25</i>	
<i>Thallium</i>	<i>100</i>	<i>93.2</i>	<i>93</i>
<i>Tin</i>	<i>1000</i>	<i>1046</i>	<i>105</i>
<i>Titanium</i>		<i>-6.35</i>	
<i>Vanadium</i>	<i>500</i>	<i>500</i>	<i>100</i>
<i>Zinc</i>	<i>1000</i>	<i>1004</i>	<i>100</i>

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-89275-3

SDG No.: 68089275-3

Lab Sample ID: ICSA 680-273539/7

Instrument ID: ICPE

Lab File ID: E04172013.csv

ICS Source: P_ICSA_wk_00030

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Arsenic		0.654	
Barium		-4.13	
Cadmium		6.00	
Chromium		-0.352	
Lead		7.45	
Selenium		-9.41	
Silver		-1.32	
<i>Aluminum</i>	<i>500000</i>	<i>586348</i>	<i>117</i>
<i>Antimony</i>		<i>4.51</i>	
<i>Beryllium</i>		<i>-0.691</i>	
<i>Boron</i>		<i>-11.5</i>	
<i>Calcium</i>	<i>500000</i>	<i>511661</i>	<i>102</i>
<i>Cobalt</i>		<i>0.559</i>	
<i>Copper</i>		<i>-0.600</i>	
<i>Iron</i>	<i>200000</i>	<i>196943</i>	<i>98</i>
<i>Magnesium</i>	<i>500000</i>	<i>551171</i>	<i>110</i>
<i>Manganese</i>		<i>-1.13</i>	
<i>Molybdenum</i>		<i>1.32</i>	
<i>Nickel</i>		<i>2.09</i>	
<i>Potassium</i>		<i>-8.48</i>	
<i>Sodium</i>		<i>-72.9</i>	
<i>Strontium</i>		<i>4.73</i>	
<i>Thallium</i>		<i>-10.8</i>	
<i>Tin</i>		<i>-8.23</i>	
<i>Titanium</i>		<i>-0.827</i>	
<i>Vanadium</i>		<i>-0.299</i>	
<i>Zinc</i>		<i>18.9</i>	

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-89275-3

SDG No.: 68089275-3

Lab Sample ID: ICSAB 680-273539/8

Instrument ID: ICPE

Lab File ID: E04172013.csv

ICS Source: P_ICSAB_wk_00043

Concentration Units: ug/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Arsenic	100	112	112
Barium	500	534	107
Cadmium	1000	1039	104
Chromium	500	524	105
Lead	50.0	58.0	116
Selenium	50.0	44.1	88
Silver	200	222	111
<i>Aluminum</i>	<i>500000</i>	<i>588059</i>	<i>118</i>
<i>Antimony</i>	<i>600</i>	<i>641</i>	<i>107</i>
<i>Beryllium</i>	<i>500</i>	<i>520</i>	<i>104</i>
<i>Boron</i>		<i>-16.7</i>	
<i>Calcium</i>	<i>500000</i>	<i>515239</i>	<i>103</i>
<i>Cobalt</i>	<i>500</i>	<i>516</i>	<i>103</i>
<i>Copper</i>	<i>500</i>	<i>592</i>	<i>118</i>
<i>Iron</i>	<i>200000</i>	<i>197825</i>	<i>99</i>
<i>Magnesium</i>	<i>500000</i>	<i>556526</i>	<i>111</i>
<i>Manganese</i>	<i>500</i>	<i>527</i>	<i>105</i>
<i>Molybdenum</i>	<i>1000</i>	<i>1096</i>	<i>110</i>
<i>Nickel</i>	<i>1000</i>	<i>1014</i>	<i>101</i>
<i>Potassium</i>		<i>-9.69</i>	
<i>Sodium</i>		<i>-561</i>	
<i>Strontium</i>		<i>5.61</i>	
<i>Thallium</i>	<i>100</i>	<i>94.6</i>	<i>95</i>
<i>Tin</i>	<i>1000</i>	<i>1066</i>	<i>107</i>
<i>Titanium</i>		<i>-7.22</i>	
<i>Vanadium</i>	<i>500</i>	<i>511</i>	<i>102</i>
<i>Zinc</i>	<i>1000</i>	<i>1014</i>	<i>101</i>

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

5A-IN
 MATRIX SPIKE SAMPLE RECOVERY
 METALS

Client ID: CV0877A-CS MS

Lab ID: 680-89275-2 MS

Lab Name: TestAmerica Savannah

Job No.: 680-89275-3

SDG No.: 68089275-3

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 79.6

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	74.8	57	12.3	146	75-125	4	6010C
Barium	547	550	12.3	-55	75-125	4	6010C
Cadmium	9.84	3.8	6.16	98	75-125		6010C
Chromium	104	94	12.3	80	75-125	4	6010C
Lead	382	420	6.16	-612	75-125	4	6010C
Selenium	10.2	3.1 U	12.3	83	75-125		6010C
Silver	1.18 J	0.13 J	6.16	17	75-125	F	6010C
Mercury	0.609	0.61	0.108	-5	80-120	4	7471B

SSR = Spiked Sample Result

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

5A-IN
 MATRIX SPIKE SAMPLE RECOVERY
 METALS

Client ID: CV0877A-CS (sieve) MS Lab ID: 680-89275-26 MS
 Lab Name: TestAmerica Savannah Job No.: 680-89275-3
 SDG No.: 68089275-3
 Matrix: Solid Concentration Units: mg/Kg
 % Solids: 80.1

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	0.584	0.58	0.114	-0.3	80-120	4	7471B

SSR = Spiked Sample Result

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

5A-IN
 MATRIX SPIKE SAMPLE RECOVERY
 METALS

Client ID: _____ Lab ID: 680-89208-A-1-D MS
 Lab Name: TestAmerica Savannah Job No.: 680-89275-3
 SDG No.: 68089275-3
 Matrix: Water Concentration Units: ug/L
 % Solids: _____

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	111	20 U	100	111	75-125		200.7 Rev 4.4
Barium	128	25	100	103	75-125		200.7 Rev 4.4
Cadmium	52.8	5.0 U	50.0	106	75-125		200.7 Rev 4.4
Chromium	105	10 U	100	105	75-125		200.7 Rev 4.4
Lead	51.6	10 U	50.0	103	75-125		200.7 Rev 4.4
Selenium	101	20 U	100	101	75-125		200.7 Rev 4.4
Silver	33.3	10 U	50.0	67	75-125	F	200.7 Rev 4.4

SSR = Spiked Sample Result

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

5A-IN
 MATRIX SPIKE SAMPLE RECOVERY
 METALS

Client ID: _____ Lab ID: 680-89286-E-1-B MS
 Lab Name: TestAmerica Savannah Job No.: 680-89275-3
 SDG No.: 68089275-3
 Matrix: Water Concentration Units: ug/L
 % Solids: _____

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	0.925	0.20 U	1.00	93	70-130		245.1

SSR = Spiked Sample Result

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

5A-IN
 MATRIX SPIKE SAMPLE RECOVERY
 METALS

Client ID: _____ Lab ID: 680-89328-B-8-B MS
 Lab Name: TestAmerica Savannah Job No.: 680-89275-3
 SDG No.: 68089275-3
 Matrix: Solid Concentration Units: mg/Kg
 % Solids: 80.9

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	48.8	45	12.2	35	75-125	F	6010C
Barium	665	730	12.2	-536	75-125	4	6010C
Cadmium	11.2	4.9	6.12	102	75-125		6010C
Chromium	126	99	12.2	224	75-125	4	6010C
Lead	401	420	6.12	-315	75-125	4	6010C
Selenium	11.4	3.1 U	12.2	93	75-125		6010C
Silver	0.790 J	1.2 U	6.12	13	75-125	F	6010C

SSR = Spiked Sample Result

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

5A-IN
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
 METALS

Client ID: CV0877A-CS MSD Lab ID: 680-89275-2 MSD
 Lab Name: TestAmerica Savannah Job No.: 680-89275-3
 SDG No.: 68089275-3
 Matrix: Solid Concentration Units: mg/Kg
 % Solids: 79.6

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	80.6	12.2	196	75-125	7	20	4	6010C
Barium	833	12.2	2287	75-125	41	20	4 F	6010C
Cadmium	10.2	6.10	104	75-125	4	20		6010C
Chromium	128	12.2	280	75-125	21	20	4 F	6010C
Lead	319	6.10	-1640	75-125	18	20	4	6010C
Selenium	10.8	12.2	89	75-125	6	20		6010C
Silver	0.868 J	6.10	12	75-125	31	20	F	6010C
Mercury	0.643	0.121	24	80-120	6	20	4	7471B

SDR = Sample Duplicate Result

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

5A-IN
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
 METALS

Client ID: CV0877A-CS (sieve) MSD Lab ID: 680-89275-26 MSD
 Lab Name: TestAmerica Savannah Job No.: 680-89275-3
 SDG No.: 68089275-3
 Matrix: Solid Concentration Units: mg/Kg
 % Solids: 80.1

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	0.618	0.114	30	80-120	6	20	4	7471B

SDR = Sample Duplicate Result

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

5A-IN
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
 METALS

Client ID: _____ Lab ID: 680-89208-A-1-E MSD
 Lab Name: TestAmerica Savannah Job No.: 680-89275-3
 SDG No.: 68089275-3
 Matrix: Water Concentration Units: ug/L
 % Solids: _____

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	107	100	107	75-125	3	20		200.7 Rev 4.4
Barium	127	100	102	75-125	1	20		200.7 Rev 4.4
Cadmium	52.3	50.0	105	75-125	1	20		200.7 Rev 4.4
Chromium	104	100	104	75-125	1	20		200.7 Rev 4.4
Lead	49.4	50.0	99	75-125	4	20		200.7 Rev 4.4
Selenium	97.4	100	97	75-125	3	20		200.7 Rev 4.4
Silver	17.0	50.0	34	75-125	65	20	F	200.7 Rev 4.4

SDR = Sample Duplicate Result

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

5A-IN
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
 METALS

Client ID: _____ Lab ID: 680-89286-E-1-C MSD
 Lab Name: TestAmerica Savannah Job No.: 680-89275-3
 SDG No.: 68089275-3
 Matrix: Water Concentration Units: ug/L
 % Solids: _____

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	0.963	1.00	96	70-130	4	20		245.1

SDR = Sample Duplicate Result

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

5A-IN
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
 METALS

Client ID: _____ Lab ID: 680-89328-B-8-C MSD
 Lab Name: TestAmerica Savannah Job No.: 680-89275-3
 SDG No.: 68089275-3
 Matrix: Solid Concentration Units: mg/Kg
 % Solids: 80.9

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	61.9	12.0	144	75-125	24	20	F	6010C
Barium	642	12.0	-740	75-125	4	20	4	6010C
Cadmium	11.5	6.00	109	75-125	3	20		6010C
Chromium	162	12.0	529	75-125	25	20	4 F	6010C
Lead	536	6.00	1932	75-125	29	20	4 F	6010C
Selenium	11.7	12.0	98	75-125	3	20		6010C
Silver	1.11 J	6.00	18	75-125	34	20	F	6010C

SDR = Sample Duplicate Result

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

5B-IN
 POST DIGESTION SPIKE SAMPLE RECOVERY
 METALS

Client ID: _____ Lab ID: 680-89208-A-1-C PDS
 Lab Name: TestAmerica Savannah Job No.: 680-89275-3
 SDG No.: 68089275-3
 Matrix: Water Concentration Units: ug/L

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	2170	20 U	2000	109	75-125		200.7 Rev 4.4
Barium	2100	25	2000	104	75-125		200.7 Rev 4.4
Cadmium	52.3	5.0 U	50.0	105	75-125		200.7 Rev 4.4
Chromium	210	10 U	200	105	75-125		200.7 Rev 4.4
Lead	497	10 U	500	99	75-125		200.7 Rev 4.4
Selenium	1980	20 U	2000	99	75-125		200.7 Rev 4.4
Silver	48.8	10 U	50.0	98	75-125		200.7 Rev 4.4

SSR = Spiked Sample Result

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

5B-IN
 POST DIGESTION SPIKE SAMPLE RECOVERY
 METALS

Client ID: _____ Lab ID: 680-89242-A-1-B PDS
 Lab Name: TestAmerica Savannah Job No.: 680-89275-3
 SDG No.: 68089275-3
 Matrix: Solid Concentration Units: mg/Kg

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	244	49	181	107	75-125		6010C
Barium	219	31	181	104	75-125		6010C
Cadmium	4.84	0.12 J	4.53	104	75-125		6010C
Chromium	20.9	2.3	18.1	103	75-125		6010C
Lead	74.4	30	45.3	97	75-125		6010C
Selenium	182	2.3 U	181	101	75-125		6010C
Silver	4.33	0.91 U	4.53	96	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: 680-89328-B-8-A PDS
 Lab Name: TestAmerica Savannah Job No.: 680-89275-3
 SDG No.: 68089275-3
 Matrix: Solid Concentration Units: mg/Kg

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	309	45	245	108	75-125		6010C
Barium	951	730	245	90	75-125		6010C
Cadmium	10.8	4.9	6.12	96	75-125		6010C
Chromium	122	99	24.5	95	75-125		6010C
Lead	471	420	61.2	82	75-125		6010C
Selenium	246	3.1	245	101	75-125		6010C
Silver	4.64	1.2	6.12	76	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 680-272923/3-A

Lab Name: TestAmerica Savannah

Job No.: 680-89275-3

Sample Matrix: Water

LCS Source: MS Cal Stk_00019

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	200	222		111	85	115		200.7 Rev 4.4
Barium	200	202		101	85	115		200.7 Rev 4.4
Cadmium	200	205		103	85	115		200.7 Rev 4.4
Chromium	200	211		106	85	115		200.7 Rev 4.4
Lead	200	199		99	85	115		200.7 Rev 4.4
Selenium	200	192		96	85	115		200.7 Rev 4.4
Silver	200	205		102	85	115		200.7 Rev 4.4

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 680-272935/3-A

Lab Name: TestAmerica Savannah

Job No.: 680-89275-3

Sample Matrix: Solid

LCS Source: MS Cal Stk_00019

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	19.8	21.8		110	75	125		6010C
Barium	19.8	20.4		103	75	125		6010C
Cadmium	19.8	21.0		106	75	125		6010C
Chromium	19.8	21.2		107	75	125		6010C
Lead	19.8	20.1		101	75	125		6010C
Selenium	19.8	19.9		101	75	125		6010C
Silver	19.8	20.3		102	75	125		6010C

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 680-273045/3-A

Lab Name: TestAmerica Savannah

Job No.: 680-89275-3

Sample Matrix: Solid

LCS Source: MS Cal Stk_00019

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	19.6	21.6		110	75	125		6010C
Barium	19.6	19.6		100	75	125		6010C
Cadmium	19.6	20.6		105	75	125		6010C
Chromium	19.6	20.9		106	75	125		6010C
Lead	19.6	19.9		101	75	125		6010C
Selenium	19.6	19.3		98	75	125		6010C
Silver	19.6	20.0		102	75	125		6010C

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 680-273023/2-A

Lab Name: TestAmerica Savannah

Job No.: 680-89275-3

Sample Matrix: Water

LCS Source: Hg_Int_Cal_00091

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	2.50	2.58		103	85	115		245.1

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 680-272882/2-A

Lab Name: TestAmerica Savannah

Job No.: 680-89275-3

Sample Matrix: Solid

LCS Source: Hg_Int_Cal_00091

Analyte	Solid(mg/Kg)						
	True	Found	C	%R	Limits	Q	Method
Mercury	0.227	0.232		102	80 120		7471B

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 680-273176/2-A

Lab Name: TestAmerica Savannah

Job No.: 680-89275-3

Sample Matrix: Solid

LCS Source: Hg_Int_Cal_00091

Analyte	Solid(mg/Kg)						
	True	Found	C	%R	Limits	Q	Method
Mercury	0.231	0.228		99	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: 680-89208-A-1-C SD ^5

SDG No: 68089275-3

Lab Name: TestAmerica Savannah

Job No: 680-89275-3

Matrix: Water

Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	Method
		C		C			
Arsenic	20	U	100	U	NC		200.7 Rev 4.4
Barium	25		27.1	J	NC		200.7 Rev 4.4
Cadmium	5.0	U	25	U	NC		200.7 Rev 4.4
Chromium	10	U	50	U	NC		200.7 Rev 4.4
Lead	10	U	50	U	NC		200.7 Rev 4.4
Selenium	20	U	100	U	NC		200.7 Rev 4.4
Silver	10	U	50	U	NC		200.7 Rev 4.4

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: 680-89242-A-1-B SD

SDG No: 68089275-3

Lab Name: TestAmerica Savannah

Job No: 680-89275-3

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Arsenic	49		48.8		0.42		6010C
Barium	31		30.4		3.1		6010C
Cadmium	0.12	J	2.3	U	NC		6010C
Chromium	2.3		4.5	U	NC		6010C
Lead	30		31.2		2.6		6010C
Selenium	2.3	U	11	U	NC		6010C
Silver	0.91	U	4.5	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: 680-89328-B-8-A SD ^5

SDG No: 68089275-3

Lab Name: TestAmerica Savannah

Job No: 680-89275-3

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Difference	Q	Method
Arsenic	45	45.9	3.1		6010C
Barium	730	802	9.8		6010C
Cadmium	4.9	4.74	NC		6010C
Chromium	99	109	10		6010C
Lead	420	470	12	V	6010C
Selenium	3.1 U	15 U	NC		6010C
Silver	1.2 U	6.1 U	NC		6010C

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

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Savannah

Job Number: 680-89275-3

SDG Number: 68089275-3

Matrix: Water

Instrument ID: ICPE

Method: 200.7 Rev 4.4

MDL Date: 06/02/2009 00:00

Prep Method: 200.7

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Arsenic		20	4.6
Barium		10	2.3
Cadmium		5	2
Chromium		10	1.2
Lead		10	4
Selenium		20	6.4
Silver		10	0.89

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Savannah

Job Number: 680-89275-3

SDG Number: 68089275-3

Matrix: Water

Instrument ID: ICPE

Method: 200.7 Rev 4.4

XMDL Date: 06/02/2009 00:00

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Arsenic		20	4.6
Barium		10	2.3
Cadmium		5	2
Chromium		10	1.2
Lead		10	4
Selenium		20	6.4
Silver		10	0.89

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Savannah

Job Number: 680-89275-3

SDG Number: 68089275-3

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: 680-89275-3

SDG Number: 68089275-3

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: 680-89275-3

SDG Number: 68089275-3

Matrix: Water

Instrument ID: LEEMAN2

Method: 245.1

MDL Date: 06/02/2009 00:00

Prep Method: 245.1

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Mercury		0.2	0.091

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-89275-3
SDG Number: 68089275-3
Matrix: Water Instrument ID: LEEMAN2
Method: 245.1 XMDL Date: 06/02/2009 00:00

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury		0.2	0.091

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Savannah

Job Number: 680-89275-3

SDG Number: 68089275-3

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: 680-89275-3
SDG Number: 68089275-3
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: 680-89275-3

SDG No.: 68089275-3

ICP-AES Instrument ID: ICPE

Date: 03/05/2013

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

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-89275-3

SDG No.: 68089275-3

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

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

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Savannah

Job No: 680-89275-3

SDG No.: 68089275-3

Instrument ID: ICPE

Date: 02/27/2012 11:40

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Arsenic		18000	200.7 Rev 4.4
Barium		18000	200.7 Rev 4.4
Cadmium		9000	200.7 Rev 4.4
Chromium		22500	200.7 Rev 4.4
Lead		18000	200.7 Rev 4.4
Selenium		22500	200.7 Rev 4.4
Silver		1800	200.7 Rev 4.4

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-89275-3

SDG No.: 68089275-3

Prep Method: 200.7

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 680-272923/1-A	04/12/2013 16:26	272923		50	50
LCS 680-272923/3-A	04/12/2013 16:26	272923		50	50
680-89208-A-1-D MS	04/12/2013 16:26	272923		50	50
680-89208-A-1-E MSD	04/12/2013 16:26	272923		50	50
680-89275-1	04/12/2013 16:26	272923		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-89275-3

SDG No.: 68089275-3

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 680-272935/1-A	04/12/2013 16:55	272935	1.01		100
LCS 680-272935/3-A	04/12/2013 16:55	272935	1.01		100
680-89275-2	04/12/2013 16:55	272935	1.02		100
680-89275-2 MS	04/12/2013 16:55	272935	1.02		100
680-89275-2 MSD	04/12/2013 16:55	272935	1.03		100
680-89275-5	04/12/2013 16:55	272935	1.01		100

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-89275-3

SDG No.: 68089275-3

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 680-273045/1-A	04/15/2013 10:41	273045	1.02		100
LCS 680-273045/3-A	04/15/2013 10:41	273045	1.02		100
680-89275-26	04/15/2013 10:41	273045	1.13		100
680-89275-27	04/15/2013 10:41	273045	1.00		100
680-89275-28	04/15/2013 10:41	273045	1.00		100
680-89328-B-8-B MS	04/15/2013 10:41	273045	1.01		100
680-89328-B-8-C MSD	04/15/2013 10:41	273045	1.03		100

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-89275-3

SDG No.: 68089275-3

Prep Method: 7471B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 680-272882/1-A	04/12/2013 14:07	272882	0.51		50
LCS 680-272882/2-A	04/12/2013 14:07	272882	0.55		50
680-89275-2	04/12/2013 14:07	272882	0.55		50
680-89275-2 MS	04/12/2013 14:07	272882	0.58		50
680-89275-2 MSD	04/12/2013 14:07	272882	0.52		50
680-89275-5	04/12/2013 14:07	272882	0.53		50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-89275-3

SDG No.: 68089275-3

Prep Method: 245.1

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 680-273023/1-A	04/15/2013 09:40	273023		50	50
LCS 680-273023/2-A	04/15/2013 09:40	273023		50	50
680-89286-E-1-B MS	04/15/2013 09:40	273023		50	50
680-89286-E-1-C MSD	04/15/2013 09:40	273023		50	50
680-89275-1	04/15/2013 09:40	273023		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-89275-3

SDG No.: 68089275-3

Prep Method: 7471B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 680-273176/1-A	04/16/2013 09:45	273176	0.52		50
LCS 680-273176/2-A	04/16/2013 09:45	273176	0.54		50
680-89275-26	04/16/2013 09:45	273176	0.55		50
680-89275-26 MS	04/16/2013 09:45	273176	0.55		50
680-89275-26 MSD	04/16/2013 09:45	273176	0.55		50
680-89275-27	04/16/2013 09:45	273176	0.54		50
680-89275-28	04/16/2013 09:45	273176	0.53		50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3

SDG No.: 68089275-3

Instrument ID: ICPE Method: 200.7 Rev 4.4

Start Date: 04/16/2013 16:01 End Date: 04/16/2013 23:34

Lab Sample ID	D / F	Type	Time	Analytes															
				Ag	As	Ba	Cd	Cr	Pb	Se									
ZZZZZZ			16:01																
ZZZZZZ			16:07																
ZZZZZZ			16:12																
ZZZZZZ			16:18																
ZZZZZZ			16:23																
ICV 680-273344/6	1		16:33	X	X	X	X	X	X	X									
ICBIS 680-273344/7	1		16:43	X	X	X	X	X	X	X									
CRI 680-273344/8	1		16:49	X	X	X	X	X	X	X									
ICSA 680-273344/9	1		16:54	X	X	X	X	X	X	X									
ICSAB 680-273344/10	1		17:00	X	X	X	X	X	X	X									
ZZZZZZ			17:05																
ZZZZZZ			17:11																
ZZZZZZ			17:17																
CCV 680-273344/14	1		17:22	X	X	X	X	X	X	X									
CCB 680-273344/15	1		17:28	X	X	X	X	X	X	X									
MB 680-272923/1-A	1	T	17:33	X	X	X	X	X	X	X									
ZZZZZZ			17:39																
LCS 680-272923/3-A	1	T	17:45	X	X	X	X	X	X	X									
ZZZZZZ			17:50																
680-89208-A-1-C SD ^5	5	T	17:56	X	X	X	X	X	X	X									
680-89208-A-1-C PDS	1	T	18:10	X	X	X	X	X	X	X									
680-89208-A-1-D MS	1	T	18:16	X	X	X	X	X	X	X									
680-89208-A-1-E MSD	1	T	18:21	X	X	X	X	X	X	X									
ZZZZZZ			18:27																
ZZZZZZ			18:32																
CCV 680-273344/26	1		18:38	X	X	X	X	X	X	X									
CCB 680-273344/27	1		18:44	X	X	X	X	X	X	X									
ZZZZZZ			18:49																
ZZZZZZ			18:55																
ZZZZZZ			19:00																
ZZZZZZ			19:06																
ZZZZZZ			19:11																
ZZZZZZ			19:17																
ZZZZZZ			19:23																
ZZZZZZ			19:28																
680-89275-1	1	T	19:34	X	X	X	X	X	X	X									
ZZZZZZ			19:39																
CCV 680-273344/38	1		19:45	X	X	X	X	X	X	X									
CCB 680-273344/39	1		19:51	X	X	X	X	X	X	X									
ZZZZZZ			19:56																
ZZZZZZ			20:02																
ZZZZZZ			20:07																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3

SDG No.: 68089275-3

Instrument ID: ICPE Method: 200.7 Rev 4.4

Start Date: 04/16/2013 16:01 End Date: 04/16/2013 23:34

Lab Sample ID	D / F	Type	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			20:13																
ZZZZZZ			20:19																
ZZZZZZ			20:24																
ZZZZZZ			20:30																
ZZZZZZ			20:35																
ZZZZZZ			20:41																
ZZZZZZ			20:47																
CCV 680-273344/50			20:52																
CCB 680-273344/51			20:58																
ZZZZZZ			21:03																
ZZZZZZ			21:09																
ZZZZZZ			21:15																
ZZZZZZ			21:20																
ZZZZZZ			21:26																
ZZZZZZ			21:31																
ZZZZZZ			21:37																
ZZZZZZ			21:43																
ZZZZZZ			21:48																
ZZZZZZ			21:54																
CCV 680-273344/62			21:59																
CCB 680-273344/63			22:05																
ZZZZZZ			22:10																
ZZZZZZ			22:16																
ZZZZZZ			22:22																
ZZZZZZ			22:27																
ZZZZZZ			22:33																
ZZZZZZ			22:38																
ZZZZZZ			22:44																
ZZZZZZ			22:50																
ZZZZZZ			22:55																
ZZZZZZ			23:01																
CCV 680-273344/74			23:06																
CCB 680-273344/75			23:12																
ZZZZZZ			23:18																
ZZZZZZ			23:23																
CCV 680-273344/78			23:29																
CCB 680-273344/79			23:34																

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3

SDG No.: 68089275-3

Instrument ID: ICPE Method: 6010C

Start Date: 04/17/2013 11:40 End Date: 04/18/2013 10:02

Lab Sample ID	D / F	Type	Time	Analytes															
				Ag	As	Ba	Cd	Cr	Pb	Se									
ZZZZZZ			11:40																
ZZZZZZ			11:44																
ZZZZZZ			11:47																
ICV 680-273539/4	1		11:51	X	X	X	X	X	X	X									
ICBIS 680-273539/5	1		11:57	X	X	X	X	X	X	X									
CRI 680-273539/6	1		12:02	X	X	X	X	X	X	X									
ICSA 680-273539/7	1		12:08	X	X	X	X	X	X	X									
ICSAB 680-273539/8	1		12:13	X	X	X	X	X	X	X									
ZZZZZZ			12:19																
ZZZZZZ			12:25																
ZZZZZZ			12:30																
CCV 680-273539/12	1		12:36	X	X	X	X	X	X	X									
CCB 680-273539/13	1		12:41	X	X	X	X	X	X	X									
MB 680-272935/1-A	1	T	12:47	X	X	X	X	X	X	X									
ZZZZZZ			12:53																
LCS 680-272935/3-A	1	T	12:58	X	X	X	X	X	X	X									
ZZZZZZ			13:04																
ZZZZZZ			13:09																
ZZZZZZ			13:15																
ZZZZZZ			13:21																
ZZZZZZ			13:26																
ZZZZZZ			13:32																
ZZZZZZ			13:38																
CCV 680-273539/24	1		13:43	X	X	X	X	X	X	X									
CCB 680-273539/25	1		13:49	X	X	X	X	X	X	X									
680-89242-A-1-B SD	5	T	13:54	X	X	X	X	X	X	X									
680-89242-A-1-B PDS	1	T	14:00	X	X	X	X	X	X	X									
ZZZZZZ			14:05																
680-89275-2	1	T	14:11	X	X	X	X	X	X	X									
680-89275-2 MS	1	T	14:17	X	X	X	X	X	X	X									
680-89275-2 MSD	1	T	14:22	X	X	X	X	X	X	X									
ZZZZZZ			14:28																
ZZZZZZ			14:33																
ZZZZZZ			14:39																
680-89275-5	1	T	14:45	X	X	X	X	X	X	X									
CCV 680-273539/36	1		14:50	X	X	X	X	X	X	X									
CCB 680-273539/37	1		14:56	X	X	X	X	X	X	X									
ZZZZZZ			15:01																
ZZZZZZ			15:07																
ZZZZZZ			15:12																
ZZZZZZ			15:18																
ZZZZZZ			15:24																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3

SDG No.: 68089275-3

Instrument ID: ICPE Method: 6010C

Start Date: 04/17/2013 11:40 End Date: 04/18/2013 10:02

Lab Sample ID	D / F	Type	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			15:29																
ZZZZZZ			15:35																
ZZZZZZ			15:40																
ZZZZZZ			15:46																
ZZZZZZ			15:52																
CCV 680-273539/48			15:57																
CCB 680-273539/49			16:03																
ZZZZZZ			16:08																
ZZZZZZ			16:14																
ZZZZZZ			16:19																
ZZZZZZ			16:25																
ZZZZZZ			16:31																
ZZZZZZ			16:36																
ZZZZZZ			16:42																
ZZZZZZ			16:47																
ZZZZZZ			16:53																
ZZZZZZ			16:58																
CCV 680-273539/60			17:04																
CCB 680-273539/61			17:10																
ZZZZZZ			17:15																
ZZZZZZ			17:21																
ZZZZZZ			17:26																
ZZZZZZ			17:32																
ZZZZZZ			17:38																
ZZZZZZ			17:43																
ZZZZZZ			17:49																
ZZZZZZ			17:54																
ZZZZZZ			18:00																
ZZZZZZ			18:05																
CCV 680-273539/72			18:11																
CCB 680-273539/73			18:17																
ZZZZZZ			18:22																
ZZZZZZ			18:28																
ZZZZZZ			18:33																
ZZZZZZ			18:39																
ZZZZZZ			18:45																
ZZZZZZ			18:50																
ZZZZZZ			18:56																
ZZZZZZ			19:02																
ZZZZZZ			19:07																
ZZZZZZ			19:13																
CCV 680-273539/84			19:18																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3

SDG No.: 68089275-3

Instrument ID: ICPE Method: 6010C

Start Date: 04/17/2013 11:40 End Date: 04/18/2013 10:02

Lab Sample ID	D / F	Type	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			23:19																
ZZZZZZ			23:25																
ZZZZZZ			23:30																
ZZZZZZ			23:36																
ZZZZZZ			23:42																
CCV 680-273539/132			23:47																
CCB 680-273539/133			23:53																
ZZZZZZ			23:59																
ZZZZZZ			00:04																
ZZZZZZ			00:10																
ZZZZZZ			00:15																
ZZZZZZ			00:21																
ZZZZZZ			00:27																
ZZZZZZ			00:32																
ZZZZZZ			00:38																
ZZZZZZ			00:44																
ZZZZZZ			00:49																
CCV 680-273539/144			00:55																
CCB 680-273539/145			01:00																
ZZZZZZ			01:06																
ZZZZZZ			01:12																
ZZZZZZ			01:17																
ZZZZZZ			01:23																
ZZZZZZ			01:29																
ZZZZZZ			01:34																
ZZZZZZ			01:40																
ZZZZZZ			01:45																
ZZZZZZ			01:51																
ZZZZZZ			01:57																
CCV 680-273539/156			02:02																
CCB 680-273539/157			02:08																
ZZZZZZ			02:13																
ZZZZZZ			02:19																
ZZZZZZ			02:25																
ZZZZZZ			02:30																
ZZZZZZ			02:36																
ZZZZZZ			02:42																
ZZZZZZ			02:47																
ZZZZZZ			02:53																
ZZZZZZ			02:58																
ZZZZZZ			03:04																
CCV 680-273539/168			03:10																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3

SDG No.: 68089275-3

Instrument ID: ICPE Method: 6010C

Start Date: 04/17/2013 11:40 End Date: 04/18/2013 10:02

Lab Sample ID	D / F	Type	Time	Analytes															
				Ag	As	Ba	Cd	Cr	Pb	Se									
CCB 680-273539/169			03:15																
ZZZZZZ			03:21																
ZZZZZZ			03:26																
ZZZZZZ			03:32																
ZZZZZZ			03:38																
ZZZZZZ			03:43																
ZZZZZZ			03:49																
ZZZZZZ			03:55																
ZZZZZZ			04:00																
ZZZZZZ			04:06																
ZZZZZZ			04:12																
CCV 680-273539/180	1		04:17	X	X	X	X	X	X	X									
CCB 680-273539/181	1		04:23	X	X	X	X	X	X	X									
MB 680-273045/1-A	1	T	04:29	X	X	X	X	X	X	X									
ZZZZZZ			04:34																
LCS 680-273045/3-A	1	T	04:40	X	X	X	X	X	X	X									
ZZZZZZ			04:45																
ZZZZZZ			04:51																
ZZZZZZ			04:57																
680-89275-26	1	T	05:02	X	X	X	X	X	X	X									
680-89275-27	1	T	05:08	X	X	X	X	X	X	X									
680-89275-28	1	T	05:14	X	X	X	X	X	X	X									
ZZZZZZ			05:19																
CCV 680-273539/192	1		05:25	X	X	X	X	X	X	X									
CCB 680-273539/193	1		05:30	X	X	X	X	X	X	X									
ZZZZZZ			05:36																
ZZZZZZ			05:42																
ZZZZZZ			05:47																
ZZZZZZ			05:53																
680-89328-B-8-A SD ^5	5	T	05:59	X	X	X	X	X	X	X									
680-89328-B-8-A PDS	1	T	06:04	X	X	X	X	X	X	X									
680-89328-B-8-B MS	1	T	06:10	X	X	X	X	X	X	X									
680-89328-B-8-C MSD	1	T	06:15	X	X	X	X	X	X	X									
ZZZZZZ			06:21																
ZZZZZZ			06:27																
CCV 680-273539/204	1		06:32	X	X	X	X	X	X	X									
CCB 680-273539/205	1		06:38	X	X	X	X	X	X	X									
ZZZZZZ			06:44																
ZZZZZZ			06:49																
ZZZZZZ			06:55																
ZZZZZZ			07:01																
ZZZZZZ			07:06																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3

SDG No.: 68089275-3

Instrument ID: ICPE Method: 6010C

Start Date: 04/17/2013 11:40 End Date: 04/18/2013 10:02

Lab Sample ID	D / F	Type	Time	Analytes																	
				A g	A s	B a	C d	C r	P b	S e											
ZZZZZZ			07:12																		
ZZZZZZ			07:17																		
ZZZZZZ			07:23																		
ZZZZZZ			07:29																		
ZZZZZZ			07:34																		
CCV 680-273539/216			07:40																		
CCB 680-273539/217			07:46																		
ZZZZZZ			07:51																		
ZZZZZZ			07:57																		
ZZZZZZ			08:03																		
ZZZZZZ			08:08																		
ZZZZZZ			08:14																		
ZZZZZZ			08:20																		
ZZZZZZ			08:25																		
ZZZZZZ			08:31																		
ZZZZZZ			08:37																		
ZZZZZZ			08:42																		
CCV 680-273539/228			08:48																		
CCB 680-273539/229			08:54																		
ZZZZZZ			08:59																		
ZZZZZZ			09:05																		
ZZZZZZ			09:11																		
ZZZZZZ			09:16																		
ZZZZZZ			09:22																		
ZZZZZZ			09:28																		
ZZZZZZ			09:33																		
ZZZZZZ			09:39																		
ZZZZZZ			09:45																		
ZZZZZZ			09:50																		
CCV 680-273539/240			09:56																		
CCB 680-273539/241			10:02																		

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3

SDG No.: 68089275-3

Instrument ID: LEEMAN2 Method: 245.1

Start Date: 04/16/2013 17:25 End Date: 04/16/2013 21:08

Lab Sample ID	D / F	Type	Time	Analytes																
				Hg																
IC 680-273023/10-A			17:25	X																
IC 680-273023/11-A			17:28	X																
IC 680-273023/12-A			17:30	X																
IC 680-273023/13-A			17:33	X																
IC 680-273023/14-A			17:35	X																
IC 680-273023/15-A			17:37	X																
ICV 680-273023/20-A	1		17:40	X																
ICB 680-273023/21-A	1		17:42	X																
CRA 680-273023/22-A	1		17:45	X																
CCV 680-273023/17-A			17:47																	
CCB 680-273023/18-A			17:50																	
ZZZZZZ			17:52																	
ZZZZZZ			17:55																	
ZZZZZZ			17:57																	
ZZZZZZ			17:59																	
ZZZZZZ			18:02																	
ZZZZZZ			18:04																	
ZZZZZZ			18:07																	
ZZZZZZ			18:09																	
ZZZZZZ			18:12																	
ZZZZZZ			18:14																	
CCV 680-273023/17-A			18:17																	
CCB 680-273023/18-A			18:19																	
ZZZZZZ			18:21																	
ZZZZZZ			18:24																	
ZZZZZZ			18:26																	
ZZZZZZ			18:29																	
ZZZZZZ			18:31																	
ZZZZZZ			18:34																	
ZZZZZZ			18:36																	
ZZZZZZ			18:39																	
ZZZZZZ			18:41																	
ZZZZZZ			18:44																	
CCV 680-273023/17-A			18:46																	
CCB 680-273023/18-A			18:48																	
ZZZZZZ			18:51																	
ZZZZZZ			18:53																	
ZZZZZZ			18:56																	
ZZZZZZ			18:58																	
ZZZZZZ			19:01																	
ZZZZZZ			19:03																	
ZZZZZZ			19:06																	

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3

SDG No.: 68089275-3

Instrument ID: LEEMAN2 Method: 245.1

Start Date: 04/16/2013 17:25 End Date: 04/16/2013 21:08

Lab Sample ID	D / F	T y p e	Time	Analytes															
				H g															
ZZZZZZ			19:08																
ZZZZZZ			19:10																
ZZZZZZ			19:13																
CCV 680-273023/17-A			19:15																
CCB 680-273023/18-A			19:18																
ZZZZZZ			19:20																
ZZZZZZ			19:23																
ZZZZZZ			19:25																
ZZZZZZ			19:28																
ZZZZZZ			19:30																
ZZZZZZ			19:32																
ZZZZZZ			19:35																
ZZZZZZ			19:37																
ZZZZZZ			19:40																
ZZZZZZ			19:42																
CCV 680-273023/17-A			19:45																
CCB 680-273023/18-A			19:47																
ZZZZZZ			19:50																
ZZZZZZ			19:52																
ZZZZZZ			19:55																
ZZZZZZ			19:57																
ZZZZZZ			19:59																
ZZZZZZ			20:02																
ZZZZZZ			20:04																
ZZZZZZ			20:07																
ZZZZZZ			20:09																
ZZZZZZ			20:12																
CCV 680-273023/17-A	1		20:14	X															
CCB 680-273023/18-A	1		20:17	X															
ZZZZZZ			20:19																
ZZZZZZ			20:22																
ZZZZZZ			20:24																
ZZZZZZ			20:26																
ZZZZZZ			20:29																
MB 680-273023/1-A	1	T	20:31	X															
LCS 680-273023/2-A	1	T	20:34	X															
ZZZZZZ			20:36																
ZZZZZZ			20:39																
680-89286-E-1-B MS	1	T	20:41	X															
CCV 680-273023/17-A	1		20:44	X															
CCB 680-273023/18-A	1		20:46	X															
680-89286-E-1-C MSD	1	T	20:49	X															

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3

SDG No.: 68089275-3

Instrument ID: LEEMAN2 Method: 245.1

Start Date: 04/16/2013 17:25 End Date: 04/16/2013 21:08

Lab Sample ID	D / F	T y p e	Time	Analytes															
				H g															
680-89275-1	1	T	20:51	X															
ZZZZZZ			20:53																
ZZZZZZ			20:56																
ZZZZZZ			20:58																
ZZZZZZ			21:01																
ZZZZZZ			21:03																
CCV 680-273023/17-A	1		21:06	X															
CCB 680-273023/18-A	1		21:08	X															

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3

SDG No.: 68089275-3

Instrument ID: LEEMAN2 Method: 7471B

Start Date: 04/15/2013 14:49 End Date: 04/15/2013 16:31

Lab Sample ID	D / F	T y p e	Time	Analytes															
				H g															
ZZZZZZ			14:49																
ZZZZZZ			14:52																
ZZZZZZ			14:54																
ZZZZZZ			14:57																
ZZZZZZ			14:59																
ZZZZZZ			15:01																
ICV 680-272882/26-A	1		15:04	X															
ICB 680-272882/28-A	1		15:06	X															
CRA 680-272882/29-A	1		15:09	X															
CCV 680-272882/24-A	1		15:11	X															
CCB 680-272882/25-A	1		15:14	X															
MB 680-272882/1-A	1	T	15:16	X															
LCS 680-272882/2-A	1	T	15:19	X															
ZZZZZZ			15:21																
ZZZZZZ			15:23																
ZZZZZZ			15:26																
ZZZZZZ			15:28																
ZZZZZZ			15:31																
ZZZZZZ			15:33																
ZZZZZZ			15:36																
ZZZZZZ			15:38																
CCV 680-272882/24-A	1		15:40	X															
CCB 680-272882/25-A	1		15:43	X															
680-89275-5	1	T	15:45	X															
ZZZZZZ			15:48																
ZZZZZZ			15:50																
ZZZZZZ			15:53																
ZZZZZZ			15:55																
ZZZZZZ			15:58																
ZZZZZZ			16:00																
ZZZZZZ			16:03																
ZZZZZZ			16:05																
CCV 680-272882/24-A	1		16:07	X															
CCB 680-272882/25-A	1		16:10	X															
680-89275-2	2	T	16:22	X															
680-89275-2 MS	2	T	16:24	X															
680-89275-2 MSD	2	T	16:26	X															
CCV 680-272882/24-A	1		16:29	X															
CCB 680-272882/25-A	1		16:31	X															

Prep Types
T = Total/NA

13-IN
 ANALYSIS RUN LOG
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3

SDG No.: 68089275-3

Instrument ID: LEEMAN2 Method: 7471B

Start Date: 04/17/2013 13:48 End Date: 04/17/2013 17:41

Lab Sample ID	D / F	Type	Time	Analytes																				
				H	g																			
IC 680-273176/29-A			13:48	X																				
IC 680-273176/30-A			13:51	X																				
IC 680-273176/31-A			13:53	X																				
IC 680-273176/32-A			13:56	X																				
IC 680-273176/33-A			13:58	X																				
IC 680-273176/34-A			14:01	X																				
ICV 680-273176/39-A	1		14:03	X																				
ICB 680-273176/40-A	1		14:06	X																				
CRA 680-273176/41-A	1		14:08	X																				
CCV 680-273176/36-A	1		14:10	X																				
CCB 680-273176/37-A	1		14:13	X																				
MB 680-273176/1-A	1	T	14:15	X																				
LCS 680-273176/2-A	1	T	14:18	X																				
ZZZZZZ			14:20																					
ZZZZZZ			14:23																					
ZZZZZZ			14:25																					
ZZZZZZ			14:27																					
ZZZZZZ			14:30																					
ZZZZZZ			14:32																					
ZZZZZZ			14:35																					
ZZZZZZ			14:37																					
CCV 680-273176/36-A	1		14:40	X																				
CCB 680-273176/37-A	1		14:42	X																				
ZZZZZZ			14:45																					
ZZZZZZ			14:47																					
680-89275-27	1	T	14:50	X																				
ZZZZZZ			14:52																					
ZZZZZZ			14:54																					
ZZZZZZ			14:57																					
ZZZZZZ			14:59																					
ZZZZZZ			15:02																					
ZZZZZZ			15:04																					
ZZZZZZ			15:07																					
CCV 680-273176/36-A	1		15:09	X																				
CCB 680-273176/37-A	1		15:12	X																				
ZZZZZZ			15:14																					
ZZZZZZ			15:16																					
ZZZZZZ			15:19																					
ZZZZZZ			15:21																					
ZZZZZZ			15:24																					
ZZZZZZ			15:26																					
ZZZZZZ			15:29																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-89275-3

SDG No.: 68089275-3

Instrument ID: LEEMAN2 Method: 7471B

Start Date: 04/17/2013 13:48 End Date: 04/17/2013 17:41

Lab Sample ID	D / F	T y p e	Time	Analytes																
				H g																
ZZZZZZ			15:31																	
ZZZZZZ			15:34																	
ZZZZZZ			15:36																	
CCV 680-273176/36-A			15:39																	
CCB 680-273176/37-A			15:41																	
ZZZZZZ			15:43																	
ZZZZZZ			15:46																	
ZZZZZZ			15:48																	
ZZZZZZ			15:51																	
ZZZZZZ			15:53																	
ZZZZZZ			15:56																	
ZZZZZZ			15:58																	
ZZZZZZ			16:01																	
ZZZZZZ			16:03																	
ZZZZZZ			16:05																	
CCV 680-273176/36-A			16:08																	
CCB 680-273176/37-A			16:10																	
ZZZZZZ			16:13																	
ZZZZZZ			16:15																	
CCV 680-273176/36-A			16:18																	
CCB 680-273176/37-A			16:20																	
CCV 680-273176/36-A	1		17:17	X																
CCB 680-273176/37-A	1		17:19	X																
ZZZZZZ			17:22																	
ZZZZZZ			17:24																	
ZZZZZZ			17:27																	
680-89275-26	2	T	17:29	X																
680-89275-26 MS	2	T	17:32	X																
680-89275-26 MSD	2	T	17:34	X																
680-89275-28	2	T	17:36	X																
CCV 680-273176/36-A	1		17:39	X																
CCB 680-273176/37-A	1		17:41	X																

Prep Types
T = Total/NA

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

Blank (Blk)	4/16/2013, 4:01:33 PM		Rack S, Tube 1
Label	Replicates Concentration		
Ag 328.068	-0.2499	0.5212	-0.2713
Al 308.215	-1.8539	-2.5795	4.4334
As 188.980	-0.2356	-0.5437	0.7793
B 249.678	-0.1874	-0.1850	0.3724
Ba 389.178	-0.2123	-0.0586	0.2709
Be 313.042	-0.0024	-0.0037	0.0061
Ca 370.602	-1.466	-0.7812	2.248
Cd 226.502	0.0421	0.0167	-0.0589
Co 228.615	0.2612	-0.4409	0.1797
Cr 267.716	0.1828	-0.0537	-0.1291
Cu 324.754	-0.2919	0.2603	0.0315
Fe 271.441	-0.8648	1.3106	-0.4458
K 766.491	-0.4412	-0.3105	0.7517
Mg 279.078	0.5816	2.1719	-2.7536
Mn 257.610	-0.1009	0.0618	0.0390
Mo 202.032	0.1249	0.0316	-0.1565
Na 330.237	54.4000	196.575	-250.975
Ni 231.604	0.2944	-1.0680	0.7736
Pb 220.353	0.3125	-0.5848	0.2723
Sb 206.834	1.6053	-1.7268	0.1215
Se 196.026	-5.7061	4.0673	1.6387
Sn 189.925	-0.2574	0.4350	-0.1776
Sr 216.596	0.0684	0.2810	-0.3494
Ti 334.941	-0.0042	-0.0126	0.0169
Tl 190.794	1.2372	0.8583	-2.0955
V 292.401	-0.1037	0.0776	0.0260
Zn 206.200	-0.5697	0.4263	0.1435

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	0.0000	ppb	41.618	78.2	-53.2017
Al 308.215	0.0000	ppb	11.124	65.8	-16.9100
As 188.980	0.0000	ppb	0.586	50.3	-1.1654
B 249.678	0.0000	ppb	4.569	5.1	89.7126
Ba 389.178	0.0000	ppb	7.351	51.9	-14.1732
Be 313.042	0.0000	ppb	12.406	4.3	-286.867
Ca 370.602	0.0000	ppb	8.396	53.1	15.80
Cd 226.502	0.0000	ppb	2.617	32.4	8.0875
Co 228.615	0.0000	ppb	5.282	54.7	9.6574
Cr 267.716	0.0000	ppb	6.936	37.9	18.3132
Cu 324.754	0.0000	ppb	16.640	32.9	50.5474
Fe 271.441	0.0000	ppb	2.653	33.7	7.8634
K 766.491	0.0000	ppb	28.328	10.6	266.375
Mg 279.078	0.0000	ppb	7.096	23.7	29.9373
Mn 257.610	0.0000	ppb	9.180	11.7	78.1751
Mo 202.032	0.0000	ppb	1.381	12.9	10.7254
Na 330.237	0.0000	ppb	13.023	95.6	-13.6263
Ni 231.604	0.0000	ppb	3.469	404.5	0.8577
Pb 220.353	0.0000	ppb	1.249	236.7	-0.5277
Sb 206.834	0.0000	ppb	2.170	116.0	1.8713
Se 196.026	0.0000	ppb	3.326	165.7	2.0074
Sn 189.925	0.0000	ppb	0.409	16.0	-2.5562
Sr 216.596	0.0000	ppb	4.687	48.6	9.6365
Ti 334.941	0.0000	ppb	5.005	4.6	-108.106
Tl 190.794	0.0000	ppb	2.491	5745.2	0.0434
V 292.401	0.0000	ppb	3.219	29.7	10.8525
Zn 206.200	0.0000	ppb	1.050	11.4	9.1977

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HIGH STD (Std) **4/16/2013, 4:07:07 PM** **Rack S, Tube 2**

Label	Replicates Concentration		
Ag 328.068	1006.09	998.041	995.874
Al 308.215	9991.82	10004.7	10003.4
As 188.980	998.574	1003.77	997.656
B 249.678	992.278	1000.19	1007.53
Ba 389.178	9995.35	9992.69	10012.0
Be 313.042	999.183	998.054	1002.76
Ca 370.602	9994	9992	10014
Cd 226.502	999.328	999.420	1001.25
Co 228.615	997.711	1000.40	1001.89
Cr 267.716	9977.73	9987.65	10034.6
Cu 324.754	10013.5	10040.8	9945.66
Fe 271.441	9980.70	10006.4	10012.9
K 766.491	19992.2	19915.8	20091.9
Mg 279.078	9990.22	10000.9	10008.9
Mn 257.610	9977.13	10003.0	10019.9
Mo 202.032	999.519	997.622	1002.86
Na 330.237	15263.6	14925.1	14811.3
Ni 231.604	4992.43	4995.86	5011.71
Pb 220.353	997.812	1000.78	1001.41
Sb 206.834	1995.18	2005.25	1999.57
Se 196.026	9975.81	9992.89	10031.3
Sn 189.925	9994.71	9995.65	10009.6
Sr 216.596	4993.58	5000.55	5005.86
Ti 334.941	998.818	1000.07	1001.11
Tl 190.794	9975.99	10024.9	9999.07
V 292.401	9991.69	10007.4	10000.9
Zn 206.200	4997.21	5002.03	5000.75

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	1000.00	ppb	495.972	0.5	92127.2
Al 308.215	10000.0	ppb	20.512	0.1	28828.3
As 188.980	1000.00	ppb	2.790	0.3	845.243
B 249.678	1000.00	ppb	108.097	0.8	14258.3
Ba 389.178	10000.0	ppb	310.911	0.1	297729
Be 313.042	1000.00	ppb	5701.387	0.2	2319088
Ca 370.602	10000	ppb	51.764	0.1	42500
Cd 226.502	1000.00	ppb	54.047	0.1	49827.9
Co 228.615	1000.00	ppb	29.141	0.2	13764.0
Cr 267.716	10000.0	ppb	1294.767	0.3	426146
Cu 324.754	10000.0	ppb	2938.849	0.5	599779
Fe 271.441	10000.0	ppb	39.156	0.2	22997.7
K 766.491	20000.0	ppb	3823.218	0.4	866173
Mg 279.078	10000.0	ppb	26.446	0.1	28257.0
Mn 257.610	10000.0	ppb	2245.283	0.2	1042071
Mo 202.032	1000.00	ppb	25.545	0.3	9646.24
Na 330.237	15000.0	ppb	13.398	1.6	840.630
Ni 231.604	5000.00	ppb	37.347	0.2	18157.2
Pb 220.353	1000.00	ppb	4.732	0.2	2463.58
Sb 206.834	2000.00	ppb	6.560	0.3	2602.17
Se 196.026	10000.0	ppb	18.577	0.3	6538.16
Sn 189.925	10000.0	ppb	9.027	0.1	10802.6
Sr 216.596	5000.00	ppb	89.996	0.1	73080.8
Ti 334.941	1000.00	ppb	378.159	0.1	328748
Tl 190.794	10000.0	ppb	33.433	0.2	13654.4
V 292.401	10000.0	ppb	271.826	0.1	344673
Zn 206.200	5000.00	ppb	5.103	0.0	10233.8

Ag 328.068 Calibration (ppb) 4/16/2013, 4:07:07 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-53.2017	0.0000	0.0000	-	-
HIGH STD		92127.2	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 92.2 x + -53.2$

Al 308.215 Calibration (ppb) 4/16/2013, 4:07:07 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-16.9100	0.0000	0.0000	-	-
HIGH STD		28828.3	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 2.9 x + -16.9$

As 188.980 Calibration (ppb) 4/16/2013, 4:07:07 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-1.1654	0.0000	0.0000	-	-
HIGH STD		845.243	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 0.8 x + -1.2$

B 249.678 Calibration (ppb) 4/16/2013, 4:07:07 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		89.7126	0.0000	0.0000	-	-
HIGH STD		14258.3	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation: $y = 14.2 x + 89.7$

Ba 389.178 Calibration (ppb) 4/16/2013, 4:07:07 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-14.1732	0.0000	0.0000	-	-
HIGH STD		297729	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 29.8 x + -14.2$

Be 313.042 Calibration (ppb) 4/16/2013, 4:07:07 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-286.867	0.0000	0.0000	-	-
HIGH STD		2319088	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 2319.4 x + -286.9$

Ca 370.602 Calibration (ppb) 4/16/2013, 4:07:07 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		15.80	0.0000	0.0000	-	-
HIGH STD		42500	10000	10000	0.0000	0.0

Curve Type: Linear Equation: $y = 4.2 x + 15.8$

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Cd 226.502 Calibration (ppb) 4/16/2013, 4:07:07 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		8.0875	0.0000	0.0000	-	-
HIGH STD		49827.9	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation: $y = 49.8 x + 8.1$ **Co 228.615 Calibration (ppb) 4/16/2013, 4:07:07 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		9.6574	0.0000	0.0000	-	-
HIGH STD		13764.0	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation: $y = 13.8 x + 9.7$ **Cr 267.716 Calibration (ppb) 4/16/2013, 4:07:07 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		18.3132	0.0000	0.0000	-	-
HIGH STD		426146	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: $y = 42.6 x + 18.3$ **Cu 324.754 Calibration (ppb) 4/16/2013, 4:07:07 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		50.5474	0.0000	0.0000	-	-
HIGH STD		599779	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: $y = 60.0 x + 50.5$ **Fe 271.441 Calibration (ppb) 4/16/2013, 4:07:07 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		7.8634	0.0000	0.0000	-	-
HIGH STD		22997.7	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 2.3 x + 7.9$ **K 766.491 Calibration (ppb) 4/16/2013, 4:07:07 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		266.375	0.0000	0.0000	-	-
HIGH STD		866173	20000.0	20000.0	-0.0020	0.0

Curve Type: Linear Equation: $y = 43.3 x + 266.4$ **Mg 279.078 Calibration (ppb) 4/16/2013, 4:07:07 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		29.9373	0.0000	0.0000	-	-
HIGH STD		28257.0	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: $y = 2.8 x + 29.9$

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Mn 257.610 Calibration (ppb) 4/16/2013, 4:07:07 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		78.1751	0.0000	0.0000	-	-
HIGH STD		1042071	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 104.2 x + 78.2$ **Mo 202.032 Calibration (ppb) 4/16/2013, 4:07:07 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		10.7254	0.0000	0.0000	-	-
HIGH STD		9646.24	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation: $y = 9.6 x + 10.7$ **Na 330.237 Calibration (ppb) 4/16/2013, 4:07:07 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-13.6263	0.0000	0.0000	-	-
HIGH STD		840.630	15000.0	15000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 0.1 x + -13.6$ **Ni 231.604 Calibration (ppb) 4/16/2013, 4:07:07 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.8577	0.0000	0.0000	-	-
HIGH STD		18157.2	5000.00	5000.00	-0.0005	0.0

Curve Type: Linear Equation: $y = 3.6 x + 0.9$ **Pb 220.353 Calibration (ppb) 4/16/2013, 4:07:07 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-0.5277	0.0000	0.0000	-	-
HIGH STD		2463.58	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 2.5 x + -0.5$ **Sb 206.834 Calibration (ppb) 4/16/2013, 4:07:07 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		1.8713	0.0000	0.0000	-	-
HIGH STD		2602.17	2000.00	2000.00	0.0001	0.0

Curve Type: Linear Equation: $y = 1.3 x + 1.9$ **Se 196.026 Calibration (ppb) 4/16/2013, 4:07:07 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		2.0074	0.0000	0.0000	-	-
HIGH STD		6538.16	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 0.7 x + 2.0$

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Sn 189.925 Calibration (ppb) 4/16/2013, 4:07:07 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-2.5562	0.0000	0.0000	-	-
HIGH STD		10802.6	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 1.1 x + -2.6$ **Sr 216.596 Calibration (ppb) 4/16/2013, 4:07:07 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		9.6365	0.0000	0.0000	-	-
HIGH STD		73080.8	5000.00	5000.00	-0.0005	0.0

Curve Type: Linear Equation: $y = 14.6 x + 9.6$ **Ti 334.941 Calibration (ppb) 4/16/2013, 4:07:07 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-108.106	0.0000	0.0000	-	-
HIGH STD		328748	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 328.9 x + -108.1$ **Tl 190.794 Calibration (ppb) 4/16/2013, 4:07:07 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		0.0434	0.0000	0.0000	-	-
HIGH STD		13654.4	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 1.4 x + 0.0$ **V 292.401 Calibration (ppb) 4/16/2013, 4:07:07 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		10.8525	0.0000	0.0000	-	-
HIGH STD		344673	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 34.5 x + 10.9$ **Zn 206.200 Calibration (ppb) 4/16/2013, 4:07:07 PM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		9.1977	0.0000	0.0000	-	-
HIGH STD		10233.8	5000.00	5000.00	-0.0005	0.0

Curve Type: Linear Equation: $y = 2.0 x + 9.2$ **Lab Control Sample (LCS) 4/16/2013, 4:12:41 PM Rack S, Tube 2****Weight: 1 Volume: 1 Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1006.39	1003.17	997.702
Al 308.215	10011.0	10011.5	9964.98
As 188.980	1006.92	993.569	1004.66
B 249.678	1012.35	1020.47	1021.90
Ba 389.178	9997.33	10004.6	9995.72

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Label	Replicates Concentration		
Be 313.042	996.779	994.417	995.324
Ca 370.602	9928	9923	9912
Cd 226.502	1001.98	1002.98	1001.08
Co 228.615	999.350	1001.62	1001.53
Cr 267.716	10049.1	10036.3	9983.43
Cu 324.754	9973.33	9903.96	9957.08
Fe 271.441	10029.9	10025.7	10033.4
K 766.491	20007.5	19861.7	19959.3
Mg 279.078	9980.27	9971.32	9960.76
Mn 257.610	9959.67	9990.74	9996.46
Mo 202.032	999.214	1001.67	999.287
Na 330.237	14450.0	14659.4	14571.1
Ni 231.604	5003.91	5000.35	4994.25
Pb 220.353	1006.19	1000.77	1000.86
Sb 206.834	2039.13	2032.19	2020.76
Se 196.026	10001.6	10029.6	10022.1
Sn 189.925	10146.0	10093.0	10050.5
Sr 216.596	5001.18	5008.22	5000.35
Ti 334.941	997.451	999.271	997.665
Tl 190.794	9985.98	9982.75	9984.65
V 292.401	9996.76	9987.74	9976.40
Zn 206.200	5012.40	5016.46	4996.90

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	1002.42	ppb	4.3936	0.4	92204.7	100.24232
Al 308.215	9995.81	ppb	26.7000	0.3	28793.3	99.95810
As 188.980	1001.71	ppb	7.1444	0.7	846.305	100.17141
B 249.678	1018.24	ppb	5.1503	0.5	14502.5	20.36475*
Ba 389.178	9999.21	ppb	4.7082	0.0	297792	99.99206
Be 313.042	995.507	ppb	1.1917	0.1	2308027	99.55067
Ca 370.602	9921	ppb	8.395	0.1	41815	99.21045
Cd 226.502	1002.01	ppb	0.9473	0.1	49961.1	100.20129
Co 228.615	1000.84	ppb	1.2879	0.1	13796.3	100.08359
Cr 267.716	10022.9	ppb	34.8116	0.3	427072	100.22946
Cu 324.754	9944.79	ppb	36.2800	0.4	596385	99.44791
Fe 271.441	10029.7	ppb	3.8435	0.0	23399.3	100.29666
K 766.491	19942.8	ppb	74.2785	0.4	863698	99.71421
Mg 279.078	9970.78	ppb	9.7698	0.1	27958.3	99.70782
Mn 257.610	9982.29	ppb	19.7968	0.2	1040265	99.82288
Mo 202.032	1000.06	ppb	1.3958	0.1	9621.06	100.00560
Na 330.237	14560.1	ppb	105.165	0.7	762.407	97.06763
Ni 231.604	4999.50	ppb	4.8866	0.1	18155.7	99.99001
Pb 220.353	1002.61	ppb	3.1018	0.3	2469.67	100.26073
Sb 206.834	2030.69	ppb	9.2755	0.5	2764.95	40.61384*
Se 196.026	10017.7	ppb	14.5077	0.1	6553.01	100.17743
Sn 189.925	10096.5	ppb	47.8222	0.5	10906.9	100.96478
Sr 216.596	5003.25	ppb	4.3258	0.1	72971.2	100.06502
Ti 334.941	998.129	ppb	0.9950	0.1	328186	99.81291
Tl 190.794	9984.46	ppb	1.6209	0.0	13619.4	99.84461
V 292.401	9986.97	ppb	10.2020	0.1	343225	99.86967
Zn 206.200	5008.59	ppb	10.3219	0.2	10211.3	100.17173

Initial Calib Verif (ICV)

4/16/2013, 4:18:16 PM

Rack S, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1001.27	995.195	987.193
Al 308.215	965.162	962.546	975.352

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

Label	Replicates Concentration		
As 188.980	999.810	993.775	1002.43
B 249.678	995.281	992.500	1000.75
Ba 389.178	1035.53	1029.06	1032.45
Be 313.042	1041.62x	1036.52x	1040.57x
Ca 370.602	981.0	982.5	984.8
Cd 226.502	1051.15x	1044.94x	1048.75x
Co 228.615	1018.31	997.578	1002.62
Cr 267.716	1043.54	1040.14	1046.89
Cu 324.754	1064.25	1052.07	1046.41
Fe 271.441	1004.31	994.640	1002.88
K 766.491	10181.6	10119.8	10116.4
Mg 279.078	1011.87	1001.78	1004.89
Mn 257.610	1084.93	1074.67	1075.28
Mo 202.032	1005.71	1001.65	1005.28
Na 330.237	10230.3	10308.3	9769.06
Ni 231.604	1035.72	1038.57	1042.05
Pb 220.353	1010.44	1006.77	1013.07
Sb 206.834	985.030	986.775	994.984
Se 196.026	980.002	973.444	979.535
Sn 189.925	4992.54	4960.93	4984.21
Sr 216.596	4969.16	4957.72	4979.40
Ti 334.941	980.826	976.225	981.511
Tl 190.794	1017.99	1013.31	1016.58
V 292.401	995.614	989.033	993.060
Zn 206.200	1120.54	1112.32	1119.70

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	994.551b	ppb	7.0589	0.7	91361.3	99.45515
Al 308.215	967.686b	ppb	6.7657	0.7	2832.73	96.76865
As 188.980	998.673b	ppb	4.4402	0.4	843.749	99.86730
B 249.678	996.177b	ppb	4.1968	0.4	14202.6	99.61767
Ba 389.178	1032.35b	ppb	3.2370	0.3	30738.0	103.23479
Be 313.042	1039.57xb	ppb	2.6938	0.3	2410624	103.95685
Ca 370.602	982.8b	ppb	1.924	0.2	4368	98.27538
Cd 226.502	1048.28xb	ppb	3.1302	0.3	52236.9	104.82829
Co 228.615	1006.17b	ppb	10.8147	1.1	13838.8	100.61710
Cr 267.716	1043.52b	ppb	3.3718	0.3	44474.5	104.35217
Cu 324.754	1054.24b	ppb	9.1214	0.9	63298.3	105.42417Q
Fe 271.441	1000.61b	ppb	5.2187	0.5	2530.73	100.06091
K 766.491	10139.3b	ppb	36.6927	0.4	439249	101.39262
Mg 279.078	1006.18b	ppb	5.1662	0.5	2846.91	100.61823
Mn 257.610	1078.29b	ppb	5.7523	0.5	112440	107.82928Q
Mo 202.032	1004.21b	ppb	2.2292	0.2	9684.25	100.42099
Na 330.237	10102.6b	ppb	291.429	2.9	543.698	101.02552
Ni 231.604	1038.78b	ppb	3.1690	0.3	3772.97	103.87765
Pb 220.353	1010.09b	ppb	3.1635	0.3	2485.49	101.00926
Sb 206.834	988.930b	ppb	5.3153	0.5	1295.21	98.89298
Se 196.026	977.660b	ppb	3.6589	0.4	641.371	97.76604
Sn 189.925	4979.23b	ppb	16.3833	0.3	5377.58	99.58453
Sr 216.596	4968.76b	ppb	10.8470	0.2	72551.4	99.37520
Ti 334.941	979.520b	ppb	2.8746	0.3	322017	97.95204
Tl 190.794	1015.96b	ppb	2.4057	0.2	1385.84	101.59605
V 292.401	992.569b	ppb	3.3182	0.3	33910.7	99.25691
Zn 206.200	1117.52b	ppb	4.5237	0.4	2290.23	111.75200Q

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

Initial Calib Blank (ICB) 4/16/2013, 4:23:50 PM Rack S, Tube 1

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5071	0.5194	-0.2398u
Al 308.215	5.2159	-2.1088u	-2.1682u
As 188.980	2.1138	0.8360	4.6223
B 249.678	27.7331	24.9357	24.4602
Ba 389.178	1.0126	1.1280	1.2843
Be 313.042	0.2030	0.2872	0.3120
Ca 370.602	0.3840	-0.6910u	1.798
Cd 226.502	0.3126	0.3858	0.5083
Co 228.615	0.4141	0.3236	0.4889
Cr 267.716	0.2857	0.4031	0.6837
Cu 324.754	0.2913	1.0468	1.1808
Fe 271.441	4.7852	4.7724	0.2038
K 766.491	3.7882	3.9022	3.8275
Mg 279.078	-1.9972u	2.0475	-3.8651u
Mn 257.610	0.4613	0.7142	0.7365
Mo 202.032	1.3167	0.8036	0.6067
Na 330.237	-8.3160u	134.363	287.454
Ni 231.604	-0.7537u	0.9721	1.2798
Pb 220.353	2.0325	0.5151	2.0445
Sb 206.834	0.2065	0.3648	2.7509
Se 196.026	-4.2817u	-0.1462u	-2.5443u
Sn 189.925	1.6912	3.6185	2.8208
Sr 216.596	1.2482	1.5936	2.1568
Ti 334.941	0.5052	0.5659	0.5508
Tl 190.794	1.6945	1.4462	2.0601
V 292.401	0.4406	0.3795	0.1924
Zn 206.200	-0.5892u	0.0540	-0.5553u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2622	ppb	0.4348	165.8	-29.1024	0.26224
Al 308.215	0.3130	ppb	4.2462	1356.7	-15.9360	0.31298
As 188.980	2.5240	ppb	1.9262	76.3	0.9705	2.52402
B 249.678	25.7097	ppb	1.7684	6.9	453.978	25.70970
Ba 389.178	1.1416	ppb	0.1364	11.9	19.8278	1.14162
Be 313.042	0.2674	ppb	0.0571	21.4	333.083	0.26740
Ca 370.602	0.4968	ppb	1.248	251.2	17.70	0.49683
Cd 226.502	0.4022	ppb	0.0989	24.6	28.1367	0.40223
Co 228.615	0.4089	ppb	0.0828	20.2	15.2546	0.40888
Cr 267.716	0.4575	ppb	0.2045	44.7	37.8082	0.45752
Cu 324.754	0.8397	ppb	0.4796	57.1	100.938	0.83966
Fe 271.441	3.2538	ppb	2.6414	81.2	15.3867	3.25377
K 766.491	3.8393	ppb	0.0579	1.5	432.599	3.83931
Mg 279.078	-1.2716	ppb	3.0224	237.7	26.3348	-1.27162
Mn 257.610	0.6373	ppb	0.1529	24.0	144.585	0.63733
Mo 202.032	0.9090	ppb	0.3666	40.3	19.4829	0.90899
Na 330.237	137.834	ppb	147.916	107.3	-5.7778	137.83376
Ni 231.604	0.4994	ppb	1.0961	219.5	2.6713	0.49940
Pb 220.353	1.5307	ppb	0.8796	57.5	3.2416	1.53071
Sb 206.834	1.1074	ppb	1.4255	128.7	3.3005	1.10741
Se 196.026	-2.3241	ppb	2.0765	89.3	0.4885	-2.32408
Sn 189.925	2.7102	ppb	0.9684	35.7	0.3722	2.71015
Sr 216.596	1.6662	ppb	0.4586	27.5	33.9334	1.66620
Ti 334.941	0.5407	ppb	0.0316	5.8	69.6782	0.54065
Tl 190.794	1.7336	ppb	0.3088	17.8	2.4087	1.73362
V 292.401	0.3375	ppb	0.1293	38.3	22.1839	0.33752
Zn 206.200	-0.3635	ppb	0.3619	99.6	8.4524	-0.36350

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

Initial Calib Verif (ICV) 4/16/2013, 4:33:19 PM Rack S, Tube 3

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	982.597	978.507	963.531
Al 308.215	974.455	967.068	964.699
As 188.980	981.920	980.024	981.861
B 249.678	975.223	980.528	980.618
Ba 389.178	1032.53	1028.28	1025.65
Be 313.042	1045.43x	1039.55x	1036.97x
Ca 370.602	963.4	966.6	959.8
Cd 226.502	1042.21x	1040.89x	1036.50x
Co 228.615	1003.11	1010.06	1002.21
Cr 267.716	1053.26	1046.31	1050.23
Cu 324.754	1054.79	1061.18	1039.76
Fe 271.441	972.983	970.981	964.930
K 766.491	10178.3	10119.6	10017.9
Mg 279.078	1001.94	1004.13	997.012
Mn 257.610	1055.78	1060.46	1044.51
Mo 202.032	1005.43	1001.61	1002.60
Na 330.237	9957.21	9776.52	9838.67
Ni 231.604	1034.67	1033.11	1029.63
Pb 220.353	1008.57	1000.23	1007.19
Sb 206.834	988.632	985.545	985.817
Se 196.026	985.507	980.153	972.936
Sn 189.925	4980.61	4962.14	4899.81
Sr 216.596	4998.16	4979.44	4978.18
Ti 334.941	986.452	981.346	979.981
Tl 190.794	1006.66	1011.15	1001.85
V 292.401	993.860	989.477	984.549
Zn 206.200	1034.79	1035.21	1034.70

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	974.878b	ppb	10.0373	1.0	89550.0	97.48785
Al 308.215	968.741b	ppb	5.0887	0.5	2835.30	96.87410
As 188.980	981.268b	ppb	1.0778	0.1	829.020	98.12682
B 249.678	978.790b	ppb	3.0892	0.3	13956.3	97.87896
Ba 389.178	1028.82b	ppb	3.4707	0.3	30632.8	102.88190
Be 313.042	1040.65xb	ppb	4.3372	0.4	2413129	104.06480
Ca 370.602	963.3b	ppb	3.428	0.4	4288	96.32610
Cd 226.502	1039.87xb	ppb	2.9883	0.3	51817.4	103.98660
Co 228.615	1005.13b	ppb	4.2985	0.4	13824.7	100.51259
Cr 267.716	1049.93b	ppb	3.4835	0.3	44747.7	104.99319
Cu 324.754	1051.91b	ppb	10.9992	1.0	63158.3	105.19108
Fe 271.441	969.631b	ppb	4.1927	0.4	2459.43	96.96313
K 766.491	10105.3b	ppb	81.1449	0.8	437777	101.05273
Mg 279.078	1001.02b	ppb	3.6432	0.4	2832.54	100.10246
Mn 257.610	1053.58b	ppb	8.2001	0.8	109865	105.35847
Mo 202.032	1003.21b	ppb	1.9830	0.2	9674.63	100.32101
Na 330.237	9857.47b	ppb	91.7963	0.9	530.457	98.57468
Ni 231.604	1032.47b	ppb	2.5792	0.2	3750.05	103.24660
Pb 220.353	1005.33b	ppb	4.4666	0.4	2473.77	100.53285
Sb 206.834	986.665b	ppb	1.7093	0.2	1292.25	98.66648
Se 196.026	979.532b	ppb	6.3087	0.6	642.591	97.95320
Sn 189.925	4947.52b	ppb	42.3363	0.9	5343.33	98.95041
Sr 216.596	4985.26b	ppb	11.1920	0.2	72793.1	99.70519
Ti 334.941	982.593b	ppb	3.4110	0.3	323028	98.25930
Tl 190.794	1006.55b	ppb	4.6499	0.5	1373.02	100.65543
V 292.401	989.295b	ppb	4.6578	0.5	33800.2	98.92952
Zn 206.200	1034.90b	ppb	0.2751	0.0	4121.30	103.48981

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

Initial Calib Blank (ICB) 4/16/2013, 4:43:31 PM Rack S, Tube 1

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0545	-0.1860u	-0.1852u
Al 308.215	-1.3559u	-1.3309u	-5.7983u
As 188.980	1.7421	5.6911	3.4537
B 249.678	8.6019	7.8895	8.0195
Ba 389.178	0.8736	0.5824	0.6283
Be 313.042	0.1778	0.2140	0.2597
Ca 370.602	-1.550u	-2.959u	2.949
Cd 226.502	0.1970	0.2830	0.3302
Co 228.615	0.3678	-0.1789u	0.5151
Cr 267.716	0.1438	0.2798	0.5029
Cu 324.754	0.8790	0.2121	0.9049
Fe 271.441	6.5179	3.0778	2.7803
K 766.491	2.2230	1.8547	4.2816
Mg 279.078	-1.6347u	4.1767	-2.8308u
Mn 257.610	0.2570	0.4864	0.4646
Mo 202.032	0.3291	0.5832	0.9352
Na 330.237	110.556	119.601	144.765
Ni 231.604	0.4958	-0.9480u	0.3949
Pb 220.353	2.5639	0.2486	3.8034
Sb 206.834	3.9161	0.3495	2.0004
Se 196.026	1.0233	-2.9859u	-0.1782u
Sn 189.925	2.7241	3.7970	3.3729
Sr 216.596	0.9123	0.7655	1.6522
Ti 334.941	0.2861	0.2998	0.9648
Tl 190.794	1.1401	2.6772	0.2021
V 292.401	0.2227	0.5593	0.5726
Zn 206.200	-0.4337u	0.1239	-0.8852u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1056	ppb	0.1386	131.3	-62.9918	-0.10557
Al 308.215	-2.8284	ppb	2.5721	90.9	-25.0241	-2.82837
As 188.980	3.6290	ppb	1.9804	54.6	1.9059	3.62896
B 249.678	8.1703	ppb	0.3794	4.6	205.468	8.17029
Ba 389.178	0.6948	ppb	0.1566	22.5	6.5275	0.69478
Be 313.042	0.2172	ppb	0.0410	18.9	216.715	0.21719
Ca 370.602	-0.5197	ppb	3.086	593.7	13.28	-0.51973
Cd 226.502	0.2701	ppb	0.0675	25.0	21.5557	0.27008
Co 228.615	0.2347	ppb	0.3657	155.8	12.8726	0.23469
Cr 267.716	0.3088	ppb	0.1813	58.7	31.4710	0.30881
Cu 324.754	0.6653	ppb	0.3927	59.0	90.4683	0.66531
Fe 271.441	4.1253	ppb	2.0774	50.4	17.3786	4.12532
K 766.491	2.7864	ppb	1.3079	46.9	387.015	2.78644
Mg 279.078	-0.0963	ppb	3.7485	3894.2	29.6568	-0.09626
Mn 257.610	0.4027	ppb	0.1266	31.4	120.141	0.40269
Mo 202.032	0.6158	ppb	0.3044	49.4	16.6577	0.61582
Na 330.237	124.974	ppb	17.7261	14.2	-6.5097	124.97418
Ni 231.604	-0.0191	ppb	0.8060	4215.2	0.7884	-0.01912
Pb 220.353	2.2053	ppb	1.8044	81.8	4.9046	2.20530
Sb 206.834	2.0887	ppb	1.7849	85.5	4.5831	2.08870
Se 196.026	-0.7136	ppb	2.0575	288.3	1.5411	-0.71361
Sn 189.925	3.2980	ppb	0.5404	16.4	1.0074	3.29796
Sr 216.596	1.1100	ppb	0.4753	42.8	25.8357	1.10996
Ti 334.941	0.5169	ppb	0.3880	75.1	61.8814	0.51692
Tl 190.794	1.3398	ppb	1.2496	93.3	1.8716	1.33982
V 292.401	0.4515	ppb	0.1983	43.9	26.2069	0.45152
Zn 206.200	-0.3983	ppb	0.5955	1496.8	48.3812	-0.39831

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

CRI (CRI) **4/16/2013, 4:49:05 PM** **Rack S, Tube 4****Weight: 1** **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.3452	10.4256	10.2775
Al 308.215	211.071	203.756	205.322
As 188.980	20.3445	24.0560	24.0430
B 249.678	100.194	101.764	101.472
Ba 389.178	10.5990	11.1942	10.5270
Be 313.042	4.3068	4.2815	4.2852
Ca 370.602	508.7	501.7	505.2
Cd 226.502	5.4419	5.5101	5.4263
Co 228.615	10.7248	11.1717	11.1853
Cr 267.716	10.1913	10.6712	10.7143
Cu 324.754	21.7786	21.1608	22.2155
Fe 271.441	51.4786	49.6523	50.3559
K 766.491	1042.92	1030.05	1038.31
Mg 279.078	515.350	512.280	516.002
Mn 257.610	11.0264	10.8762	10.9738
Mo 202.032	9.9871	10.4009	10.6960
Na 330.237	1148.52	1083.70	1056.35
Ni 231.604	41.1442	42.9477	42.2746
Pb 220.353	11.7764	9.4415	13.9738
Sb 206.834	19.3839	14.7901	18.3454
Se 196.026	15.4412	15.1529	19.3165
Sn 189.925	52.6421	53.1236	49.1049
Sr 216.596	10.2402	10.2012	10.1771
Ti 334.941	10.0198	9.9015	9.9446
Tl 190.794	20.6692	23.0343	21.3607
V 292.401	10.0592	9.7044	9.7407
Zn 206.200	19.8496	19.8979	19.4399

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	10.3494	ppb	0.0741	0.7	900.363	103.49437
Al 308.215	206.716	ppb	3.8517	1.9	579.979	103.35816
As 188.980	22.8145	ppb	2.1391	9.4	18.1463	114.07256
B 249.678	101.143	ppb	0.8346	0.8	1522.70	101.14336
Ba 389.178	10.7734	ppb	0.3662	3.4	308.525	107.73426
Be 313.042	4.2912	ppb	0.0136	0.3	9663.52	107.27917
Ca 370.602	505.2	ppb	3.532	0.7	2160	101.04338
Cd 226.502	5.4594	ppb	0.0446	0.8	280.244	109.18880
Co 228.615	11.0273	ppb	0.2621	2.4	161.220	110.27257
Cr 267.716	10.5256	ppb	0.2903	2.8	466.795	105.25616
Cu 324.754	21.7183	ppb	0.5299	2.4	1353.30	108.59152
Fe 271.441	50.4956	ppb	0.9211	1.8	126.331	100.99118
K 766.491	1037.09	ppb	6.5242	0.6	45167.7	103.70933
Mg 279.078	514.544	ppb	1.9874	0.4	1482.04	102.90878
Mn 257.610	10.9588	ppb	0.0762	0.7	1221.50	109.58780
Mo 202.032	10.3613	ppb	0.3561	3.4	110.534	103.61331
Na 330.237	1096.19	ppb	47.3339	4.3	48.5358	109.61900
Ni 231.604	42.1221	ppb	0.9114	2.2	153.816	105.30536
Pb 220.353	11.7306	ppb	2.2665	19.3	28.3418	117.30573
Sb 206.834	17.5065	ppb	2.4091	13.8	24.6396	87.53234
Se 196.026	16.6369	ppb	2.3251	14.0	12.8850	83.18430
Sn 189.925	51.6235	ppb	2.1945	4.3	53.2246	103.24704
Sr 216.596	10.2062	ppb	0.0319	0.3	157.398	102.06166
Ti 334.941	9.9553	ppb	0.0598	0.6	3168.42	99.55283
Tl 190.794	21.6881	ppb	1.2161	5.6	29.6399	86.75238
V 292.401	9.8348	ppb	0.1952	2.0	346.618	98.34764
Zn 206.200	19.7292	ppb	0.2516	1.3	49.5001	98.64575

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

Interf Check A (ICSA) 4/16/2013, 4:54:41 PM Rack S, Tube 5

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5811u	-0.2562u	-1.0734u
Al 308.215	600200	559595	553248
As 188.980	9.2986	-8.6306u	1.6844
B 249.678	-18.8057u	-15.7937u	-15.4901u
Ba 389.178	-0.1241	-5.0715	-5.6199
Be 313.042	-0.1589u	-0.1598u	-0.1648u
Ca 370.602	527295	495369	493351
Cd 226.502	3.2275	2.5476	2.9846
Co 228.615	0.9355	1.5972	0.5012u
Cr 267.716	0.5176	0.4242	0.4377
Cu 324.754	-0.6007	-0.5370	-0.7861
Fe 271.441	206188	193856	193397
K 766.491	-1.7073u	-1.7831u	-1.5959u
Mg 279.078	573926	535056	534984
Mn 257.610	3.8032	2.4084	2.5955
Mo 202.032	1.3856	2.1769	2.0659
Na 330.237	103.767u	-207.598u	18.0159u
Ni 231.604	1.8386	5.9101	5.1327
Pb 220.353	8.3804	6.6244	4.6940u
Sb 206.834	4.3858	-1.2484	2.9796
Se 196.026	-2.0078u	-8.2752u	-4.1382u
Sn 189.925	-0.6496u	-3.9207u	1.7217
Sr 216.596	5.3177	3.6573	3.3466
Ti 334.941	0.2994	-0.4191	-0.3898
Tl 190.794	-4.6349u	-6.8286u	-4.9998u
V 292.401	0.5695	1.1968	0.7458
Zn 206.200	21.3193	17.9493	14.0735

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.6369	ppb	0.4115	64.6	-121.502	-0.63690
Al 308.215	571014	ppb	25473.7	4.5	1647088	-
As 188.980	0.7841	ppb	8.9985	1147.6	2.5997	0.78412
B 249.678	-16.6965	ppb	1.8329	11.0	-424.913	-16.69651
Ba 389.178	-3.6052	ppb	3.0272	84.0	2085.12	-3.60516
Be 313.042	-0.1612	ppb	0.0032	2.0	-411.438	-0.16115
Ca 370.602	505339	ppb	19042	3.8	2125533	-
Cd 226.502	2.9199	ppb	0.3445	11.8	801.707	2.91989
Co 228.615	1.0113	ppb	0.5520	54.6	15.8013	1.01130
Cr 267.716	0.4598	ppb	0.0505	11.0	83.8702	0.45984
Cu 324.754	-0.6413	ppb	0.1294	20.2	82.0106	-0.64130
Fe 271.441	197814	ppb	7255.78	3.7	454779	-
K 766.491	-1.6954	ppb	0.0942	5.6	192.972	-1.69540
Mg 279.078	547989	ppb	22462.6	4.1	1546672	-
Mn 257.610	2.9357	ppb	0.7571	25.8	2073.52	2.93569
Mo 202.032	1.8761	ppb	0.4284	22.8	15.6935	1.87609
Na 330.237	-28.6052	ppb	160.833	562.2	-80.7808	-28.60525
Ni 231.604	4.2938	ppb	2.1615	50.3	22.3698	4.29382
Pb 220.353	6.5662	ppb	1.8439	28.1	1.2255	6.56624
Sb 206.834	2.0390	ppb	2.9325	143.8	10.3388	2.03899
Se 196.026	-4.8071	ppb	3.1868	66.3	-1.3833	-4.80709
Sn 189.925	-0.9495	ppb	2.8331	298.4	-3.3126	-0.94952
Sr 216.596	4.1072	ppb	1.0597	25.8	248.760	4.10723
Ti 334.941	-0.1698	ppb	0.4066	239.4	2809.42	-0.16985
Tl 190.794	-5.4878	ppb	1.1755	21.4	-21.2782	-5.48776
V 292.401	0.8374	ppb	0.3235	38.6	43.2189	0.83736
Zn 206.200	17.7807	ppb	3.6258	20.4	45.5518	17.78070

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

Interf Check AB (ICSAB) 4/16/2013, 5:00:17 PM Rack S, Tube 6

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	220.670	224.103	221.764
Al 308.215	559553	561927	557454
As 188.980	107.626	125.580	107.836
B 249.678	-19.1805u	-18.3864u	-19.4471u
Ba 389.178	517.011	521.914	521.960
Be 313.042	510.750	514.157	511.033
Ca 370.602	498386	501178	495546
Cd 226.502	1014.84	1022.40	1014.80
Co 228.615	492.377	505.650	495.406
Cr 267.716	522.557	526.281	522.955
Cu 324.754	572.351	579.159	559.422
Fe 271.441	194213	195518	194259
K 766.491	-1.2657u	-1.1538u	-2.9993u
Mg 279.078	540313	544455	539055
Mn 257.610	522.116	526.808	522.018
Mo 202.032	1081.85	1089.55	1079.49
Na 330.237	-543.119u	-420.350u	-571.118u
Ni 231.604	981.149	987.207	979.168
Pb 220.353	51.3048	54.9795	52.4575
Sb 206.834	617.641	622.267	613.416
Se 196.026	38.1395	33.5157	49.4655
Sn 189.925	1043.69	1049.51	1043.54
Sr 216.596	5.1648	5.0117	5.5654
Ti 334.941	-6.4098	-6.3349	-6.2972
Tl 190.794	92.0987	89.8592	97.6467
V 292.401	498.223	501.731	499.199
Zn 206.200	999.472	1009.98	1003.43

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	222.179	ppb	1.7541	0.8	20424.6	111.08948
Al 308.215	559644	ppb	2237.94	0.4	1614359	111.92886
As 188.980	113.681	ppb	10.3055	9.1	97.7205	113.68083
B 249.678	-19.0047	ppb	0.5518	2.9	-453.243	-
Ba 389.178	520.295	ppb	2.8443	0.5	17663.2	104.05898
Be 313.042	511.980	ppb	1.8904	0.4	1187203	102.39597
Ca 370.602	498370	ppb	2816	0.6	2096290	99.67407
Cd 226.502	1017.35	ppb	4.3800	0.4	51330.1	101.73464
Co 228.615	497.811	ppb	6.9556	1.4	6806.62	99.56224
Cr 267.716	523.931	ppb	2.0447	0.4	22378.8	104.78621
Cu 324.754	570.311	ppb	10.0254	1.8	34352.5	114.06217
Fe 271.441	194663	ppb	740.422	0.4	447647	97.33170
K 766.491	-1.8063	ppb	1.0347	57.3	188.171	-
Mg 279.078	541274	ppb	2825.23	0.5	1527711	108.25484
Mn 257.610	523.648	ppb	2.7379	0.5	56309.2	104.72952
Mo 202.032	1083.63	ppb	5.2612	0.5	10437.9	108.36295
Na 330.237	-511.529	ppb	80.1946	15.7	-115.356	-
Ni 231.604	982.508	ppb	4.1882	0.4	3574.44	98.25079
Pb 220.353	52.9139	ppb	1.8794	3.6	113.462	105.82787
Sb 206.834	617.775	ppb	4.4274	0.7	803.827	102.96243
Se 196.026	40.3736	ppb	8.2062	20.3	28.3209	80.74715
Sn 189.925	1045.58	ppb	3.4082	0.3	1127.47	104.55794
Sr 216.596	5.2473	ppb	0.2859	5.4	186.726	-
Ti 334.941	-6.3473	ppb	0.0573	0.9	739.987	-
Tl 190.794	93.2015	ppb	4.0091	4.3	112.702	93.20153
V 292.401	499.717	ppb	1.8110	0.4	16929.3	99.94350
Zn 206.200	1004.29	ppb	5.3950	0.5	2060.78	100.42931

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

LRA1 (Samp) 4/16/2013, 5:05:54 PM Rack S, Tube 7

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1087	-0.0543	-0.1547
Al 308.215	553.691	458.211	484.091
As 188.980	20793.0x	20557.9x	20623.9x
B 249.678	5390.18x	5405.60x	5445.07x
Ba 389.178	-0.2328u	-0.3959u	-0.4661u
Be 313.042	0.6160	0.4678	0.4815
Ca 370.602	992.8	804.6	819.1
Cd 226.502	0.0096	-0.0836u	-0.1799u
Co 228.615	11290.7	11281.5	11268.8
Cr 267.716	10.1518	9.4698	9.6422
Cu 324.754	-6.2329u	-7.2377u	-6.8486u
Fe 271.441	57.9362	10.7698	7.8046
K 766.491	4.9270	3.6825	3.6075
Mg 279.078	585.985	439.518	450.061
Mn 257.610	30505.3x	30405.7x	30625.6x
Mo 202.032	1.8857	1.7516	1.6040
Na 330.237	121540x	121690x	121876x
Ni 231.604	11161.6x	11125.8x	11122.2x
Pb 220.353	21363.8x	21362.8x	21381.7x
Sb 206.834	10.3592	10.2948	11.2138
Se 196.026	10.7886	7.5627	-6.2290
Sn 189.925	8.2668	2.8495	2.2295
Sr 216.596	-7.4170u	-5.8386u	-5.8581u
Ti 334.941	34110.1	33978.9	34066.4
Tl 190.794	96.8391	91.2181	93.3338
V 292.401	-2.7485	-2.6563	-2.7989
Zn 206.200	123.675	125.940	122.598

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0334b	ppb	0.1329	397.8	116.658
Al 308.215	498.664b	ppb	49.3803	9.9	1421.47
As 188.980	20658.3xb	ppb	121.259	0.6	17484.2
B 249.678	5413.62xb	ppb	28.3103	0.5	76791.6
Ba 389.178	-0.3649b	ppb	0.1197	32.8	-22.1981
Be 313.042	0.5218b	ppb	0.0819	15.7	884.300
Ca 370.602	872.2b	ppb	104.7	12.0	13116
Cd 226.502	-0.0846b	ppb	0.0948	112.0	6.9130
Co 228.615	11280.3b	ppb	10.9916	0.1	156213
Cr 267.716	9.7546b	ppb	0.3546	3.6	610.014
Cu 324.754	-6.7731b	ppb	0.5066	7.5	-355.643
Fe 271.441	25.5036b	ppb	28.1266	110.3	2431.61
K 766.491	4.0723b	ppb	0.7411	18.2	442.688
Mg 279.078	491.855b	ppb	81.6893	16.6	767.112
Mn 257.610	30512.2xb	ppb	110.078	0.4	3179429
Mo 202.032	1.7471b	ppb	0.1409	8.1	27.4454
Na 330.237	121702xb	ppb	168.046	0.1	6624.59
Ni 231.604	11136.5xb	ppb	21.7700	0.2	40440.6
Pb 220.353	21369.4xb	ppb	10.6464	0.0	52633.0
Sb 206.834	10.6226b	ppb	0.5130	4.8	15.7079
Se 196.026	4.0408b	ppb	9.0390	223.7	14.5684
Sn 189.925	4.4486b	ppb	3.3211	74.7	2.3012
Sr 216.596	-6.3712b	ppb	0.9057	14.2	-339.421
Ti 334.941	34051.8b	ppb	66.8105	0.2	11198015
Tl 190.794	93.7970b	ppb	2.8390	3.0	75.5068
V 292.401	-2.7346b	ppb	0.0723	2.6	587.156
Zn 206.200	124.071b	ppb	1.7957	1.4	262.904

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

LRA2 (Samp) 4/16/2013, 5:11:31 PM Rack S, Tube 8

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6101u	-0.7542u	-1.0755u
Al 308.215	933724x	934846x	934883x
As 188.980	61.6540	56.5586	50.5098
B 249.678	21.4498u	8.3473u	-1.7999u
Ba 389.178	-4.0230	-4.7253	-4.3846
Be 313.042	-0.0994	-0.1021	-0.0893
Ca 370.602	805708	806779	806863
Cd 226.502	12.2454	12.0708	12.0640
Co 228.615	14.9835	12.7178	15.1208
Cr 267.716	8.8126	8.9871	8.5465
Cu 324.754	-4.2793	-4.2648	-4.5767
Fe 271.441	938279	931865	939418
K 766.491	390096x	392394x	393513x
Mg 279.078	882083x	880066x	878989x
Mn 257.610	31.2941	31.4123	32.3191
Mo 202.032	3.5583u	4.3819u	4.5808u
Na 330.237	-7960.78u	-8144.43u	-8344.75u
Ni 231.604	14.3842	14.1595	14.6534
Pb 220.353	25.8861	22.9875	27.7420
Sb 206.834	9.5966	-12.3869	2.1361
Se 196.026	-2.5136u	-33.5062u	11.1761
Sn 189.925	-2.5137u	3.7456	-2.3427u
Sr 216.596	23.5914	24.4659	22.2942
Ti 334.941	15.2869	15.0478	15.4107
Tl 190.794	-12.5535u	-18.0450u	-21.8259u
V 292.401	5.5455	6.0758	6.1114
Zn 206.200	29987.6	29814.5	29900.8

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8132b	ppb	0.2383	29.3	-147.942
Al 308.215	934484xb	ppb	658.666	0.1	2695526
As 188.980	56.2408b	ppb	5.5788	9.9	42.7149
B 249.678	9.3324b	ppb	11.6561	124.9	-1093.47
Ba 389.178	-4.3776b	ppb	0.3512	8.0	4520.96
Be 313.042	-0.0969b	ppb	0.0067	6.9	-149.043
Ca 370.602	806450b	ppb	643.9	0.1	3324980
Cd 226.502	12.1267b	ppb	0.1029	0.8	3651.83
Co 228.615	14.2741b	ppb	1.3495	9.5	169.384
Cr 267.716	8.7820b	ppb	0.2218	2.5	595.016
Cu 324.754	-4.3736b	ppb	0.1760	4.0	119.117
Fe 271.441	936521b	ppb	4071.70	0.4	2153057
K 766.491	392001xb	ppb	1741.86	0.4	16972074
Mg 279.078	880379xb	ppb	1570.74	0.2	2484955
Mn 257.610	31.6751b	ppb	0.5608	1.8	6851.42
Mo 202.032	4.1737b	ppb	0.5421	13.0	-11.1237
Na 330.237	-8149.99b	ppb	192.049	2.4	-1034.57
Ni 231.604	14.3991b	ppb	0.2473	1.7	80.3556
Pb 220.353	25.5386b	ppb	2.3962	9.4	38.8853
Sb 206.834	-0.2181b	ppb	11.1792	5126.7	29.2916
Se 196.026	-8.2812b	ppb	22.8927	276.4	-4.5892
Sn 189.925	-0.3703b	ppb	3.5655	963.0	-2.5499
Sr 216.596	23.4505b	ppb	1.0927	4.7	980.570
Ti 334.941	15.2485b	ppb	0.1845	1.2	9764.82
Tl 190.794	-17.4748b	ppb	4.6624	26.7	-89.2342
V 292.401	5.9109b	ppb	0.3170	5.4	220.236
Zn 206.200	29901.0b	ppb	86.5782	0.3	61154.5

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

RINSE (Samp)	4/16/2013, 5:17:07 PM	Rack S, Tube 1	
Weight: 1	Volume: 1	Dilution: 1	
Label	Replicates Concentration		
Ag 328.068	-0.4245u	0.4842	0.4024
Al 308.215	271.537	425.815	424.500
As 188.980	18.6095	18.2430	17.7380
B 249.678	30.3865	29.7567	28.7140
Ba 389.178	1.1575	1.1218	1.2267
Be 313.042	0.3511	0.3801	0.3911
Ca 370.602	314.9	504.6	478.8
Cd 226.502	0.5636	0.5544	0.5816
Co 228.615	1.6954	2.0253	1.9660
Cr 267.716	0.7110	0.8554	0.7070
Cu 324.754	0.8392	0.9148	0.8804
Fe 271.441	324.471	483.889	456.743
K 766.491	157.413	283.228	226.996
Mg 279.078	303.299	487.690	466.038
Mn 257.610	4.0429	6.0481	5.9514
Mo 202.032	0.1760	0.6093	0.6252
Na 330.237	55.8574	74.3044	-24.4479u
Ni 231.604	1.7546	1.9011	1.1327
Pb 220.353	3.7313	4.9064	5.6306
Sb 206.834	-0.8043u	0.3515	0.5853
Se 196.026	-3.5543u	-1.2595u	-1.9609u
Sn 189.925	3.7241	2.3896	1.1866
Sr 216.596	1.7341	1.6476	1.8309
Ti 334.941	4.3846	5.8588	5.7717
Tl 190.794	-2.4624u	0.5754	0.7616
V 292.401	0.8242	0.5516	0.4939
Zn 206.200	9.9412	15.7644	14.6608

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1540	ppb	0.5027	326.4	-39.0573
Al 308.215	373.951	ppb	88.6956	23.7	1061.80
As 188.980	18.1969	ppb	0.4376	2.4	14.2355
B 249.678	29.6190	ppb	0.8447	2.9	508.780
Ba 389.178	1.1686	ppb	0.0533	4.6	22.8070
Be 313.042	0.3741	ppb	0.0207	5.5	580.796
Ca 370.602	432.8	ppb	102.9	23.8	1810
Cd 226.502	0.5666	ppb	0.0138	2.4	37.6831
Co 228.615	1.8956	ppb	0.1759	9.3	35.8532
Cr 267.716	0.7578	ppb	0.0845	11.2	50.7154
Cu 324.754	0.8782	ppb	0.0379	4.3	103.378
Fe 271.441	421.701	ppb	85.2906	20.2	977.725
K 766.491	222.545	ppb	63.0254	28.3	9901.55
Mg 279.078	419.009	ppb	100.791	24.1	1212.52
Mn 257.610	5.3474	ppb	1.1308	21.1	636.999
Mo 202.032	0.4702	ppb	0.2549	54.2	15.2264
Na 330.237	35.2379	ppb	52.5060	149.0	-11.9148
Ni 231.604	1.5961	ppb	0.4079	25.6	6.6660
Pb 220.353	4.7561	ppb	0.9585	20.2	11.1774
Sb 206.834	0.0441	ppb	0.7440	1685.8	1.9423
Se 196.026	-2.2582	ppb	1.1760	52.1	0.5326
Sn 189.925	2.4334	ppb	1.2693	52.2	0.0734
Sr 216.596	1.7376	ppb	0.0917	5.3	35.2436
Ti 334.941	5.3384	ppb	0.8271	15.5	1649.76
Tl 190.794	-0.3752	ppb	1.8100	482.5	-0.5077
V 292.401	0.6232	ppb	0.1764	28.3	32.2126
Zn 206.200	13.4554	ppb	3.0931	23.0	36.7101

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

Cont Calib Verif (CCV) 4/16/2013, 5:22:40 PM Rack 1, Tube 1

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	510.988	512.279	506.368
Al 308.215	5038.53	5047.64	5092.61
As 188.980	490.538	502.083	496.866
B 249.678	514.989	519.386	521.165
Ba 389.178	5175.82	5177.63	5156.80
Be 313.042	515.979	517.660	515.339
Ca 370.602	4988	5008	5078
Cd 226.502	521.536	523.657	522.772
Co 228.615	519.639	520.838	521.384
Cr 267.716	5297.48	5286.12	5253.32
Cu 324.754	5300.33	5268.37	5227.55
Fe 271.441	5065.32	5094.78	5144.10
K 766.491	10255.0	10214.5	10206.2
Mg 279.078	4976.40	5015.28	5090.76
Mn 257.610	5242.19	5293.01	5301.53
Mo 202.032	500.276	499.847	499.674
Na 330.237	7353.80	7279.09	7496.81
Ni 231.604	2593.48	2597.65	2592.53
Pb 220.353	500.314	502.438	499.641
Sb 206.834	967.277	970.260	971.780
Se 196.026	4939.87	4949.25	4951.66
Sn 189.925	5065.80	5075.28	5077.73
Sr 216.596	2533.17	2533.73	2524.20
Ti 334.941	502.310	502.405	500.521
Tl 190.794	5050.12	5064.21	5060.06
V 292.401	4952.39	4971.54	4957.62
Zn 206.200	2662.58	2663.85	2671.60

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	509.878	ppb	3.1080	0.6	46873.6	101.97566
Al 308.215	5059.60	ppb	28.9550	0.6	14566.6	101.19192
As 188.980	496.496	ppb	5.7813	1.2	418.877	99.29916
B 249.678	518.513	ppb	3.1788	0.6	7429.06	20.74053Q
Ba 389.178	5170.08	ppb	11.5430	0.2	153965	103.40170
Be 313.042	516.326	ppb	1.1988	0.2	1196948	103.26520
Ca 370.602	5024	ppb	47.23	0.9	21187	100.48814
Cd 226.502	522.655	ppb	1.0655	0.2	26063.4	104.53098
Co 228.615	520.620	ppb	0.8929	0.2	7182.02	104.12404
Cr 267.716	5278.98	ppb	22.9354	0.4	224945	105.57950
Cu 324.754	5265.42	ppb	36.4793	0.7	315792	105.30840
Fe 271.441	5101.40	ppb	39.8094	0.8	11907.1	102.02804
K 766.491	10225.2	ppb	26.1110	0.3	442970	102.25217
Mg 279.078	5027.48	ppb	58.1492	1.2	14107.4	100.54959
Mn 257.610	5278.91	ppb	32.0808	0.6	550157	105.57822
Mo 202.032	499.933	ppb	0.3098	0.1	4815.04	99.98653
Na 330.237	7376.56	ppb	110.631	1.5	378.501	98.35419
Ni 231.604	2594.55	ppb	2.7213	0.1	9422.54	103.78211
Pb 220.353	500.798	ppb	1.4601	0.3	1233.39	100.15951
Sb 206.834	969.772	ppb	2.2907	0.2	1328.30	96.97721
Se 196.026	4946.93	ppb	6.2273	0.1	3237.10	98.93854
Sn 189.925	5072.94	ppb	6.3031	0.1	5478.84	101.45870
Sr 216.596	2530.37	ppb	5.3482	0.2	36908.2	101.21470
Ti 334.941	501.745	ppb	1.0613	0.2	164921	100.34904
Tl 190.794	5058.13	ppb	7.2385	0.1	6899.15	101.16257
V 292.401	4960.51	ppb	9.8970	0.2	170457	99.21028
Zn 206.200	2666.01	ppb	4.8812	0.2	5439.71	106.64036

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

Cont Calib Blank (CCB) 4/16/2013, 5:28:14 PM Rack 1, Tube 2

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2685	0.1145	0.4724
Al 308.215	-3.3317u	1.4337	10.3657
As 188.980	11.6787	11.0762	5.3246
B 249.678	17.2851	16.2922	15.4060
Ba 389.178	0.5282	0.1589	1.2806
Be 313.042	-0.0133u	-0.0112u	0.0527
Ca 370.602	-3.438u	-4.642u	10.30
Cd 226.502	0.0362	-0.0288u	0.2153
Co 228.615	0.6532	0.6971	0.1211
Cr 267.716	-0.5218u	-0.4819u	0.3919
Cu 324.754	-0.4442u	-0.1364u	-0.4522u
Fe 271.441	4.0178	4.7825	14.0874
K 766.491	0.4048	0.8508	2.6468
Mg 279.078	-4.4990u	0.5061	10.6595
Mn 257.610	-0.3942u	-0.1278u	0.3806
Mo 202.032	0.2995	0.0712	0.1011
Na 330.237	22.5804	133.600	176.247
Ni 231.604	-0.6315u	-0.1945u	0.4979
Pb 220.353	0.8554	0.1191	1.4844
Sb 206.834	-3.2425u	2.6255	2.1321
Se 196.026	-1.1515u	-4.5267u	-2.8891u
Sn 189.925	-0.5652u	0.9918	5.5177
Sr 216.596	-0.3721u	-0.0525u	-0.2406u
Ti 334.941	0.2544	0.3415	0.5479
Tl 190.794	-3.6304u	-2.1896u	-2.0945u
V 292.401	-0.3553u	-0.2976u	0.2354
Zn 206.200	-3.4855u	-1.8160u	-3.6147u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2852	ppb	0.1795	62.9	-26.9096	0.28516
Al 308.215	2.8225	ppb	6.9535	246.4	-8.7451	2.82254
As 188.980	9.3598	ppb	3.5075	37.5	6.7566	9.35983
B 249.678	16.3278	ppb	0.9401	5.8	321.043	16.32777
Ba 389.178	0.6559	ppb	0.5717	87.2	5.3811	0.65590
Be 313.042	0.0094	ppb	0.0375	400.3	-265.209	0.00937
Ca 370.602	0.7386	ppb	8.299	1123.6	18.19	0.73859
Cd 226.502	0.0742	ppb	0.1264	170.4	11.8077	0.07419
Co 228.615	0.4905	ppb	0.3206	65.4	16.4000	0.49048
Cr 267.716	-0.2039	ppb	0.5164	253.2	9.6279	-0.20393
Cu 324.754	-0.3443	ppb	0.1801	52.3	29.9146	-0.34429
Fe 271.441	7.6292	ppb	5.6060	73.5	25.4493	7.62923
K 766.491	1.3008	ppb	1.1868	91.2	322.694	1.30082
Mg 279.078	2.2222	ppb	7.7236	347.6	36.2104	2.22221
Mn 257.610	-0.0471	ppb	0.3937	835.5	73.2822	-0.04712
Mo 202.032	0.1573	ppb	0.1241	78.9	12.2406	0.15729
Na 330.237	110.809	ppb	79.3280	71.6	-7.2964	110.80904
Ni 231.604	-0.1094	ppb	0.5695	520.7	0.4608	-0.10938
Pb 220.353	0.8196	ppb	0.6834	83.4	1.4908	0.81964
Sb 206.834	0.5050	ppb	3.2548	644.5	2.5210	0.50504
Se 196.026	-2.8558	ppb	1.6878	59.1	0.1408	-2.85580
Sn 189.925	1.9814	ppb	3.1599	159.5	-0.4152	1.98141
Sr 216.596	-0.2217	ppb	0.1606	72.5	6.3856	-0.22172
Ti 334.941	0.3813	ppb	0.1507	39.5	17.2829	0.38127
Tl 190.794	-2.6382	ppb	0.8606	32.6	-3.5595	-2.63820
V 292.401	-0.1392	ppb	0.3257	234.0	5.9911	-0.13918
Zn 206.200	-2.9720	ppb	1.0933	23.8	3.1206	-2.97204

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

mb 680-272923/1-a (Samp) 4/16/2013, 5:33:48 PM Rack 1, Tube 3

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2024u	-0.0686u	0.1260
Al 308.215	0.8766	1.8599	10.0792
As 188.980	9.0205	3.1758	7.4404
B 249.678	6.7470	7.1458	6.4564
Ba 389.178	0.6127	0.2645	0.4333
Be 313.042	-0.0100u	-0.0067u	0.0166
Ca 370.602	4.235	1.280	9.644
Cd 226.502	-0.0186u	-0.0997u	0.1418
Co 228.615	0.3284	0.0674	0.4363
Cr 267.716	-0.3597u	-0.2686u	0.1123
Cu 324.754	0.2520	0.2377	-0.2376u
Fe 271.441	-4.1209u	0.1818	4.4848
K 766.491	0.4057	-0.1468u	1.5949
Mg 279.078	0.0407	1.7246	11.0075
Mn 257.610	-0.3158u	-0.3780u	0.0582
Mo 202.032	-0.3010u	-0.0054u	-0.1792u
Na 330.237	212.013	189.605	-0.5936u
Ni 231.604	-0.3932u	-0.4603u	-0.5897u
Pb 220.353	1.4863	2.7884	2.0310
Sb 206.834	0.4938	0.9929	0.1505
Se 196.026	0.1959	-4.4321u	0.0726
Sn 189.925	1.2226	2.4933	-1.0623u
Sr 216.596	0.2429	-0.2381u	0.0435
Ti 334.941	0.1738	0.2007	0.2621
Tl 190.794	1.9925	0.3752	2.5651
V 292.401	-0.5607u	-0.3839u	-0.2496u
Zn 206.200	-2.5220u	-2.1676u	-2.9637u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0483	ppb	0.1652	341.7	-57.6746
Al 308.215	4.2719	ppb	5.0532	118.3	-4.5911
As 188.980	6.5456	ppb	3.0233	46.2	4.3749
B 249.678	6.7831	ppb	0.3461	5.1	185.819
Ba 389.178	0.4368	ppb	0.1741	39.9	-1.1522
Be 313.042	-0.0000	ppb	0.0145	40877.7	-286.926
Ca 370.602	5.053	ppb	4.242	83.9	37.29
Cd 226.502	0.0078	ppb	0.1229	1570.1	8.4777
Co 228.615	0.2774	ppb	0.1897	68.4	13.4834
Cr 267.716	-0.1720	ppb	0.2504	145.5	10.9878
Cu 324.754	0.0841	ppb	0.2786	331.5	55.5900
Fe 271.441	0.1819	ppb	4.3029	2365.7	8.3347
K 766.491	0.6180	ppb	0.8900	144.0	293.130
Mg 279.078	4.2576	ppb	5.9059	138.7	41.9573
Mn 257.610	-0.2119	ppb	0.2359	111.4	56.1084
Mo 202.032	-0.1618	ppb	0.1486	91.8	9.1668
Na 330.237	133.675	ppb	116.818	87.4	-5.9931
Ni 231.604	-0.4811	ppb	0.0999	20.8	-0.8891
Pb 220.353	2.1019	ppb	0.6539	31.1	4.6514
Sb 206.834	0.5458	ppb	0.4236	77.6	2.5810
Se 196.026	-1.3879	ppb	2.6371	190.0	1.1002
Sn 189.925	0.8845	ppb	1.8017	203.7	-1.6004
Sr 216.596	0.0161	ppb	0.2416	1500.0	9.8865
Ti 334.941	0.2122	ppb	0.0452	21.3	-38.3031
Tl 190.794	1.6443	ppb	1.1357	69.1	2.2888
V 292.401	-0.3981	ppb	0.1561	39.2	-2.8290
Zn 206.200	-2.5511	ppb	0.3988	155.6	-2.9813

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

ics 680-272923/2-a (Samp) 4/16/2013, 5:39:33 PM Rack 1, Tube 4

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	13.8517	13.4306	13.5448
Al 308.215	5163.79	5166.42	5158.12
As 188.980	117.555	111.419	114.721
B 249.678	197.321	198.977	199.542
Ba 389.178	104.759	105.360	105.215
Be 313.042	52.6016	52.7736	52.7231
Ca 370.602	4946	4958	4956
Cd 226.502	53.3798	53.4811	53.6410
Co 228.615	53.6703	53.8800	53.5353
Cr 267.716	107.221	107.443	107.164
Cu 324.754	106.979	107.113	106.097
Fe 271.441	5004.96	5019.31	5002.13
K 766.491	5009.31	5065.86	5059.50
Mg 279.078	4981.72	4979.11	4974.97
Mn 257.610	541.850	542.293	543.463
Mo 202.032	102.854	102.616	102.662
Na 330.237	5062.12	5303.55	5008.07
Ni 231.604	101.945	103.368	103.042
Pb 220.353	52.5343	51.5193	50.3563
Sb 206.834	49.9889	45.7721	50.2697
Se 196.026	94.3916	94.6278	95.4129
Sn 189.925	203.714	200.709	198.470
Sr 216.596	102.976	103.674	102.621
Ti 334.941	100.208	100.425	100.388
Tl 190.794	41.5482	39.3437	39.0623
V 292.401	101.766	102.222	101.878
Zn 206.200	141.911	142.547	144.479

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	13.6090	ppb	0.2178	1.6	1199.31
Al 308.215	5162.77	ppb	4.2407	0.1	14881.2
As 188.980	114.565	ppb	3.0708	2.7	95.7536
B 249.678	198.613	ppb	1.1548	0.6	2896.75
Ba 389.178	105.111	ppb	0.3136	0.3	3142.27
Be 313.042	52.6994	ppb	0.0884	0.2	121920
Ca 370.602	4953	ppb	6.087	0.1	20564
Cd 226.502	53.5007	ppb	0.1317	0.2	2689.72
Co 228.615	53.6952	ppb	0.1737	0.3	747.240
Cr 267.716	107.276	ppb	0.1477	0.1	4591.74
Cu 324.754	106.730	ppb	0.5520	0.5	6455.38
Fe 271.441	5008.80	ppb	9.2126	0.2	11535.5
K 766.491	5044.89	ppb	30.9795	0.6	218686
Mg 279.078	4978.60	ppb	3.4011	0.1	14070.6
Mn 257.610	542.535	ppb	0.8330	0.2	56629.3
Mo 202.032	102.711	ppb	0.1263	0.1	999.808
Na 330.237	5124.58	ppb	157.327	3.1	274.523
Ni 231.604	102.785	ppb	0.7452	0.7	374.244
Pb 220.353	51.4700	ppb	1.0899	2.1	126.034
Sb 206.834	48.6769	ppb	2.5196	5.2	65.4457
Se 196.026	94.8108	ppb	0.5347	0.6	64.1486
Sn 189.925	200.964	ppb	2.6311	1.3	214.594
Sr 216.596	103.090	ppb	0.5354	0.5	1512.24
Ti 334.941	100.340	ppb	0.1163	0.1	32916.3
Tl 190.794	39.9847	ppb	1.3613	3.4	53.2470
V 292.401	101.956	ppb	0.2378	0.2	3493.22
Zn 206.200	142.979	ppb	1.3377	0.9	301.149

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

ics 680-272923/3-a (Samp) 4/16/2013, 5:45:08 PM Rack 1, Tube 5

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	202.416	205.150	206.142
Al 308.215	2043.88	2049.18	2067.22
As 188.980	220.082	221.973	222.471
B 249.678	387.542	389.530	391.478
Ba 389.178	201.015	202.053	201.738
Be 313.042	207.376	207.789	207.950
Ca 370.602	19507	19562	19606
Cd 226.502	205.189	205.329	205.383
Co 228.615	204.110	206.500	204.746
Cr 267.716	209.767	211.502	212.109
Cu 324.754	209.640	212.632	212.815
Fe 271.441	20534.6	20539.0	20563.1
K 766.491	19751.4	19628.0	19810.6
Mg 279.078	19790.9	19826.9	19844.3
Mn 257.610	2106.69	2096.77	2080.04
Mo 202.032	200.724	202.527	202.620
Na 330.237	17176.4	17426.8	16937.4
Ni 231.604	204.102	204.748	204.931
Pb 220.353	196.731	199.881	199.178
Sb 206.834	192.650	193.454	190.271
Se 196.026	197.975	190.330	188.752
Sn 189.925	200.091	199.416	199.311
Sr 216.596	210.306	211.213	212.673
Ti 334.941	197.373	198.220	198.468
Tl 190.794	41.5735	41.9040	44.6190
V 292.401	199.218	199.113	199.151
Zn 206.200	224.846	226.042	221.227

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	204.569	ppb	1.9300	0.9	18805.1
Al 308.215	2053.42	ppb	12.2358	0.6	5917.95
As 188.980	221.508	ppb	1.2607	0.6	186.189
B 249.678	389.517	ppb	1.9684	0.5	5579.76
Ba 389.178	201.602	ppb	0.5320	0.3	6094.31
Be 313.042	207.705	ppb	0.2961	0.1	481414
Ca 370.602	19558	ppb	49.63	0.3	81015
Cd 226.502	205.300	ppb	0.1003	0.0	10302.7
Co 228.615	205.118	ppb	1.2378	0.6	2828.80
Cr 267.716	211.126	ppb	1.2154	0.6	9024.48
Cu 324.754	211.696	ppb	1.7823	0.8	12758.1
Fe 271.441	20545.5	ppb	15.3496	0.1	47287.5
K 766.491	19730.0	ppb	93.1279	0.5	854482
Mg 279.078	19820.7	ppb	27.2374	0.1	55937.2
Mn 257.610	2094.50	ppb	13.4667	0.6	218401
Mo 202.032	201.957	ppb	1.0687	0.5	1954.83
Na 330.237	17180.2	ppb	244.736	1.4	954.452
Ni 231.604	204.594	ppb	0.4357	0.2	744.381
Pb 220.353	198.597	ppb	1.6538	0.8	488.794
Sb 206.834	192.125	ppb	1.6554	0.9	253.573
Se 196.026	192.352	ppb	4.9330	2.6	128.389
Sn 189.925	199.606	ppb	0.4230	0.2	213.140
Sr 216.596	211.397	ppb	1.1945	0.6	3098.44
Ti 334.941	198.021	ppb	0.5741	0.3	65118.7
Tl 190.794	42.6988	ppb	1.6711	3.9	52.8886
V 292.401	199.161	ppb	0.0532	0.0	6812.97
Zn 206.200	224.038	ppb	2.5069	1.1	466.490

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

680-89208-a-1-c (Samp) 4/16/2013, 5:50:43 PM Rack 1, Tube 6

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.8272	-0.3955u	0.0710u
Al 308.215	13.9322	10.4732	9.5209
As 188.980	6.7589	0.5841	4.9099
B 249.678	15.7318	14.8473	14.1968
Ba 389.178	24.9896	25.5989	24.5165
Be 313.042	-0.0180u	-0.0181u	-0.0110u
Ca 370.602	19750	19695	19741
Cd 226.502	-0.0781	0.1186	0.1092
Co 228.615	0.4031	0.1470	-0.2863u
Cr 267.716	-0.0645u	-0.1381u	-0.0954u
Cu 324.754	0.7883	-0.1334u	0.1599
Fe 271.441	1811.74	1820.47	1813.14
K 766.491	1032.74	1022.81	1027.87
Mg 279.078	5282.64	5291.49	5297.37
Mn 257.610	463.057	465.629	463.702
Mo 202.032	0.5527	0.1247	0.0876
Na 330.237	10134.3	10551.0	10279.4
Ni 231.604	-0.3920u	0.8478	0.3771
Pb 220.353	0.7551	0.0915	-0.8956u
Sb 206.834	0.1299	-1.6346u	-1.4664u
Se 196.026	4.0152	-4.0513u	-4.1593u
Sn 189.925	0.2173	2.5120	-0.1249u
Sr 216.596	183.460	182.739	183.461
Ti 334.941	0.1588	0.2019	0.1636
Tl 190.794	-0.8421u	-0.5102u	-0.1562u
V 292.401	-0.7518u	-0.7606u	-0.4420u
Zn 206.200	30.6032	28.5034	30.8634

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1676	ppb	0.6171	368.2	-45.5736
Al 308.215	11.3087	ppb	2.3213	20.5	15.7385
As 188.980	4.0843	ppb	3.1691	77.6	2.4954
B 249.678	14.9253	ppb	0.7705	5.2	298.634
Ba 389.178	25.0350	ppb	0.5426	2.2	752.354
Be 313.042	-0.0157	ppb	0.0041	25.8	-316.776
Ca 370.602	19729	ppb	29.38	0.1	83654
Cd 226.502	0.0499	ppb	0.1110	222.5	16.4512
Co 228.615	0.0879	ppb	0.3485	396.3	10.7883
Cr 267.716	-0.0994	ppb	0.0370	37.2	16.3861
Cu 324.754	0.2716	ppb	0.4709	173.4	67.4980
Fe 271.441	1815.12	ppb	4.6892	0.3	4180.83
K 766.491	1027.81	ppb	4.9665	0.5	44765.6
Mg 279.078	5290.50	ppb	7.4163	0.1	14954.0
Mn 257.610	464.130	ppb	1.3379	0.3	48456.4
Mo 202.032	0.2550	ppb	0.2585	101.4	13.0638
Na 330.237	10321.6	ppb	211.512	2.0	573.343
Ni 231.604	0.2776	ppb	0.6259	225.4	1.9177
Pb 220.353	-0.0163	ppb	0.8306	5087.9	-0.4214
Sb 206.834	-0.9904	ppb	0.9738	98.3	0.6278
Se 196.026	-1.3985	ppb	4.6887	335.3	1.2418
Sn 189.925	0.8681	ppb	1.4339	165.2	-1.6029
Sr 216.596	183.220	ppb	0.4167	0.2	2690.98
Ti 334.941	0.1748	ppb	0.0236	13.5	-23.1267
Tl 190.794	-0.5028	ppb	0.3430	68.2	-1.6940
V 292.401	-0.6515	ppb	0.1814	27.9	-11.6785
Zn 206.200	29.9900	ppb	1.2940	4.3	70.5259

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680-89208-a-1-cSD^5 (Samp) **4/16/2013, 5:56:19 PM** **Rack 1, Tube 7****Weight: 1** **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.4615u	0.3644	-0.2772u
Al 308.215	24.7202	17.9773	16.9129
As 188.980	-1.8256u	2.1698	4.3973
B 249.678	4.5064	4.3118	3.4476
Ba 389.178	5.3495	5.1499	5.7687
Be 313.042	0.0723	0.0534	0.0576
Ca 370.602	4110	4068	4038
Cd 226.502	0.1608	0.2118	0.0418
Co 228.615	0.5361	0.0236	0.7765
Cr 267.716	0.1741	0.2741	0.3112
Cu 324.754	0.8979	0.6983	0.4556
Fe 271.441	388.455	386.261	382.984
K 766.491	217.856	213.922	213.157
Mg 279.078	1120.26	1108.65	1104.33
Mn 257.610	97.3172	96.1057	96.1579
Mo 202.032	0.0910	-0.1980u	-0.0715u
Na 330.237	2319.55	2325.69	2152.06
Ni 231.604	0.7080	-0.6571u	-0.1727u
Pb 220.353	1.6775	1.6909	2.1686
Sb 206.834	-1.2591u	-1.8752u	-1.5846u
Se 196.026	-1.3579u	-5.7123u	1.9692
Sn 189.925	1.5190	1.4460	-2.0022u
Sr 216.596	38.0234	37.8951	37.7445
Ti 334.941	0.2740	0.2773	0.2796
Tl 190.794	0.2837	-3.7598u	1.7848
V 292.401	0.0779	0.1506	-0.3994u
Zn 206.200	28.1703	38.9777	44.7618

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1248	ppb	0.4336	347.5	-66.3155
Al 308.215	19.8701	ppb	4.2338	21.3	40.4017
As 188.980	1.5805	ppb	3.1530	199.5	0.2144
B 249.678	4.0886	ppb	0.5636	13.8	147.101
Ba 389.178	5.4227	ppb	0.3158	5.8	151.727
Be 313.042	0.0611	ppb	0.0099	16.3	-143.798
Ca 370.602	4072	ppb	35.88	0.9	17277
Cd 226.502	0.1381	ppb	0.0872	63.2	16.2183
Co 228.615	0.4454	ppb	0.3846	86.3	15.7826
Cr 267.716	0.2531	ppb	0.0709	28.0	29.5835
Cu 324.754	0.6839	ppb	0.2215	32.4	91.6997
Fe 271.441	385.900	ppb	2.7533	0.7	895.086
K 766.491	214.978	ppb	2.5210	1.2	9573.93
Mg 279.078	1111.08	ppb	8.2365	0.7	3164.20
Mn 257.610	96.5269	ppb	0.6849	0.7	10139.6
Mo 202.032	-0.0595	ppb	0.1449	243.5	10.1267
Na 330.237	2265.77	ppb	98.5208	4.3	114.973
Ni 231.604	-0.0406	ppb	0.6921	1703.9	0.7213
Pb 220.353	1.8457	ppb	0.2798	15.2	4.0503
Sb 206.834	-1.5730	ppb	0.3082	19.6	-0.1587
Se 196.026	-1.7003	ppb	3.8522	226.6	0.9270
Sn 189.925	0.3209	ppb	2.0122	627.0	-2.2062
Sr 216.596	37.8877	ppb	0.1396	0.4	564.124
Ti 334.941	0.2770	ppb	0.0028	1.0	-11.2624
Tl 190.794	-0.5638	ppb	2.8678	508.7	-0.9460
V 292.401	-0.0570	ppb	0.2988	524.3	8.8948
Zn 206.200	37.3033	ppb	8.4215	22.6	85.4795

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680-89208-a-1-cPDS (Samp) **4/16/2013, 6:10:28 PM** **Rack 1, Tube 8****Weight: 1** **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	49.2614	48.7087	48.5269
Al 308.215	1995.88	1994.62	1983.92
As 188.980	2180.40	2168.89	2166.77
B 249.678	987.354	991.083	991.806
Ba 389.178	2110.85	2103.99	2095.56
Be 313.042	51.6793	51.5187	51.2561
Ca 370.602	24418	24322	24230
Cd 226.502	52.5296	52.3237	52.0967
Co 228.615	525.272	522.063	518.838
Cr 267.716	211.056	210.223	209.517
Cu 324.754	264.235	263.678	261.062
Fe 271.441	2777.49	2761.47	2752.52
K 766.491	6226.83	6208.34	6156.44
Mg 279.078	10328.3	10292.5	10244.0
Mn 257.610	1006.94	1003.76	999.001
Mo 202.032	518.643	516.166	514.767
Na 330.237	15152.3	15334.5	14978.6
Ni 231.604	522.298	521.065	512.842
Pb 220.353	501.844	494.366	496.116
Sb 206.834	492.180	484.802	483.346
Se 196.026	1984.12	1979.95	1971.91
Sn 189.925	1028.81	1021.67	1010.88
Sr 216.596	691.368	689.975	686.334
Ti 334.941	994.087	991.946	988.085
Tl 190.794	2063.56	2071.41	2049.63
V 292.401	501.599	499.717	497.644
Zn 206.200	531.068	533.834	531.130

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	48.8323	ppb	0.3826	0.8	4418.66
Al 308.215	1991.47	ppb	6.5741	0.3	5757.82
As 188.980	2172.02	ppb	7.3339	0.3	1837.30
B 249.678	990.081	ppb	2.3891	0.2	14113.8
Ba 389.178	2103.46	ppb	7.6573	0.4	62659.6
Be 313.042	51.4847	ppb	0.2136	0.4	119009
Ca 370.602	24323	ppb	94.09	0.4	103337
Cd 226.502	52.3167	ppb	0.2165	0.4	2623.65
Co 228.615	522.058	ppb	3.2169	0.6	7200.06
Cr 267.716	210.265	ppb	0.7705	0.4	8979.94
Cu 324.754	262.992	ppb	1.6941	0.6	15835.2
Fe 271.441	2763.82	ppb	12.6498	0.5	6476.70
K 766.491	6197.20	ppb	36.4930	0.6	268576
Mg 279.078	10288.3	ppb	42.3028	0.4	29049.3
Mn 257.610	1003.23	ppb	3.9960	0.4	104645
Mo 202.032	516.525	ppb	1.9627	0.4	4986.27
Na 330.237	15155.1	ppb	177.972	1.2	835.569
Ni 231.604	518.735	ppb	5.1405	1.0	1884.61
Pb 220.353	497.442	ppb	3.9114	0.8	1223.40
Sb 206.834	486.776	ppb	4.7360	1.0	629.119
Se 196.026	1978.66	ppb	6.2047	0.3	1295.61
Sn 189.925	1020.46	ppb	9.0295	0.9	1100.08
Sr 216.596	689.226	ppb	2.5991	0.4	10049.4
Ti 334.941	991.373	ppb	3.0416	0.3	325964
Tl 190.794	2061.53	ppb	11.0300	0.5	2813.15
V 292.401	499.654	ppb	1.9784	0.4	17106.7
Zn 206.200	532.011	ppb	1.5791	0.3	1096.26

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680-89208-a-1-d ms (Samp) **4/16/2013, 6:16:04 PM** **Rack 1, Tube 9****Weight: 1** **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	33.3071	33.7594	32.9790
Al 308.215	5016.93	5043.21	5020.58
As 188.980	107.264	112.612	111.757
B 249.678	217.820	216.059	216.049
Ba 389.178	127.774	129.248	127.061
Be 313.042	52.3120	52.2969	52.1289
Ca 370.602	24374	24357	24315
Cd 226.502	53.0294	52.8372	52.5115
Co 228.615	53.1312	52.8941	52.8976
Cr 267.716	105.148	105.285	104.939
Cu 324.754	106.333	105.978	104.591
Fe 271.441	6771.05	6761.58	6738.46
K 766.491	6101.77	6120.11	6072.32
Mg 279.078	10228.0	10217.2	10192.7
Mn 257.610	1013.39	1003.69	999.288
Mo 202.032	101.635	102.591	101.095
Na 330.237	15221.6	15185.8	15392.3
Ni 231.604	102.778	101.160	101.267
Pb 220.353	54.5133	51.6557	48.6183
Sb 206.834	49.8604	49.6475	51.9627
Se 196.026	99.1422	103.561	99.5464
Sn 189.925	202.197	203.153	199.489
Sr 216.596	282.532	283.970	282.121
Ti 334.941	98.7172	98.5536	98.3874
Tl 190.794	41.7189	39.9997	41.6536
V 292.401	100.535	100.423	100.032
Zn 206.200	141.056	139.215	138.085

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	33.3485	ppb	0.3918	1.2	3011.14
Al 308.215	5026.91	ppb	14.2347	0.3	14489.3
As 188.980	110.544	ppb	2.8724	2.6	92.5525
B 249.678	216.643	ppb	1.0197	0.5	3149.74
Ba 389.178	128.028	ppb	1.1155	0.9	3845.39
Be 313.042	52.2459	ppb	0.1016	0.2	120875
Ca 370.602	24348	ppb	30.70	0.1	102791
Cd 226.502	52.7927	ppb	0.2618	0.5	2660.12
Co 228.615	52.9743	ppb	0.1359	0.3	737.216
Cr 267.716	105.124	ppb	0.1743	0.2	4502.32
Cu 324.754	105.634	ppb	0.9207	0.9	6390.31
Fe 271.441	6757.03	ppb	16.7624	0.2	15554.6
K 766.491	6098.07	ppb	24.1064	0.4	264284
Mg 279.078	10212.6	ppb	18.0766	0.2	28835.5
Mn 257.610	1005.46	ppb	7.2172	0.7	104881
Mo 202.032	101.774	ppb	0.7577	0.7	990.669
Na 330.237	15266.6	ppb	110.345	0.7	851.575
Ni 231.604	101.735	ppb	0.9049	0.9	370.480
Pb 220.353	51.5958	ppb	2.9479	5.7	126.492
Sb 206.834	50.4902	ppb	1.2796	2.5	67.8413
Se 196.026	100.750	ppb	2.4428	2.4	68.1768
Sn 189.925	201.613	ppb	1.9004	0.9	215.310
Sr 216.596	282.875	ppb	0.9707	0.3	4143.36
Ti 334.941	98.5527	ppb	0.1649	0.2	32355.7
Tl 190.794	41.1241	ppb	0.9743	2.4	53.7696
V 292.401	100.330	ppb	0.2638	0.3	3437.23
Zn 206.200	139.452	ppb	1.5000	1.1	292.940

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680-89208-a-1-e msd (Samp) **4/16/2013, 6:21:40 PM** **Rack 1, Tube 10****Weight: 1** **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	17.2934	17.3710	16.3384
Al 308.215	5118.80	5022.30	4894.61
As 188.980	111.034	107.924	103.189
B 249.678	209.027	205.934	200.382
Ba 389.178	129.601	127.622	124.319
Be 313.042	53.1794	52.3771	50.8701
Ca 370.602	24622	24227	23582
Cd 226.502	53.1669	52.6800	51.1991
Co 228.615	54.4334	52.7051	51.6232
Cr 267.716	105.978	104.826	102.168
Cu 324.754	108.932	106.164	103.449
Fe 271.441	6909.31	6810.09	6596.75
K 766.491	6208.71	6168.12	5980.73
Mg 279.078	10322.3	10185.4	9900.34
Mn 257.610	1019.46	1013.35	974.797
Mo 202.032	103.788	101.092	98.8489
Na 330.237	15405.9	15417.8	14823.4
Ni 231.604	102.784	103.382	99.3775
Pb 220.353	48.8247	50.3570	48.9745
Sb 206.834	50.2724	53.1102	45.0951
Se 196.026	104.297	102.370	85.5648
Sn 189.925	202.646	202.152	194.486
Sr 216.596	285.661	280.527	273.407
Ti 334.941	100.304	98.5089	95.7039
Tl 190.794	41.9503	40.3418	35.4686
V 292.401	102.353	101.309	97.8479
Zn 206.200	136.981	138.445	133.012

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	17.0009	ppb	0.5751	3.4	1504.26
Al 308.215	5011.90	ppb	112.453	2.2	14446.0
As 188.980	107.382	ppb	3.9500	3.7	89.8738
B 249.678	205.114	ppb	4.3801	2.1	2986.38
Ba 389.178	127.181	ppb	2.6689	2.1	3819.96
Be 313.042	52.1422	ppb	1.1724	2.2	120634
Ca 370.602	24143	ppb	525.1	2.2	101917
Cd 226.502	52.3487	ppb	1.0249	2.0	2638.04
Co 228.615	52.9206	ppb	1.4174	2.7	736.501
Cr 267.716	104.324	ppb	1.9541	1.9	4468.21
Cu 324.754	106.182	ppb	2.7415	2.6	6423.14
Fe 271.441	6772.05	ppb	159.712	2.4	15589.0
K 766.491	6119.19	ppb	121.614	2.0	265199
Mg 279.078	10136.0	ppb	215.264	2.1	28619.3
Mn 257.610	1002.54	ppb	24.2167	2.4	104577
Mo 202.032	101.243	ppb	2.4731	2.4	985.554
Na 330.237	15215.7	ppb	339.780	2.2	848.700
Ni 231.604	101.848	ppb	2.1599	2.1	370.890
Pb 220.353	49.3854	ppb	0.8447	1.7	121.046
Sb 206.834	49.4925	ppb	4.0641	8.2	66.5510
Se 196.026	97.4107	ppb	10.3040	10.6	65.9919
Sn 189.925	199.761	ppb	4.5750	2.3	213.309
Sr 216.596	279.865	ppb	6.1539	2.2	4099.39
Ti 334.941	98.1723	ppb	2.3186	2.4	32230.2
Tl 190.794	39.2535	ppb	3.3751	8.6	51.2287
V 292.401	100.503	ppb	2.3583	2.3	3443.44
Zn 206.200	136.146	ppb	2.8113	2.1	287.182

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680-89208-a-2-c (Samp) 4/16/2013, 6:27:16 PM Rack 1, Tube 11

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1680u	-0.5859u	0.3296
Al 308.215	54.4449	57.4995	53.2229
As 188.980	1.5111	3.0598	2.8052
B 249.678	35.0512	34.0124	34.8822
Ba 389.178	24.9877	26.2223	24.7702
Be 313.042	-0.0055u	-0.0121u	-0.0054u
Ca 370.602	10386	10403	10398
Cd 226.502	0.1378	0.1051	0.0903
Co 228.615	-0.1544u	0.3725	-0.3196u
Cr 267.716	-0.1620u	-0.3442u	-0.2699u
Cu 324.754	1.7177	1.7687	1.7103
Fe 271.441	136.137	139.428	143.132
K 766.491	1780.39	1772.90	1781.98
Mg 279.078	2362.81	2363.11	2370.72
Mn 257.610	65.4899	65.7176	66.1533
Mo 202.032	0.8044	0.5424	0.8393
Na 330.237	26243.4	26263.7	26356.3
Ni 231.604	0.7963	0.5382	1.2361
Pb 220.353	1.2716	5.8552	0.2109
Sb 206.834	2.1230	0.2269	-2.1530u
Se 196.026	-0.2987u	-8.7038u	-5.0090u
Sn 189.925	1.8363	0.4581	2.1269
Sr 216.596	87.1711	87.0915	87.6077
Ti 334.941	1.0180	0.9570	0.9965
Tl 190.794	0.3057	-2.2007u	-0.6128u
V 292.401	-0.0557u	-0.1731u	-0.0811u
Zn 206.200	42.6969	42.1947	43.5953

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1415	ppb	0.4583	324.0	-70.7933
Al 308.215	55.0558	ppb	2.2028	4.0	141.948
As 188.980	2.4587	ppb	0.8305	33.8	1.0344
B 249.678	34.6486	ppb	0.5574	1.6	580.443
Ba 389.178	25.3267	ppb	0.7832	3.1	748.149
Be 313.042	-0.0077	ppb	0.0039	50.3	-304.105
Ca 370.602	10396	ppb	8.717	0.1	44169
Cd 226.502	0.1111	ppb	0.0243	21.9	13.9245
Co 228.615	-0.0338	ppb	0.3615	1069.0	9.1926
Cr 267.716	-0.2587	ppb	0.0916	35.4	7.9650
Cu 324.754	1.7322	ppb	0.0318	1.8	154.509
Fe 271.441	139.566	ppb	3.4996	2.5	328.687
K 766.491	1778.42	ppb	4.8486	0.3	77263.8
Mg 279.078	2365.55	ppb	4.4858	0.2	6705.77
Mn 257.610	65.7869	ppb	0.3371	0.5	6939.53
Mo 202.032	0.7287	ppb	0.1623	22.3	17.7376
Na 330.237	26287.8	ppb	60.1806	0.2	1483.06
Ni 231.604	0.8569	ppb	0.3529	41.2	3.9733
Pb 220.353	2.4459	ppb	2.9998	122.6	5.5167
Sb 206.834	0.0657	ppb	2.1426	3263.6	1.9458
Se 196.026	-4.6705	ppb	4.2128	90.2	-1.0241
Sn 189.925	1.4738	ppb	0.8915	60.5	-0.9465
Sr 216.596	87.2901	ppb	0.2779	0.3	1286.80
Ti 334.941	0.9905	ppb	0.0309	3.1	227.962
Tl 190.794	-0.8359	ppb	1.2680	151.7	-1.2397
V 292.401	-0.1033	ppb	0.0618	59.8	6.9375
Zn 206.200	42.8290	ppb	0.7996	1.7	967804

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680-89187-a-1-a (Samp) 4/16/2013, 6:32:53 PM Rack 1, Tube 12

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0851u	0.2533u	0.3883u
Al 308.215	230.801	229.320	237.087
As 188.980	9.1876	13.0813	5.2482
B 249.678	5135.51	5105.45	5171.09
Ba 389.178	15.6579	15.3009	15.5064
Be 313.042	0.7580	0.7618	0.7544
Ca 370.602	390849	384890	387621
Cd 226.502	1.8484	2.1860	1.9496
Co 228.615	0.3821	1.0574	1.4506
Cr 267.716	-3.9044	-3.2959	-3.6911
Cu 324.754	431.466	427.514	431.673
Fe 271.441	632.117	620.463	639.297
K 766.491	579113x	572912x	579227x
Mg 279.078	1314696x	1302685x	1316358x
Mn 257.610	284.449	281.856	285.153
Mo 202.032	6.0650	7.0056	5.8848
Na 330.237	12912140x	12864662x	12908767x
Ni 231.604	120.464	118.886	119.447
Pb 220.353	6.7356	7.3145	6.8300
Sb 206.834	-3.1732u	-3.7420u	12.4300
Se 196.026	-10.6699u	7.0687	10.6307
Sn 189.925	-2.9429	-0.7103	-1.0468
Sr 216.596	7284.16	7254.73	7336.17
Ti 334.941	-15.8361	-15.7328	-15.7065
Tl 190.794	-5.1889u	-2.5192u	-5.9711u
V 292.401	4.6108	4.8262	4.3476
Zn 206.200	214.809	216.527	215.802

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2422b	ppb	0.1519	62.7	-464.875
Al 308.215	232.403b	ppb	4.1242	1.8	653.868
As 188.980	9.1724b	ppb	3.9166	42.7	11.0446
B 249.678	5137.35b	ppb	32.8558	0.6	72879.2
Ba 389.178	15.4884b	ppb	0.1792	1.2	4869.12
Be 313.042	0.7581b	ppb	0.0037	0.5	-195.991
Ca 370.602	387787b	ppb	2983	0.8	1647437
Cd 226.502	1.9947b	ppb	0.1733	8.7	40.7201
Co 228.615	0.9634b	ppb	0.5404	56.1	23.1705
Cr 267.716	-3.6305b	ppb	0.3087	8.5	57.3202
Cu 324.754	430.217b	ppb	2.3438	0.5	25852.3
Fe 271.441	630.626b	ppb	9.5053	1.5	1457.72
K 766.491	577084xb	ppb	3613.75	0.6	24985296
Mg 279.078	1311246xb	ppb	7461.00	0.6	3701279
Mn 257.610	283.819b	ppb	1.7364	0.6	33078.6
Mo 202.032	6.3185b	ppb	0.6019	9.5	71.5613
Na 330.237	12895190xb	ppb	26491.5	0.2	734371
Ni 231.604	119.599b	ppb	0.7999	0.7	435.172
Pb 220.353	6.9600b	ppb	0.3106	4.5	16.7020
Sb 206.834	1.8383b	ppb	9.1771	499.2	4.1761
Se 196.026	2.3432b	ppb	11.4095	486.9	3.6396
Sn 189.925	-1.5667b	ppb	1.2037	76.8	1.5816
Sr 216.596	7291.69b	ppb	41.2383	0.6	106623
Ti 334.941	-15.7585b	ppb	0.0685	0.4	571.378
Tl 190.794	-4.5597b	ppb	1.8099	39.7	-6.8507
V 292.401	4.5949b	ppb	0.2397	5.2	66.5170
Zn 206.200	215.712b	ppb	0.8626	0.4	459.311

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

Cont Calib Verif (CCV) 4/16/2013, 6:38:28 PM Rack 1, Tube 13

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	494.077	496.436	500.538
Al 308.215	4855.95	4820.93	4881.96
As 188.980	468.230	471.326	472.046
B 249.678	538.653	536.019	539.938
Ba 389.178	5052.18	5016.64	5062.72
Be 313.042	502.901	500.703	505.805
Ca 370.602	5377	5277	5323
Cd 226.502	508.497	504.962	509.223
Co 228.615	505.510	504.383	508.521
Cr 267.716	5142.51	5104.24	5160.76
Cu 324.754	5087.64	5060.17	5117.97
Fe 271.441	4917.74	4905.79	4931.97
K 766.491	10693.5	10579.3	10580.4
Mg 279.078	6444.70	6264.37	6271.29
Mn 257.610	5135.59	5129.92	5147.75
Mo 202.032	486.557	483.177	490.643
Na 330.237	22337.8	20794.0	19669.4
Ni 231.604	2525.26	2507.12	2529.40
Pb 220.353	484.620	484.446	489.005
Sb 206.834	940.325	939.479	946.310
Se 196.026	4804.81	4779.68	4837.42
Sn 189.925	4925.78	4895.56	4945.37
Sr 216.596	2486.40	2464.34	2486.18
Ti 334.941	485.823	482.869	488.034
Tl 190.794	4928.60	4904.56	4941.62
V 292.401	4827.94	4805.49	4843.55
Zn 206.200	2588.57	2564.00	2594.53

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	497.017	ppb	3.2694	0.7	45689.1	99.40346
Al 308.215	4852.95	ppb	30.6262	0.6	13970.8	97.05895
As 188.980	470.534	ppb	2.0273	0.4	396.914	94.10683
B 249.678	538.203	ppb	1.9980	0.4	7708.30	21.52813Q
Ba 389.178	5043.85	ppb	24.1459	0.5	150210	100.87693
Be 313.042	503.137	ppb	2.5587	0.5	1166363	100.62730
Ca 370.602	5326	ppb	50.14	0.9	22477	106.51722
Cd 226.502	507.561	ppb	2.2796	0.4	25310.7	101.51212
Co 228.615	506.138	ppb	2.1390	0.4	6982.48	101.22759
Cr 267.716	5135.84	ppb	28.8450	0.6	218847	102.71674
Cu 324.754	5088.59	ppb	28.9128	0.6	305188	101.77184
Fe 271.441	4918.50	ppb	13.1033	0.3	11482.1	98.36999
K 766.491	10617.7	ppb	65.6215	0.6	459965	106.17735
Mg 279.078	6326.79	ppb	102.173	1.6	17778.2	126.53576Q
Mn 257.610	5137.76	ppb	9.1050	0.2	535452	102.75512
Mo 202.032	486.792	ppb	3.7387	0.8	4688.78	97.35848
Na 330.237	20933.7	ppb	1339.65	6.4	1151.46	279.11639Q
Ni 231.604	2520.60	ppb	11.8542	0.5	9153.97	100.82382
Pb 220.353	486.024	ppb	2.5835	0.5	1196.99	97.20476
Sb 206.834	942.038	ppb	3.7239	0.4	1290.52	94.20380
Se 196.026	4807.30	ppb	28.9499	0.6	3145.80	96.14603
Sn 189.925	4922.24	ppb	25.0980	0.5	5316.01	98.44473
Sr 216.596	2478.98	ppb	12.6711	0.5	36159.3	99.15903
Ti 334.941	485.575	ppb	2.5916	0.5	159609	97.11507
Tl 190.794	4924.93	ppb	18.8030	0.4	6717.49	98.49857
V 292.401	4825.66	ppb	19.1301	0.4	165823	96.51321
Zn 206.200	2582.37	ppb	16.1820	0.6	5269.23	103.29468

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

Cont Calib Blank (CCB) 4/16/2013, 6:44:02 PM Rack 1, Tube 14

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2396	0.1241	0.2512
Al 308.215	7.0470	5.2265	4.9171
As 188.980	-1.0900u	-0.8726u	1.1670
B 249.678	25.5400	23.9743	22.7909
Ba 389.178	1.2631	2.3533	1.2421
Be 313.042	0.0782	0.1040	0.1117
Ca 370.602	26.66	23.12	21.88
Cd 226.502	0.0923	0.2890	0.2703
Co 228.615	0.2779	0.3606	0.2754
Cr 267.716	0.5783	0.7411	0.9429
Cu 324.754	1.2534	1.0729	1.0500
Fe 271.441	3.1625	11.6764	3.3145
K 766.491	26.7278	27.7829	24.3309
Mg 279.078	52.0533	56.1021	52.8346
Mn 257.610	0.7829	1.1160	1.0140
Mo 202.032	-0.0543u	0.4827	0.2501
Na 330.237	597.080	595.063	623.591
Ni 231.604	0.5024	1.2585	0.6202
Pb 220.353	0.1556	4.2889	0.5868
Sb 206.834	-5.1091u	1.5741	-1.6841u
Se 196.026	-1.8918u	-4.8790u	6.6776
Sn 189.925	2.1988	0.8520	1.9605
Sr 216.596	1.0272	0.5218	1.0755
Ti 334.941	0.3159	0.3046	0.3281
Tl 190.794	1.2663	1.6615	1.2479
V 292.401	-0.0595u	0.9292	0.8409
Zn 206.200	-3.7446u	-3.7774u	-2.3909u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2050	ppb	0.0703	34.3	-34.3601	0.20498
Al 308.215	5.7302	ppb	1.1509	20.1	-0.3613	5.73019
As 188.980	-0.2652	ppb	1.2451	469.5	-1.3898	-0.26518
B 249.678	24.1017	ppb	1.3789	5.7	431.192	24.10174
Ba 389.178	1.6195	ppb	0.6356	39.2	34.2439	1.61950
Be 313.042	0.0980	ppb	0.0176	17.9	-59.8057	0.09797
Ca 370.602	23.88	ppb	2.479	10.4	116.7	23.88490
Cd 226.502	0.2172	ppb	0.1086	50.0	18.9240	0.21718
Co 228.615	0.3046	ppb	0.0485	15.9	13.8451	0.30465
Cr 267.716	0.7541	ppb	0.1826	24.2	50.4557	0.75411
Cu 324.754	1.1254	ppb	0.1114	9.9	118.050	1.12543
Fe 271.441	6.0511	ppb	4.8723	80.5	21.8537	6.05113
K 766.491	26.2806	ppb	1.7689	6.7	1404.20	26.28057
Mg 279.078	53.6633	ppb	2.1479	4.0	181.392	53.66335
Mn 257.610	0.9710	ppb	0.1706	17.6	179.498	0.97097
Mo 202.032	0.2262	ppb	0.2693	119.1	12.9028	0.22617
Na 330.237	605.245	ppb	15.9203	2.6	20.8656	605.24463Z
Ni 231.604	0.7937	ppb	0.4068	51.3	3.7400	0.79369
Pb 220.353	1.6771	ppb	2.2722	135.5	3.6039	1.67708
Sb 206.834	-1.7397	ppb	3.3419	192.1	-0.3848	-1.73969
Se 196.026	-0.0311	ppb	5.9988	19312.9	1.9874	-0.03106
Sn 189.925	1.6705	ppb	0.7187	43.0	-0.7509	1.67045
Sr 216.596	0.8748	ppb	0.3067	35.1	22.3934	0.87484
Ti 334.941	0.3162	ppb	0.0118	3.7	-3.8830	0.31620
Tl 190.794	1.3919	ppb	0.2337	16.8	1.9419	1.39189
V 292.401	0.5702	ppb	0.5472	96.0	30.3511	0.57021
Zn 206.200	-3.3043	ppb	0.7912	23.9	-2.4373	-3.30431

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680-89187-a-2-a (Samp) 4/16/2013, 6:49:36 PM Rack 1, Tube 15

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.7178u	1.0490u	0.9868u
Al 308.215	208.954	207.963	208.808
As 188.980	1.3521	7.2699	8.7353
B 249.678	5670.93	5578.85	5662.82
Ba 389.178	18.3571	12.3322	14.1048
Be 313.042	0.8145	0.8088	0.8076
Ca 370.602	419879	409561	417225
Cd 226.502	2.7433	2.8011	3.0289
Co 228.615	1.3297	0.6356	0.8058
Cr 267.716	-5.1541u	-4.9260u	-4.9868u
Cu 324.754	1582.60	1549.23	1556.75
Fe 271.441	173.027	165.200	180.119
K 766.491	622287x	607416x	617278x
Mg 279.078	1429417x	1394509x	1421756x
Mn 257.610	113.247	108.873	110.543
Mo 202.032	10.2690	9.4677	10.4291
Na 330.237	14089203x	13911917x	14048729x
Ni 231.604	605.954	594.330	601.472
Pb 220.353	6.0860	7.6038	6.9396
Sb 206.834	5.9123	7.5315	3.8739
Se 196.026	17.9705	6.3889	20.1889
Sn 189.925	-0.8958	-1.5132	-1.1931
Sr 216.596	7854.50x	7678.37x	7800.89x
Ti 334.941	-17.4559	-17.5445	-17.6200
Tl 190.794	-9.4305u	-8.2681u	-0.1468u
V 292.401	5.2239	5.7428	6.2615
Zn 206.200	150.902	149.795	152.158

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.9179b	ppb	0.1761	19.2	-433.669
Al 308.215	208.575b	ppb	0.5351	0.3	585.381
As 188.980	5.7858b	ppb	3.9089	67.6	8.4987
B 249.678	5637.53b	ppb	50.9805	0.9	79966.9
Ba 389.178	14.9314b	ppb	3.0963	20.7	5203.86
Be 313.042	0.8103b	ppb	0.0037	0.5	-221.094
Ca 370.602	415555b	ppb	5358	1.3	1765453
Cd 226.502	2.8578b	ppb	0.1510	5.3	76.1353
Co 228.615	0.9237b	ppb	0.3618	39.2	22.5073
Cr 267.716	-5.0223b	ppb	0.1181	2.4	13.9169
Cu 324.754	1562.86b	ppb	17.5011	1.1	93779.9
Fe 271.441	172.782b	ppb	7.4625	4.3	405.389
K 766.491	615660xb	ppb	7566.39	1.2	26655462
Mg 279.078	1415228xb	ppb	18347.3	1.3	3994792
Mn 257.610	110.888b	ppb	2.2077	2.0	15331.3
Mo 202.032	10.0553b	ppb	0.5151	5.1	107.595
Na 330.237	14016616xb	ppb	92903.2	0.7	798237
Ni 231.604	600.585b	ppb	5.8624	1.0	2181.75
Pb 220.353	6.8765b	ppb	0.7609	11.1	16.4353
Sb 206.834	5.7726b	ppb	1.8328	31.7	9.1972
Se 196.026	14.8494b	ppb	7.4105	49.9	11.7598
Sn 189.925	-1.2007b	ppb	0.3088	25.7	2.4785
Sr 216.596	7777.92xb	ppb	90.2809	1.2	113721
Ti 334.941	-17.5402b	ppb	0.0821	0.5	444.570
Tl 190.794	-5.9485b	ppb	5.0579	85.0	-8.3812
V 292.401	5.7427b	ppb	0.5188	9.0	96.3300
Zn 206.200	150.952b	ppb	1.1820	0.8	317.884

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

680-89185-a-1-a (Samp) 4/16/2013, 6:55:10 PM Rack 1, Tube 16

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.6272	1.4216	0.9969
Al 308.215	57.5035	49.5030	48.3498
As 188.980	3.4467	3.3210	4.6221
B 249.678	1413.32	1429.88	1433.98
Ba 389.178	244.992	246.032	247.366
Be 313.042	0.2088	0.1905	0.1694
Ca 370.602	209665	212107	210997
Cd 226.502	75.7266	76.3692	76.6413
Co 228.615	1.1232	1.8679	1.5968
Cr 267.716	15.0296	15.1611	15.1757
Cu 324.754	9.8981	9.1492	9.0261
Fe 271.441	40.8965	40.9589	41.5753
K 766.491	35003.3	34801.1	34277.2
Mg 279.078	22995.8	22987.6	22651.0
Mn 257.610	394.867	401.355	401.970
Mo 202.032	14.0568	13.5917	13.6895
Na 330.237	1636403x	1672898x	1647128x
Ni 231.604	10.0949	9.5735	9.1907
Pb 220.353	1.6115	0.9347	2.9419
Sb 206.834	2.1493	-4.3640u	1.4678
Se 196.026	2.5422	5.0686	6.9756
Sn 189.925	2.3644	1.7744	0.9453
Sr 216.596	1030.19	1037.59	1035.24
Ti 334.941	3.2165	3.3417	3.2289
Tl 190.794	-1.8244u	-3.0924u	-2.2649u
V 292.401	5.3904	4.8962	4.3153
Zn 206.200	39.9821	40.3605	39.0882

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.3486b	ppb	0.3215	23.8	14.3520
Al 308.215	51.7854b	ppb	4.9855	9.6	133.365
As 188.980	3.7966b	ppb	0.7176	18.9	4.4847
B 249.678	1425.72b	ppb	10.9390	0.8	20290.2
Ba 389.178	246.130b	ppb	1.1900	0.5	7391.56
Be 313.042	0.1896b	ppb	0.0197	10.4	13.7762
Ca 370.602	210923b	ppb	1222	0.6	896114
Cd 226.502	76.2457b	ppb	0.4697	0.6	3795.47
Co 228.615	1.5293b	ppb	0.3769	24.6	30.3131
Cr 267.716	15.1222b	ppb	0.0805	0.5	688.281
Cu 324.754	9.3578b	ppb	0.4720	5.0	612.190
Fe 271.441	41.1436b	ppb	0.3752	0.9	102.806
K 766.491	34693.9b	ppb	374.727	1.1	1502348
Mg 279.078	22878.2b	ppb	196.760	0.9	64599.7
Mn 257.610	399.397b	ppb	3.9353	1.0	41752.9
Mo 202.032	13.7793b	ppb	0.2452	1.8	143.482
Na 330.237	1652143xb	ppb	18757.1	1.1	94076.2
Ni 231.604	9.6197b	ppb	0.4539	4.7	35.7908
Pb 220.353	1.8294b	ppb	1.0212	55.8	4.0737
Sb 206.834	-0.2490b	ppb	3.5799	1437.9	1.5013
Se 196.026	4.8622b	ppb	2.2239	45.7	5.3139
Sn 189.925	1.6947b	ppb	0.7129	42.1	0.1126
Sr 216.596	1034.34b	ppb	3.7834	0.4	15154.0
Ti 334.941	3.2624b	ppb	0.0690	2.1	943.380
Tl 190.794	-2.3939b	ppb	0.6438	26.9	-4.0206
V 292.401	4.8673b	ppb	0.5381	11.1	158.765
Zn 206.200	39.8103b	ppb	0.6533	1.6	40.5432

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

680-89171-a-1-b (Samp) 4/16/2013, 7:00:44 PM Rack 1, Tube 17

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7288u	0.1762u	-0.0425u
Al 308.215	29.1202	29.7211	28.4247
As 188.980	-1.5477u	3.2761	1.3928
B 249.678	46.4921	44.8057	41.6732
Ba 389.178	47.0048	48.5648	47.4477
Be 313.042	0.0214	0.0295	0.0377
Ca 370.602	17305	17447	17426
Cd 226.502	0.1616	0.2759	0.2804
Co 228.615	0.3674	0.2036	0.3750
Cr 267.716	0.0848	0.3425	0.1644
Cu 324.754	0.3669	0.3820	0.5607
Fe 271.441	219.601	221.859	212.487
K 766.491	839.699	885.281	873.109
Mg 279.078	2529.90	2622.80	2647.09
Mn 257.610	443.520	445.768	446.015
Mo 202.032	1.0221	1.0886	0.8560
Na 330.237	10295.4	11765.4	11775.9
Ni 231.604	-1.0957u	0.7176	0.2466
Pb 220.353	3.1714	1.9889	0.3673
Sb 206.834	-1.8801u	-3.0986u	-0.5738u
Se 196.026	-3.3626u	2.7144	-6.1610u
Sn 189.925	0.3411	2.9578	4.1594
Sr 216.596	569.955	571.135	570.722
Ti 334.941	0.2757	0.3092	0.3532
Tl 190.794	-2.2638u	-1.6799u	4.2557
V 292.401	-0.3079u	-0.1920u	-0.4614u
Zn 206.200	42.3838	40.7932	41.3776

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1984	ppb	0.4722	238.0	-100.815
Al 308.215	29.0887	ppb	0.6488	2.2	67.0779
As 188.980	1.0404	ppb	2.4311	233.7	-0.0873
B 249.678	44.3237	ppb	2.4453	5.5	717.412
Ba 389.178	47.6724	ppb	0.8039	1.7	1414.40
Be 313.042	0.0295	ppb	0.0082	27.7	-213.048
Ca 370.602	17393	ppb	76.76	0.4	73900
Cd 226.502	0.2393	ppb	0.0673	28.1	20.6771
Co 228.615	0.3153	ppb	0.0969	30.7	13.9516
Cr 267.716	0.1973	ppb	0.1320	66.9	28.6478
Cu 324.754	0.4365	ppb	0.1078	24.7	76.8454
Fe 271.441	217.982	ppb	4.8912	2.2	509.101
K 766.491	866.030	ppb	23.6013	2.7	37761.4
Mg 279.078	2599.93	ppb	61.8544	2.4	7359.23
Mn 257.610	445.101	ppb	1.3751	0.3	46464.6
Mo 202.032	0.9889	ppb	0.1198	12.1	20.2403
Na 330.237	11278.9	ppb	851.732	7.6	628.293
Ni 231.604	-0.0439	ppb	0.9409	2145.5	0.7048
Pb 220.353	1.8425	ppb	1.4078	76.4	4.1519
Sb 206.834	-1.8508	ppb	1.2627	68.2	-0.5466
Se 196.026	-2.2697	ppb	4.5375	199.9	0.6695
Sn 189.925	2.4861	ppb	1.9523	78.5	0.1445
Sr 216.596	570.604	ppb	0.5987	0.1	8351.06
Ti 334.941	0.3127	ppb	0.0389	12.4	7.6014
Tl 190.794	0.1040	ppb	3.6073	3468.5	-0.7242
V 292.401	-0.3204	ppb	0.1352	42.2	-0.5547
Zn 206.200	41.5182	ppb	0.8946	140.8	41.0985

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

680-89196-a-1-a (Samp) 4/16/2013, 7:06:19 PM Rack 1, Tube 18

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2539u	-0.3423u	0.0098u
Al 308.215	34.6805	33.5387	39.8742
As 188.980	1.1759	1.9415	1.9837
B 249.678	27.5251	26.9985	27.3086
Ba 389.178	22.5150	22.5188	23.5185
Be 313.042	-0.0231u	-0.0236u	-0.0238u
Ca 370.602	34098	34061	34017
Cd 226.502	0.4501	0.5352	0.4295
Co 228.615	-0.0363u	-0.8158u	0.1398
Cr 267.716	0.5506	0.4135	0.7346
Cu 324.754	5.2312	5.5735	5.0796
Fe 271.441	109.048	112.834	113.045
K 766.491	1856.17	1875.42	1878.16
Mg 279.078	4843.42	4853.97	4855.26
Mn 257.610	4.8073	4.8910	4.7893
Mo 202.032	1.8655	1.6788	1.4546
Na 330.237	6756.35	7280.43	7141.37
Ni 231.604	0.3078	0.1472	0.6944
Pb 220.353	4.3501	3.2325	3.4939
Sb 206.834	-2.8914u	-3.0222u	-1.5850u
Se 196.026	-4.5783u	0.4875	-3.2161u
Sn 189.925	-0.8699u	3.1582	3.5096
Sr 216.596	223.229	224.172	222.899
Ti 334.941	0.5846	0.4705	0.5109
Tl 190.794	-2.3016u	-0.2833u	-3.9061u
V 292.401	-0.8815u	-0.2644u	-0.2712u
Zn 206.200	57.0893	57.2011	57.6959

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1955	ppb	0.1832	93.7	-83.7240
Al 308.215	36.0311	ppb	3.3768	9.4	87.1340
As 188.980	1.7004	ppb	0.4547	26.7	0.6646
B 249.678	27.2774	ppb	0.2646	1.0	476.043
Ba 389.178	22.8508	ppb	0.5782	2.5	682.763
Be 313.042	-0.0235	ppb	0.0003	1.4	-328.464
Ca 370.602	34058	ppb	40.47	0.1	144698
Cd 226.502	0.4716	ppb	0.0560	11.9	31.9757
Co 228.615	-0.2374	ppb	0.5086	214.2	6.3466
Cr 267.716	0.5662	ppb	0.1611	28.5	42.5908
Cu 324.754	5.2948	ppb	0.2530	4.8	368.188
Fe 271.441	111.642	ppb	2.2493	2.0	264.469
K 766.491	1869.92	ppb	11.9847	0.6	81225.1
Mg 279.078	4850.88	ppb	6.4967	0.1	13722.4
Mn 257.610	4.8292	ppb	0.0543	1.1	594.476
Mo 202.032	1.6663	ppb	0.2058	12.3	26.7747
Na 330.237	7059.38	ppb	271.489	3.8	387.897
Ni 231.604	0.3832	ppb	0.2813	73.4	2.2524
Pb 220.353	3.6921	ppb	0.5846	15.8	8.5672
Sb 206.834	-2.4995	ppb	0.7947	31.8	-1.3964
Se 196.026	-2.4356	ppb	2.6215	107.6	0.4169
Sn 189.925	1.9327	ppb	2.4334	125.9	-0.4463
Sr 216.596	223.433	ppb	0.6607	0.3	3279.62
Ti 334.941	0.5220	ppb	0.0579	11.1	88.7852
Tl 190.794	-2.1637	ppb	1.8154	83.9	-2.9303
V 292.401	-0.4724	ppb	0.3543	75.0	-5.8525
Zn 206.200	57.3288	ppb	0.3228	0.6	126.428

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

680-89285-a-1-a (Samp) 4/16/2013, 7:11:53 PM Rack 1, Tube 19

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.7771u	0.6217u	0.0654u
Al 308.215	4395.27	4397.95	4410.46
As 188.980	3.2599	0.1749	3.0799
B 249.678	1784.85	1789.50	1798.67
Ba 389.178	9.1383	8.5173	9.3968
Be 313.042	0.0057u	0.0139u	0.0238u
Ca 370.602	19439	19460	19439
Cd 226.502	0.5206	0.4630	0.6948
Co 228.615	0.3042	-0.3660u	0.3735
Cr 267.716	41.1032	41.4244	40.7388
Cu 324.754	1.8702	2.3542	2.2176
Fe 271.441	81.9385	81.4030	88.9497
K 766.491	5914.62	5864.29	5927.99
Mg 279.078	3961.70	3955.47	3971.05
Mn 257.610	168.652	167.856	167.405
Mo 202.032	2.7632	2.8593	2.2194
Na 330.237	712098x	711768x	714874x
Ni 231.604	5.9701	6.3532	6.7671
Pb 220.353	1.7895	0.1832	2.8396
Sb 206.834	-0.9384u	3.1189	4.6566
Se 196.026	14.4644	12.3026	14.1161
Sn 189.925	2.3942	4.1100	1.5321
Sr 216.596	2918.09	2914.70	2908.01
Ti 334.941	0.2976	0.2989	0.3097
Tl 190.794	-2.9623u	-4.5923u	-3.3448u
V 292.401	0.0124u	-0.1975u	-0.1806u
Zn 206.200	45.9791	45.8851	44.7110

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4880b	ppb	0.3742	76.7	-167.855
Al 308.215	4401.23b	ppb	8.1100	0.2	12678.7
As 188.980	2.1716b	ppb	1.7315	79.7	0.8942
B 249.678	1791.01b	ppb	7.0341	0.4	25465.6
Ba 389.178	9.0174b	ppb	0.4520	5.0	267.836
Be 313.042	0.0144b	ppb	0.0091	62.8	-342.138
Ca 370.602	19446b	ppb	12.08	0.1	82629
Cd 226.502	0.5595b	ppb	0.1207	21.6	31.2463
Co 228.615	0.1039b	ppb	0.4084	393.1	11.1491
Cr 267.716	41.0888b	ppb	0.3430	0.8	1780.62
Cu 324.754	2.1474b	ppb	0.2495	11.6	179.452
Fe 271.441	84.0971b	ppb	4.2111	5.0	201.367
K 766.491	5902.30b	ppb	33.5903	0.6	255808
Mg 279.078	3962.74b	ppb	7.8386	0.2	11210.3
Mn 257.610	167.971b	ppb	0.6316	0.4	17589.6
Mo 202.032	2.6140b	ppb	0.3450	13.2	35.9077
Na 330.237	712913xb	ppb	1705.72	0.2	40586.7
Ni 231.604	6.3635b	ppb	0.3986	6.3	23.9698
Pb 220.353	1.6041b	ppb	1.3378	83.4	3.3638
Sb 206.834	2.2790b	ppb	2.8905	126.8	5.3104
Se 196.026	13.6277b	ppb	1.1607	8.5	10.9698
Sn 189.925	2.6788b	ppb	1.3123	49.0	0.6613
Sr 216.596	2913.60b	ppb	5.1305	0.2	42592.1
Ti 334.941	0.3021b	ppb	0.0066	2.2	-49.3745
Tl 190.794	-3.6331b	ppb	0.8524	23.5	-5.2634
V 292.401	-0.1219b	ppb	0.1166	95.7	-3.8531
Zn 206.200	45.5251b	ppb	0.7066	1.6	457.129

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

680-89285-a-2-a (Samp) 4/16/2013, 7:17:28 PM Rack 1, Tube 20

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2362u	-0.2445u	0.5505u
Al 308.215	4601.67	4598.95	4588.21
As 188.980	4.9816	3.1063	1.0018
B 249.678	1799.68	1809.32	1813.07
Ba 389.178	9.2778	9.5517	9.4801
Be 313.042	0.0138u	0.0223u	0.0172u
Ca 370.602	19705	19692	19670
Cd 226.502	1.3391	1.4623	1.6149
Co 228.615	0.3162	-0.1293u	0.1388
Cr 267.716	99.9985	99.5083	99.3640
Cu 324.754	0.7002	0.8692	0.6955
Fe 271.441	68.0716	72.7551	73.0454
K 766.491	5586.22	5554.90	5571.95
Mg 279.078	4010.20	4005.35	4015.84
Mn 257.610	171.439	170.563	170.842
Mo 202.032	2.2136	2.5062	2.8707
Na 330.237	710600x	711062x	710953x
Ni 231.604	4.9570	6.2551	5.4898
Pb 220.353	1.3113	1.7665	1.4816
Sb 206.834	1.3486	2.3989	1.4474
Se 196.026	12.3877	14.9044	9.4945
Sn 189.925	-0.5594u	-1.2946u	-1.3286u
Sr 216.596	2968.08	2962.94	2956.78
Ti 334.941	0.3410	0.2684	0.2793
Tl 190.794	-8.3487u	-2.3628u	-4.3388u
V 292.401	-0.0516u	-0.3425u	-0.1486u
Zn 206.200	43.5507	41.2104	43.8429

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0233b	ppb	0.4566	1961.8	-214.449
Al 308.215	4596.28b	ppb	7.1155	0.2	13241.3
As 188.980	3.0299b	ppb	1.9910	65.7	1.6244
B 249.678	1807.35b	ppb	6.9065	0.4	25697.3
Ba 389.178	9.4365b	ppb	0.1420	1.5	280.449
Be 313.042	0.0177b	ppb	0.0043	24.1	-333.924
Ca 370.602	19689b	ppb	17.63	0.1	83660
Cd 226.502	1.4721b	ppb	0.1382	9.4	76.6934
Co 228.615	0.1086b	ppb	0.2243	206.6	11.4377
Cr 267.716	99.6236b	ppb	0.3326	0.3	4274.91
Cu 324.754	0.7550b	ppb	0.0990	13.1	95.9458
Fe 271.441	71.2907b	ppb	2.7916	3.9	172.128
K 766.491	5571.02b	ppb	15.6835	0.3	241466
Mg 279.078	4010.46b	ppb	5.2522	0.1	11344.9
Mn 257.610	170.948b	ppb	0.4473	0.3	17899.9
Mo 202.032	2.5302b	ppb	0.3292	13.0	35.1016
Na 330.237	710872xb	ppb	241.616	0.0	40470.4
Ni 231.604	5.5673b	ppb	0.6525	11.7	21.0786
Pb 220.353	1.5198b	ppb	0.2300	15.1	3.1510
Sb 206.834	1.7316b	ppb	0.5800	33.5	5.3460
Se 196.026	12.2622b	ppb	2.7071	22.1	10.0783
Sn 189.925	-1.0609b	ppb	0.4346	41.0	-3.3805
Sr 216.596	2962.60b	ppb	5.6583	0.2	43308.3
Ti 334.941	0.2962b	ppb	0.0391	13.2	-50.7903
Tl 190.794	-5.0168b	ppb	3.0500	60.8	-7.1577
V 292.401	-0.1809b	ppb	0.1481	81.9	-10.3966
Zn 206.200	42.8680b	ppb	1.4430	3.4	4674604

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

680-89285-a-3-a (Samp) 4/16/2013, 7:23:04 PM Rack 1, Tube 21

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2126u	-0.0308u	0.1114u
Al 308.215	2689.09	2697.95	2702.52
As 188.980	2.4260	1.7891	3.8818
B 249.678	2185.68	2196.15	2204.56
Ba 389.178	9.1879	9.1828	9.0179
Be 313.042	0.0097u	0.0082u	0.0192u
Ca 370.602	18608	18647	18645
Cd 226.502	0.6159	0.6410	0.5878
Co 228.615	0.5619	0.0498	0.9425
Cr 267.716	35.5980	35.6577	36.2231
Cu 324.754	0.7750	0.8800	1.0646
Fe 271.441	58.5741	62.5285	61.7162
K 766.491	5947.98	5921.55	5861.89
Mg 279.078	3377.88	3391.10	3390.43
Mn 257.610	344.534	342.771	343.053
Mo 202.032	3.1129	2.5420	2.0346
Na 330.237	689652x	685705x	689372x
Ni 231.604	7.2286	7.3100	7.3734
Pb 220.353	1.3793	2.4878	2.8382
Sb 206.834	0.1667	-1.1926u	2.6973
Se 196.026	18.1167	14.2364	14.2600
Sn 189.925	-1.9880u	2.1249	1.3907
Sr 216.596	2593.84	2600.29	2602.60
Ti 334.941	0.1156u	0.2106	0.2107
Tl 190.794	-4.8268u	2.0702	-2.9899u
V 292.401	0.1626u	-0.2603u	-0.0157u
Zn 206.200	32.0191	32.1010	32.7038

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0977b	ppb	0.1223	125.1	-187.492
Al 308.215	2696.52b	ppb	6.8302	0.3	7761.47
As 188.980	2.6990b	ppb	1.0727	39.7	1.3327
B 249.678	2195.46b	ppb	9.4620	0.4	31196.3
Ba 389.178	9.1295b	ppb	0.0967	1.1	269.198
Be 313.042	0.0123b	ppb	0.0060	48.4	-343.967
Ca 370.602	18633b	ppb	22.35	0.1	79184
Cd 226.502	0.6149b	ppb	0.0266	4.3	34.1135
Co 228.615	0.5181b	ppb	0.4480	86.5	16.8136
Cr 267.716	35.8262b	ppb	0.3450	1.0	1556.61
Cu 324.754	0.9065b	ppb	0.1466	16.2	105.034
Fe 271.441	60.9396b	ppb	2.0884	3.4	148.197
K 766.491	5910.47b	ppb	44.1004	0.7	256162
Mg 279.078	3386.47b	ppb	7.4470	0.2	9580.61
Mn 257.610	343.453b	ppb	0.9467	0.3	35873.2
Mo 202.032	2.5632b	ppb	0.5394	21.0	35.4195
Na 330.237	688243xb	ppb	2202.59	0.3	39181.8
Ni 231.604	7.3040b	ppb	0.0726	1.0	27.3837
Pb 220.353	2.2351b	ppb	0.7616	34.1	5.0144
Sb 206.834	0.5571b	ppb	1.9741	354.4	3.0036
Se 196.026	15.5377b	ppb	2.2335	14.4	12.2745
Sn 189.925	0.5092b	ppb	2.1936	430.8	-1.6950
Sr 216.596	2598.91b	ppb	4.5385	0.2	37993.0
Ti 334.941	0.1790b	ppb	0.0549	30.7	-90.6970
Tl 190.794	-1.9155b	ppb	3.5718	186.5	-3.2606
V 292.401	-0.0378b	ppb	0.2123	561.3	-0.3782
Zn 206.200	32.2746b	ppb	0.3740	144.3	45.0529

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

680-89276-d-1-a (Samp) 4/16/2013, 7:28:40 PM Rack 1, Tube 22

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5692u	-0.1287u	-0.1573u
Al 308.215	70.5228	71.3928	70.0458
As 188.980	7.0055	1.7837	2.9821
B 249.678	176.967	170.313	163.948
Ba 389.178	36.1708	36.8147	37.2872
Be 313.042	-0.0273u	-0.0220u	-0.0116u
Ca 370.602	38000	37980	37873
Cd 226.502	0.0844	0.3136	0.2755
Co 228.615	11.2929	10.7243	11.3747
Cr 267.716	0.5620	0.5783	0.6545
Cu 324.754	146.076	145.387	146.536
Fe 271.441	1768.00	1772.31	1775.75
K 766.491	77744.2x	78287.7x	77760.4x
Mg 279.078	23821.6	23797.4	23859.8
Mn 257.610	302.533	303.697	306.863
Mo 202.032	27.3049	27.8873	28.0530
Na 330.237	69844.4	70223.5	70186.3
Ni 231.604	10.6503	10.5115	11.0015
Pb 220.353	3.1399	0.5748	2.8213
Sb 206.834	-2.9083u	-0.4068u	-2.6284u
Se 196.026	-2.0048u	-0.5640u	4.9191
Sn 189.925	2.8731	3.7577	5.7915
Sr 216.596	196.360	196.016	196.647
Ti 334.941	7.5047	7.8566	8.2269
Tl 190.794	0.8686	0.9142	-4.2494u
V 292.401	0.3144	0.3153	0.5302
Zn 206.200	502.003	502.963	504.138

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2851b	ppb	0.2465	86.5	-89.2864
Al 308.215	70.6538b	ppb	0.6830	1.0	188.758
As 188.980	3.9238b	ppb	2.7353	69.7	2.5606
B 249.678	170.409b	ppb	6.5097	3.8	2501.87
Ba 389.178	36.7576b	ppb	0.5604	1.5	1164.02
Be 313.042	-0.0203b	ppb	0.0080	39.4	-338.510
Ca 370.602	37951b	ppb	68.29	0.2	161070
Cd 226.502	0.2245b	ppb	0.1228	54.7	24.9046
Co 228.615	11.1306b	ppb	0.3542	3.2	161.879
Cr 267.716	0.5983b	ppb	0.0494	8.3	46.3976
Cu 324.754	146.000b	ppb	0.5785	0.4	8808.11
Fe 271.441	1772.02b	ppb	3.8868	0.2	4084.03
K 766.491	77930.7xb	ppb	309.214	0.4	3374303
Mg 279.078	23826.3b	ppb	31.4449	0.1	67278.3
Mn 257.610	304.364b	ppb	2.2411	0.7	31857.7
Mo 202.032	27.7484b	ppb	0.3929	1.4	277.977
Na 330.237	70084.7b	ppb	208.983	0.3	3972.92
Ni 231.604	10.7211b	ppb	0.2525	2.4	39.8402
Pb 220.353	2.1787b	ppb	1.3981	64.2	4.8692
Sb 206.834	-1.9812b	ppb	1.3706	69.2	-1.1399
Se 196.026	0.7834b	ppb	3.6533	466.3	2.6167
Sn 189.925	4.1408b	ppb	1.4964	36.1	1.9694
Sr 216.596	196.341b	ppb	0.3160	0.2	2883.62
Ti 334.941	7.8627b	ppb	0.3611	4.6	2598.55
Tl 190.794	-0.8222b	ppb	2.9681	361.0	-1.8211
V 292.401	0.3866b	ppb	0.1243	32.2	17.0800
Zn 206.200	503.035b	ppb	1.0693	0.2	4977.86

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

680-89275-c-1-a (Samp) 4/16/2013, 7:34:16 PM Rack 1, Tube 23

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3917	0.4308	-0.0389u
Al 308.215	-0.5669u	8.1014	-0.4280u
As 188.980	2.9282	-5.1486u	1.0388
B 249.678	17.6624	16.2453	15.6014
Ba 389.178	-0.3294u	-0.2744u	0.2906
Be 313.042	-0.0157u	-0.0184u	-0.0180u
Ca 370.602	36.55	36.07	51.88
Cd 226.502	0.1210	0.0161	-0.0574u
Co 228.615	-0.2054u	-0.6090u	-0.0486u
Cr 267.716	-0.5240u	-0.0809u	-0.1393u
Cu 324.754	0.1149	-0.4894u	0.0638
Fe 271.441	27.9133	28.0235	26.9100
K 766.491	4.1859	30.3931	61.8690
Mg 279.078	3.3441	4.7754	16.4068
Mn 257.610	0.4187	0.5408	0.5902
Mo 202.032	0.2513	-0.6358u	0.4010
Na 330.237	-3.5822u	252.018	265.584
Ni 231.604	-0.5039u	-0.3451u	1.4564
Pb 220.353	0.8069	0.5358	-1.4840u
Sb 206.834	-6.3781u	1.0561	-0.5592u
Se 196.026	-1.0272u	-1.9233u	-4.4180u
Sn 189.925	3.0168	3.7933	1.5394
Sr 216.596	-0.1787u	0.6186	-0.0244u
Ti 334.941	0.1548	0.1823	0.1835
Tl 190.794	-2.0980u	-4.1057u	0.0465
V 292.401	-0.2879u	-0.1092u	-0.3600u
Zn 206.200	17.9285	19.0061	18.7328

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2612	ppb	0.2606	99.8	-29.1165
Al 308.215	2.3688	ppb	4.9650	209.6	-10.0637
As 188.980	-0.3939	ppb	4.2247	1072.6	-1.4987
B 249.678	16.5030	ppb	1.0544	6.4	323.498
Ba 389.178	-0.1044	ppb	0.3432	328.8	-17.2022
Be 313.042	-0.0174	ppb	0.0014	8.3	-327.147
Ca 370.602	41.50	ppb	8.992	21.7	189.2
Cd 226.502	0.0266	ppb	0.0896	337.4	9.4999
Co 228.615	-0.2877	ppb	0.2891	100.5	5.6966
Cr 267.716	-0.2481	ppb	0.2407	97.0	7.7530
Cu 324.754	-0.1035	ppb	0.3352	323.7	44.3560
Fe 271.441	27.6156	ppb	0.6136	2.2	71.2890
K 766.491	32.1493	ppb	28.8816	89.8	1658.29
Mg 279.078	8.1755	ppb	7.1644	87.6	53.0078
Mn 257.610	0.5166	ppb	0.0882	17.1	132.058
Mo 202.032	0.0055	ppb	0.5604	10187.3	10.7772
Na 330.237	171.340	ppb	151.639	88.5	-4.0313
Ni 231.604	0.2025	ppb	1.0889	537.8	1.5938
Pb 220.353	-0.0471	ppb	1.2518	2656.9	-0.6441
Sb 206.834	-1.9604	ppb	3.9101	199.5	-0.6820
Se 196.026	-2.4562	ppb	1.7571	71.5	0.4021
Sn 189.925	2.7832	ppb	1.1450	41.1	0.4511
Sr 216.596	0.1385	ppb	0.4229	305.3	11.6738
Ti 334.941	0.1735	ppb	0.0163	9.4	-50.9955
Tl 190.794	-2.0524	ppb	2.0765	101.2	-2.7625
V 292.401	-0.2524	ppb	0.1291	51.2	2.1301
Zn 206.200	18.5558	ppb	0.5601	3.0	47.1437

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

680-89103-j-1-d (Samp) 4/16/2013, 7:39:52 PM Rack 1, Tube 24

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0373	0.0722	0.3801
Al 308.215	154.794	155.047	151.489
As 188.980	-2.0734u	1.2531	-0.2640u
B 249.678	91.8123	91.0880	91.2421
Ba 389.178	22.9970	22.6938	22.4110
Be 313.042	-0.0076u	-0.0033u	-0.0062u
Ca 370.602	9491	9490	9463
Cd 226.502	0.1227	-0.0133	0.1815
Co 228.615	-0.0507u	0.7503	0.9397
Cr 267.716	0.5817	0.5949	0.6269
Cu 324.754	28.2042	28.6720	28.6306
Fe 271.441	308.926	302.879	308.323
K 766.491	4367.43	4343.64	4370.56
Mg 279.078	1020.00	1023.13	1028.21
Mn 257.610	14.1653	14.1765	14.1983
Mo 202.032	1.5293	1.6185	1.5151
Na 330.237	10844.8	10561.9	10764.6
Ni 231.604	0.2007	1.1474	0.2824
Pb 220.353	8.9671	8.9343	6.8347
Sb 206.834	0.6274	1.7301	3.0507
Se 196.026	2.0369	1.1568	4.8466
Sn 189.925	-0.6723u	1.0638	-0.0371u
Sr 216.596	38.4266	38.2233	38.7249
Ti 334.941	3.8301	3.5515	3.7729
Tl 190.794	-3.6463u	0.3873	-2.6139u
V 292.401	0.0228	-0.0644u	0.0203
Zn 206.200	88.9011	85.6945	85.2475

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1632	ppb	0.1886	115.6	-40.2591
Al 308.215	153.777	ppb	1.9852	1.3	426.766
As 188.980	-0.3614	ppb	1.6654	460.8	-1.3666
B 249.678	91.3808	ppb	0.3816	0.4	1384.03
Ba 389.178	22.7006	ppb	0.2930	1.3	665.742
Be 313.042	-0.0057	ppb	0.0022	38.8	-297.989
Ca 370.602	9481	ppb	16.10	0.2	40265
Cd 226.502	0.0970	ppb	0.0999	103.0	13.8515
Co 228.615	0.5464	ppb	0.5257	96.2	17.2208
Cr 267.716	0.6012	ppb	0.0232	3.9	44.2136
Cu 324.754	28.5023	ppb	0.2589	0.9	1760.07
Fe 271.441	306.709	ppb	3.3309	1.1	713.124
K 766.491	4360.54	ppb	14.7177	0.3	189057
Mg 279.078	1023.78	ppb	4.1408	0.4	2919.48
Mn 257.610	14.1800	ppb	0.0168	0.1	1558.83
Mo 202.032	1.5543	ppb	0.0560	3.6	25.6815
Na 330.237	10723.8	ppb	145.824	1.4	596.250
Ni 231.604	0.5435	ppb	0.5246	96.5	2.8403
Pb 220.353	8.2454	ppb	1.2218	14.8	19.7842
Sb 206.834	1.8027	ppb	1.2132	67.3	4.2031
Se 196.026	2.6801	ppb	1.9272	71.9	3.7634
Sn 189.925	0.1181	ppb	0.8784	743.6	-2.4187
Sr 216.596	38.4583	ppb	0.2523	0.7	573.052
Ti 334.941	3.7182	ppb	0.1472	4.0	1119.22
Tl 190.794	-1.9576	ppb	2.0954	107.0	-2.6800
V 292.401	-0.0071	ppb	0.0496	698.7	10.1741
Zn 206.200	86.6144	ppb	1.9929	2.3	486.316

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

Cont Calib Verif (CCV) 4/16/2013, 7:45:27 PM Rack 1, Tube 25

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	513.080	512.862	512.374
Al 308.215	4984.42	4976.84	5017.27
As 188.980	483.906	490.334	486.732
B 249.678	507.280	509.702	518.263
Ba 389.178	5203.13	5187.54	5234.97
Be 313.042	519.280	517.290	523.519
Ca 370.602	4995	4977	5049
Cd 226.502	523.444	520.834	527.150
Co 228.615	521.216	521.146	524.259
Cr 267.716	5303.63	5293.27	5333.10
Cu 324.754	5244.93	5340.44	5312.02
Fe 271.441	5068.53	5056.68	5115.62
K 766.491	10191.9	10091.7	10280.8
Mg 279.078	4983.63	4969.10	5017.10
Mn 257.610	5294.59	5277.72	5340.78
Mo 202.032	502.952	502.242	508.009
Na 330.237	7295.88	7250.75	7435.56
Ni 231.604	2600.19	2594.80	2617.16
Pb 220.353	503.763	504.223	504.281
Sb 206.834	972.161	968.134	973.696
Se 196.026	4935.12	4897.42	4952.17
Sn 189.925	5069.75	5072.02	5091.26
Sr 216.596	2546.06	2540.03	2565.04
Ti 334.941	501.452	501.208	506.475
Tl 190.794	5079.10	5058.10	5107.66
V 292.401	4982.84	4967.10	5017.53
Zn 206.200	2665.04	2649.72	2682.29

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	512.772	ppb	0.3616	0.1	47139.4	102.55437
Al 308.215	4992.84	ppb	21.4914	0.4	14374.0	99.85686
As 188.980	486.991	ppb	3.2219	0.7	410.831	97.39815
B 249.678	511.748	ppb	5.7706	1.1	7333.24	20.46993Q
Ba 389.178	5208.55	ppb	24.1741	0.5	155110	104.17099
Be 313.042	520.029	ppb	3.1815	0.6	1205535	104.00588
Ca 370.602	5007	ppb	37.80	0.8	21117	100.14030
Cd 226.502	523.809	ppb	3.1742	0.6	26120.9	104.76186
Co 228.615	522.207	ppb	1.7776	0.3	7203.89	104.44137
Cr 267.716	5310.00	ppb	20.6618	0.4	226267	106.19999
Cu 324.754	5299.13	ppb	49.0410	0.9	317813	105.98264
Fe 271.441	5080.27	ppb	31.1766	0.6	11859.4	101.60548
K 766.491	10188.2	ppb	94.6046	0.9	441366	101.88169
Mg 279.078	4989.94	ppb	24.6187	0.5	14001.1	99.79887
Mn 257.610	5304.36	ppb	32.6469	0.6	552809	106.08730
Mo 202.032	504.401	ppb	3.1446	0.6	4858.04	100.88019
Na 330.237	7327.39	ppb	96.3516	1.3	375.699	97.69858
Ni 231.604	2604.05	ppb	11.6680	0.4	9457.02	104.16193
Pb 220.353	504.089	ppb	0.2838	0.1	1241.50	100.81781
Sb 206.834	971.330	ppb	2.8722	0.3	1330.70	97.13302
Se 196.026	4928.24	ppb	28.0165	0.6	3224.89	98.56474
Sn 189.925	5077.68	ppb	11.8188	0.2	5483.96	101.55356
Sr 216.596	2550.38	ppb	13.0526	0.5	37200.2	102.01509
Ti 334.941	503.045	ppb	2.9728	0.6	165348	100.60896
Tl 190.794	5081.62	ppb	24.8726	0.5	6931.21	101.63239
V 292.401	4989.16	ppb	25.8013	0.5	171441	99.78316
Zn 206.200	2665.68	ppb	16.2955	0.6	5438.91	106.62731

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

Cont Calib Blank (CCB) 4/16/2013, 7:51:11 PM Rack 1, Tube 26

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2277u	-0.0732u	0.5261
Al 308.215	1.1070	0.4270	0.8489
As 188.980	1.6947	-0.4339u	4.8520
B 249.678	14.3314	13.8546	12.6061
Ba 389.178	1.2566	1.7906	0.9791
Be 313.042	0.0161	0.0392	0.0905
Ca 370.602	-5.244u	4.322	0.3600
Cd 226.502	-0.0472u	0.0116	0.0676
Co 228.615	0.2537	0.0366	-0.0380u
Cr 267.716	-0.0022u	0.0458	0.7420
Cu 324.754	0.3863	0.8820	1.1704
Fe 271.441	0.9151	5.3548	2.3566
K 766.491	2.7964	3.5875	4.6830
Mg 279.078	1.2821	0.4650	0.8766
Mn 257.610	0.0500	0.3481	0.9377
Mo 202.032	-0.0069u	0.1362	0.0261
Na 330.237	67.2930	289.718	206.182
Ni 231.604	-0.0813u	-0.4034u	0.1578
Pb 220.353	-1.0049u	0.5799	0.3181
Sb 206.834	0.2541	-5.7963u	2.4229
Se 196.026	-1.4434u	1.5597	3.2647
Sn 189.925	2.1739	2.1746	3.4983
Sr 216.596	0.5494	0.1911	0.8424
Ti 334.941	0.0800	0.2290	0.2062
Tl 190.794	2.1245	-1.9051u	-1.7280u
V 292.401	0.0620	0.5196	1.0099
Zn 206.200	-2.2828u	-2.2614u	-2.3829u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0751	ppb	0.3982	530.4	-46.2806	0.07507
Al 308.215	0.7943	ppb	0.3433	43.2	-14.6229	0.79432
As 188.980	2.0376	ppb	2.6595	130.5	0.5592	2.03762
B 249.678	13.5974	ppb	0.8909	6.6	282.364	13.59737
Ba 389.178	1.3421	ppb	0.4125	30.7	25.7976	1.34211
Be 313.042	0.0486	ppb	0.0381	78.3	-174.176	0.04860
Ca 370.602	-0.1872	ppb	4.807	2567.0	14.75	-0.18725
Cd 226.502	0.0107	ppb	0.0574	538.5	8.6274	0.01066
Co 228.615	0.0841	ppb	0.1515	180.2	10.8190	0.08409
Cr 267.716	0.2618	ppb	0.4165	159.1	29.4706	0.26184
Cu 324.754	0.8129	ppb	0.3966	48.8	99.2933	0.81288
Fe 271.441	2.8755	ppb	2.2648	78.8	14.5197	2.87550
K 766.491	3.6890	ppb	0.9474	25.7	426.090	3.68897
Mg 279.078	0.8746	ppb	0.4085	46.7	32.3957	0.87458
Mn 257.610	0.4453	ppb	0.4517	101.5	124.579	0.44528
Mo 202.032	0.0518	ppb	0.0749	144.7	11.2231	0.05181
Na 330.237	187.731	ppb	112.355	59.8	-2.9168	187.73112
Ni 231.604	-0.1090	ppb	0.2816	258.4	0.4621	-0.10896
Pb 220.353	-0.0356	ppb	0.8496	2383.4	-0.6157	-0.03564
Sb 206.834	-1.0398	ppb	4.2596	409.7	0.5237	-1.03979
Se 196.026	1.1270	ppb	2.3837	211.5	2.7442	1.12700
Sn 189.925	2.6156	ppb	0.7645	29.2	0.2701	2.61561
Sr 216.596	0.5277	ppb	0.3262	61.8	17.3534	0.52766
Ti 334.941	0.1717	ppb	0.0803	46.7	-51.6365	0.17172
Tl 190.794	-0.5029	ppb	2.2771	452.8	-0.6440	-0.50291
V 292.401	0.5305	ppb	0.4741	89.4	29.1177	0.53051
Zn 206.200	-2.3090	ppb	0.0648	149.8	-4.4748	-2.30903

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

680-89265-a-1-a (Samp) 4/16/2013, 7:56:46 PM Rack 1, Tube 27

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0746u	0.1435u	-0.3682u
Al 308.215	8.9079	3.0055	9.2601
As 188.980	1.7156	-0.8029u	5.2986
B 249.678	19.6803	19.3258	19.4807
Ba 389.178	25.2697	26.4221	25.7407
Be 313.042	-0.0087u	-0.0210u	-0.0203u
Ca 370.602	12318	12325	12393
Cd 226.502	-0.0614u	0.0029	0.1043
Co 228.615	0.2367	-0.3539u	0.1726
Cr 267.716	-0.5330u	-0.2858u	-0.6082u
Cu 324.754	-0.0716u	-0.1792u	-0.0062u
Fe 271.441	21.6705	18.5873	21.7436
K 766.491	749.629	752.550	751.010
Mg 279.078	2242.39	2237.96	2244.65
Mn 257.610	83.8992	83.2056	83.2562
Mo 202.032	1.3061	2.0422	1.3948
Na 330.237	15315.7	15225.0	15226.5
Ni 231.604	-0.5749u	0.0136	0.5098
Pb 220.353	-0.3912u	2.0061	2.3162
Sb 206.834	1.4117	-0.7673u	0.7184
Se 196.026	5.0985	-2.2334u	-5.0635u
Sn 189.925	0.8668	3.9154	1.7248
Sr 216.596	785.657	787.426	789.545
Ti 334.941	0.1765	0.1949	0.1351
Tl 190.794	-0.7697u	-0.8735u	-1.4557u
V 292.401	-0.3551u	-0.5235u	-0.3960u
Zn 206.200	32.2034	33.9507	34.9409

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0998	ppb	0.2568	257.3	-105.701
Al 308.215	7.0578	ppb	3.5138	49.8	3.5659
As 188.980	2.0705	ppb	3.0662	148.1	0.7292
B 249.678	19.4956	ppb	0.1777	0.9	365.911
Ba 389.178	25.8108	ppb	0.5794	2.2	761.932
Be 313.042	-0.0167	ppb	0.0069	41.3	-322.806
Ca 370.602	12345	ppb	41.79	0.3	52465
Cd 226.502	0.0153	ppb	0.0835	546.6	8.8465
Co 228.615	0.0185	ppb	0.3240	1754.8	9.8492
Cr 267.716	-0.4757	ppb	0.1687	35.5	-1.4000
Cu 324.754	-0.0857	ppb	0.0873	101.9	45.4783
Fe 271.441	20.6671	ppb	1.8016	8.7	55.4247
K 766.491	751.063	ppb	1.4612	0.2	32783.9
Mg 279.078	2241.66	ppb	3.4023	0.2	6355.69
Mn 257.610	83.4537	ppb	0.3867	0.5	8779.95
Mo 202.032	1.5810	ppb	0.4018	25.4	25.9592
Na 330.237	15255.7	ppb	51.9095	0.3	854.907
Ni 231.604	-0.0172	ppb	0.5430	3164.4	0.7961
Pb 220.353	1.3104	ppb	1.4818	113.1	2.7242
Sb 206.834	0.4543	ppb	1.1133	245.1	2.4272
Se 196.026	-0.7328	ppb	5.2446	715.7	1.5558
Sn 189.925	2.1690	ppb	1.5721	72.5	-0.1992
Sr 216.596	787.543	ppb	1.9463	0.2	11520.6
Ti 334.941	0.1688	ppb	0.0306	18.1	-41.9700
Tl 190.794	-1.0330	ppb	0.3698	35.8	-1.5375
V 292.401	-0.4249	ppb	0.0879	20.7	-4.2874
Zn 206.200	33.6983	ppb	1.3861	4.1	78.1097

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

680-89265-a-1-b ms (Samp) **4/16/2013, 8:02:20 PM** **Rack 1, Tube 28****Weight: 1** **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	15.1740	14.2272	14.6224
Al 308.215	5150.05	4971.96	5176.23
As 188.980	116.666	103.606	104.885
B 249.678	208.020	203.284	210.563
Ba 389.178	132.299	127.112	131.618
Be 313.042	53.0260	51.2239	52.9283
Ca 370.602	17611	17196	17595
Cd 226.502	53.0208	51.0850	53.1052
Co 228.615	53.4985	51.1999	53.2914
Cr 267.716	106.510	103.114	106.766
Cu 324.754	106.619	103.351	106.140
Fe 271.441	5025.02	4865.42	5019.29
K 766.491	5917.64	5767.55	5930.72
Mg 279.078	7270.58	7049.83	7283.67
Mn 257.610	633.444	615.573	628.349
Mo 202.032	102.805	100.902	103.663
Na 330.237	20960.5	20219.9	20889.8
Ni 231.604	103.663	99.8867	102.545
Pb 220.353	51.8992	49.4090	50.3439
Sb 206.834	50.7798	50.5624	51.8829
Se 196.026	90.2344	93.9764	90.4525
Sn 189.925	201.516	192.474	202.794
Sr 216.596	918.330	888.309	918.669
Ti 334.941	100.047	96.4916	99.9220
Tl 190.794	39.8057	36.7966	37.1665
V 292.401	101.579	98.2235	101.709
Zn 206.200	124.159	120.597	124.065

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	14.6745	ppb	0.4756	3.2	1252.91
Al 308.215	5099.41	ppb	111.149	2.2	14698.4
As 188.980	108.386	ppb	7.1998	6.6	90.6690
B 249.678	207.289	ppb	3.6942	1.8	3019.73
Ba 389.178	130.343	ppb	2.8190	2.2	3900.97
Be 313.042	52.3928	ppb	1.0134	1.9	121212
Ca 370.602	17467	ppb	235.3	1.3	73736
Cd 226.502	52.4037	ppb	1.1428	2.2	2634.87
Co 228.615	52.6633	ppb	1.2715	2.4	733.009
Cr 267.716	105.464	ppb	2.0385	1.9	4515.06
Cu 324.754	105.370	ppb	1.7652	1.7	6373.84
Fe 271.441	4969.91	ppb	90.5351	1.8	11445.9
K 766.491	5871.97	ppb	90.6662	1.5	254495
Mg 279.078	7201.36	ppb	131.395	1.8	20343.2
Mn 257.610	625.789	ppb	9.2067	1.5	65310.1
Mo 202.032	102.457	ppb	1.4131	1.4	997.369
Na 330.237	20690.1	ppb	408.676	2.0	1161.17
Ni 231.604	102.032	ppb	1.9400	1.9	371.507
Pb 220.353	50.5507	ppb	1.2579	2.5	123.797
Sb 206.834	51.0750	ppb	0.7081	1.4	68.5410
Se 196.026	91.5544	ppb	2.1003	2.3	62.0459
Sn 189.925	198.928	ppb	5.6254	2.8	212.407
Sr 216.596	908.436	ppb	17.4313	1.9	13283.5
Ti 334.941	98.8202	ppb	2.0176	2.0	32427.0
Tl 190.794	37.9229	ppb	1.6410	4.3	50.2755
V 292.401	100.504	ppb	1.9759	2.0	3443.15
Zn 206.200	122.941	ppb	2.0301	1.7	269.177

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

680-89265-a-1-c msd (Samp) 4/16/2013, 8:07:54 PM Rack 1, Tube 29

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	17.1731	16.9298	16.4439
Al 308.215	5140.76	5161.12	5119.36
As 188.980	106.558	110.450	102.728
B 249.678	207.520	211.415	210.530
Ba 389.178	131.684	130.232	130.066
Be 313.042	52.7946	52.8246	52.6810
Ca 370.602	17209	17227	17195
Cd 226.502	52.6060	52.4176	52.6849
Co 228.615	53.0488	52.9849	52.3022
Cr 267.716	106.228	106.575	106.352
Cu 324.754	106.164	106.624	106.556
Fe 271.441	5021.54	5029.99	5032.46
K 766.491	5936.05	5891.62	5864.90
Mg 279.078	7189.19	7184.64	7193.21
Mn 257.610	623.805	622.562	625.579
Mo 202.032	103.025	103.410	104.181
Na 330.237	20540.7	20526.6	20520.7
Ni 231.604	102.648	101.863	102.114
Pb 220.353	48.8793	50.2338	51.9035
Sb 206.834	47.4526	49.4939	42.8668
Se 196.026	95.1380	97.4101	100.529
Sn 189.925	206.525	201.905	202.942
Sr 216.596	893.055	893.696	893.892
Ti 334.941	99.8314	99.9524	99.5306
Tl 190.794	34.3388	37.5813	40.4456
V 292.401	101.343	101.075	101.469
Zn 206.200	256.993	256.217	256.214

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	16.8489	ppb	0.3713	2.2	1454.51
Al 308.215	5140.41	ppb	20.8847	0.4	14816.7
As 188.980	106.579	ppb	3.8612	3.6	89.1355
B 249.678	209.822	ppb	2.0416	1.0	3055.53
Ba 389.178	130.661	ppb	0.8901	0.7	3910.48
Be 313.042	52.7667	ppb	0.0757	0.1	122079
Ca 370.602	17211	ppb	15.91	0.1	72639
Cd 226.502	52.5695	ppb	0.1373	0.3	2643.33
Co 228.615	52.7786	ppb	0.4138	0.8	734.607
Cr 267.716	106.385	ppb	0.1762	0.2	4554.32
Cu 324.754	106.448	ppb	0.2486	0.2	6438.52
Fe 271.441	5028.00	ppb	5.7270	0.1	11579.6
K 766.491	5897.52	ppb	35.9411	0.6	255602
Mg 279.078	7189.01	ppb	4.2841	0.1	20308.3
Mn 257.610	623.982	ppb	1.5164	0.2	65121.8
Mo 202.032	103.539	ppb	0.5885	0.6	1007.79
Na 330.237	20529.3	ppb	10.2260	0.0	1150.89
Ni 231.604	102.208	ppb	0.4007	0.4	372.150
Pb 220.353	50.3389	ppb	1.5148	3.0	123.273
Sb 206.834	46.6044	ppb	3.3940	7.3	62.7346
Se 196.026	97.6924	ppb	2.7066	2.8	66.0583
Sn 189.925	203.790	ppb	2.4243	1.2	217.661
Sr 216.596	893.548	ppb	0.4380	0.0	13065.9
Ti 334.941	99.7715	ppb	0.2172	0.2	32739.7
Tl 190.794	37.4552	ppb	3.0554	8.2	49.6300
V 292.401	101.296	ppb	0.2013	0.2	3470.34
Zn 206.200	256.475	ppb	0.4492	0.2	533.243

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

mb 680-273054/1-a (Samp) 4/16/2013, 8:13:29 PM Rack 1, Tube 30

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0366	0.0033	0.2414
Al 308.215	0.7414	3.5247	6.2997
As 188.980	1.3570	8.1703	-3.2978u
B 249.678	6.8299	6.3002	5.9160
Ba 389.178	0.3285	0.1878	1.0031
Be 313.042	0.0275	0.0326	0.0319
Ca 370.602	13.27	14.62	15.94
Cd 226.502	0.0869	0.0592	0.0994
Co 228.615	-0.1748u	0.5591	0.8214
Cr 267.716	0.0040	-0.4460u	-0.2631u
Cu 324.754	0.1153	0.4558	-0.2930u
Fe 271.441	3.9071	7.7944	8.8445
K 766.491	8.0739	8.1147	8.0151
Mg 279.078	6.8825	8.6712	10.6696
Mn 257.610	0.2835	0.3801	0.4337
Mo 202.032	0.1170	-0.1326u	0.1595
Na 330.237	153.280	320.896	-105.147u
Ni 231.604	-0.9104u	-1.8659u	-0.3065u
Pb 220.353	1.7146	-0.4655u	1.5205
Sb 206.834	-2.3795u	-1.6011u	-1.6117u
Se 196.026	-2.9905u	-2.5227u	1.4548
Sn 189.925	4.6873	0.2890	1.6809
Sr 216.596	1.1621	0.9332	0.6912
Ti 334.941	0.1047	0.1151	0.1146
Tl 190.794	-2.6206u	-0.5538u	-5.1031u
V 292.401	-0.2894u	-0.1788u	-0.5728u
Zn 206.200	-2.9403u	-3.8710u	-2.3931u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0938	ppb	0.1289	137.4	-44.6107
Al 308.215	3.5219	ppb	2.7791	78.9	-6.7325
As 188.980	2.0765	ppb	5.7678	277.8	0.5922
B 249.678	6.3487	ppb	0.4589	7.2	179.655
Ba 389.178	0.5065	ppb	0.4358	86.0	0.9515
Be 313.042	0.0307	ppb	0.0028	9.0	-215.762
Ca 370.602	14.61	ppb	1.333	9.1	77.15
Cd 226.502	0.0818	ppb	0.0206	25.1	12.1846
Co 228.615	0.4019	ppb	0.5164	128.5	15.1769
Cr 267.716	-0.2350	ppb	0.2263	96.3	8.3043
Cu 324.754	0.0927	ppb	0.3749	404.5	56.1206
Fe 271.441	6.8486	ppb	2.6010	38.0	23.6419
K 766.491	8.0679	ppb	0.0501	0.6	615.678
Mg 279.078	8.7411	ppb	1.8945	21.7	54.6040
Mn 257.610	0.3658	ppb	0.0761	20.8	116.322
Mo 202.032	0.0479	ppb	0.1578	329.2	11.1877
Na 330.237	123.010	ppb	214.629	174.5	-6.5986
Ni 231.604	-1.0276	ppb	0.7863	76.5	-2.8737
Pb 220.353	0.9232	ppb	1.2066	130.7	1.7465
Sb 206.834	-1.8641	ppb	0.4464	23.9	-0.5566
Se 196.026	-1.3528	ppb	2.4427	180.6	1.1233
Sn 189.925	2.2191	ppb	2.2480	101.3	-0.1584
Sr 216.596	0.9288	ppb	0.2355	25.4	23.2285
Ti 334.941	0.1115	ppb	0.0059	5.3	-71.3966
Tl 190.794	-2.7592	ppb	2.2778	82.6	-3.7255
V 292.401	-0.3470	ppb	0.2032	58.6	-1.1533
Zn 206.200	-3.0681	ppb	0.7472	24.4	-2.9241

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ics 680-273054/2-a (Samp) 4/16/2013, 8:19:03 PM Rack 1, Tube 31

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	14.3252	13.6717	14.5878
Al 308.215	5065.11	5039.95	5080.39
As 188.980	97.6001	96.2989	103.074
B 249.678	190.382	192.414	194.965
Ba 389.178	103.212	103.920	104.559
Be 313.042	52.1018	52.1046	52.4760
Ca 370.602	4878	4867	4898
Cd 226.502	51.8976	52.1684	52.5646
Co 228.615	52.1866	53.0063	53.0615
Cr 267.716	105.151	104.638	106.028
Cu 324.754	104.203	104.774	105.624
Fe 271.441	4910.64	4916.44	4959.72
K 766.491	4913.99	4943.83	4984.29
Mg 279.078	4865.04	4869.77	4896.25
Mn 257.610	530.559	533.241	537.577
Mo 202.032	100.860	100.701	100.682
Na 330.237	5126.79	5038.23	4991.26
Ni 231.604	103.343	100.876	102.492
Pb 220.353	47.3020	48.4822	50.4254
Sb 206.834	47.8899	48.3041	44.7577
Se 196.026	93.9569	93.3121	93.6566
Sn 189.925	195.474	198.423	199.686
Sr 216.596	100.695	100.367	101.005
Ti 334.941	98.6175	98.6369	99.4002
Tl 190.794	40.1315	38.2564	39.2012
V 292.401	99.9279	100.132	101.126
Zn 206.200	135.474	136.246	137.200

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	14.1949	ppb	0.4718	3.3	1253.35
Al 308.215	5061.82	ppb	20.4211	0.4	14589.8
As 188.980	98.9911	ppb	3.5956	3.6	82.5729
B 249.678	192.587	ppb	2.2966	1.2	2811.47
Ba 389.178	103.897	ppb	0.6737	0.6	3105.61
Be 313.042	52.2275	ppb	0.2153	0.4	120826
Ca 370.602	4881	ppb	15.69	0.3	20265
Cd 226.502	52.2102	ppb	0.3355	0.6	2625.18
Co 228.615	52.7514	ppb	0.4900	0.9	734.306
Cr 267.716	105.273	ppb	0.7027	0.7	4506.33
Cu 324.754	104.867	ppb	0.7152	0.7	6343.60
Fe 271.441	4928.93	ppb	26.8235	0.5	11351.8
K 766.491	4947.37	ppb	35.2832	0.7	214464
Mg 279.078	4877.02	ppb	16.8178	0.3	13784.1
Mn 257.610	533.792	ppb	3.5412	0.7	55717.9
Mo 202.032	100.747	ppb	0.0977	0.1	980.901
Na 330.237	5052.09	ppb	68.8217	1.4	270.487
Ni 231.604	102.237	ppb	1.2529	1.2	372.252
Pb 220.353	48.7365	ppb	1.5772	3.2	119.303
Sb 206.834	46.9839	ppb	1.9390	4.1	63.2503
Se 196.026	93.6419	ppb	0.3226	0.3	63.3817
Sn 189.925	197.861	ppb	2.1612	1.1	211.240
Sr 216.596	100.689	ppb	0.3190	0.3	1477.23
Ti 334.941	98.8849	ppb	0.4464	0.5	32437.2
Tl 190.794	39.1964	ppb	0.9376	2.4	52.1943
V 292.401	100.395	ppb	0.6412	0.6	3440.06
Zn 206.200	136.307	ppb	0.8650	0.6	487.511

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

Icsd 680-273054/3-a (Samp) 4/16/2013, 8:24:39 PM Rack 1, Tube 32

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	16.7581	16.6819	17.1947
Al 308.215	5138.01	5198.75	5224.41
As 188.980	99.3127	105.295	107.351
B 249.678	196.272	198.769	200.542
Ba 389.178	104.323	105.796	106.468
Be 313.042	52.5464	53.2153	53.4814
Ca 370.602	4914	4977	4998
Cd 226.502	52.6290	53.4967	53.4758
Co 228.615	52.9549	52.9291	54.3715
Cr 267.716	106.066	107.647	108.278
Cu 324.754	104.633	107.316	106.662
Fe 271.441	4954.61	5017.44	5050.34
K 766.491	4944.25	5013.31	5048.19
Mg 279.078	4920.26	4983.56	5001.49
Mn 257.610	535.144	542.170	544.700
Mo 202.032	101.834	103.521	103.330
Na 330.237	5083.31	5155.63	5164.82
Ni 231.604	102.700	103.249	104.677
Pb 220.353	49.7867	52.0265	51.0044
Sb 206.834	50.9209	51.5055	46.0226
Se 196.026	93.5868	94.7455	98.2056
Sn 189.925	198.151	201.634	205.831
Sr 216.596	101.843	102.611	103.195
Ti 334.941	99.3909	100.655	101.310
Tl 190.794	37.1950	39.9076	39.7805
V 292.401	100.740	101.872	102.367
Zn 206.200	126.928	131.586	128.753

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	16.8782	ppb	0.2767	1.6	1500.71
Al 308.215	5187.06	ppb	44.3701	0.9	14951.2
As 188.980	103.986	ppb	4.1759	4.0	86.7998
B 249.678	198.528	ppb	2.1454	1.1	2895.54
Ba 389.178	105.529	ppb	1.0969	1.0	3154.67
Be 313.042	53.0810	ppb	0.4818	0.9	122805
Ca 370.602	4963	ppb	43.52	0.9	20605
Cd 226.502	53.2005	ppb	0.4950	0.9	2674.77
Co 228.615	53.4185	ppb	0.8254	1.5	743.433
Cr 267.716	107.330	ppb	1.1394	1.1	4594.05
Cu 324.754	106.204	ppb	1.3989	1.3	6423.85
Fe 271.441	5007.46	ppb	48.6371	1.0	11532.5
K 766.491	5001.92	ppb	52.8954	1.1	216826
Mg 279.078	4968.44	ppb	42.6772	0.9	14042.0
Mn 257.610	540.671	ppb	4.9512	0.9	56435.0
Mo 202.032	102.895	ppb	0.9236	0.9	1001.59
Na 330.237	5134.58	ppb	44.6442	0.9	275.212
Ni 231.604	103.542	ppb	1.0203	1.0	376.993
Pb 220.353	50.9392	ppb	1.1213	2.2	124.726
Sb 206.834	49.4830	ppb	3.0110	6.1	66.4932
Se 196.026	95.5126	ppb	2.4030	2.5	64.6069
Sn 189.925	201.872	ppb	3.8460	1.9	215.575
Sr 216.596	102.550	ppb	0.6778	0.7	1504.33
Ti 334.941	100.452	ppb	0.9757	1.0	32953.1
Tl 190.794	38.9610	ppb	1.5308	3.9	51.8520
V 292.401	101.660	ppb	0.8338	0.8	3483.00
Zn 206.200	129.089	ppb	2.3471	1.8	272.745

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

Ics 680-273054/4-a (Samp) 4/16/2013, 8:30:14 PM Rack 1, Tube 33

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	204.656	202.120	204.555
Al 308.215	2057.27	2046.08	2060.78
As 188.980	210.104	209.597	208.156
B 249.678	384.191	385.649	389.095
Ba 389.178	202.166	202.092	202.297
Be 313.042	209.007	208.746	209.304
Ca 370.602	19647	19617	19640
Cd 226.502	204.335	204.097	204.757
Co 228.615	206.624	209.552	207.724
Cr 267.716	211.404	210.912	211.117
Cu 324.754	213.052	209.457	213.069
Fe 271.441	20560.1	20516.9	20561.5
K 766.491	19581.7	19501.6	19736.5
Mg 279.078	19780.9	19766.0	19769.4
Mn 257.610	2101.26	2103.43	2105.20
Mo 202.032	203.046	202.017	202.966
Na 330.237	17448.9	17204.4	17360.5
Ni 231.604	206.797	204.188	202.947
Pb 220.353	198.330	196.793	196.343
Sb 206.834	193.604	192.814	191.505
Se 196.026	196.659	193.404	194.344
Sn 189.925	199.053	197.168	190.571
Sr 216.596	212.328	210.704	211.824
Ti 334.941	198.645	198.261	198.985
Tl 190.794	40.6948	39.4800	39.9282
V 292.401	199.448	199.541	200.079
Zn 206.200	216.317	215.858	215.977

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	203.777	ppb	1.4356	0.7	18732.0
Al 308.215	2054.71	ppb	7.6808	0.4	5921.69
As 188.980	209.286	ppb	1.0107	0.5	175.844
B 249.678	386.312	ppb	2.5183	0.7	5534.34
Ba 389.178	202.185	ppb	0.1040	0.1	6111.58
Be 313.042	209.019	ppb	0.2795	0.1	484462
Ca 370.602	19635	ppb	15.77	0.1	81340
Cd 226.502	204.396	ppb	0.3339	0.2	10257.7
Co 228.615	207.966	ppb	1.4787	0.7	2867.98
Cr 267.716	211.144	ppb	0.2473	0.1	9025.29
Cu 324.754	211.859	ppb	2.0804	1.0	12767.9
Fe 271.441	20546.2	ppb	25.3753	0.1	47289.2
K 766.491	19606.6	ppb	119.411	0.6	849139
Mg 279.078	19772.1	ppb	7.8240	0.0	55799.8
Mn 257.610	2103.30	ppb	1.9724	0.1	219318
Mo 202.032	202.676	ppb	0.5725	0.3	1961.76
Na 330.237	17337.9	ppb	123.790	0.7	963.494
Ni 231.604	204.644	ppb	1.9650	1.0	744.563
Pb 220.353	197.155	ppb	1.0421	0.5	485.241
Sb 206.834	192.641	ppb	1.0605	0.6	254.248
Se 196.026	194.802	ppb	1.6753	0.9	129.992
Sn 189.925	195.598	ppb	4.4539	2.3	208.809
Sr 216.596	211.619	ppb	0.8313	0.4	3101.69
Ti 334.941	198.630	ppb	0.3620	0.2	65319.1
Tl 190.794	40.0343	ppb	0.6143	1.5	49.2400
V 292.401	199.690	ppb	0.3406	0.2	6831.09
Zn 206.200	216.051	ppb	0.2384	0.1	459.156

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

Icsd 680-273054/5-a (Samp) 4/16/2013, 8:35:50 PM Rack 1, Tube 34

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	200.688	199.548	201.298
Al 308.215	2021.33	2016.20	2035.15
As 188.980	212.702	214.000	209.121
B 249.678	385.575	385.088	389.508
Ba 389.178	201.253	198.693	200.617
Be 313.042	206.796	205.769	207.117
Ca 370.602	19409	19317	19424
Cd 226.502	203.257	201.489	202.616
Co 228.615	203.658	202.496	204.412
Cr 267.716	207.840	207.274	209.799
Cu 324.754	208.922	207.825	209.063
Fe 271.441	20367.8	20269.7	20341.6
K 766.491	19496.2	19379.5	19294.0
Mg 279.078	19574.1	19470.0	19568.5
Mn 257.610	2097.01	2082.78	2079.60
Mo 202.032	200.919	198.467	200.202
Na 330.237	17137.4	16774.8	16886.8
Ni 231.604	202.287	202.363	201.907
Pb 220.353	197.174	191.915	197.686
Sb 206.834	192.137	189.301	187.458
Se 196.026	191.921	190.154	188.864
Sn 189.925	194.902	195.573	196.942
Sr 216.596	210.150	207.846	210.195
Ti 334.941	196.216	195.333	196.777
Tl 190.794	40.5276	37.8208	40.3182
V 292.401	197.973	196.464	197.447
Zn 206.200	212.829	208.060	207.855

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	200.511	ppb	0.8883	0.4	18431.0
Al 308.215	2024.23	ppb	9.7984	0.5	5833.60
As 188.980	211.941	ppb	2.5270	1.2	178.093
B 249.678	386.724	ppb	2.4236	0.6	5540.49
Ba 389.178	200.187	ppb	1.3329	0.7	6050.91
Be 313.042	206.561	ppb	0.7041	0.3	478760
Ca 370.602	19383	ppb	57.69	0.3	80295
Cd 226.502	202.454	ppb	0.8955	0.4	10160.2
Co 228.615	203.522	ppb	0.9652	0.5	2806.90
Cr 267.716	208.305	ppb	1.3251	0.6	8904.18
Cu 324.754	208.603	ppb	0.6780	0.3	12572.5
Fe 271.441	20326.4	ppb	50.7750	0.2	46783.1
K 766.491	19389.9	ppb	101.531	0.5	839759
Mg 279.078	19537.5	ppb	58.5484	0.3	55138.2
Mn 257.610	2086.46	ppb	9.2684	0.4	217563
Mo 202.032	199.863	ppb	1.2610	0.6	1934.67
Na 330.237	16933.0	ppb	185.679	1.1	940.577
Ni 231.604	202.186	ppb	0.2442	0.1	735.631
Pb 220.353	195.592	ppb	3.1942	1.6	481.391
Sb 206.834	189.632	ppb	2.3571	1.2	250.323
Se 196.026	190.313	ppb	1.5350	0.8	127.051
Sn 189.925	195.806	ppb	1.0398	0.5	209.034
Sr 216.596	209.397	ppb	1.3434	0.6	3069.23
Ti 334.941	196.109	ppb	0.7279	0.4	64488.6
Tl 190.794	39.5556	ppb	1.5060	3.8	48.6420
V 292.401	197.295	ppb	0.7657	0.4	6749.36
Zn 206.200	209.581	ppb	2.8144	1.3	436.936

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

680-89177-a-1-b (Samp) 4/16/2013, 8:41:26 PM Rack 1, Tube 35

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2120u	0.1787	0.1983
Al 308.215	129.134	123.892	122.986
As 188.980	6.1358	2.0423	1.6691
B 249.678	1663.75	1649.17	1582.49
Ba 389.178	27.3829	26.1764	26.6830
Be 313.042	0.2291	0.3133	0.3430
Ca 370.602	8369	8245	7917
Cd 226.502	40.4911	39.9643	38.0125
Co 228.615	2.3204	2.6916	2.7965
Cr 267.716	-0.0891	0.0828	0.4286
Cu 324.754	4.1214	4.4781	4.4632
Fe 271.441	31.9971	39.6794	46.5244
K 766.491	4764.62	4714.17	4485.30
Mg 279.078	117.555	130.847	130.923
Mn 257.610	3.7281	4.6804	4.6970
Mo 202.032	0.3422	0.5722	0.6082
Na 330.237	293100x	288981x	277848x
Ni 231.604	47.9831	48.3372	44.4238
Pb 220.353	1.0507	0.1927	1.4247
Sb 206.834	-4.0398u	-2.2459u	0.1029
Se 196.026	-0.4647u	-5.0471u	-3.3500u
Sn 189.925	-0.6412u	1.7495	1.3181
Sr 216.596	61.1895	60.8494	58.1346
Ti 334.941	0.4543	0.5884	0.6403
Tl 190.794	-2.6544u	-0.8874u	-1.4413u
V 292.401	-0.3046u	-0.0246u	0.1471
Zn 206.200	54.0310	52.9885	50.0910

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0550b	ppb	0.2314	420.8	-51.4672
Al 308.215	125.337b	ppb	3.3187	2.6	344.675
As 188.980	3.2824b	ppb	2.4781	75.5	1.7068
B 249.678	1631.80b	ppb	43.3210	2.7	23210.0
Ba 389.178	26.7475b	ppb	0.6058	2.3	782.719
Be 313.042	0.2951b	ppb	0.0591	20.0	361.994
Ca 370.602	8177b	ppb	233.7	2.9	34752
Cd 226.502	39.4893b	ppb	1.3058	3.3	1973.54
Co 228.615	2.6029b	ppb	0.2502	9.6	45.4507
Cr 267.716	0.1407b	ppb	0.2637	187.3	28.2943
Cu 324.754	4.3542b	ppb	0.2018	4.6	311.721
Fe 271.441	39.4003b	ppb	7.2677	18.4	98.9929
K 766.491	4654.70b	ppb	148.851	3.2	201793
Mg 279.078	126.442b	ppb	7.6962	6.1	386.715
Mn 257.610	4.3685b	ppb	0.5546	12.7	533.134
Mo 202.032	0.5075b	ppb	0.1443	28.4	15.6134
Na 330.237	286643xb	ppb	7890.46	2.8	16310.4
Ni 231.604	46.9147b	ppb	2.1645	4.6	171.219
Pb 220.353	0.8894b	ppb	0.6317	71.0	1.6589
Sb 206.834	-2.0610b	ppb	2.0775	100.8	-0.8123
Se 196.026	-2.9539b	ppb	2.3168	78.4	0.0780
Sn 189.925	0.8088b	ppb	1.2741	157.5	-1.5524
Sr 216.596	60.0578b	ppb	1.6743	2.8	887.376
Ti 334.941	0.5610b	ppb	0.0960	17.1	52.2244
Tl 190.794	-1.6610b	ppb	0.9037	54.4	-2.2346
V 292.401	-0.0607b	ppb	0.2280	375.7	5.8817
Zn 206.200	52.3702b	ppb	2.0415	3.9	416.290

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

680-89177-a-1-bSD^5 (Samp) **4/16/2013, 8:47:13 PM** **Rack 1, Tube 36****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2228u	-0.2381u	0.0102
Al 308.215	51.3134	54.9373	45.6325
As 188.980	0.5370	2.6636	3.8326
B 249.678	371.851	369.562	362.829
Ba 389.178	5.4837	5.7499	5.5705
Be 313.042	0.0027u	0.0134	0.0137
Ca 370.602	1730	1713	1692
Cd 226.502	8.1673	8.1293	8.1373
Co 228.615	0.4240	-0.0591u	1.1946
Cr 267.716	-0.3375u	-0.0538u	-0.2910u
Cu 324.754	0.7640	0.5058	0.4736
Fe 271.441	51.5285	40.3021	36.8092
K 766.491	849.999	844.068	834.127
Mg 279.078	24.7548	23.8209	21.7911
Mn 257.610	0.3696	0.5729	0.4992
Mo 202.032	-0.1652u	-0.1727u	-0.2351u
Na 330.237	56270.1	55317.6	54748.8
Ni 231.604	9.4663	9.8947	10.5932
Pb 220.353	0.8878	0.0237	0.4583
Sb 206.834	1.5219	0.3179	-1.4153u
Se 196.026	-3.6995u	1.8792	1.2392
Sn 189.925	1.1599	-0.5081u	1.8525
Sr 216.596	12.5016	12.7408	12.5432
Ti 334.941	0.0827	0.1273	0.1502
Tl 190.794	-3.7892u	-1.6103u	-1.1175u
V 292.401	-0.7456u	-0.3806u	-0.4266u
Zn 206.200	19.9922	21.3859	20.7133

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1502	ppb	0.1392	92.6	-67.7519
Al 308.215	50.6278	ppb	4.6901	9.3	129.129
As 188.980	2.3444	ppb	1.6708	71.3	0.8382
B 249.678	368.081	ppb	4.6896	1.3	5304.84
Ba 389.178	5.6013	ppb	0.1357	2.4	152.759
Be 313.042	0.0099	ppb	0.0063	63.2	-270.604
Ca 370.602	1712	ppb	19.27	1.1	7283
Cd 226.502	8.1446	ppb	0.0200	0.2	413.600
Co 228.615	0.5198	ppb	0.6323	121.6	16.8115
Cr 267.716	-0.2274	ppb	0.1522	66.9	9.3969
Cu 324.754	0.5811	ppb	0.1592	27.4	85.4192
Fe 271.441	42.8799	ppb	7.6908	17.9	106.528
K 766.491	842.731	ppb	8.0199	1.0	36752.7
Mg 279.078	23.4556	ppb	1.5152	6.5	96.1266
Mn 257.610	0.4806	ppb	0.1029	21.4	128.247
Mo 202.032	-0.1910	ppb	0.0384	20.1	8.8830
Na 330.237	55445.5	ppb	768.671	1.4	3143.83
Ni 231.604	9.9847	ppb	0.5688	5.7	37.1163
Pb 220.353	0.4566	ppb	0.4321	94.6	0.5960
Sb 206.834	0.1415	ppb	1.4765	1043.8	2.0569
Se 196.026	-0.1937	ppb	3.0529	1575.9	1.8809
Sn 189.925	0.8348	ppb	1.2134	145.4	-1.6291
Sr 216.596	12.5952	ppb	0.1278	1.0	193.734
Ti 334.941	0.1201	ppb	0.0343	28.6	-73.2848
Tl 190.794	-2.1723	ppb	1.4217	65.4	-2.9267
V 292.401	-0.5176	ppb	0.1988	38.4	-7.4965
Zn 206.200	20.6971	ppb	0.6970	3.4	51.5219

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

Cont Calib Verif (CCV) 4/16/2013, 8:52:49 PM Rack 1, Tube 37

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	504.190	511.413	505.854
Al 308.215	4928.82	4914.29	4962.97
As 188.980	486.129	473.329	479.994
B 249.678	518.391	521.850	521.148
Ba 389.178	5170.34	5164.47	5145.68
Be 313.042	518.021	516.515	515.683
Ca 370.602	4955	4953	4943
Cd 226.502	519.265	520.639	517.345
Co 228.615	521.042	519.768	515.590
Cr 267.716	5236.27	5239.00	5263.78
Cu 324.754	5280.20	5301.70	5303.08
Fe 271.441	5035.87	5028.95	5020.01
K 766.491	10131.0	10142.1	10092.6
Mg 279.078	4939.84	4948.50	4933.14
Mn 257.610	5309.18	5317.63	5214.83
Mo 202.032	497.929	501.383	498.040
Na 330.237	7279.50	7393.70	7209.10
Ni 231.604	2572.97	2582.92	2566.54
Pb 220.353	500.057	495.839	496.419
Sb 206.834	959.145	965.310	963.124
Se 196.026	4860.09	4885.51	4873.66
Sn 189.925	5019.53	5034.47	5025.49
Sr 216.596	2519.71	2526.90	2526.72
Ti 334.941	498.667	498.352	497.607
Tl 190.794	5061.16	5068.20	5044.78
V 292.401	4965.25	4959.71	4938.48
Zn 206.200	2619.08	2628.53	2614.43

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	507.152	ppb	3.7827	0.7	46621.9	101.43048
Al 308.215	4935.36	ppb	24.9923	0.5	14208.2	98.70723
As 188.980	479.817	ppb	6.4018	1.3	404.761	95.96343
B 249.678	520.463	ppb	1.8281	0.4	7456.79	20.81852Q
Ba 389.178	5160.16	ppb	12.8786	0.2	153669	103.20326
Be 313.042	516.740	ppb	1.1852	0.2	1197908	103.34795
Ca 370.602	4950	ppb	6.611	0.1	20879	99.00597
Cd 226.502	519.083	ppb	1.6547	0.3	25885.2	103.81657
Co 228.615	518.800	ppb	2.8522	0.5	7156.96	103.75999
Cr 267.716	5246.35	ppb	15.1553	0.3	223555	104.92698
Cu 324.754	5294.99	ppb	12.8279	0.2	317565	105.89981
Fe 271.441	5028.28	ppb	7.9510	0.2	11738.7	100.56554
K 766.491	10121.9	ppb	25.9973	0.3	438497	101.21882
Mg 279.078	4940.50	ppb	7.7013	0.2	13862.4	98.80995
Mn 257.610	5280.55	ppb	57.0664	1.1	550327	105.61092
Mo 202.032	499.117	ppb	1.9633	0.4	4807.22	99.82344
Na 330.237	7294.10	ppb	93.1603	1.3	374.214	97.25465
Ni 231.604	2574.14	ppb	8.2559	0.3	9348.42	102.96576
Pb 220.353	497.439	ppb	2.2863	0.5	1225.11	99.48772
Sb 206.834	962.527	ppb	3.1259	0.3	1318.79	96.25266
Se 196.026	4873.09	ppb	12.7224	0.3	3188.83	97.46172
Sn 189.925	5026.50	ppb	7.5217	0.1	5428.66	100.52995
Sr 216.596	2524.44	ppb	4.1006	0.2	36822.0	100.97772
Ti 334.941	498.209	ppb	0.5446	0.1	163757	99.64178
Tl 190.794	5058.04	ppb	12.0135	0.2	6899.09	101.16090
V 292.401	4954.48	ppb	14.1294	0.3	170250	99.08965
Zn 206.200	2620.68	ppb	7.1859	0.3	5347.04	104.82722

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

Cont Calib Blank (CCB) 4/16/2013, 8:58:23 PM Rack 1, Tube 38

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0762	-0.0548u	-0.4244u
Al 308.215	-3.2434u	-4.5175u	2.1560
As 188.980	1.9776	3.0351	4.2008
B 249.678	17.7996	16.4485	15.6151
Ba 389.178	0.4039	0.2054	1.5318
Be 313.042	-0.0067u	0.0010	0.0055
Ca 370.602	-2.210u	-1.149u	-4.683u
Cd 226.502	0.0732	0.0431	0.0919
Co 228.615	-0.5158u	-0.2240u	0.2914
Cr 267.716	-0.4610u	-0.2134u	-0.2836u
Cu 324.754	-0.0498u	-0.1094u	-0.1927u
Fe 271.441	-1.3858u	4.4503	-0.3854u
K 766.491	-0.4010u	0.7194	-0.0579u
Mg 279.078	-3.7669u	-3.1809u	-0.1284u
Mn 257.610	-0.1803u	-0.2063u	-0.0132u
Mo 202.032	0.1325	-0.1839u	0.6025
Na 330.237	-25.9491u	83.4247	180.291
Ni 231.604	0.3045	0.3482	-0.7701u
Pb 220.353	1.2431	-0.6748u	1.5938
Sb 206.834	-2.2070u	-0.5288u	7.2810
Se 196.026	-6.2556u	-6.2762u	-1.1499u
Sn 189.925	0.1565	1.1597	1.6166
Sr 216.596	-0.1005u	-0.3286u	-0.0605u
Ti 334.941	0.1557	0.1132	0.0961
Tl 190.794	0.7147	0.1877	0.4440
V 292.401	-0.5091u	-0.2994u	0.0180
Zn 206.200	-0.6792u	-3.8710u	-2.2390u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.1343	ppb	0.2596	193.3	-65.5725	-0.13432
Al 308.215	-1.8683	ppb	3.5429	189.6	-22.2783	-1.86830
As 188.980	3.0712	ppb	1.1120	36.2	1.4339	3.07119
B 249.678	16.6211	ppb	1.1024	6.6	325.208	16.62105
Ba 389.178	0.7137	ppb	0.7154	100.2	7.0717	0.71368
Be 313.042	-0.0001	ppb	0.0062	7774.2	-287.107	-0.00008
Ca 370.602	-2.681	ppb	1.814	67.7	4.331	-2.68079
Cd 226.502	0.0694	ppb	0.0246	35.5	11.5477	0.06941
Co 228.615	-0.1494	ppb	0.4087	273.5	7.5957	-0.14944
Cr 267.716	-0.3193	ppb	0.1276	40.0	4.7085	-0.31933
Cu 324.754	-0.1173	ppb	0.0718	61.2	43.5250	-0.11730
Fe 271.441	0.8930	ppb	3.1210	349.5	9.9146	0.89301
K 766.491	0.0868	ppb	0.5740	661.3	270.133	0.08680
Mg 279.078	-2.3587	ppb	1.9536	82.8	23.2825	-2.35874
Mn 257.610	-0.1333	ppb	0.1048	78.6	64.2853	-0.13325
Mo 202.032	0.1837	ppb	0.3957	215.4	12.4962	0.18372
Na 330.237	79.2557	ppb	103.183	130.2	-9.0938	79.25567
Ni 231.604	-0.0391	ppb	0.6334	1619.1	0.7157	-0.03912
Pb 220.353	0.7207	ppb	1.2212	169.4	1.2475	0.72072
Sb 206.834	1.5151	ppb	5.0635	334.2	3.8347	1.51507
Se 196.026	-4.5606	ppb	2.9537	64.8	-0.9735	-4.56058
Sn 189.925	0.9776	ppb	0.7469	76.4	-1.4998	0.97761
Sr 216.596	-0.1632	ppb	0.1446	88.6	7.2392	-0.16316
Ti 334.941	0.1217	ppb	0.0307	25.2	-68.1129	0.12167
Tl 190.794	0.4488	ppb	0.2636	58.7	0.6560	0.44878
V 292.401	-0.2635	ppb	0.2653	100.7	1.7128	-0.26350
Zn 206.200	-2.2631	ppb	1.5960	70.5	4.5703	-2.26307

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

680-89177-a-1-bPDS (Samp) **4/16/2013, 9:03:56 PM** **Rack 1, Tube 39****Weight: 1** **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	50.3438	49.9992	49.6757
Al 308.215	2176.84	2175.54	2154.90
As 188.980	2203.99	2203.31	2195.03
B 249.678	2587.93	2592.78	2619.84
Ba 389.178	2108.74	2098.75	2102.90
Be 313.042	52.4183	52.2624	52.2258
Ca 370.602	13161	13117	13095
Cd 226.502	90.5685	90.2430	90.6959
Co 228.615	525.008	519.290	527.334
Cr 267.716	211.213	211.382	209.715
Cu 324.754	269.295	269.861	270.378
Fe 271.441	1002.11	1001.45	1004.10
K 766.491	11099.3	11018.7	10958.4
Mg 279.078	5066.39	5047.87	5047.07
Mn 257.610	534.656	532.068	539.903
Mo 202.032	517.736	516.705	516.193
Na 330.237	291564x	290537x	291487x
Ni 231.604	567.016	562.314	562.857
Pb 220.353	493.400	488.409	487.651
Sb 206.834	497.929	498.020	487.915
Se 196.026	2010.53	1998.42	1994.78
Sn 189.925	1032.58	1020.88	1016.34
Sr 216.596	572.900	572.616	570.758
Ti 334.941	997.458	995.521	993.128
Tl 190.794	2012.00	2005.75	2005.25
V 292.401	499.582	498.940	499.417
Zn 206.200	594.931	588.361	591.662

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.0063b	ppb	0.3341	0.7	4531.14
Al 308.215	2169.09b	ppb	12.3070	0.6	6269.92
As 188.980	2200.78b	ppb	4.9916	0.2	1861.54
B 249.678	2600.18b	ppb	17.1968	0.7	36929.2
Ba 389.178	2103.47b	ppb	5.0158	0.2	62638.9
Be 313.042	52.3022b	ppb	0.1022	0.2	120864
Ca 370.602	13124b	ppb	33.34	0.3	55933
Cd 226.502	90.5024b	ppb	0.2336	0.3	4518.34
Co 228.615	523.878b	ppb	4.1393	0.8	7225.38
Cr 267.716	210.770b	ppb	0.9175	0.4	9003.11
Cu 324.754	269.845b	ppb	0.5417	0.2	16245.4
Fe 271.441	1002.55b	ppb	1.3794	0.1	2428.15
K 766.491	11025.5b	ppb	70.7156	0.6	477618
Mg 279.078	5053.78b	ppb	10.9338	0.2	14283.2
Mn 257.610	535.542b	ppb	3.9918	0.7	55895.4
Mo 202.032	516.878b	ppb	0.7858	0.2	4989.79
Na 330.237	291196xb	ppb	571.907	0.2	16556.3
Ni 231.604	564.062b	ppb	2.5726	0.5	2049.15
Pb 220.353	489.820b	ppb	3.1233	0.6	1204.48
Sb 206.834	494.621b	ppb	5.8080	1.2	639.305
Se 196.026	2001.24b	ppb	8.2458	0.4	1310.22
Sn 189.925	1023.27b	ppb	8.3820	0.8	1103.24
Sr 216.596	572.091b	ppb	1.1634	0.2	8334.23
Ti 334.941	995.369b	ppb	2.1687	0.2	327227
Tl 190.794	2007.67b	ppb	3.7641	0.2	2740.64
V 292.401	499.313b	ppb	0.3335	0.1	17093.5
Zn 206.200	591.651b	ppb	3.2854	0.6	1218.23

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

mb 680-273024/1-a (Samp) 4/16/2013, 9:09:30 PM Rack 1, Tube 40

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4178u	0.1934	-0.4306u
Al 308.215	0.4503	-0.8063u	-0.8095u
As 188.980	0.4416	-3.6639u	-0.6869u
B 249.678	53.6112	50.6008	46.5056
Ba 389.178	1.8543	1.5402	1.2022
Be 313.042	-0.0038u	0.0019	0.0022
Ca 370.602	1.229	-1.700u	5.687
Cd 226.502	0.0484	-0.0455u	0.2296
Co 228.615	-0.3829u	0.4643	0.4887
Cr 267.716	-0.1711u	-0.4098u	-0.1850u
Cu 324.754	-0.0776u	-0.1437u	-0.0907u
Fe 271.441	-1.4435u	3.5996	-0.9843u
K 766.491	3.8818	4.1497	3.5116
Mg 279.078	0.2041	4.2426	0.5998
Mn 257.610	0.0228	0.0367	-0.0384u
Mo 202.032	0.2034	0.7152	0.8166
Na 330.237	487.881	218.314	92.4615
Ni 231.604	-0.0296u	-0.7372u	0.8815
Pb 220.353	2.2675	1.8692	-0.4740u
Sb 206.834	3.4014	3.4072	0.7339
Se 196.026	0.5283	1.8453	-1.5487u
Sn 189.925	2.5122	2.4864	-0.7249u
Sr 216.596	-0.0999u	-0.1433u	0.0948
Ti 334.941	0.5178	0.4660	0.5961
Tl 190.794	2.0747	4.1624	2.3476
V 292.401	-0.1750u	-0.5833u	-0.5950u
Zn 206.200	-2.1999u	-1.1794u	-1.1659u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2184	ppb	0.3566	163.3	-73.3385
Al 308.215	-0.3885	ppb	0.7265	187.0	-17.9892
As 188.980	-1.3031	ppb	2.1210	162.8	-2.2685
B 249.678	50.2392	ppb	3.5666	7.1	801.530
Ba 389.178	1.5322	ppb	0.3261	21.3	31.4577
Be 313.042	0.0001	ppb	0.0034	3995.1	-286.790
Ca 370.602	1.739	ppb	3.719	213.9	23.25
Cd 226.502	0.0775	ppb	0.1399	180.5	11.9488
Co 228.615	0.1900	ppb	0.4963	261.2	12.2630
Cr 267.716	-0.2553	ppb	0.1340	52.5	7.4422
Cu 324.754	-0.1040	ppb	0.0350	33.7	44.3366
Fe 271.441	0.3906	ppb	2.7885	713.9	8.8099
K 766.491	3.8477	ppb	0.3204	8.3	432.963
Mg 279.078	1.6822	ppb	2.2262	132.3	34.6867
Mn 257.610	0.0070	ppb	0.0400	569.5	78.9119
Mo 202.032	0.5784	ppb	0.3287	56.8	16.2994
Na 330.237	266.219	ppb	202.015	75.9	1.5434
Ni 231.604	0.0383	ppb	0.8115	2121.5	0.9967
Pb 220.353	1.2209	ppb	1.4813	121.3	2.4790
Sb 206.834	2.5142	ppb	1.5417	61.3	5.1277
Se 196.026	0.2750	ppb	1.7111	622.3	2.1871
Sn 189.925	1.4246	ppb	1.8616	130.7	-1.0168
Sr 216.596	-0.0495	ppb	0.1268	256.5	8.8835
Ti 334.941	0.5266	ppb	0.0655	12.4	65.0584
Tl 190.794	2.8616	ppb	1.1348	39.7	3.9503
V 292.401	-0.4511	ppb	0.2391	53.0	-4.8068
Zn 206.200	-1.5150	ppb	0.5931	39.1	67.1005

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

Ics 680-273024/2-a (Samp) 4/16/2013, 9:15:05 PM Rack 1, Tube 41

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	47.4529	48.3396	48.9351
Al 308.215	5173.21	5184.60	5202.36
As 188.980	107.540	102.273	110.116
B 249.678	209.284	210.475	210.237
Ba 389.178	103.012	103.971	104.155
Be 313.042	51.9172	51.9540	52.1885
Ca 370.602	4866	4878	4893
Cd 226.502	52.8183	52.9027	53.3747
Co 228.615	53.8354	52.9101	53.3535
Cr 267.716	104.478	104.553	104.732
Cu 324.754	102.537	104.739	105.330
Fe 271.441	4973.70	4983.45	5007.10
K 766.491	5061.35	5103.63	5135.74
Mg 279.078	4930.12	4919.94	4955.10
Mn 257.610	535.554	536.011	540.464
Mo 202.032	100.435	99.6319	100.339
Na 330.237	5170.06	5184.40	5191.34
Ni 231.604	102.089	102.796	101.459
Pb 220.353	50.9116	51.2067	49.7343
Sb 206.834	49.0781	51.2158	51.7127
Se 196.026	95.3375	94.2650	87.7425
Sn 189.925	194.457	196.705	201.521
Sr 216.596	101.271	102.015	101.560
Ti 334.941	97.9966	98.3260	98.8473
Tl 190.794	41.6097	40.0994	39.6478
V 292.401	100.161	100.717	100.559
Zn 206.200	139.888	140.268	136.913

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	48.2426	ppb	0.7458	1.5	4391.83
Al 308.215	5186.72	ppb	14.6925	0.3	14950.1
As 188.980	106.643	ppb	3.9975	3.7	89.0490
B 249.678	209.999	ppb	0.6303	0.3	3058.09
Ba 389.178	103.712	ppb	0.6135	0.6	3100.44
Be 313.042	52.0199	ppb	0.1471	0.3	120344
Ca 370.602	4879	ppb	13.62	0.3	20251
Cd 226.502	53.0319	ppb	0.2999	0.6	2666.31
Co 228.615	53.3663	ppb	0.4628	0.9	742.767
Cr 267.716	104.588	ppb	0.1304	0.1	4477.16
Cu 324.754	104.202	ppb	1.4718	1.4	6303.72
Fe 271.441	4988.08	ppb	17.1779	0.3	11487.9
K 766.491	5100.24	ppb	37.3113	0.7	221083
Mg 279.078	4935.05	ppb	18.0946	0.4	13947.9
Mn 257.610	537.343	ppb	2.7128	0.5	56088.1
Mo 202.032	100.135	ppb	0.4385	0.4	974.998
Na 330.237	5181.93	ppb	10.8486	0.2	277.844
Ni 231.604	102.115	ppb	0.6687	0.7	371.808
Pb 220.353	50.6176	ppb	0.7790	1.5	123.935
Sb 206.834	50.6689	ppb	1.3999	2.8	68.0511
Se 196.026	92.4483	ppb	4.1105	4.4	62.6014
Sn 189.925	197.561	ppb	3.6090	1.8	210.916
Sr 216.596	101.615	ppb	0.3753	0.4	1490.81
Ti 334.941	98.3900	ppb	0.4290	0.4	32274.8
Tl 190.794	40.4523	ppb	1.0274	2.5	53.9062
V 292.401	100.479	ppb	0.2868	0.3	3442.99
Zn 206.200	139.023	ppb	1.8372	1.3	293.064

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

ics 680-273024/3-a (Samp) 4/16/2013, 9:20:39 PM Rack 1, Tube 42

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	206.988	205.585	202.722
Al 308.215	2060.10	2073.69	2075.65
As 188.980	215.329	217.934	217.553
B 249.678	395.261	396.007	398.687
Ba 389.178	203.010	202.592	203.592
Be 313.042	209.347	209.628	209.565
Ca 370.602	19689	19740	19725
Cd 226.502	207.276	206.941	207.451
Co 228.615	207.452	209.513	210.287
Cr 267.716	210.426	212.077	211.509
Cu 324.754	212.930	211.069	208.689
Fe 271.441	20693.3	20675.1	20685.5
K 766.491	20311.8	20192.0	20336.8
Mg 279.078	20067.7	20076.7	20107.0
Mn 257.610	2122.37	2105.47	2114.82
Mo 202.032	201.605	201.518	202.982
Na 330.237	17448.7	17514.8	17606.1
Ni 231.604	203.127	203.991	208.569
Pb 220.353	203.655	200.617	200.068
Sb 206.834	198.167	200.853	193.975
Se 196.026	192.238	188.358	192.372
Sn 189.925	199.985	201.858	202.318
Sr 216.596	213.868	212.920	214.073
Ti 334.941	197.944	198.512	198.412
Tl 190.794	41.7805	42.4157	43.4510
V 292.401	200.688	200.281	200.181
Zn 206.200	214.259	209.528	212.133

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	205.098	ppb	2.1743	1.1	18853.8
Al 308.215	2069.82	ppb	8.4680	0.4	5965.20
As 188.980	216.939	ppb	1.4069	0.6	182.321
B 249.678	396.652	ppb	1.8020	0.5	5680.65
Ba 389.178	203.065	ppb	0.5020	0.2	6139.12
Be 313.042	209.513	ppb	0.1479	0.1	485609
Ca 370.602	19718	ppb	26.22	0.1	81679
Cd 226.502	207.223	ppb	0.2592	0.1	10399.0
Co 228.615	209.084	ppb	1.4653	0.7	2883.38
Cr 267.716	211.337	ppb	0.8387	0.4	9033.53
Cu 324.754	210.896	ppb	2.1259	1.0	12710.2
Fe 271.441	20684.6	ppb	9.1272	0.0	47607.8
K 766.491	20280.2	ppb	77.3489	0.4	878304
Mg 279.078	20083.8	ppb	20.6217	0.1	56679.7
Mn 257.610	2114.22	ppb	8.4667	0.4	220457
Mo 202.032	202.035	ppb	0.8212	0.4	1955.57
Na 330.237	17523.2	ppb	79.0576	0.5	974.029
Ni 231.604	205.229	ppb	2.9243	1.4	746.691
Pb 220.353	201.447	ppb	1.9319	1.0	495.818
Sb 206.834	197.665	ppb	3.4665	1.8	260.806
Se 196.026	190.989	ppb	2.2800	1.2	127.501
Sn 189.925	201.387	ppb	1.2359	0.6	215.065
Sr 216.596	213.620	ppb	0.6153	0.3	3131.03
Ti 334.941	198.289	ppb	0.3030	0.2	65208.5
Tl 190.794	42.5491	ppb	0.8432	2.0	52.6558
V 292.401	200.383	ppb	0.2686	0.1	6855.18
Zn 206.200	211.973	ppb	2.3691	1.1	441.816

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

680-89313-b-1-b (Samp) 4/16/2013, 9:26:14 PM Rack 1, Tube 43

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0677	-0.2255u	0.5775
Al 308.215	144.842	144.282	146.628
As 188.980	-2.9237u	0.6797	1.9328
B 249.678	41.9513	41.7188	40.1979
Ba 389.178	12.4782	12.4886	11.9806
Be 313.042	0.0449	0.0629	0.0762
Ca 370.602	1961	1960	1954
Cd 226.502	-0.1103	-0.0816	-0.0209
Co 228.615	0.6772	-0.0203u	-0.1500u
Cr 267.716	-0.0167	0.1408	-0.2656u
Cu 324.754	4.4183	3.5476	3.5474
Fe 271.441	2306.24	2297.10	2291.30
K 766.491	2653.24	2643.06	2660.22
Mg 279.078	558.030	560.401	555.708
Mn 257.610	28.1815	28.3086	28.4437
Mo 202.032	0.5861	0.0591	-0.0007u
Na 330.237	14976.7	15146.9	15003.8
Ni 231.604	0.9306	0.3603	1.2084
Pb 220.353	1.8244	0.4969	0.7444
Sb 206.834	-0.7288u	1.2780	-1.3761u
Se 196.026	1.8410	-3.3550u	-2.5119u
Sn 189.925	-0.3756u	4.3496	3.8840
Sr 216.596	58.3111	57.7318	56.7864
Ti 334.941	2.0687	2.0732	2.2071
Tl 190.794	-3.2237u	-4.1350u	0.6615
V 292.401	0.1973	-0.1502u	0.1306
Zn 206.200	36.7312	38.5908	39.5339

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1399	ppb	0.4063	290.4	-43.3582
Al 308.215	145.251	ppb	1.2252	0.8	402.099
As 188.980	-0.1037	ppb	2.5212	2430.4	-1.2625
B 249.678	41.2893	ppb	0.9523	2.3	671.499
Ba 389.178	12.3158	ppb	0.2904	2.4	358.580
Be 313.042	0.0613	ppb	0.0157	25.6	-146.110
Ca 370.602	1959	ppb	3.605	0.2	8090
Cd 226.502	-0.0709	ppb	0.0456	64.3	11.8811
Co 228.615	0.1689	ppb	0.4449	263.3	11.9366
Cr 267.716	-0.0472	ppb	0.2049	434.6	17.1197
Cu 324.754	3.8378	ppb	0.5027	13.1	281.535
Fe 271.441	2298.21	ppb	7.5357	0.3	5291.46
K 766.491	2652.17	ppb	8.6305	0.3	115093
Mg 279.078	558.046	ppb	2.3470	0.4	1605.03
Mn 257.610	28.3113	ppb	0.1311	0.5	3032.46
Mo 202.032	0.2148	ppb	0.3229	150.3	12.6428
Na 330.237	15042.5	ppb	91.4541	0.6	841.956
Ni 231.604	0.8331	ppb	0.4324	51.9	3.9486
Pb 220.353	1.0219	ppb	0.7059	69.1	1.9928
Sb 206.834	-0.2756	ppb	1.3839	502.1	1.5721
Se 196.026	-1.3420	ppb	2.7886	207.8	1.1365
Sn 189.925	2.6193	ppb	2.6041	99.4	0.2816
Sr 216.596	57.6098	ppb	0.7697	1.3	853.076
Ti 334.941	2.1163	ppb	0.0787	3.7	589.852
Tl 190.794	-2.2324	ppb	2.5472	114.1	-3.2215
V 292.401	0.0592	ppb	0.1844	311.4	12.6965
Zn 206.200	38.2853	ppb	1.4261	3.7	874.888

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

680-89313-b-1-bSD^5 (Samp) **4/16/2013, 9:31:49 PM** **Rack 1, Tube 44****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	48.7869	48.4239	47.3297
Al 308.215	5246.64	5246.53	5271.46
As 188.980	108.648	109.949	105.600
B 249.678	225.153	225.930	226.374
Ba 389.178	115.921	115.531	115.179
Be 313.042	52.7269	52.7508	52.7074
Ca 370.602	6817	6816	6819
Cd 226.502	53.2089	53.4955	53.2262
Co 228.615	53.5103	52.5220	53.5537
Cr 267.716	105.663	105.394	105.495
Cu 324.754	111.149	110.466	110.071
Fe 271.441	7493.89	7492.53	7493.89
K 766.491	7912.36	7900.76	7868.01
Mg 279.078	5532.84	5523.52	5521.18
Mn 257.610	575.322	578.025	574.666
Mo 202.032	101.476	101.187	100.922
Na 330.237	19858.0	20052.1	19986.3
Ni 231.604	103.619	105.117	104.573
Pb 220.353	53.5075	53.5461	50.9648
Sb 206.834	51.3856	50.1426	50.4286
Se 196.026	108.709	93.4967	98.8970
Sn 189.925	202.090	200.629	201.264
Sr 216.596	158.080	157.945	157.879
Ti 334.941	100.427	100.356	102.539
Tl 190.794	38.7936	39.2252	41.9957
V 292.401	101.493	101.758	101.859
Zn 206.200	174.143	177.203	176.082

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	48.1802	ppb	0.7585	1.6	4383.06
Al 308.215	5254.88	ppb	14.3623	0.3	15146.8
As 188.980	108.066	ppb	2.2325	2.1	90.2403
B 249.678	225.819	ppb	0.6184	0.3	3278.73
Ba 389.178	115.543	ppb	0.3710	0.3	3459.26
Be 313.042	52.7284	ppb	0.0218	0.0	121986
Ca 370.602	6817	ppb	1.212	0.0	28216
Cd 226.502	53.3102	ppb	0.1607	0.3	2688.17
Co 228.615	53.1953	ppb	0.5836	1.1	740.366
Cr 267.716	105.517	ppb	0.1360	0.1	4517.63
Cu 324.754	110.562	ppb	0.5456	0.5	6686.06
Fe 271.441	7493.43	ppb	0.7865	0.0	17247.7
K 766.491	7893.71	ppb	23.0007	0.3	342027
Mg 279.078	5525.85	ppb	6.1672	0.1	15615.4
Mn 257.610	576.004	ppb	1.7804	0.3	60121.2
Mo 202.032	101.195	ppb	0.2773	0.3	985.040
Na 330.237	19965.5	ppb	98.6729	0.5	1118.61
Ni 231.604	104.436	ppb	0.7584	0.7	380.311
Pb 220.353	52.6728	ppb	1.4793	2.8	129.003
Sb 206.834	50.6523	ppb	0.6510	1.3	68.1050
Se 196.026	100.367	ppb	7.7118	7.7	67.7853
Sn 189.925	201.328	ppb	0.7327	0.4	214.994
Sr 216.596	157.968	ppb	0.1025	0.1	2315.91
Ti 334.941	101.107	ppb	1.2402	1.2	33170.7
Tl 190.794	40.0048	ppb	1.7376	4.3	53.0531
V 292.401	101.703	ppb	0.1892	0.2	3484.75
Zn 206.200	175.809	ppb	1.5483	0.9	368.286

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

680-89313-b-1-bPDS (Samp) **4/16/2013, 9:37:25 PM** **Rack 1, Tube 45****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	48.3247	47.6477	48.1516
Al 308.215	5358.02	5395.97	5396.66
As 188.980	112.916	110.072	107.912
B 249.678	229.366	230.274	231.221
Ba 389.178	116.277	116.976	117.693
Be 313.042	53.5592	53.6848	53.7212
Ca 370.602	6951	6953	6982
Cd 226.502	53.9926	53.9101	53.7737
Co 228.615	54.0322	55.3162	53.7207
Cr 267.716	106.986	108.257	108.403
Cu 324.754	112.161	110.968	111.354
Fe 271.441	7385.45	7402.89	7407.98
K 766.491	8013.11	8045.99	7996.78
Mg 279.078	5600.32	5630.34	5631.66
Mn 257.610	582.690	578.706	577.504
Mo 202.032	102.469	103.129	102.687
Na 330.237	20733.3	20667.6	20571.6
Ni 231.604	106.087	107.078	104.240
Pb 220.353	52.1820	53.9899	54.9092
Sb 206.834	51.0579	47.2266	46.9923
Se 196.026	101.664	104.832	94.8224
Sn 189.925	207.498	207.760	211.706
Sr 216.596	161.459	162.273	162.100
Ti 334.941	102.023	102.250	102.494
Tl 190.794	41.3097	41.7949	40.3337
V 292.401	102.895	103.005	102.557
Zn 206.200	148.799	152.845	152.347

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	48.0414	ppb	0.3517	0.7	4370.17
Al 308.215	5383.55	ppb	22.1147	0.4	15518.0
As 188.980	110.300	ppb	2.5099	2.3	92.1336
B 249.678	230.287	ppb	0.9276	0.4	3342.17
Ba 389.178	116.982	ppb	0.7080	0.6	3502.25
Be 313.042	53.6550	ppb	0.0850	0.2	124135
Ca 370.602	6962	ppb	17.49	0.3	28843
Cd 226.502	53.8921	ppb	0.1106	0.2	2716.85
Co 228.615	54.3564	ppb	0.8457	1.6	756.310
Cr 267.716	107.882	ppb	0.7790	0.7	4618.42
Cu 324.754	111.494	ppb	0.6086	0.5	6741.97
Fe 271.441	7398.78	ppb	11.8147	0.2	17030.3
K 766.491	8018.63	ppb	25.0638	0.3	347435
Mg 279.078	5620.77	ppb	17.7249	0.3	15883.1
Mn 257.610	579.634	ppb	2.7145	0.5	60499.5
Mo 202.032	102.762	ppb	0.3361	0.3	1000.14
Na 330.237	20657.5	ppb	81.3329	0.4	1158.26
Ni 231.604	105.802	ppb	1.4406	1.4	385.266
Pb 220.353	53.6937	ppb	1.3875	2.6	131.516
Sb 206.834	48.4256	ppb	2.2827	4.7	65.2070
Se 196.026	100.439	ppb	5.1159	5.1	67.8359
Sn 189.925	208.988	ppb	2.3579	1.1	223.271
Sr 216.596	161.944	ppb	0.4288	0.3	2373.89
Ti 334.941	102.256	ppb	0.2354	0.2	33548.7
Tl 190.794	41.1461	ppb	0.7442	1.8	54.5982
V 292.401	102.819	ppb	0.2335	0.2	3522.78
Zn 206.200	151.330	ppb	2.2061	1.5	318.223

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

680-89313-b-1-c ms (Samp) 4/16/2013, 9:43:01 PM Rack 1, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2137u	0.3485u	0.0932u
Al 308.215	5.3851	12.9485	12.6698
As 188.980	2.1085	-1.7188u	2.6033
B 249.678	22.2079	21.8858	20.8709
Ba 389.178	25.9889	27.0120	26.0259
Be 313.042	0.0002	0.0008	0.0031
Ca 370.602	12484	12454	12557
Cd 226.502	0.0223	-0.0897u	-0.0021u
Co 228.615	0.1039	0.0892	-0.2993u
Cr 267.716	-0.1891u	-0.0753u	-0.1671u
Cu 324.754	-0.0303u	-0.0658u	0.1861
Fe 271.441	15.1733	17.3040	16.3903
K 766.491	781.957	785.497	789.190
Mg 279.078	2283.61	2280.29	2293.90
Mn 257.610	86.2591	85.6311	85.7436
Mo 202.032	1.4453	0.9942	1.6814
Na 330.237	15595.0	15362.8	15528.6
Ni 231.604	-0.1936u	-0.3032u	2.2941
Pb 220.353	2.5052	1.6976	3.6193
Sb 206.834	4.0346	-0.3015u	1.1478
Se 196.026	-5.3311u	-2.0550u	-8.6567u
Sn 189.925	2.2313	0.7425	-1.4348u
Sr 216.596	790.028	792.005	798.855
Ti 334.941	0.0498	0.2050	0.1029
Tl 190.794	0.2693	-0.3039u	0.7893
V 292.401	-0.6907u	-0.5746u	-0.1347u
Zn 206.200	18.1821	17.9655	20.2421

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2185	ppb	0.1277	58.4	-77.1303
Al 308.215	10.3345	ppb	4.2885	41.5	13.0015
As 188.980	0.9977	ppb	2.3655	237.1	-0.1766
B 249.678	21.6548	ppb	0.6978	3.2	396.510
Ba 389.178	26.3423	ppb	0.5803	2.2	777.913
Be 313.042	0.0014	ppb	0.0016	114.9	-280.898
Ca 370.602	12498	ppb	53.23	0.4	53115
Cd 226.502	-0.0231	ppb	0.0589	254.4	6.9174
Co 228.615	-0.0354	ppb	0.2286	645.9	9.1162
Cr 267.716	-0.1438	ppb	0.0604	42.0	12.7517
Cu 324.754	0.0300	ppb	0.1364	454.3	52.4071
Fe 271.441	16.2892	ppb	1.0689	6.6	45.2399
K 766.491	785.548	ppb	3.6165	0.5	34276.9
Mg 279.078	2285.93	ppb	7.0972	0.3	6480.61
Mn 257.610	85.8780	ppb	0.3349	0.4	9032.69
Mo 202.032	1.3736	ppb	0.3492	25.4	23.9610
Na 330.237	15495.5	ppb	119.639	0.8	868.688
Ni 231.604	0.5991	ppb	1.4690	245.2	3.0337
Pb 220.353	2.6074	ppb	0.9650	37.0	5.9214
Sb 206.834	1.6270	ppb	2.2074	135.7	3.9609
Se 196.026	-5.3476	ppb	3.3009	61.7	-1.4599
Sn 189.925	0.5130	ppb	1.8438	359.4	-1.9883
Sr 216.596	793.629	ppb	4.6323	0.6	11609.6
Ti 334.941	0.1193	ppb	0.0789	66.1	-58.0244
Tl 190.794	0.2516	ppb	0.5468	217.4	0.2131
V 292.401	-0.4667	ppb	0.2933	62.8	-5.6958
Zn 206.200	18.7966	ppb	1.2565	6.7	47.6355

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

680-89313-b-1-d msd (Samp) 4/16/2013, 9:48:37 PM Rack 1, Tube 47

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0660u	-0.5337u	-0.1729u
Al 308.215	-0.5345u	-1.2191u	-1.0372u
As 188.980	-1.7205u	5.1462	-3.8422u
B 249.678	8.5142	8.7955	9.2254
Ba 389.178	48.4563	47.8912	48.8180
Be 313.042	-0.0104u	-0.0137u	-0.0138u
Ca 370.602	15419	15370	15510
Cd 226.502	-0.1519u	-0.2864u	-0.0536
Co 228.615	-0.1835u	0.0647	0.0545
Cr 267.716	-0.2770u	-0.0547	-0.0502
Cu 324.754	10.4407	10.8526	10.9312
Fe 271.441	906.654	908.275	912.479
K 766.491	1432.80	1410.56	1424.42
Mg 279.078	3015.08	3006.98	3029.58
Mn 257.610	523.804	520.593	522.779
Mo 202.032	0.9945	0.7224	0.5408
Na 330.237	15494.9	15457.8	15299.3
Ni 231.604	-0.4834u	-0.4185u	-0.2683u
Pb 220.353	-0.4751u	0.8514	1.4001
Sb 206.834	-1.6021u	-1.7050u	3.3561
Se 196.026	-1.3515u	-3.7355u	-1.6153u
Sn 189.925	1.1809	2.3068	3.0616
Sr 216.596	221.962	221.147	223.930
Ti 334.941	0.0903	0.0479	0.0127
Tl 190.794	-2.0595u	-3.5920u	-0.5730u
V 292.401	-0.6351u	-1.0037u	-0.7735u
Zn 206.200	-1.6223u	-0.3292u	-1.3150u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2135	ppb	0.3019	141.4	-82.5703
Al 308.215	-0.9303	ppb	0.3546	38.1	-19.5432
As 188.980	-0.1388	ppb	4.6983	3384.5	-1.1165
B 249.678	8.8450	ppb	0.3582	4.0	213.760
Ba 389.178	48.3885	ppb	0.4671	1.0	1438.40
Be 313.042	-0.0126	ppb	0.0019	15.4	-312.120
Ca 370.602	15433	ppb	70.69	0.5	65503
Cd 226.502	-0.1639	ppb	0.1169	71.3	2.7998
Co 228.615	-0.0214	ppb	0.1405	656.1	9.3042
Cr 267.716	-0.1273	ppb	0.1296	101.9	15.2991
Cu 324.754	10.7415	ppb	0.2635	2.5	695.098
Fe 271.441	909.136	ppb	3.0064	0.3	2097.89
K 766.491	1422.59	ppb	11.2334	0.8	61858.0
Mg 279.078	3017.21	ppb	11.4460	0.4	8535.76
Mn 257.610	522.392	ppb	1.6402	0.3	54520.2
Mo 202.032	0.7526	ppb	0.2284	30.3	17.9186
Na 330.237	15417.3	ppb	103.852	0.7	864.105
Ni 231.604	-0.3900	ppb	0.1104	28.3	-0.5327
Pb 220.353	0.5921	ppb	0.9641	162.8	1.0957
Sb 206.834	0.0164	ppb	2.8928	17688.7	1.9053
Se 196.026	-2.2341	ppb	1.3069	58.5	0.7149
Sn 189.925	2.1831	ppb	0.9465	43.4	-0.1822
Sr 216.596	222.346	ppb	1.4306	0.6	3261.68
Ti 334.941	0.0503	ppb	0.0388	77.2	-76.6952
Tl 190.794	-2.0748	ppb	1.5096	72.8	-3.8891
V 292.401	-0.8041	ppb	0.1862	23.2	-17.0996
Zn 206.200	-1.0889	ppb	0.6756	176.8	-459719

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

680-89265-e-1-b (Samp) 4/16/2013, 9:54:13 PM Rack 1, Tube 48

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2559	-0.2553u	0.2572
Al 308.215	9.6716	7.7940	10.6197
As 188.980	3.0726	1.5894	-0.4795u
B 249.678	7.2523	6.8585	7.8199
Ba 389.178	49.1531	49.2368	48.8350
Be 313.042	0.0093	0.0037	0.0114
Ca 370.602	15504	15492	15474
Cd 226.502	-0.0429	0.0072	-0.1186u
Co 228.615	0.2433	0.3671	0.2895
Cr 267.716	-0.3138u	-0.0529	-0.0653u
Cu 324.754	0.7143	1.0019	0.9791
Fe 271.441	929.123	923.150	920.085
K 766.491	1436.83	1425.82	1423.86
Mg 279.078	3024.66	3033.97	3025.65
Mn 257.610	520.412	523.901	522.897
Mo 202.032	0.1827	0.9755	0.9274
Na 330.237	15575.0	15368.2	15519.7
Ni 231.604	0.3779	0.9194	0.6597
Pb 220.353	1.6658	0.3488	-1.5499u
Sb 206.834	0.2211	1.0701	1.7926
Se 196.026	3.3193	-5.9998u	-3.0313u
Sn 189.925	0.9066	2.6958	3.7985
Sr 216.596	223.381	222.240	223.255
Ti 334.941	0.5925	0.0747	0.1364
Tl 190.794	-2.7158u	-0.2636u	-1.1384u
V 292.401	-0.4723u	-0.9732u	-0.5872u
Zn 206.200	12.6313	13.4979	13.2455

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0859	ppb	0.2955	343.9	-54.9915
Al 308.215	9.3618	ppb	1.4381	15.4	10.1552
As 188.980	1.3942	ppb	1.7841	128.0	0.1815
B 249.678	7.3102	ppb	0.4833	6.6	191.992
Ba 389.178	49.0750	ppb	0.2120	0.4	1458.90
Be 313.042	0.0081	ppb	0.0040	49.2	-264.066
Ca 370.602	15490	ppb	15.20	0.1	65742
Cd 226.502	-0.0514	ppb	0.0633	123.1	8.4530
Co 228.615	0.3000	ppb	0.0625	20.8	13.7238
Cr 267.716	-0.1440	ppb	0.1472	102.2	14.5920
Cu 324.754	0.8984	ppb	0.1599	17.8	104.790
Fe 271.441	924.119	ppb	4.5962	0.5	2132.40
K 766.491	1428.84	ppb	6.9923	0.5	62128.4
Mg 279.078	3028.09	ppb	5.1162	0.2	8566.46
Mn 257.610	522.404	ppb	1.7966	0.3	54521.4
Mo 202.032	0.6952	ppb	0.4445	63.9	17.3648
Na 330.237	15487.6	ppb	107.023	0.7	867.982
Ni 231.604	0.6523	ppb	0.2708	41.5	3.2529
Pb 220.353	0.1549	ppb	1.6166	1043.7	0.0177
Sb 206.834	1.0279	ppb	0.7866	76.5	3.2196
Se 196.026	-1.9040	ppb	4.7607	250.0	0.9309
Sn 189.925	2.4670	ppb	1.4594	59.2	0.1246
Sr 216.596	222.959	ppb	0.6259	0.3	3270.63
Ti 334.941	0.2678	ppb	0.2828	105.6	-5.1154
Tl 190.794	-1.3726	ppb	1.2428	90.5	-2.9323
V 292.401	-0.6776	ppb	0.2624	38.7	-12.7914
Zn 206.200	13.1249	ppb	0.4457	3.4	36.0374

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

Cont Calib Verif (CCV) 4/16/2013, 9:59:48 PM Rack 1, Tube 49

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	505.519	506.641	507.598
Al 308.215	4914.96	4858.41	4858.58
As 188.980	479.554	470.529	472.450
B 249.678	498.141	498.406	505.764
Ba 389.178	5158.46	5130.01	5138.41
Be 313.042	518.602	514.204	515.536
Ca 370.602	4946	4912	4929
Cd 226.502	516.541	513.988	517.526
Co 228.615	519.333	517.457	519.146
Cr 267.716	5231.17	5180.78	5186.43
Cu 324.754	5179.68	5315.66	5208.85
Fe 271.441	5023.88	5001.94	5028.47
K 766.491	10204.4	10187.5	10168.9
Mg 279.078	4929.74	4906.20	4933.14
Mn 257.610	5250.24	5277.75	5310.41
Mo 202.032	496.101	494.678	497.767
Na 330.237	7577.82	7018.55	7291.21
Ni 231.604	2572.30	2558.19	2574.18
Pb 220.353	498.552	492.292	494.592
Sb 206.834	957.107	952.563	964.504
Se 196.026	4893.61	4830.70	4862.47
Sn 189.925	5040.48	5011.19	4972.68
Sr 216.596	2521.62	2504.46	2512.23
Ti 334.941	498.198	494.616	495.788
Tl 190.794	5044.48	5022.18	5050.20
V 292.401	4949.50	4930.95	4949.03
Zn 206.200	2625.01	2599.73	2617.89

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	506.586	ppb	1.0405	0.2	46569.9	101.31718
Al 308.215	4877.32	ppb	32.5986	0.7	14040.8	97.54635
As 188.980	474.178	ppb	4.7541	1.0	399.988	94.83551
B 249.678	500.771	ppb	4.3265	0.9	7177.79	20.03082Q
Ba 389.178	5142.29	ppb	14.6167	0.3	153137	102.84580
Be 313.042	516.114	ppb	2.2554	0.4	1196458	103.22280
Ca 370.602	4929	ppb	17.10	0.3	20788	98.57841
Cd 226.502	516.018	ppb	1.8261	0.4	25732.5	103.20366
Co 228.615	518.645	ppb	1.0338	0.2	7154.90	103.72908
Cr 267.716	5199.46	ppb	27.6040	0.5	221557	103.98921
Cu 324.754	5234.73	ppb	71.5879	1.4	313951	104.69462
Fe 271.441	5018.09	ppb	14.1813	0.3	11714.7	100.36188
K 766.491	10186.9	ppb	17.7590	0.2	441313	101.86932
Mg 279.078	4923.03	ppb	14.6700	0.3	13813.4	98.46052
Mn 257.610	5279.46	ppb	30.1230	0.6	550214	105.58929
Mo 202.032	496.182	ppb	1.5459	0.3	4778.97	99.23640
Na 330.237	7295.86	ppb	279.662	3.8	374.359	97.27815
Ni 231.604	2568.22	ppb	8.7395	0.3	9326.93	102.72897
Pb 220.353	495.145	ppb	3.1663	0.6	1219.46	99.02901
Sb 206.834	958.058	ppb	6.0271	0.6	1312.76	95.80581
Se 196.026	4862.26	ppb	31.4595	0.6	3181.75	97.24522
Sn 189.925	5008.11	ppb	34.0039	0.7	5408.80	100.16228
Sr 216.596	2512.77	ppb	8.5924	0.3	36651.7	100.51070
Ti 334.941	496.201	ppb	1.8260	0.4	163097	99.24012
Tl 190.794	5038.95	ppb	14.8071	0.3	6873.04	100.77905
V 292.401	4943.16	ppb	10.5771	0.2	169862	98.86322
Zn 206.200	2614.21	ppb	13.0357	0.5	5323.89	104.56837

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

Cont Calib Blank (CCB) 4/16/2013, 10:05:22 PM Rack 1, Tube 50

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3043	-0.2891u	0.4256
Al 308.215	1.7443	-2.7301u	-2.8057u
As 188.980	1.5734	-0.3745u	-0.8461u
B 249.678	11.2757	9.8609	8.4654
Ba 389.178	0.7801	0.4959	1.3600
Be 313.042	0.0073	0.0122	0.0046
Ca 370.602	-0.1717u	-0.1142u	-4.436u
Cd 226.502	0.0552	0.1211	0.1968
Co 228.615	-0.1708u	0.0673	0.3716
Cr 267.716	-0.2336u	0.1518	-0.3670u
Cu 324.754	-0.3830u	-0.0631u	0.0535
Fe 271.441	-0.1947u	1.4574	3.1746
K 766.491	-0.1838u	1.6060	0.6126
Mg 279.078	-1.0105u	-0.1793u	-2.9033u
Mn 257.610	-0.0508u	0.0861	-0.0988u
Mo 202.032	0.6652	0.6093	-0.0013u
Na 330.237	132.133	-102.303u	373.491
Ni 231.604	-0.6509u	0.6493	-0.1342u
Pb 220.353	2.4620	2.1836	1.3599
Sb 206.834	2.5894	1.0930	0.1721
Se 196.026	0.2029	4.0729	-4.2548u
Sn 189.925	1.7211	2.4753	0.8230
Sr 216.596	-0.4951u	0.6432	0.9517
Ti 334.941	0.1242	0.1391	0.0700
Tl 190.794	2.5259	1.4837	0.3669
V 292.401	-0.1345u	-0.0836u	-0.0118u
Zn 206.200	-1.9864u	-1.5684u	-1.0396u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1470	ppb	0.3824	260.2	-39.6648	0.14697
Al 308.215	-1.2638	ppb	2.6054	206.2	-20.5216	-1.26383
As 188.980	0.1176	ppb	1.2826	1091.0	-1.0661	0.11756
B 249.678	9.8674	ppb	1.4052	14.2	229.517	9.86735
Ba 389.178	0.8787	ppb	0.4404	50.1	11.9899	0.87867
Be 313.042	0.0081	ppb	0.0039	47.8	-268.266	0.00807
Ca 370.602	-1.574	ppb	2.478	157.5	8.971	-1.57384
Cd 226.502	0.1244	ppb	0.0709	57.0	14.2884	0.12438
Co 228.615	0.0894	ppb	0.2719	304.2	10.8705	0.08938
Cr 267.716	-0.1496	ppb	0.2694	180.1	11.9400	-0.14961
Cu 324.754	-0.1309	ppb	0.2260	172.7	42.7158	-0.13089
Fe 271.441	1.4791	ppb	1.6848	113.9	11.3209	1.47914
K 766.491	0.6783	ppb	0.8967	132.2	295.741	0.67826
Mg 279.078	-1.3644	ppb	1.3960	102.3	26.0870	-1.36438
Mn 257.610	-0.0212	ppb	0.0960	453.4	75.9676	-0.02117
Mo 202.032	0.4244	ppb	0.3697	87.1	14.8147	0.42440
Na 330.237	134.440	ppb	237.905	177.0	-5.9570	134.44002
Ni 231.604	-0.0453	ppb	0.6546	1446.1	0.6934	-0.04527
Pb 220.353	2.0018	ppb	0.5731	28.6	4.4038	2.00183
Sb 206.834	1.2848	ppb	1.2200	95.0	3.5328	1.28481
Se 196.026	0.0070	ppb	4.1673	59544.2	2.0120	0.00700
Sn 189.925	1.6732	ppb	0.8272	49.4	-0.7482	1.67316
Sr 216.596	0.3666	ppb	0.7620	207.9	14.9668	0.36661
Ti 334.941	0.1111	ppb	0.0364	32.8	-71.5918	0.11109
Tl 190.794	1.4588	ppb	1.0797	74.0	2.0351	1.45883
V 292.401	-0.0766	ppb	0.0616	80.4	8.0931	-0.07663
Zn 206.200	-1.5315	ppb	0.4745	311.0	-6.0661	-1.53146

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

680-89124-d-1-c (Samp) 4/16/2013, 10:10:56 PM Rack 1, Tube 51

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3853u	-0.1919u	-0.4665u
Al 308.215	2.3671	6.3060	1.0772
As 188.980	-5.1833u	1.0063	-2.5146u
B 249.678	2.2589	2.5023	0.5822
Ba 389.178	0.7058	-0.3344u	0.7470
Be 313.042	0.0131	0.0061	0.0349
Ca 370.602	4.708	3.405	-1.416u
Cd 226.502	0.0064	-0.0066u	0.1272
Co 228.615	0.5370	0.0952	0.5238
Cr 267.716	0.0710	0.0611	0.2645
Cu 324.754	0.0855	0.1256	-0.1881u
Fe 271.441	7.9837	4.2674	10.7402
K 766.491	1.8782	2.9444	1.9386
Mg 279.078	3.3610	2.0823	-2.2376u
Mn 257.610	0.0437	0.0761	0.1653
Mo 202.032	0.0281	0.1419	0.2129
Na 330.237	257.489	-52.1825u	112.388
Ni 231.604	-0.1905u	-0.2589u	0.3995
Pb 220.353	1.0685	2.3240	0.9637
Sb 206.834	-0.1531u	-1.1906u	-0.4051u
Se 196.026	-1.2052u	-0.2992u	2.2217
Sn 189.925	1.2707	0.0428	0.5452
Sr 216.596	-0.1746u	0.3260	0.0976
Ti 334.941	0.1029	0.0996	0.1921
Tl 190.794	-3.8033u	-0.4123u	0.0189
V 292.401	-0.2199u	0.1867	0.0128
Zn 206.200	31.6664	30.9900	25.8499

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3479	ppb	0.1410	40.5	-85.2640
Al 308.215	3.2501	ppb	2.7239	83.8	-7.5184
As 188.980	-2.2305	ppb	3.1045	139.2	-3.0535
B 249.678	1.7811	ppb	1.0454	58.7	114.938
Ba 389.178	0.3728	ppb	0.6128	164.4	-3.0536
Be 313.042	0.0180	ppb	0.0150	83.3	-245.068
Ca 370.602	2.233	ppb	3.226	144.5	24.48
Cd 226.502	0.0424	ppb	0.0738	174.1	10.2218
Co 228.615	0.3853	ppb	0.2513	65.2	14.9518
Cr 267.716	0.1322	ppb	0.1147	86.7	23.9490
Cu 324.754	0.0077	ppb	0.1707	2225.3	51.0184
Fe 271.441	7.6638	ppb	3.2482	42.4	25.4701
K 766.491	2.2537	ppb	0.5989	26.6	363.950
Mg 279.078	1.0686	ppb	2.9338	274.5	32.9524
Mn 257.610	0.0951	ppb	0.0629	66.2	88.0928
Mo 202.032	0.1276	ppb	0.0932	73.0	11.9543
Na 330.237	105.898	ppb	154.938	146.3	-7.8430
Ni 231.604	-0.0166	ppb	0.3620	2176.7	0.7976
Pb 220.353	1.4520	ppb	0.7569	52.1	3.0497
Sb 206.834	-0.5830	ppb	0.5411	92.8	1.1119
Se 196.026	0.2391	ppb	1.7757	742.7	2.1637
Sn 189.925	0.6196	ppb	0.6173	99.6	-1.8867
Sr 216.596	0.0830	ppb	0.2506	302.0	10.8411
Ti 334.941	0.1315	ppb	0.0525	39.9	-64.8512
Tl 190.794	-1.3989	ppb	2.0934	149.6	-1.8677
V 292.401	-0.0068	ppb	0.2040	3008.8	10.5478
Zn 206.200	29.5021	ppb	3.1810	10.8	69.5267

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

680-89124-d-2-c (Samp) 4/16/2013, 10:16:30 PM Rack 1, Tube 52

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0953u	-0.3648u	-0.2968u
Al 308.215	5.1668	5.9040	11.9799
As 188.980	-1.9957u	-0.7247u	2.1146
B 249.678	30.8836	32.2684	32.0414
Ba 389.178	21.1575	20.2089	20.5819
Be 313.042	-0.0092u	-0.0050	-0.0049
Ca 370.602	42938	43084	43399
Cd 226.502	0.0361	-0.0436u	0.0380
Co 228.615	-0.2679u	-0.0213u	0.1804
Cr 267.716	-0.1519u	0.2769	0.1851
Cu 324.754	0.1276	0.4066	0.8135
Fe 271.441	310.642	313.717	316.198
K 766.491	1325.19	1327.61	1328.42
Mg 279.078	7305.82	7342.90	7394.10
Mn 257.610	447.608	449.829	449.921
Mo 202.032	0.7398	0.6849	1.0365
Na 330.237	40833.8	41024.1	41288.9
Ni 231.604	1.3468	1.5648	1.1407
Pb 220.353	1.0006	1.0443	1.2184
Sb 206.834	0.4451	-1.0669u	-1.1360u
Se 196.026	0.0778	-2.1571u	-1.9513u
Sn 189.925	-0.8318u	0.9678	1.9101
Sr 216.596	549.405	551.158	552.775
Ti 334.941	0.0321	0.0395	0.1509
Tl 190.794	-4.2996u	-0.8698u	0.0592u
V 292.401	0.0617	-0.3681u	-0.3516u
Zn 206.200	20.3084	21.5281	21.5519

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1888	ppb	0.2483	131.6	-98.8300
Al 308.215	7.6836	ppb	3.7390	48.7	5.3202
As 188.980	-0.2020	ppb	2.1044	1042.0	-0.8425
B 249.678	31.7311	ppb	0.7427	2.3	538.860
Ba 389.178	20.6494	ppb	0.4779	2.3	626.026
Be 313.042	-0.0063	ppb	0.0024	38.6	-289.482
Ca 370.602	43140	ppb	235.2	0.5	183277
Cd 226.502	0.0102	ppb	0.0466	457.7	9.4409
Co 228.615	-0.0363	ppb	0.2245	619.2	9.1128
Cr 267.716	0.1034	ppb	0.2258	218.4	25.1358
Cu 324.754	0.4492	ppb	0.3449	76.8	77.6336
Fe 271.441	313.519	ppb	2.7831	0.9	728.617
K 766.491	1327.08	ppb	1.6829	0.1	57722.6
Mg 279.078	7347.61	ppb	44.3317	0.6	20760.4
Mn 257.610	449.119	ppb	1.3098	0.3	46896.0
Mo 202.032	0.8204	ppb	0.1891	23.1	18.6103
Na 330.237	41048.9	ppb	228.569	0.6	2323.85
Ni 231.604	1.3508	ppb	0.2121	15.7	5.7719
Pb 220.353	1.0877	ppb	0.1152	10.6	2.2954
Sb 206.834	-0.5859	ppb	0.8935	152.5	1.1018
Se 196.026	-1.3435	ppb	1.2352	91.9	1.2767
Sn 189.925	0.6820	ppb	1.3932	204.3	-1.7778
Sr 216.596	551.113	ppb	1.6856	0.3	8069.79
Ti 334.941	0.0742	ppb	0.0665	89.7	-48.1030
Tl 190.794	-1.7034	ppb	2.2959	134.8	-3.2111
V 292.401	-0.2193	ppb	0.2436	111.0	2.7780
Zn 206.200	21.1294	ppb	0.7112	3.4	52.4057

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

680-89124-d-3-c (Samp) 4/16/2013, 10:22:04 PM Rack 1, Tube 53

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6152u	0.0301u	0.2804u
Al 308.215	22.7627	16.8339	15.9223
As 188.980	6.4251	0.3064	3.6052
B 249.678	5.5873	5.6488	5.5319
Ba 389.178	48.0952	47.4965	47.6346
Be 313.042	-0.0047u	-0.0001	-0.0058u
Ca 370.602	17442	17439	17440
Cd 226.502	0.0194	0.0316	-0.0535u
Co 228.615	0.1108	0.5782	0.8655
Cr 267.716	-0.2362u	-0.2693u	-0.1704u
Cu 324.754	0.5199	0.9236	0.7608
Fe 271.441	220.914	219.176	222.200
K 766.491	782.303	786.604	784.914
Mg 279.078	2436.76	2439.07	2438.39
Mn 257.610	447.848	448.668	449.807
Mo 202.032	0.7589	1.0225	1.0040
Na 330.237	7876.15	8011.81	7948.68
Ni 231.604	-0.3255u	-0.6821u	0.0699
Pb 220.353	1.6980	1.1160	1.3497
Sb 206.834	4.2893	2.6018	1.0063
Se 196.026	3.7692	-0.8013u	-7.1545u
Sn 189.925	3.5454	0.6060	2.9212
Sr 216.596	584.076	583.565	583.143
Ti 334.941	0.2032	0.1349	0.1606
Tl 190.794	-2.2172u	-1.5503u	-0.3608u
V 292.401	-0.8397u	-0.7066u	-0.4144u
Zn 206.200	25.5788	26.5504	26.9250

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1016	ppb	0.4621	454.9	-92.3609
Al 308.215	18.5063	ppb	3.7142	20.1	36.5539
As 188.980	3.4456	ppb	3.0625	88.9	1.9488
B 249.678	5.5893	ppb	0.0585	1.0	168.597
Ba 389.178	47.7421	ppb	0.3135	0.7	1415.94
Be 313.042	-0.0036	ppb	0.0030	85.3	-289.276
Ca 370.602	17440	ppb	1.827	0.0	74103
Cd 226.502	-0.0009	ppb	0.0460	5321.8	8.7430
Co 228.615	0.5182	ppb	0.3809	73.5	16.7367
Cr 267.716	-0.2253	ppb	0.0504	22.3	10.6185
Cu 324.754	0.7348	ppb	0.2031	27.6	94.7373
Fe 271.441	220.763	ppb	1.5176	0.7	515.408
K 766.491	784.607	ppb	2.1665	0.3	34236.2
Mg 279.078	2438.07	ppb	1.1847	0.0	6902.23
Mn 257.610	448.774	ppb	0.9839	0.2	46846.9
Mo 202.032	0.9285	ppb	0.1472	15.9	19.6587
Na 330.237	7945.55	ppb	67.8831	0.9	438.586
Ni 231.604	-0.3126	ppb	0.3762	120.4	-0.2709
Pb 220.353	1.3879	ppb	0.2929	21.1	3.0345
Sb 206.834	2.6325	ppb	1.6418	62.4	5.2788
Se 196.026	-1.3955	ppb	5.4861	393.1	1.2430
Sn 189.925	2.3575	ppb	1.5487	65.7	0.0041
Sr 216.596	583.595	ppb	0.4672	0.1	8540.93
Ti 334.941	0.1662	ppb	0.0345	20.8	-41.1248
Tl 190.794	-1.3761	ppb	0.9404	68.3	-2.7586
V 292.401	-0.6536	ppb	0.2176	33.3	-11.9811
Zn 206.200	26.3514	ppb	0.6948	2.6	63.0848

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

680-89124-d-4-e (Samp) 4/16/2013, 10:27:39 PM Rack 1, Tube 54

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1254	-0.3583u	-0.3062u
Al 308.215	11.6736	9.9316	7.2929
As 188.980	-0.8147u	1.7772	0.8136
B 249.678	5.7559	6.4908	5.9300
Ba 389.178	24.9142	25.3167	26.0409
Be 313.042	0.0668	0.0906	0.1004
Ca 370.602	19828	19834	19837
Cd 226.502	0.0785	0.2016	0.0273
Co 228.615	0.6388	0.1262	0.8034
Cr 267.716	0.3667	0.5127	0.7057
Cu 324.754	1.0916	0.7151	0.3488
Fe 271.441	1808.56	1816.17	1820.27
K 766.491	1070.46	1078.86	1078.90
Mg 279.078	5339.29	5347.70	5345.54
Mn 257.610	458.955	459.803	459.070
Mo 202.032	0.2838	0.0134	0.3244
Na 330.237	10807.8	10630.3	10500.9
Ni 231.604	4.1244	4.3841	5.4214
Pb 220.353	1.4088	0.7697	2.2083
Sb 206.834	-1.7530u	1.3378	-0.6677u
Se 196.026	-5.4770u	3.9878	0.7153
Sn 189.925	0.5166	3.6378	4.9602
Sr 216.596	186.503	187.085	186.024
Ti 334.941	0.0905	0.2134	0.1874
Tl 190.794	2.6458	-3.7409u	0.9149
V 292.401	0.2820	0.4556	0.5566
Zn 206.200	23.4726	21.7817	21.3394

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1797	ppb	0.2655	147.7	-77.6348
Al 308.215	9.6327	ppb	2.2056	22.9	10.8839
As 188.980	0.5920	ppb	1.3101	221.3	-0.4606
B 249.678	6.0589	ppb	0.3840	6.3	173.010
Ba 389.178	25.4239	ppb	0.5710	2.2	764.134
Be 313.042	0.0860	ppb	0.0173	20.1	-81.0468
Ca 370.602	19833	ppb	4.714	0.0	84095
Cd 226.502	0.1025	ppb	0.0896	87.5	19.0707
Co 228.615	0.5228	ppb	0.3532	67.6	16.7778
Cr 267.716	0.5284	ppb	0.1700	32.2	43.1323
Cu 324.754	0.7185	ppb	0.3714	51.7	94.2805
Fe 271.441	1815.00	ppb	5.9403	0.3	4180.64
K 766.491	1076.08	ppb	4.8639	0.5	46855.5
Mg 279.078	5344.18	ppb	4.3686	0.1	15105.5
Mn 257.610	459.276	ppb	0.4601	0.1	47950.8
Mo 202.032	0.2072	ppb	0.1690	81.6	12.6003
Na 330.237	10646.3	ppb	154.081	1.4	591.903
Ni 231.604	4.6433	ppb	0.6862	14.8	17.7706
Pb 220.353	1.4623	ppb	0.7208	49.3	3.2222
Sb 206.834	-0.3610	ppb	1.5681	434.4	1.4584
Se 196.026	-0.2580	ppb	4.8069	1863.4	1.9872
Sn 189.925	3.0382	ppb	2.2817	75.1	0.7420
Sr 216.596	186.537	ppb	0.5315	0.3	2739.38
Ti 334.941	0.1638	ppb	0.0647	39.5	-26.4689
Tl 190.794	-0.0601	ppb	3.3031	5499.4	-1.0882
V 292.401	0.4314	ppb	0.1389	32.2	25.6322
Zn 206.200	22.1979	ppb	1.1259	5.1	54.5892

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

680-89171-d-1-b (Samp) 4/16/2013, 10:33:14 PM Rack 1, Tube 55

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7460u	-0.4809u	-0.2028u
Al 308.215	73.3409	73.5479	71.3595
As 188.980	-1.1781u	1.7258	3.9580
B 249.678	25.3413	25.6255	24.7210
Ba 389.178	26.9997	27.5137	26.0494
Be 313.042	-0.0042u	-0.0100u	-0.0011u
Ca 370.602	10656	10679	10629
Cd 226.502	0.0669	-0.0254u	-0.0638u
Co 228.615	-0.1161u	0.6049	0.2857
Cr 267.716	-0.2535u	-0.4673u	-0.0258u
Cu 324.754	1.4437	1.8068	1.3176
Fe 271.441	160.230	161.745	160.114
K 766.491	1785.41	1779.74	1786.66
Mg 279.078	2543.87	2536.99	2534.58
Mn 257.610	72.9387	72.5803	72.5833
Mo 202.032	0.6430	0.5986	0.7211
Na 330.237	25259.3	25198.2	24953.5
Ni 231.604	0.2445	-0.8961u	0.4127
Pb 220.353	0.8648	2.5923	1.9218
Sb 206.834	-5.0925u	2.1561	4.1257
Se 196.026	3.2597	-3.0338u	-3.6382u
Sn 189.925	-0.2810u	-2.2111u	1.4634
Sr 216.596	89.2702	89.1688	90.4191
Ti 334.941	1.2295	1.3171	1.2697
Tl 190.794	-2.7526u	-3.8372u	-2.3406u
V 292.401	-0.1897u	-0.3108u	-0.2571u
Zn 206.200	25.5507	26.3867	26.2803

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4766	ppb	0.2716	57.0	-101.773
Al 308.215	72.7494	ppb	1.2082	1.7	192.990
As 188.980	1.5019	ppb	2.5753	171.5	0.2266
B 249.678	25.2292	ppb	0.4625	1.8	446.954
Ba 389.178	26.8543	ppb	0.7429	2.8	794.261
Be 313.042	-0.0051	ppb	0.0045	88.6	-297.915
Ca 370.602	10655	ppb	24.60	0.2	45267
Cd 226.502	-0.0074	ppb	0.0672	903.8	8.1017
Co 228.615	0.2582	ppb	0.3613	139.9	13.2137
Cr 267.716	-0.2489	ppb	0.2208	88.7	8.4009
Cu 324.754	1.5227	ppb	0.2540	16.7	141.953
Fe 271.441	160.696	ppb	0.9101	0.6	377.355
K 766.491	1783.94	ppb	3.6851	0.2	77502.5
Mg 279.078	2538.48	ppb	4.8206	0.2	7193.76
Mn 257.610	72.7008	ppb	0.2060	0.3	7660.44
Mo 202.032	0.6543	ppb	0.0620	9.5	17.0194
Na 330.237	25137.0	ppb	161.785	0.6	1417.66
Ni 231.604	-0.0796	ppb	0.7121	894.1	0.5732
Pb 220.353	1.7930	ppb	0.8709	48.6	3.9093
Sb 206.834	0.3965	ppb	4.8545	1224.5	2.3757
Se 196.026	-1.1374	ppb	3.8200	335.8	1.2875
Sn 189.925	-0.3429	ppb	1.8380	536.0	-2.9099
Sr 216.596	89.6194	ppb	0.6944	0.8	1320.88
Ti 334.941	1.2721	ppb	0.0439	3.4	321.611
Tl 190.794	-2.9768	ppb	0.7731	26.0	-4.1786
V 292.401	-0.2526	ppb	0.0607	24.0	1.8069
Zn 206.200	26.0725	ppb	0.4551	1.7	625149

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

680-89208-d-1-b (Samp) 4/16/2013, 10:38:49 PM Rack 1, Tube 56

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7884u	-0.8886u	-0.3668u
Al 308.215	43.0314	41.3615	41.7337
As 188.980	0.3213	-3.1855u	0.6664
B 249.678	14.2135	13.7105	14.4355
Ba 389.178	13.9517	15.5003	14.7257
Be 313.042	-0.0023u	-0.0066u	-0.0090u
Ca 370.602	1992	2009	2006
Cd 226.502	-0.2651u	-0.0405u	0.0625
Co 228.615	-0.0919u	-0.0924u	0.0476
Cr 267.716	-0.0907u	-0.2281u	-0.0414u
Cu 324.754	0.3841	-0.3600u	-0.1617u
Fe 271.441	454.096	459.535	454.875
K 766.491	3276.00	3298.77	3320.04
Mg 279.078	804.378	811.042	807.258
Mn 257.610	16.6248	16.6829	16.8421
Mo 202.032	0.1159	0.1694	-0.5268u
Na 330.237	16891.3	17215.1	17021.7
Ni 231.604	-1.1381u	0.2193	0.1200
Pb 220.353	0.8458	-0.8792u	0.9535
Sb 206.834	-4.4972u	-0.0151u	-5.4954u
Se 196.026	-5.4877u	-5.8773u	1.9299
Sn 189.925	3.6457	0.8945	-0.7443u
Sr 216.596	80.7500	82.1828	81.4027
Ti 334.941	0.1859	0.2056	0.1652
Tl 190.794	-0.4138u	-2.1685u	0.4334
V 292.401	-0.0790u	-0.3746u	-0.4113u
Zn 206.200	37.8341	39.2477	37.3988

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6813	ppb	0.2769	40.6	-120.490
Al 308.215	42.0422	ppb	0.8767	2.1	104.367
As 188.980	-0.7326	ppb	2.1313	290.9	-1.7686
B 249.678	14.1198	ppb	0.3715	2.6	289.138
Ba 389.178	14.7259	ppb	0.7743	5.3	427.838
Be 313.042	-0.0060	ppb	0.0034	56.4	-302.496
Ca 370.602	2002	ppb	9.037	0.5	8474
Cd 226.502	-0.0810	ppb	0.1675	206.7	5.4173
Co 228.615	-0.0455	ppb	0.0807	177.1	9.0180
Cr 267.716	-0.1200	ppb	0.0968	80.6	13.6145
Cu 324.754	-0.0458	ppb	0.3853	840.6	47.9641
Fe 271.441	456.169	ppb	2.9411	0.6	1056.62
K 766.491	3298.27	ppb	22.0215	0.7	143066
Mg 279.078	807.559	ppb	3.3422	0.4	2309.17
Mn 257.610	16.7166	ppb	0.1125	0.7	1822.70
Mo 202.032	-0.0805	ppb	0.3874	481.1	9.9199
Na 330.237	17042.7	ppb	162.886	1.0	956.498
Ni 231.604	-0.2663	ppb	0.7566	284.2	-0.0961
Pb 220.353	0.3067	ppb	1.0284	335.3	0.2320
Sb 206.834	-3.3359	ppb	2.9189	87.5	-2.4555
Se 196.026	-3.1450	ppb	4.3993	139.9	-0.0434
Sn 189.925	1.2653	ppb	2.2184	175.3	-1.1805
Sr 216.596	81.4452	ppb	0.7173	0.9	1200.44
Ti 334.941	0.1856	ppb	0.0202	10.9	-44.1702
Tl 190.794	-0.7163	ppb	1.3271	185.3	-1.0000
V 292.401	-0.2883	ppb	0.1822	63.2	0.7754
Zn 206.200	38.1602	ppb	0.9666	2.5	87.2333

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

680-89208-e-2-e (Samp) 4/16/2013, 10:44:25 PM Rack 1, Tube 57

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2536	0.2621	0.1865
Al 308.215	263.718	264.670	268.129
As 188.980	1.0912	2.7056	-3.0653u
B 249.678	14.6386	15.2482	14.4050
Ba 389.178	8.5446	8.5034	8.6354
Be 313.042	-0.0050u	-0.0131u	-0.0003u
Ca 370.602	2516	2538	2553
Cd 226.502	0.0464	0.2049	0.2235
Co 228.615	0.2945	0.1835	-0.1008u
Cr 267.716	-0.0445u	-0.2939u	-0.6036u
Cu 324.754	0.2646	0.0140	0.6412
Fe 271.441	1661.79	1662.79	1686.46
K 766.491	2141.57	2139.09	2140.09
Mg 279.078	547.008	558.004	562.160
Mn 257.610	54.1919	54.1543	54.3237
Mo 202.032	-0.0060u	0.0005u	-0.9995u
Na 330.237	30113.3	29935.4	30282.3
Ni 231.604	-1.3616u	-0.8430u	0.8938
Pb 220.353	1.3488	0.7151	2.8732
Sb 206.834	3.4225	-0.3443u	3.1557
Se 196.026	-4.8664u	-6.6447u	-2.5421u
Sn 189.925	1.5870	3.2680	-0.7305u
Sr 216.596	49.2297	50.5719	50.9907
Ti 334.941	0.2231	0.3352	0.2132
Tl 190.794	-2.3557u	-1.2305u	-2.1832u
V 292.401	-0.2827u	-0.1983u	-0.5628u
Zn 206.200	52.8418	52.8164	52.3265

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2341	ppb	0.0414	17.7	-34.1392
Al 308.215	265.506	ppb	2.3211	0.9	748.927
As 188.980	0.2438	ppb	2.9773	1221.0	-0.9527
B 249.678	14.7639	ppb	0.4353	2.9	296.554
Ba 389.178	8.5611	ppb	0.0675	0.8	245.630
Be 313.042	-0.0061	ppb	0.0064	104.8	-304.190
Ca 370.602	2536	ppb	18.61	0.7	10609
Cd 226.502	0.1582	ppb	0.0973	61.5	21.1642
Co 228.615	0.1258	ppb	0.2039	162.1	11.3443
Cr 267.716	-0.3140	ppb	0.2801	89.2	5.9412
Cu 324.754	0.3066	ppb	0.3157	103.0	69.5171
Fe 271.441	1670.34	ppb	13.9667	0.8	3848.01
K 766.491	2140.25	ppb	1.2487	0.1	92929.3
Mg 279.078	555.724	ppb	7.8294	1.4	1597.73
Mn 257.610	54.2233	ppb	0.0890	0.2	5731.67
Mo 202.032	-0.3350	ppb	0.5755	171.8	7.3877
Na 330.237	30110.3	ppb	173.508	0.6	1700.19
Ni 231.604	-0.4369	ppb	1.1813	270.4	-0.6809
Pb 220.353	1.6457	ppb	1.1093	67.4	3.5385
Sb 206.834	2.0780	ppb	2.1020	101.2	4.6251
Se 196.026	-4.6844	ppb	2.0574	43.9	-1.0389
Sn 189.925	1.3748	ppb	2.0077	146.0	-1.0562
Sr 216.596	50.2641	ppb	0.9200	1.8	745.520
Ti 334.941	0.2572	ppb	0.0678	26.4	-22.9425
Tl 190.794	-1.9231	ppb	0.6060	31.5	-2.8071
V 292.401	-0.3480	ppb	0.1908	54.8	-1.3055
Zn 206.200	52.6616	ppb	0.2994	0.6	416.888

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

680-89313-b-2-a (Samp) 4/16/2013, 10:50:00 PM Rack 1, Tube 58

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3977	-0.2682u	0.3398
Al 308.215	57.5749	51.1836	51.3418
As 188.980	-0.3022u	1.1619	-4.5065u
B 249.678	2.4697	3.3661	3.0504
Ba 389.178	2.3625	2.5511	2.0769
Be 313.042	-0.0182u	-0.0195u	-0.0187u
Ca 370.602	518.4	522.6	522.8
Cd 226.502	0.0026	-0.1155u	0.0023
Co 228.615	-0.0045u	0.1683	0.0439
Cr 267.716	-0.3257u	-0.2177u	-0.0904u
Cu 324.754	0.0754	0.0556	0.6576
Fe 271.441	347.139	347.915	350.540
K 766.491	423.910	423.673	424.704
Mg 279.078	113.836	110.736	116.291
Mn 257.610	11.0294	10.9874	11.0682
Mo 202.032	-0.0942u	0.1985	-0.5624u
Na 330.237	6317.42	5971.71	6044.30
Ni 231.604	0.3411	-0.4260u	-1.2713u
Pb 220.353	1.5123	0.0092	-1.0912u
Sb 206.834	1.6597	2.3809	-1.6123u
Se 196.026	-4.4887u	0.8181	1.4909
Sn 189.925	1.5847	-0.9716u	-0.2834u
Sr 216.596	10.1703	9.7041	10.1681
Ti 334.941	0.1014	0.0738	0.0351
Tl 190.794	-3.6565u	-0.6179u	-3.8312u
V 292.401	-0.3105u	-0.5349u	-0.6223u
Zn 206.200	29.9052	30.5851	29.6679

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1565	ppb	0.3689	235.8	-39.2780
Al 308.215	53.3668	ppb	3.6452	6.8	137.019
As 188.980	-1.2156	ppb	2.9425	242.1	-2.1930
B 249.678	2.9621	ppb	0.4547	15.4	131.192
Ba 389.178	2.3302	ppb	0.2388	10.2	56.2197
Be 313.042	-0.0188	ppb	0.0006	3.4	-331.076
Ca 370.602	521.3	ppb	2.475	0.5	2193
Cd 226.502	-0.0368	ppb	0.0681	184.9	7.3367
Co 228.615	0.0692	ppb	0.0891	128.8	10.6048
Cr 267.716	-0.2113	ppb	0.1178	55.7	9.5223
Cu 324.754	0.2628	ppb	0.3420	130.1	66.4331
Fe 271.441	348.531	ppb	1.7826	0.5	809.168
K 766.491	424.096	ppb	0.5399	0.1	18627.7
Mg 279.078	113.621	ppb	2.7834	2.4	350.484
Mn 257.610	11.0283	ppb	0.0404	0.4	1228.04
Mo 202.032	-0.1527	ppb	0.3838	251.4	9.2321
Na 330.237	6111.14	ppb	182.290	3.0	334.043
Ni 231.604	-0.4520	ppb	0.8065	178.4	-0.7737
Pb 220.353	0.1434	ppb	1.3069	911.1	-0.1719
Sb 206.834	0.8094	ppb	2.1280	262.9	2.9342
Se 196.026	-0.7266	ppb	3.2754	450.8	1.5356
Sn 189.925	0.1099	ppb	1.3228	1203.9	-2.4345
Sr 216.596	10.0141	ppb	0.2685	2.7	156.272
Ti 334.941	0.0701	ppb	0.0333	47.6	-84.9353
Tl 190.794	-2.7019	ppb	1.8069	66.9	-3.6922
V 292.401	-0.4892	ppb	0.1608	32.9	-5.9955
Zn 206.200	30.0527	ppb	0.4761	181.6	70.6544

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

680-89313-b-3-a (Samp) **4/16/2013, 10:55:36 PM** **Rack 1, Tube 59****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	43.1546	42.7846	42.9754
Al 308.215	2003.63	2006.63	2014.75
As 188.980	1861.09	1859.18	1872.56
B 249.678	995.347	1000.07	1007.47
Ba 389.178	1808.22	1804.58	1804.08
Be 313.042	44.9295	44.8044	44.8287
Ca 370.602	7544	7523	7533
Cd 226.502	45.5490	45.5558	45.6899
Co 228.615	459.572	459.033	457.497
Cr 267.716	182.211	182.543	183.817
Cu 324.754	231.817	230.504	231.214
Fe 271.441	2524.19	2521.64	2508.04
K 766.491	7579.09	7583.52	7568.51
Mg 279.078	5622.08	5620.87	5632.72
Mn 257.610	523.130	522.030	518.137
Mo 202.032	515.775	516.320	521.557
Na 330.237	35562.1	35292.2	35076.6
Ni 231.604	449.608	454.251	450.947
Pb 220.353	431.313	432.264	427.906
Sb 206.834	420.795	418.111	418.116
Se 196.026	1709.85	1694.18	1692.61
Sn 189.925	1031.63	1030.52	1048.12
Sr 216.596	566.449	566.615	568.717
Ti 334.941	1000.50	999.003	1000.07
Tl 190.794	1788.48	1790.02	1783.90
V 292.401	431.096	431.367	430.669
Zn 206.200	547.777	544.894	546.929

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	42.9715	ppb	0.1850	0.4	3882.39
Al 308.215	2008.34	ppb	5.7536	0.3	5806.89
As 188.980	1864.28	ppb	7.2352	0.4	1576.64
B 249.678	1000.96	ppb	6.1084	0.6	14268.3
Ba 389.178	1805.62	ppb	2.2593	0.1	53775.3
Be 313.042	44.8542	ppb	0.0663	0.1	103625
Ca 370.602	7533	ppb	10.50	0.1	32017
Cd 226.502	45.5982	ppb	0.0794	0.2	2287.91
Co 228.615	458.701	ppb	1.0766	0.2	6328.94
Cr 267.716	182.857	ppb	0.8479	0.5	7811.07
Cu 324.754	231.179	ppb	0.6571	0.3	13927.9
Fe 271.441	2517.96	ppb	8.6836	0.3	5897.16
K 766.491	7577.04	ppb	7.7099	0.1	328317
Mg 279.078	5625.22	ppb	6.5197	0.1	15897.0
Mn 257.610	521.099	ppb	2.6230	0.5	54394.3
Mo 202.032	517.884	ppb	3.1929	0.6	4999.56
Na 330.237	35310.3	ppb	243.242	0.7	1983.30
Ni 231.604	451.602	ppb	2.3901	0.5	1640.82
Pb 220.353	430.494	ppb	2.2916	0.5	1058.32
Sb 206.834	419.007	ppb	1.5484	0.4	540.602
Se 196.026	1698.88	ppb	9.5358	0.6	1112.59
Sn 189.925	1036.75	ppb	9.8564	1.0	1117.69
Sr 216.596	567.260	ppb	1.2643	0.2	8266.26
Ti 334.941	999.857	ppb	0.7707	0.1	328728
Tl 190.794	1787.47	ppb	3.1809	0.2	2439.81
V 292.401	431.044	ppb	0.3517	0.1	14745.0
Zn 206.200	546.534	ppb	1.4819	0.3	4126.08

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

680-89313-b-3-b ms (Samp) 4/16/2013, 11:01:13 PM Rack 1, Tube 60

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	46.7694	45.9255	45.7672
Al 308.215	5393.98	5387.43	5414.12
As 188.980	106.170	104.186	105.143
B 249.678	224.271	224.735	225.007
Ba 389.178	113.267	113.015	114.356
Be 313.042	52.9442	52.9231	52.9942
Ca 370.602	7541	7526	7565
Cd 226.502	53.0914	53.2176	53.5375
Co 228.615	53.3999	53.9707	53.2740
Cr 267.716	105.568	105.471	105.881
Cu 324.754	106.987	106.002	106.702
Fe 271.441	6738.64	6724.29	6728.61
K 766.491	7577.35	7499.18	7538.31
Mg 279.078	5537.35	5550.87	5570.90
Mn 257.610	596.774	599.603	598.302
Mo 202.032	101.277	102.175	102.135
Na 330.237	37072.8	36711.8	36890.0
Ni 231.604	104.028	103.498	105.000
Pb 220.353	52.2426	51.9915	49.0786
Sb 206.834	44.5034	55.6965	48.3361
Se 196.026	104.242	99.4823	97.1565
Sn 189.925	202.773	199.081	205.255
Sr 216.596	154.341	155.061	155.911
Ti 334.941	99.5776	99.2534	99.4908
Tl 190.794	38.6816	38.7427	38.8918
V 292.401	100.918	100.723	101.490
Zn 206.200	164.668	164.262	167.173

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	46.1541	ppb	0.5388	1.2	4196.68
Al 308.215	5398.51	ppb	13.9092	0.3	15561.1
As 188.980	105.166	ppb	0.9923	0.9	87.8052
B 249.678	224.671	ppb	0.3719	0.2	3263.53
Ba 389.178	113.546	ppb	0.7128	0.6	3398.47
Be 313.042	52.9539	ppb	0.0365	0.1	122507
Ca 370.602	7544	ppb	20.03	0.3	31387
Cd 226.502	53.2822	ppb	0.2299	0.4	2684.19
Co 228.615	53.5482	ppb	0.3713	0.7	745.177
Cr 267.716	105.640	ppb	0.2139	0.2	4523.06
Cu 324.754	106.563	ppb	0.5070	0.5	6446.00
Fe 271.441	6730.52	ppb	7.3625	0.1	15493.7
K 766.491	7538.28	ppb	39.0845	0.5	326639
Mg 279.078	5553.04	ppb	16.8782	0.3	15691.3
Mn 257.610	598.227	ppb	1.4157	0.2	62435.8
Mo 202.032	101.862	ppb	0.5071	0.5	991.524
Na 330.237	36891.5	ppb	180.499	0.5	2082.92
Ni 231.604	104.176	ppb	0.7617	0.7	379.342
Pb 220.353	51.1042	ppb	1.7587	3.4	125.145
Sb 206.834	49.5120	ppb	5.6885	11.5	66.5946
Se 196.026	100.293	ppb	3.6115	3.6	67.7469
Sn 189.925	202.370	ppb	3.1066	1.5	216.128
Sr 216.596	155.104	ppb	0.7863	0.5	2273.74
Ti 334.941	99.4406	ppb	0.1678	0.2	32621.1
Tl 190.794	38.7720	ppb	0.1081	0.3	51.3671
V 292.401	101.044	ppb	0.3985	0.4	3461.79
Zn 206.200	165.368	ppb	1.5764	1.0	346.935

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

Cont Calib Verif (CCV) 4/16/2013, 11:06:48 PM Rack 2, Tube 1

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	494.367	496.843	505.022
Al 308.215	4871.65	4809.49	4827.13
As 188.980	476.045	468.915	469.858
B 249.678	498.010	502.020	507.606
Ba 389.178	5120.78	5110.88	5135.11
Be 313.042	514.187	512.336	514.269
Ca 370.602	4930	4915	4944
Cd 226.502	512.267	513.889	516.225
Co 228.615	514.330	516.736	518.468
Cr 267.716	5231.21	5182.81	5209.71
Cu 324.754	5157.26	5227.09	5223.90
Fe 271.441	4952.66	4952.96	4980.15
K 766.491	10065.9	10024.8	10122.5
Mg 279.078	4920.65	4913.39	4934.96
Mn 257.610	5174.59	5236.32	5263.14
Mo 202.032	497.678	497.267	497.688
Na 330.237	7275.69	7316.97	7303.68
Ni 231.604	2560.44	2553.06	2563.31
Pb 220.353	496.156	491.542	497.659
Sb 206.834	924.938	925.537	936.591
Se 196.026	4830.33	4840.62	4874.16
Sn 189.925	5013.51	4979.12	4997.67
Sr 216.596	2485.96	2478.26	2492.94
Ti 334.941	495.116	492.653	494.601
Tl 190.794	5029.35	5036.66	5050.71
V 292.401	4930.50	4930.16	4958.09
Zn 206.200	2592.33	2589.38	2607.77

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	498.744	ppb	5.5762	1.1	45848.7	99.74880
Al 308.215	4836.09	ppb	32.0353	0.7	13922.0	96.72178
As 188.980	471.606	ppb	3.8731	0.8	397.812	94.32126
B 249.678	502.545	ppb	4.8192	1.0	7203.02	20.10181Q
Ba 389.178	5122.26	ppb	12.1845	0.2	152541	102.44516
Be 313.042	513.597	ppb	1.0932	0.2	1190620	102.71944
Ca 370.602	4930	ppb	14.29	0.3	20796	98.59492
Cd 226.502	514.127	ppb	1.9897	0.4	25638.1	102.82536
Co 228.615	516.511	ppb	2.0782	0.4	7125.31	103.30225
Cr 267.716	5207.91	ppb	24.2526	0.5	221917	104.15820
Cu 324.754	5202.75	ppb	39.4300	0.8	312033	104.05504
Fe 271.441	4961.92	ppb	15.7834	0.3	11585.2	99.23849
K 766.491	10071.0	ppb	49.0575	0.5	436295	100.71032
Mg 279.078	4923.00	ppb	10.9740	0.2	13813.8	98.45995
Mn 257.610	5224.68	ppb	45.4058	0.9	544506	104.49365
Mo 202.032	497.544	ppb	0.2405	0.0	4792.11	99.50883
Na 330.237	7298.78	ppb	21.0748	0.3	374.756	97.31705
Ni 231.604	2558.94	ppb	5.2899	0.2	9293.20	102.35743
Pb 220.353	495.119	ppb	3.1875	0.6	1219.39	99.02379
Sb 206.834	929.022	ppb	6.5615	0.7	1274.74	92.90218
Se 196.026	4848.37	ppb	22.9170	0.5	3172.67	96.96738
Sn 189.925	4996.77	ppb	17.2153	0.3	5396.54	99.93530
Sr 216.596	2485.72	ppb	7.3398	0.3	36256.5	99.42869
Ti 334.941	494.123	ppb	1.2991	0.3	162414	98.82467
Tl 190.794	5038.90	ppb	10.8556	0.2	6873.02	100.77808
V 292.401	4939.59	ppb	16.0286	0.3	169740	98.79171
Zn 206.200	2596.49	ppb	9.8748	0.4	5297.73	103.85968

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

Cont Calib Blank (CCB) 4/16/2013, 11:12:34 PM Rack 2, Tube 2

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5621	0.6874	0.1123
Al 308.215	-2.1770u	-3.8674u	-0.3956u
As 188.980	0.6580	1.7479	4.7200
B 249.678	13.1858	12.5052	10.9640
Ba 389.178	1.3889	1.6998	1.5849
Be 313.042	0.0193	0.0363	0.0394
Ca 370.602	-7.047u	-3.370u	-0.2276u
Cd 226.502	0.1287	0.1832	0.0279
Co 228.615	-0.4393u	0.3816	-0.1015u
Cr 267.716	-0.0391u	0.1235	0.1668
Cu 324.754	0.0202	0.0630	0.5332
Fe 271.441	3.3929	6.2239	-0.7169u
K 766.491	2.0550	1.8185	2.6797
Mg 279.078	4.9699	-2.0147u	1.7909
Mn 257.610	0.0425	0.3870	0.2864
Mo 202.032	0.0954	0.5776	-0.2788u
Na 330.237	112.146	-68.1740u	80.3922
Ni 231.604	-0.5725u	0.9005	0.1252
Pb 220.353	1.3596	0.8642	1.4818
Sb 206.834	4.6752	-0.8646u	1.0507
Se 196.026	1.1777	-7.5894u	-3.6580u
Sn 189.925	1.7915	0.5217	0.7774
Sr 216.596	0.2165	0.5143	-0.3915u
Ti 334.941	0.1555	0.2042	0.1602
Tl 190.794	-0.9717u	0.1239	0.9622
V 292.401	0.3370	0.5020	0.0621
Zn 206.200	-3.4617u	-2.1572u	-3.2628u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.4539	ppb	0.3024	66.6	-11.3686	0.45394
Al 308.215	-2.1467	ppb	1.7361	80.9	-23.0824	-2.14669
As 188.980	2.3753	ppb	2.1024	88.5	0.8449	2.37529
B 249.678	12.2184	ppb	1.1383	9.3	262.825	12.21836
Ba 389.178	1.5579	ppb	0.1572	10.1	32.2257	1.55785
Be 313.042	0.0317	ppb	0.0108	34.1	-213.518	0.03166
Ca 370.602	-3.548	ppb	3.413	96.2	0.4543	-3.54823
Cd 226.502	0.1132	ppb	0.0788	69.6	13.7381	0.11323
Co 228.615	-0.0531	ppb	0.4126	777.3	8.9207	-0.05307
Cr 267.716	0.0838	ppb	0.1085	129.6	21.8817	0.08375
Cu 324.754	0.2054	ppb	0.2847	138.6	62.8772	0.20544
Fe 271.441	2.9666	ppb	3.4900	117.6	14.7216	2.96664
K 766.491	2.1844	ppb	0.4449	20.4	360.949	2.18439
Mg 279.078	1.5821	ppb	3.4970	221.0	34.3981	1.58207
Mn 257.610	0.2387	ppb	0.1771	74.2	103.052	0.23866
Mo 202.032	0.1314	ppb	0.4293	326.8	11.9904	0.13139
Na 330.237	41.4548	ppb	96.2597	232.2	-11.2430	41.45484
Ni 231.604	0.1511	ppb	0.7368	487.8	1.4064	0.15106
Pb 220.353	1.2352	ppb	0.3270	26.5	2.5151	1.23518
Sb 206.834	1.6204	ppb	2.8135	173.6	3.9777	1.62042
Se 196.026	-3.3566	ppb	4.3913	130.8	-0.1864	-3.35657
Sn 189.925	1.0302	ppb	0.6716	65.2	-1.4430	1.03023
Sr 216.596	0.1131	ppb	0.4617	408.2	11.2752	0.11310
Ti 334.941	0.1733	ppb	0.0269	15.5	-51.1144	0.17328
Tl 190.794	0.0381	ppb	0.9698	2543.4	0.0948	0.03813
V 292.401	0.3004	ppb	0.2223	74.0	21.0983	0.30037
Zn 206.200	-2.9606	ppb	0.7928	23.7	-3.1421	-2.96057

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

680-89313-b-3-c msd (Samp) 4/16/2013, 11:18:09 PM Rack 2, Tube 3**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	48.5688	48.1439	47.8467
Al 308.215	5639.98	5637.32	5540.94
As 188.980	110.359	106.887	109.377
B 249.678	216.939	217.611	217.395
Ba 389.178	116.387	116.522	114.909
Be 313.042	55.0237	54.9999	54.5700
Ca 370.602	7690	7694	7627
Cd 226.502	55.0163	54.9365	55.0259
Co 228.615	55.0687	55.1785	54.6623
Cr 267.716	110.336	110.882	108.429
Cu 324.754	112.957	110.183	110.202
Fe 271.441	6889.07	6882.38	6848.05
K 766.491	7682.00	7718.29	7640.48
Mg 279.078	5723.26	5711.01	5676.02
Mn 257.610	609.328	608.524	614.389
Mo 202.032	105.123	104.374	104.356
Na 330.237	36273.4	36474.0	36475.7
Ni 231.604	107.436	108.638	106.190
Pb 220.353	53.5054	53.2204	51.7829
Sb 206.834	50.9158	50.6359	53.1431
Se 196.026	100.839	98.6891	100.632
Sn 189.925	210.768	211.124	207.775
Sr 216.596	156.983	157.971	156.261
Ti 334.941	102.832	103.010	102.124
Tl 190.794	39.7200	41.8044	41.9686
V 292.401	104.779	104.917	104.241
Zn 206.200	149.196	150.629	151.011

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	48.1865	ppb	0.3629	0.8	4384.08
Al 308.215	5606.08	ppb	56.4328	1.0	16160.0
As 188.980	108.874	ppb	1.7898	1.6	90.9419
B 249.678	217.315	ppb	0.3428	0.2	3159.11
Ba 389.178	115.939	ppb	0.8948	0.8	3470.52
Be 313.042	54.8645	ppb	0.2553	0.5	126938
Ca 370.602	7670	ppb	37.16	0.5	31909
Cd 226.502	54.9929	ppb	0.0491	0.1	2769.88
Co 228.615	54.9698	ppb	0.2719	0.5	764.716
Cr 267.716	109.883	ppb	1.2878	1.2	4703.91
Cu 324.754	111.114	ppb	1.5961	1.4	6719.01
Fe 271.441	6873.17	ppb	22.0096	0.3	15822.1
K 766.491	7680.26	ppb	38.9321	0.5	332786
Mg 279.078	5703.43	ppb	24.5186	0.4	16115.4
Mn 257.610	610.747	ppb	3.1798	0.5	63741.0
Mo 202.032	104.618	ppb	0.4379	0.4	1018.05
Na 330.237	36407.7	ppb	116.328	0.3	2055.41
Ni 231.604	107.422	ppb	1.2240	1.1	391.134
Pb 220.353	52.8362	ppb	0.9233	1.7	129.405
Sb 206.834	51.5649	ppb	1.3738	2.7	69.2856
Se 196.026	100.053	ppb	1.1858	1.2	67.5953
Sn 189.925	209.889	ppb	1.8398	0.9	224.252
Sr 216.596	157.072	ppb	0.8583	0.5	2302.37
Ti 334.941	102.655	ppb	0.4688	0.5	33679.0
Tl 190.794	41.1643	ppb	1.2535	3.0	54.5917
V 292.401	104.646	ppb	0.3570	0.3	3585.08
Zn 206.200	150.279	ppb	0.9571	0.6	316.065

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

CRI (Samp) 4/16/2013, 11:23:44 PM **Rack 2, Tube 4****Weight: 1** **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	9.9654	10.4868	9.5993
Al 308.215	214.982	212.545	212.650
As 188.980	19.0517	22.3314	22.8857
B 249.678	102.652	102.419	103.456
Ba 389.178	10.1491	11.1874	11.3459
Be 313.042	4.3332	4.3351	4.3586
Ca 370.602	508.8	507.5	510.9
Cd 226.502	5.4767	5.3875	5.6109
Co 228.615	10.1504	11.8477	11.2920
Cr 267.716	10.4891	10.4576	10.8248
Cu 324.754	20.7779	21.8079	21.6089
Fe 271.441	59.2962	58.2851	60.5938
K 766.491	1027.24	1032.84	1044.45
Mg 279.078	518.671	512.233	515.202
Mn 257.610	10.8314	11.0801	11.1064
Mo 202.032	10.9316	10.8212	10.0297
Na 330.237	1289.30	1098.46	1240.85
Ni 231.604	42.2763	42.8142	42.4215
Pb 220.353	12.3568	12.4628	11.4974
Sb 206.834	18.4859	15.2463	22.5053
Se 196.026	18.7361	22.7523	12.5800
Sn 189.925	57.3943	51.3148	50.6681
Sr 216.596	10.6166	10.3661	10.4566
Ti 334.941	10.0250	10.0859	10.0255
Tl 190.794	21.4408	20.1216	21.2935
V 292.401	10.0161	10.0514	10.2094
Zn 206.200	20.4872	22.7444	22.6819

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.0172	ppb	0.4460	4.5	869.738
Al 308.215	213.392	ppb	1.3778	0.6	599.249
As 188.980	21.4229	ppb	2.0722	9.7	16.9683
B 249.678	102.842	ppb	0.5442	0.5	1546.76
Ba 389.178	10.8942	ppb	0.6500	6.0	312.142
Be 313.042	4.3423	ppb	0.0142	0.3	9782.12
Ca 370.602	509.1	ppb	1.722	0.3	2175
Cd 226.502	5.4917	ppb	0.1124	2.0	281.878
Co 228.615	11.0967	ppb	0.8654	7.8	162.167
Cr 267.716	10.5905	ppb	0.2035	1.9	469.564
Cu 324.754	21.3982	ppb	0.5464	2.6	1334.12
Fe 271.441	59.3917	ppb	1.1573	1.9	146.785
K 766.491	1034.84	ppb	8.7775	0.8	45070.2
Mg 279.078	515.369	ppb	3.2223	0.6	1484.37
Mn 257.610	11.0060	ppb	0.1517	1.4	1226.43
Mo 202.032	10.5942	ppb	0.4919	4.6	112.776
Na 330.237	1209.54	ppb	99.1992	8.2	54.9697
Ni 231.604	42.5040	ppb	0.2783	0.7	155.203
Pb 220.353	12.1057	ppb	0.5294	4.4	29.2655
Sb 206.834	18.7458	ppb	3.6365	19.4	26.2499
Se 196.026	18.0228	ppb	5.1235	28.4	13.7909
Sn 189.925	53.1257	ppb	3.7108	7.0	54.8479
Sr 216.596	10.4798	ppb	0.1268	1.2	161.388
Ti 334.941	10.0454	ppb	0.0351	0.3	3198.06
Tl 190.794	20.9520	ppb	0.7229	3.5	28.6338
V 292.401	10.0923	ppb	0.1030	1.0	355.427
Zn 206.200	21.9712	ppb	1.2855	5.8	54.0843

E04162013B.wvq. All Data Report 4/17/2013, 10:10:34 AM

CCV (Samp) 4/16/2013, 11:29:19 PM Rack 2, Tube 5

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	491.015	484.244	493.674
Al 308.215	4844.80	4792.41	4843.52
As 188.980	459.257	461.864	472.721
B 249.678	492.889	487.493	494.226
Ba 389.178	5107.50	5038.13	5081.83
Be 313.042	511.923	505.243	510.379
Ca 370.602	4924	4853	4897
Cd 226.502	511.480	504.802	509.067
Co 228.615	512.558	505.568	509.796
Cr 267.716	5214.55	5149.71	5193.35
Cu 324.754	5200.90	5072.31	5120.58
Fe 271.441	4927.28	4857.87	4904.51
K 766.491	10042.5	9853.09	9993.32
Mg 279.078	4907.92	4852.10	4888.26
Mn 257.610	5161.61	5097.52	5137.04
Mo 202.032	496.082	490.199	492.477
Na 330.237	7324.16	7150.35	7139.53
Ni 231.604	2554.06	2514.41	2537.44
Pb 220.353	493.886	492.963	494.141
Sb 206.834	928.514	907.581	917.800
Se 196.026	4840.00	4809.90	4804.90
Sn 189.925	5012.05	4961.82	5001.63
Sr 216.596	2484.35	2454.49	2469.66
Ti 334.941	492.182	485.544	490.330
Tl 190.794	5004.27	4952.70	4974.98
V 292.401	4910.92	4845.57	4889.73
Zn 206.200	2598.37	2554.83	2573.00

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	489.644	ppb	4.8622	1.0	45010.8
Al 308.215	4826.91	ppb	29.8824	0.6	13895.5
As 188.980	464.614	ppb	7.1408	1.5	391.896
B 249.678	491.536	ppb	3.5646	0.7	7047.13
Ba 389.178	5075.82	ppb	35.0740	0.7	151157
Be 313.042	509.182	ppb	3.4975	0.7	1180383
Ca 370.602	4892	ppb	35.88	0.7	20637
Cd 226.502	508.450	ppb	3.3811	0.7	25355.0
Co 228.615	509.307	ppb	3.5204	0.7	7026.08
Cr 267.716	5185.87	ppb	33.0643	0.6	220978
Cu 324.754	5131.26	ppb	64.9539	1.3	307747
Fe 271.441	4896.55	ppb	35.3812	0.7	11432.9
K 766.491	9962.96	ppb	98.2691	1.0	431616
Mg 279.078	4882.76	ppb	28.3122	0.6	13701.4
Mn 257.610	5132.06	ppb	32.3298	0.6	534854
Mo 202.032	492.919	ppb	2.9662	0.6	4747.69
Na 330.237	7204.68	ppb	103.612	1.4	369.650
Ni 231.604	2535.30	ppb	19.9133	0.8	9207.38
Pb 220.353	493.664	ppb	0.6201	0.1	1215.81
Sb 206.834	917.965	ppb	10.4677	1.1	1259.69
Se 196.026	4818.27	ppb	18.9879	0.4	3152.97
Sn 189.925	4991.83	ppb	26.5090	0.5	5391.21
Sr 216.596	2469.50	ppb	14.9348	0.6	36020.3
Ti 334.941	489.352	ppb	3.4255	0.7	160844
Tl 190.794	4977.32	ppb	25.8649	0.5	6789.00
V 292.401	4882.07	ppb	33.3405	0.7	167763
Zn 206.200	2575.40	ppb	21.8692	0.8	5254.82

E04162013B.vvq. All Data Report 4/17/2013, 10:10:34 AM

CCB (Samp) 4/16/2013, 11:34:53 PM Rack 2, Tube 6

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1328	0.4461	0.5137
Al 308.215	-2.8631u	3.1475	1.3149
As 188.980	2.4837	-0.5505u	1.6998
B 249.678	11.5087	10.1405	9.6237
Ba 389.178	0.2910	1.0020	1.1894
Be 313.042	0.0041	0.0180	0.0263
Ca 370.602	-3.846u	0.6127	-1.724u
Cd 226.502	0.1239	0.1174	0.2146
Co 228.615	-0.1038u	-0.0919u	0.2367
Cr 267.716	-0.5027u	0.0511	-0.2034u
Cu 324.754	-0.9715u	-0.1994u	0.1925
Fe 271.441	5.2745	1.7318	4.3632
K 766.491	-0.5952u	0.9388	0.5043
Mg 279.078	-2.3934u	-1.0172u	0.8515
Mn 257.610	-0.0894u	0.1809	0.1447
Mo 202.032	0.3578	0.3959	0.2905
Na 330.237	174.442	135.158	373.123
Ni 231.604	0.4444	0.2612	-0.2403u
Pb 220.353	1.0676	2.8270	-0.2253u
Sb 206.834	0.7983	2.0202	-0.3959u
Se 196.026	-5.0322u	-7.6763u	-1.9390u
Sn 189.925	5.8488	1.1350	3.1566
Sr 216.596	0.1180	0.1900	0.0082
Ti 334.941	0.1240	0.1418	0.0988
Tl 190.794	-0.3138u	-0.6428u	-0.1634u
V 292.401	-0.2035u	-0.0711u	0.2952
Zn 206.200	-2.3473u	-1.1478u	-2.0914u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3642	ppb	0.2032	55.8	-19.6321
Al 308.215	0.5331	ppb	3.0806	577.8	-15.3409
As 188.980	1.2110	ppb	1.5751	130.1	-0.1407
B 249.678	10.4243	ppb	0.9740	9.3	237.405
Ba 389.178	0.8275	ppb	0.4740	57.3	10.4721
Be 313.042	0.0161	ppb	0.0112	69.6	-249.611
Ca 370.602	-1.652	ppb	2.230	135.0	8.389
Cd 226.502	0.1520	ppb	0.0543	35.8	15.6702
Co 228.615	0.0137	ppb	0.1933	1412.6	9.8287
Cr 267.716	-0.2183	ppb	0.2772	127.0	9.0121
Cu 324.754	-0.3261	ppb	0.5922	181.6	31.0054
Fe 271.441	3.7899	ppb	1.8396	48.5	16.5872
K 766.491	0.2826	ppb	0.7906	279.7	278.612
Mg 279.078	-0.8531	ppb	1.6286	190.9	27.5307
Mn 257.610	0.0787	ppb	0.1467	186.4	86.3811
Mo 202.032	0.3481	ppb	0.0534	15.3	14.0789
Na 330.237	227.575	ppb	127.570	56.1	-0.6520
Ni 231.604	0.1551	ppb	0.3545	228.5	1.4211
Pb 220.353	1.2231	ppb	1.5321	125.3	2.4851
Sb 206.834	0.8075	ppb	1.2080	149.6	2.9130
Se 196.026	-4.8825	ppb	2.8716	58.8	-1.1839
Sn 189.925	3.3801	ppb	2.3648	70.0	1.0962
Sr 216.596	0.1054	ppb	0.0916	86.8	11.1497
Ti 334.941	0.1215	ppb	0.0216	17.8	-68.1480
Tl 190.794	-0.3733	ppb	0.2452	65.7	-0.4669
V 292.401	0.0069	ppb	0.2583	3765.6	10.9814
Zn 206.200	-1.8622	ppb	0.6318	33.9	-5.3900

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

Blank (Blk)	4/17/2013, 11:40:56 AM		Rack S, Tube 1
Label	Replicates Concentration		
Ag 328.068	-0.0319	0.3277	-0.2958
Al 308.215	-0.9863	2.7638	-1.7775
As 188.980	-1.2532	0.0848	1.1684
B 249.678	0.2651	-0.1722	-0.0929
Ba 389.178	0.2399	0.0011	-0.2410
Be 313.042	-0.0276	0.0076	0.0201
Ca 370.602	-0.4120	4.481	-4.069
Cd 226.502	0.1110	-0.0702	-0.0407
Co 228.615	-0.0589	-0.2640	0.3229
Cr 267.716	-0.2050	-0.0743	0.2793
Cu 324.754	0.5931	-0.1118	-0.4813
Fe 271.441	-3.7868	-2.7340	6.5207
K 766.491	-1.4018	0.7641	0.6377
Mg 279.078	3.0030	0.9012	-3.9042
Mn 257.610	-0.2851	-0.0558	0.3409
Mo 202.032	0.4127	-0.6536	0.2409
Na 330.237	112.246	-139.495	27.2484
Ni 231.604	-1.0850	0.3523	0.7327
Pb 220.353	1.6354	-1.2072	-0.4282
Sb 206.834	-2.0317	-0.9263	2.9580
Se 196.026	-0.0503	0.6441	-0.5938
Sn 189.925	1.5171	-1.6130	0.0959
Sr 216.596	-0.3688	0.6790	-0.3102
Ti 334.941	-0.0001	0.0119	-0.0119
Tl 190.794	0.9263	-1.5686	0.6423
V 292.401	-0.0397	-0.0346	0.0744
Zn 206.200	-0.0310	0.0030	0.0280

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	0.0000	ppb	23.574	93.6	25.1908
Al 308.215	0.0000	ppb	5.341	22.1	-24.1796
As 188.980	0.0000	ppb	0.738	7.7	-9.5997
B 249.678	0.0000	ppb	2.695	1.4	192.803
Ba 389.178	0.0000	ppb	5.158	24.3	21.2458
Be 313.042	0.0000	ppb	42.973	7.0	611.203
Ca 370.602	0.0000	ppb	11.751	68.3	17.20
Cd 226.502	0.0000	ppb	3.296	7.6	43.3028
Co 228.615	0.0000	ppb	2.966	161.4	-1.8375
Cr 267.716	0.0000	ppb	7.727	82.7	9.3435
Cu 324.754	0.0000	ppb	28.375	13.5	210.836
Fe 271.441	0.0000	ppb	9.267	8.1	114.325
K 766.491	0.0000	ppb	38.591	8.2	469.704
Mg 279.078	0.0000	ppb	7.063	20.4	34.6185
Mn 257.610	0.0000	ppb	73.348	17.2	427.643
Mo 202.032	0.0000	ppb	4.064	18.9	21.4847
Na 330.237	0.0000	ppb	5.585	10.1	55.4511
Ni 231.604	0.0000	ppb	2.462	54.0	-4.5580
Pb 220.353	0.0000	ppb	2.503	9.0	27.9208
Sb 206.834	0.0000	ppb	2.580	86.9	-2.9700
Se 196.026	0.0000	ppb	0.287	2.8	10.3889
Sn 189.925	0.0000	ppb	1.140	22.3	-5.1113
Sr 216.596	0.0000	ppb	5.646	11.6	48.7131
Ti 334.941	0.0000	ppb	3.035	3.4	89.2070
Tl 190.794	0.0000	ppb	1.312	10.6	-12.3990
V 292.401	0.0000	ppb	1.705	10.5	16.3081
Zn 206.200	0.0000	ppb	0.038	1.0	3.9913

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HIGH STD (Std) **4/17/2013, 11:44:23 AM** **Rack S, Tube 2**

Label	Replicates Concentration		
Ag 328.068	997.092	1004.44	998.467
Al 308.215	9935.20	10000.7	10064.1
As 188.980	1007.30	994.929	997.766
B 249.678	993.096	1002.41	1004.49
Ba 389.178	9978.09	10004.1	10017.8
Be 313.042	996.836	1000.96	1002.20
Ca 370.602	9964	10003	10033
Cd 226.502	998.519	1000.66	1000.82
Co 228.615	997.202	1001.18	1001.62
Cr 267.716	9947.17	10004.3	10048.6
Cu 324.754	9925.10	10094.4	9980.54
Fe 271.441	9961.05	10023.0	10016.0
K 766.491	19956.0	20011.4	20032.6
Mg 279.078	9981.72	10012.3	10006.0
Mn 257.610	9976.07	10025.3	9998.60
Mo 202.032	997.204	1001.80	1000.99
Na 330.237	15037.0	14902.5	15060.5
Ni 231.604	4989.08	5006.38	5004.54
Pb 220.353	995.614	1000.07	1004.32
Sb 206.834	1993.94	2007.87	1998.19
Se 196.026	9969.69	10027.3	10003.0
Sn 189.925	9942.13	10042.4	10015.4
Sr 216.596	4983.76	5003.95	5012.29
Ti 334.941	995.361	1001.39	1003.25
Tl 190.794	9960.02	10035.5	10004.4
V 292.401	9972.48	10016.3	10011.2
Zn 206.200	4988.42	5006.02	5005.56

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	1000.00	ppb	294.292	0.4	75356.8
Al 308.215	10000.0	ppb	141.904	0.6	21989.9
As 188.980	1000.00	ppb	3.946	0.7	599.130
B 249.678	1000.00	ppb	70.194	0.6	11761.2
Ba 389.178	10000.0	ppb	432.900	0.2	214542
Be 313.042	1000.00	ppb	4885.467	0.3	1739612
Ca 370.602	10000	ppb	95.121	0.3	27411
Cd 226.502	1000.00	ppb	43.562	0.1	33949.1
Co 228.615	1000.00	ppb	24.230	0.2	9956.96
Cr 267.716	10000.0	ppb	1567.506	0.5	308419
Cu 324.754	10000.0	ppb	4485.595	0.9	520065
Fe 271.441	10000.0	ppb	55.417	0.3	16453.6
K 766.491	20000.0	ppb	1256.320	0.2	635401
Mg 279.078	10000.0	ppb	32.205	0.2	19983.8
Mn 257.610	10000.0	ppb	5710.883	0.2	2316312
Mo 202.032	1000.00	ppb	17.425	0.2	7119.26
Na 330.237	15000.0	ppb	3.719	0.5	709.607
Ni 231.604	5000.00	ppb	24.407	0.2	12837.6
Pb 220.353	1000.00	ppb	7.415	0.4	1732.10
Sb 206.834	2000.00	ppb	7.025	0.4	1965.69
Se 196.026	10000.0	ppb	13.383	0.3	4638.50
Sn 189.925	10000.0	ppb	37.742	0.5	7266.54
Sr 216.596	5000.00	ppb	140.688	0.3	47999.4
Ti 334.941	1000.00	ppb	1052.002	0.4	255161
Tl 190.794	10000.0	ppb	36.470	0.4	9597.29
V 292.401	10000.0	ppb	633.809	0.2	264514
Zn 206.200	5000.00	ppb	12.898	0.2	6434.34

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Ag 328.068 Calibration (ppb) 4/17/2013, 11:44:23 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		25.1908	0.0000	0.0000	-	-
HIGH STD		75356.8	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 75.3 x + 25.2$ **Al 308.215 Calibration (ppb) 4/17/2013, 11:44:23 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-24.1796	0.0000	0.0000	-	-
HIGH STD		21989.9	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation: $y = 2.2 x + -24.2$ **As 188.980 Calibration (ppb) 4/17/2013, 11:44:23 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-9.5997	0.0000	0.0000	-	-
HIGH STD		599.130	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation: $y = 0.6 x + -9.6$ **B 249.678 Calibration (ppb) 4/17/2013, 11:44:23 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		192.803	0.0000	0.0000	-	-
HIGH STD		11761.2	1000.00	1000.000	-0.0002	0.0

Curve Type: Linear Equation: $y = 11.6 x + 192.8$ **Ba 389.178 Calibration (ppb) 4/17/2013, 11:44:23 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		21.2458	0.0000	0.0000	-	-
HIGH STD		214542	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: $y = 21.5 x + 21.2$ **Be 313.042 Calibration (ppb) 4/17/2013, 11:44:23 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		611.203	0.0000	0.0000	-	-
HIGH STD		1739612	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation: $y = 1739.0 x + 611.2$ **Ca 370.602 Calibration (ppb) 4/17/2013, 11:44:23 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		17.20	0.0000	0.0000	-	-
HIGH STD		27411	10000	10000	0.0010	0.0

Curve Type: Linear Equation: $y = 2.7 x + 17.2$

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Cd 226.502 Calibration (ppb) 4/17/2013, 11:44:23 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		43.3028	0.0000	0.0000	-	-
HIGH STD		33949.1	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 33.9 x + 43.3$ **Co 228.615 Calibration (ppb) 4/17/2013, 11:44:23 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-1.8375	0.0000	0.0000	-	-
HIGH STD		9956.96	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 10.0 x + -1.8$ **Cr 267.716 Calibration (ppb) 4/17/2013, 11:44:23 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		9.3435	0.0000	0.0000	-	-
HIGH STD		308419	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 30.8 x + 9.3$ **Cu 324.754 Calibration (ppb) 4/17/2013, 11:44:23 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		210.836	0.0000	0.0000	-	-
HIGH STD		520065	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 52.0 x + 210.8$ **Fe 271.441 Calibration (ppb) 4/17/2013, 11:44:23 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		114.325	0.0000	0.0000	-	-
HIGH STD		16453.6	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation: $y = 1.6 x + 114.3$ **K 766.491 Calibration (ppb) 4/17/2013, 11:44:23 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		469.704	0.0000	0.0000	-	-
HIGH STD		635401	20000.0	20000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 31.7 x + 469.7$ **Mg 279.078 Calibration (ppb) 4/17/2013, 11:44:23 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		34.6185	0.0000	0.0000	-	-
HIGH STD		19983.8	10000.0	10000.0	0.0020	0.0

Curve Type: Linear Equation: $y = 2.0 x + 34.6$

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Mn 257.610 Calibration (ppb) 4/17/2013, 11:44:23 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		427.643	0.0000	0.0000	-	-
HIGH STD		2316312	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation: $y = 231.6 x + 427.6$ **Mo 202.032 Calibration (ppb) 4/17/2013, 11:44:23 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		21.4847	0.0000	0.0000	-	-
HIGH STD		7119.26	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 7.1 x + 21.5$ **Na 330.237 Calibration (ppb) 4/17/2013, 11:44:23 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		55.4511	0.0000	0.0000	-	-
HIGH STD		709.607	15000.0	15000.0	0.0010	0.0

Curve Type: Linear Equation: $y = 0.0 x + 55.5$ **Ni 231.604 Calibration (ppb) 4/17/2013, 11:44:23 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-4.5580	0.0000	0.0000	-	-
HIGH STD		12837.6	5000.00	5000.00	0.0005	0.0

Curve Type: Linear Equation: $y = 2.6 x + -4.6$ **Pb 220.353 Calibration (ppb) 4/17/2013, 11:44:23 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		27.9208	0.0000	0.0000	-	-
HIGH STD		1732.10	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 1.7 x + 27.9$ **Sb 206.834 Calibration (ppb) 4/17/2013, 11:44:23 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-2.9700	0.0000	0.0000	-	-
HIGH STD		1965.69	2000.00	2000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 1.0 x + -3.0$ **Se 196.026 Calibration (ppb) 4/17/2013, 11:44:23 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		10.3889	0.0000	0.0000	-	-
HIGH STD		4638.50	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 0.5 x + 10.4$

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Sn 189.925 Calibration (ppb) 4/17/2013, 11:44:23 AM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-5.1113	0.0000	0.0000	-	-
HIGH STD		7266.54	10000.0	10000.00	-0.0010	0.0

Curve Type: Linear Equation: $y = 0.7 x + -5.1$ **Sr 216.596 Calibration (ppb) 4/17/2013, 11:44:23 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		48.7131	0.0000	0.0000	-	-
HIGH STD		47999.4	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 9.6 x + 48.7$ **Ti 334.941 Calibration (ppb) 4/17/2013, 11:44:23 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		89.2070	0.0000	0.0000	-	-
HIGH STD		255161	1000.00	1000.000	-0.0002	0.0

Curve Type: Linear Equation: $y = 255.1 x + 89.2$ **Tl 190.794 Calibration (ppb) 4/17/2013, 11:44:23 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-12.3990	0.0000	0.0000	-	-
HIGH STD		9597.29	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 1.0 x + -12.4$ **V 292.401 Calibration (ppb) 4/17/2013, 11:44:23 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		16.3081	0.0000	0.0000	-	-
HIGH STD		264514	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: $y = 26.4 x + 16.3$ **Zn 206.200 Calibration (ppb) 4/17/2013, 11:44:23 AM Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		3.9913	0.0000	0.0000	-	-
HIGH STD		6434.34	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation: $y = 1.3 x + 4.0$ **Lab Control Sample (LCS) 4/17/2013, 11:47:47 AM Rack S, Tube 2****Weight: 1 Volume: 1 Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	981.843	990.631	992.068
Al 308.215	10007.2	9924.20	9990.18
As 188.980	1010.52	991.003	1001.25
B 249.678	1020.68	1019.60	1027.78
Ba 389.178	9965.57	9919.14	9973.68

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

Label	Replicates Concentration		
Be 313.042	991.783	993.391	996.806
Ca 370.602	9932	9890	9946
Cd 226.502	994.207	991.659	996.188
Co 228.615	994.909	989.212	994.884
Cr 267.716	9970.21	9897.12	9956.04
Cu 324.754	9960.18	9911.52	10126.4
Fe 271.441	9928.05	9902.95	9948.98
K 766.491	19952.7	19880.7	19997.0
Mg 279.078	9924.78	9897.98	9940.70
Mn 257.610	9949.94	9881.41	9936.17
Mo 202.032	994.837	990.232	998.336
Na 330.237	14684.0	14256.5	14700.7
Ni 231.604	4967.51	4948.65	4976.74
Pb 220.353	994.398	990.663	999.600
Sb 206.834	1977.58	1984.71	1987.40
Se 196.026	9979.85	9967.51	9977.06
Sn 189.925	10003.4	9926.90	9941.46
Sr 216.596	4986.90	4960.40	4985.80
Ti 334.941	995.789	991.738	998.610
Tl 190.794	9950.09	9940.04	9988.33
V 292.401	9946.32	9914.32	9983.05
Zn 206.200	4969.54	4967.79	4971.78

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	988.181	ppb	5.5354	0.6	74348.7	98.81810
Al 308.215	9973.87	ppb	43.8503	0.4	21914.8	99.73872
As 188.980	1000.93	ppb	9.7640	1.0	599.416	100.09270
B 249.678	1022.69	ppb	4.4394	0.4	12012.1	20.45376*
Ba 389.178	9952.80	ppb	29.4292	0.3	213591	99.52797
Be 313.042	993.994	ppb	2.5653	0.3	1728690	99.39935
Ca 370.602	9923	ppb	28.86	0.3	26974	99.22694
Cd 226.502	994.018	ppb	2.2705	0.2	33768.6	99.40183
Co 228.615	993.002	ppb	3.2819	0.3	9902.40	99.30021
Cr 267.716	9941.12	ppb	38.7602	0.4	306567	99.41124
Cu 324.754	9999.38	ppb	112.690	1.1	519961	99.99375
Fe 271.441	9926.66	ppb	23.0474	0.2	16569.7	99.26661
K 766.491	19943.4	ppb	58.7149	0.3	633605	99.71719
Mg 279.078	9921.15	ppb	21.5883	0.2	19675.0	99.21152
Mn 257.610	9922.50	ppb	36.2501	0.4	2298451	99.22504
Mo 202.032	994.468	ppb	4.0644	0.4	7061.16	99.44681
Na 330.237	14547.1	ppb	251.767	1.7	649.474	96.98058
Ni 231.604	4964.30	ppb	14.3183	0.3	12746.1	99.28600
Pb 220.353	994.887	ppb	4.4886	0.5	1723.27	99.48871
Sb 206.834	1983.23	ppb	5.0766	0.3	2041.64	39.66463*
Se 196.026	9974.80	ppb	6.4718	0.1	4629.13	99.74805
Sn 189.925	9957.24	ppb	40.5938	0.4	7235.45	99.57237
Sr 216.596	4977.70	ppb	14.9925	0.3	47683.2	99.55405
Ti 334.941	995.379	ppb	3.4545	0.3	254023	99.53790
Tl 190.794	9959.49	ppb	25.4810	0.3	9548.76	99.59488
V 292.401	9947.90	ppb	34.3947	0.3	262375	99.47897
Zn 206.200	4969.70	ppb	2.0005	0.0	6370.32	99.39404

Initial Calib Verif (ICV)

4/17/2013, 11:51:12 AM

Rack S, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	977.179	956.520	963.242
Al 308.215	954.587	954.123	963.072

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

Label	Replicates Concentration		
As 188.980	980.312	974.985	971.891
B 249.678	1001.41	995.357	999.712
Ba 389.178	1027.27	1020.16	1027.84
Be 313.042	1029.34x	1023.42x	1029.57x
Ca 370.602	1000	992.1	1001
Cd 226.502	1031.97x	1023.20x	1030.56x
Co 228.615	991.712	983.039	994.773
Cr 267.716	1014.06	1006.22	1014.18
Cu 324.754	1031.78	1025.07	1032.46
Fe 271.441	954.515	944.592	954.711
K 766.491	9912.82	9859.43	9913.56
Mg 279.078	999.706	994.998	994.319
Mn 257.610	1051.04	1044.51	1050.98
Mo 202.032	997.816	986.755	996.493
Na 330.237	10020.5	9670.98	9844.58
Ni 231.604	1030.06	1022.16	1025.62
Pb 220.353	993.212	984.947	994.023
Sb 206.834	965.626	950.231	963.636
Se 196.026	966.739	970.600	977.163
Sn 189.925	4891.29	4855.38	4866.56
Sr 216.596	4943.32	4900.52	4931.21
Ti 334.941	975.492	967.775	973.866
Tl 190.794	1030.21	1010.84	1013.28
V 292.401	987.506	982.913	989.719
Zn 206.200	1018.25	1010.85	1013.27

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	965.647b	ppb	10.5375	1.1	72557.6	96.56470
Al 308.215	957.260b	ppb	5.0379	0.5	2126.80	95.72605
As 188.980	975.729b	ppb	4.2593	0.4	584.093	97.57291
B 249.678	998.827b	ppb	3.1238	0.3	11746.5	99.88274
Ba 389.178	1025.09b	ppb	4.2787	0.4	22022.0	102.50911
Be 313.042	1027.44xb	ppb	3.4826	0.3	1787162	102.74441
Ca 370.602	997.8b	ppb	5.000	0.5	2866	99.77927
Cd 226.502	1028.58xb	ppb	4.7096	0.5	34920.4	102.85807
Co 228.615	989.841b	ppb	6.0868	0.6	9848.75	98.98412
Cr 267.716	1011.49b	ppb	4.5565	0.5	31196.5	101.14857
Cu 324.754	1029.77b	ppb	4.0818	0.4	53762.4	102.97705
Fe 271.441	951.273b	ppb	5.7861	0.6	1824.36	95.12729
K 766.491	9895.27b	ppb	31.0421	0.3	314610	98.95268
Mg 279.078	996.341b	ppb	2.9343	0.3	2006.25	99.63408
Mn 257.610	1048.84b	ppb	3.7563	0.4	243337	104.88426
Mo 202.032	993.688b	ppb	6.0405	0.6	7072.60	99.36880
Na 330.237	9845.34b	ppb	174.743	1.8	471.767	98.45341
Ni 231.604	1025.95b	ppb	3.9597	0.4	2630.53	102.59471
Pb 220.353	990.727b	ppb	5.0224	0.5	1714.29	99.07271
Sb 206.834	959.831b	ppb	8.3731	0.9	947.239	95.98313
Se 196.026	971.501b	ppb	5.2703	0.5	460.252	97.15005
Sn 189.925	4871.08b	ppb	18.3798	0.4	3536.97	97.42154
Sr 216.596	4925.02b	ppb	22.0605	0.4	47233.3	98.50035
Ti 334.941	972.378b	ppb	4.0678	0.4	248118	97.23775
Tl 190.794	1018.11b	ppb	10.5459	1.0	965.004	101.81095
V 292.401	986.713b	ppb	3.4720	0.4	25882.1	98.67125
Zn 206.200	1014.12b	ppb	3.7734	0.4	1305.67	101.41234

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

Initial Calib Blank (ICB) 4/17/2013, 11:57:02 AM Rack S, Tube 1

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3836u	-0.3266u	-0.6485u
Al 308.215	5.2176	4.4042	-0.3368u
As 188.980	6.3356	2.5629	-0.0172u
B 249.678	24.2345	22.1871	19.9990
Ba 389.178	-0.8182u	0.2474	-0.7823u
Be 313.042	-0.3218u	-0.2841u	-0.2200u
Ca 370.602	6.430	0.1417	2.432
Cd 226.502	-0.1536u	-0.2293u	-0.2349u
Co 228.615	-0.1152u	-0.2574u	0.7293
Cr 267.716	-0.5023u	0.0183	0.2967
Cu 324.754	0.1304	0.2077	0.5026
Fe 271.441	-0.7005u	-1.7280u	-0.0900u
K 766.491	-3.8887u	-2.9668u	-2.3607u
Mg 279.078	2.2061	-1.4647u	1.4883
Mn 257.610	-0.3520u	-0.0179u	0.3950
Mo 202.032	0.6324	0.7543	0.1099
Na 330.237	147.730	-93.2709u	18.4563
Ni 231.604	-1.4959u	0.2547	0.3532
Pb 220.353	2.2380	3.0593	2.5250
Sb 206.834	0.2841	-4.6824u	7.0211
Se 196.026	6.6129	1.0680	-0.3002u
Sn 189.925	0.5666	-1.5962u	-0.7004u
Sr 216.596	-1.4668u	-1.8827u	-0.7493u
Ti 334.941	0.0813	-0.0178u	0.1626
Tl 190.794	2.1755	7.2078	5.9591
V 292.401	-0.1704u	0.2186	0.3633
Zn 206.200	-1.4949u	-0.6493u	-1.1314u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.4529	ppb	0.1718	37.9	-8.8514	-0.45290
Al 308.215	3.0950	ppb	2.9997	96.9	-17.3404	3.09499
As 188.980	2.9604	ppb	3.1950	107.9	-7.7977	2.96043
B 249.678	22.1402	ppb	2.1181	9.6	448.932	22.14019
Ba 389.178	-0.4510	ppb	0.6051	134.2	11.5725	-0.45103
Be 313.042	-0.2753	ppb	0.0515	18.7	132.364	-0.27530
Ca 370.602	3.001	ppb	3.183	106.0	25.53	3.00141
Cd 226.502	-0.2059	ppb	0.0454	22.0	36.3164	-0.20595
Co 228.615	0.1189	ppb	0.5334	448.7	-0.6663	0.11888
Cr 267.716	-0.0624	ppb	0.4055	649.7	7.4192	-0.06242
Cu 324.754	0.2802	ppb	0.1965	70.1	225.417	0.28023
Fe 271.441	-0.8395	ppb	0.8278	98.6	112.986	-0.83948
K 766.491	-3.0721	ppb	0.7694	25.0	372.177	-3.07205
Mg 279.078	0.7432	ppb	1.9455	261.8	36.0994	0.74322
Mn 257.610	0.0084	ppb	0.3742	4468.8	429.581	0.00837
Mo 202.032	0.4989	ppb	0.3423	68.6	25.0254	0.49887
Na 330.237	24.3050	ppb	120.607	496.2	56.5183	24.30501
Ni 231.604	-0.2960	ppb	1.0403	351.5	-5.3182	-0.29599
Pb 220.353	2.6075	ppb	0.4168	16.0	32.3635	2.60747
Sb 206.834	0.8743	ppb	5.8740	671.9	-2.1193	0.87426
Se 196.026	2.4603	ppb	3.6608	148.8	11.5276	2.46028
Sn 189.925	-0.5766	ppb	1.0867	188.5	-5.5306	-0.57665
Sr 216.596	-1.3663	ppb	0.5734	42.0	35.6011	-1.36629
Ti 334.941	0.0754	ppb	0.0904	119.9	108.433	0.07538
Tl 190.794	5.1142	ppb	2.6204	51.2	-7.4844	5.11415
V 292.401	0.1372	ppb	0.2760	201.2	19.8328	0.13719
Zn 206.200	-1.0919	ppb	0.4242	38.8	-2.5870	-1.09185

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CRI (CRI) **4/17/2013, 12:02:36 PM** **Rack S, Tube 4**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	9.2108	9.5124	9.6688
Al 308.215	211.393	211.963	215.678
As 188.980	23.3356	19.3402	24.3325
B 249.678	105.630	106.582	104.899
Ba 389.178	8.4074	9.3990	8.8324
Be 313.042	3.9454	3.9348	3.9509
Ca 370.602	520.0	511.6	519.4
Cd 226.502	5.1450	5.2730	5.1931
Co 228.615	11.3866	10.4066	11.3576
Cr 267.716	9.6719	10.0462	10.1311
Cu 324.754	22.0521	20.4816	21.7384
Fe 271.441	39.6544	44.6406	43.8599
K 766.491	1030.65	1025.32	1023.04
Mg 279.078	533.942	534.469	525.396
Mn 257.610	9.9674	9.9043	10.2188
Mo 202.032	9.8596	10.4903	8.9058
Na 330.237	810.250	811.003	1052.55
Ni 231.604	43.3551	42.7920	43.4075
Pb 220.353	9.3779	12.6101	13.1571
Sb 206.834	22.4182	21.4410	19.3149
Se 196.026	15.0824	20.0593	21.6310
Sn 189.925	43.1119	50.6014	51.9665
Sr 216.596	7.6409	8.3721	8.1077
Ti 334.941	9.9483	9.8693	9.8738
Tl 190.794	27.4389	20.1613	23.3479
V 292.401	9.6244	9.7475	9.8394
Zn 206.200	21.1691	21.1004	23.0125

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	9.4640	ppb	0.2328	2.5	737.884	94.64000
Al 308.215	213.012	ppb	2.3271	1.1	445.166	106.50579
As 188.980	22.3361	ppb	2.6419	11.8	3.9984	111.68060
B 249.678	105.704	ppb	0.8437	0.8	1415.58	105.70385
Ba 389.178	8.8796	ppb	0.4975	5.6	213.139	88.79610
Be 313.042	3.9437	ppb	0.0081	0.2	7467.61	98.59243
Ca 370.602	517.0	ppb	4.686	0.9	1432	103.40086
Cd 226.502	5.2037	ppb	0.0646	1.2	219.832	104.07388
Co 228.615	11.0503	ppb	0.5576	5.0	108.154	110.50254
Cr 267.716	9.9498	ppb	0.2443	2.5	316.170	99.49753
Cu 324.754	21.4240	ppb	0.8311	3.9	1324.76	107.12016
Fe 271.441	42.7183	ppb	2.6820	6.3	185.796	85.43664
K 766.491	1026.33	ppb	3.9038	0.4	33052.3	102.63345
Mg 279.078	531.269	ppb	5.0927	1.0	1094.25	106.25382
Mn 257.610	10.0301	ppb	0.1664	1.7	2753.73	100.30145
Mo 202.032	9.7519	ppb	0.7977	8.2	90.6816	97.51896
Na 330.237	891.268	ppb	139.676	15.7	94.1067	89.12682
Ni 231.604	43.1849	ppb	0.3412	0.8	106.360	107.96219
Pb 220.353	11.7150	ppb	2.0424	17.4	47.8639	117.15035
Sb 206.834	21.0580	ppb	1.5867	7.5	17.7680	105.29018
Se 196.026	18.9242	ppb	3.4187	18.1	19.1495	94.62109
Sn 189.925	48.5599	ppb	4.7672	9.8	30.2002	97.11981
Sr 216.596	8.0402	ppb	0.3702	4.6	124.920	80.40215
Ti 334.941	9.8971	ppb	0.0443	0.4	2615.82	98.97136
Tl 190.794	23.6494	ppb	3.6481	15.4	10.3172	94.59758
V 292.401	9.7371	ppb	0.1079	1.1	271.583	97.37093
Zn 206.200	21.7607	ppb	1.0847	5.0	31.9513	108.80333

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Interf Check A (ICSA) 4/17/2013, 12:08:12 PM Rack S, Tube 5

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.2336u	-1.0046u	-1.7164u
Al 308.215	584229	587804	587012
As 188.980	-0.8091	0.3841	2.3863
B 249.678	-10.3403u	-11.8105u	-12.2581u
Ba 389.178	-3.6370	-4.2625	-4.4834
Be 313.042	-0.6871u	-0.6899u	-0.6946u
Ca 370.602	511128	514359	509495
Cd 226.502	6.1867	6.0902	5.7303
Co 228.615	-0.0287u	0.8591	0.8458
Cr 267.716	-0.4422	-0.1153	-0.4998
Cu 324.754	-0.8628	-0.2367	-0.6992
Fe 271.441	196584	197512	196734
K 766.491	-8.7128u	-8.7042u	-8.0300u
Mg 279.078	550103	553241	550168
Mn 257.610	-1.0952	-1.0881	-1.2193
Mo 202.032	1.6640	1.4254	0.8768u
Na 330.237	-62.0414u	-85.0315u	-71.7561u
Ni 231.604	2.8884	1.7806	1.6023
Pb 220.353	5.7296	1.4190u	15.1971
Sb 206.834	10.3476	-3.3211	6.4937
Se 196.026	-15.0626u	-11.3790u	-1.7877u
Sn 189.925	-13.1638u	-3.8725u	-7.6670u
Sr 216.596	4.8546	4.1949	5.1353
Ti 334.941	-0.8549	-0.7901	-0.8347
Tl 190.794	-7.7159u	-14.6549u	-10.0752u
V 292.401	-0.7015u	0.0010	-0.1975u
Zn 206.200	19.9520	16.7005	20.0712

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-1.3182	ppb	0.3633	27.6	-81.8879	-1.31823
Al 308.215	586348	ppb	1877.38	0.3	1290766	-
As 188.980	0.6538	ppb	1.6147	247.0	-6.9276	0.65377
B 249.678	-11.4696	ppb	1.0033	8.7	-167.349	-11.46962
Ba 389.178	-4.1276	ppb	0.4390	10.6	1527.23	-4.12764
Be 313.042	-0.6905	ppb	0.0038	0.6	-399.936	-0.69053
Ca 370.602	511661	ppb	2475	0.5	1387842	-
Cd 226.502	6.0024	ppb	0.2406	4.0	688.782	6.00238
Co 228.615	0.5587	ppb	0.5088	91.1	-1.9050	0.55873
Cr 267.716	-0.3524	ppb	0.2074	58.9	31.8505	-0.35241
Cu 324.754	-0.5996	ppb	0.3247	54.2	240.389	-0.59959
Fe 271.441	196943	ppb	498.009	0.3	321905	-
K 766.491	-8.4823	ppb	0.3918	4.6	200.420	-8.48233
Mg 279.078	551171	ppb	1793.32	0.3	1099454	-
Mn 257.610	-1.1342	ppb	0.0738	6.5	3931.07	-1.13421
Mo 202.032	1.3221	ppb	0.4036	30.5	21.1955	1.32208
Na 330.237	-72.9429	ppb	11.5409	15.8	1.9882	-72.94293
Ni 231.604	2.0905	ppb	0.6968	33.3	5.0102	2.09046
Pb 220.353	7.4486	ppb	7.0481	94.6	36.9099	7.44859
Sb 206.834	4.5067	ppb	7.0477	156.4	5.8725	4.50674
Se 196.026	-9.4098	ppb	6.8531	72.8	5.8573	-9.40976
Sn 189.925	-8.2344	ppb	4.6716	56.7	-10.9156	-8.23442
Sr 216.596	4.7283	ppb	0.4828	10.2	212.275	4.72828
Ti 334.941	-0.8266	ppb	0.0331	4.0	2192.28	-0.82657
Tl 190.794	-10.8153	ppb	3.5282	32.6	-32.5423	-10.81534
V 292.401	-0.2993	ppb	0.3621	121.0	11.1523	-0.29933
Zn 206.200	18.9079	ppb	1.9126	10.1	283059	18.90788

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

Interf Check AB (ICSAB) 4/17/2013, 12:13:48 PM Rack S, Tube 6

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	221.865	223.937	221.454
Al 308.215	586712	588576	588888
As 188.980	114.138	107.594	115.252
B 249.678	-16.0053u	-16.6906u	-17.5023u
Ba 389.178	533.024	533.152	534.399
Be 313.042	520.903	519.804	520.458
Ca 370.602	514963	512602	518153
Cd 226.502	1038.82	1038.22	1040.46
Co 228.615	515.403	514.512	516.824
Cr 267.716	523.026	523.857	525.085
Cu 324.754	592.816	593.351	588.922
Fe 271.441	197681	197802	197991
K 766.491	-10.2821u	-9.4918u	-9.2954u
Mg 279.078	557273	555831	556475
Mn 257.610	527.060	526.510	527.798
Mo 202.032	1093.00	1098.00	1096.97
Na 330.237	-589.460u	-597.187u	-496.790u
Ni 231.604	1013.81	1017.53	1010.52
Pb 220.353	55.0518	57.0100	61.8024
Sb 206.834	640.160	637.991	646.016
Se 196.026	45.2698	50.9837	35.9424
Sn 189.925	1065.49	1069.79	1061.66
Sr 216.596	5.6092	5.1344	6.0763
Ti 334.941	-7.2703	-7.1742	-7.2225
Tl 190.794	98.8221	96.9715	88.0246
V 292.401	511.027	510.935	511.362
Zn 206.200	1017.32	1012.96	1010.66

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	222.419	ppb	1.3310	0.6	16778.1	111.20934
Al 308.215	588059	ppb	1176.71	0.2	1294583	117.61172
As 188.980	112.328	ppb	4.1373	3.7	60.7837	112.32804
B 249.678	-16.7327	ppb	0.7494	4.5	-229.417	-
Ba 389.178	533.525	ppb	0.7595	0.1	13081.8	106.70494
Be 313.042	520.389	ppb	0.5530	0.1	905585	104.07771
Ca 370.602	515239	ppb	2786	0.5	1397589	103.04784
Cd 226.502	1039.17	ppb	1.1611	0.1	35721.4	103.91681
Co 228.615	515.580	ppb	1.1659	0.2	5096.03	103.11597
Cr 267.716	523.989	ppb	1.0356	0.2	16195.2	104.79784
Cu 324.754	591.697	ppb	2.4174	0.4	31057.6	118.33931
Fe 271.441	197825	ppb	156.410	0.1	323426	98.91226
K 766.491	-9.6897	ppb	0.5223	5.4	162.089	-
Mg 279.078	556526	ppb	722.124	0.1	1110130	111.30527
Mn 257.610	527.123	ppb	0.6461	0.1	126304	105.42455
Mo 202.032	1095.99	ppb	2.6402	0.2	7789.92	109.59884
Na 330.237	-561.146	ppb	55.8678	10.0	-25.7999	-
Ni 231.604	1013.95	ppb	3.5068	0.3	2603.92	101.39523
Pb 220.353	57.9548	ppb	3.4730	6.0	121.410	115.90953
Sb 206.834	641.389	ppb	4.1512	0.6	627.453	106.89817
Se 196.026	44.0653	ppb	7.5926	17.2	30.7274	88.13060
Sn 189.925	1065.65	ppb	4.0648	0.4	769.974	106.56460
Sr 216.596	5.6066	ppb	0.4709	8.4	170.730	-
Ti 334.941	-7.2223	ppb	0.0481	0.7	583.838	-
Tl 190.794	94.6061	ppb	5.7743	6.1	68.0133	94.60608
V 292.401	511.108	ppb	0.2251	0.0	13299.2	102.22160
Zn 206.200	1013.65	ppb	3.3837	0.3	1306.27	101.36459

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

LRA1 (Samp) 4/17/2013, 12:19:25 PM Rack S, Tube 7

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9313	-0.7748	-1.1330
Al 308.215	225.530	227.072	234.549
As 188.980	21042.1x	21008.1x	21032.1x
B 249.678	5532.34x	5569.57x	5585.64x
Ba 389.178	-4.1077u	-3.4452u	-3.2090u
Be 313.042	-0.3128u	-0.3275u	-0.3116u
Ca 370.602	1832	1799	1786
Cd 226.502	-1.2153u	-1.1066u	-1.1927u
Co 228.615	11617.7	11508.5	11541.1
Cr 267.716	8.3215	8.0210	7.6468
Cu 324.754	-6.4311u	-6.7073u	-6.5577u
Fe 271.441	11.5610	2.8463	-6.6108
K 766.491	-5.6471u	-5.2442u	-4.6248u
Mg 279.078	165.951u	162.308u	170.302u
Mn 257.610	30934.6x	31035.3x	31107.6x
Mo 202.032	1.1329	1.1346	0.5558
Na 330.237	128453x	128493x	127991x
Ni 231.604	11424.6x	11444.8x	11441.2x
Pb 220.353	21699.0x	21750.5x	21751.4x
Sb 206.834	11.1303	7.8857	14.0194
Se 196.026	4.5452	-1.9050	-0.9911
Sn 189.925	3.2439	-1.9376u	-0.7220u
Sr 216.596	-6.1623u	-5.2689u	-6.7509u
Ti 334.941	34574.8	34732.6	34708.5
Tl 190.794	88.9268	99.2148	95.4510
V 292.401	-7.0192	-6.4364	-6.2641
Zn 206.200	131.747	130.350	132.158

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9464b	ppb	0.1795	19.0	98.2297
Al 308.215	229.050b	ppb	4.8243	2.1	480.001
As 188.980	21027.4xb	ppb	17.4535	0.1	12790.4
B 249.678	5562.52xb	ppb	27.3443	0.5	64541.3
Ba 389.178	-3.5873b	ppb	0.4659	13.0	-54.6224
Be 313.042	-0.3173b	ppb	0.0088	2.8	29.5469
Ca 370.602	1806b	ppb	23.63	1.3	11183
Cd 226.502	-1.1715b	ppb	0.0573	4.9	5.4068
Co 228.615	11555.8b	ppb	56.0623	0.5	115859
Cr 267.716	7.9964b	ppb	0.3380	4.2	386.324
Cu 324.754	-6.5654b	ppb	0.1383	2.1	-130.487
Fe 271.441	2.5988b	ppb	9.0885	349.7	1833.34
K 766.491	-5.1720b	ppb	0.5150	10.0	305.511
Mg 279.078	166.187b	ppb	4.0019	2.4	-104.075
Mn 257.610	31025.8xb	ppb	86.9010	0.3	7185650
Mo 202.032	0.9411b	ppb	0.3337	35.5	28.0918
Na 330.237	128312xb	ppb	278.833	0.2	5421.31
Ni 231.604	11436.9xb	ppb	10.7721	0.1	29370.2
Pb 220.353	21733.6xb	ppb	30.0025	0.1	37049.5
Sb 206.834	11.0118b	ppb	3.0686	27.9	7.8821
Se 196.026	0.5497b	ppb	3.4902	634.9	17.8210
Sn 189.925	0.1948b	ppb	2.7096	1391.3	-4.9346
Sr 216.596	-6.0607b	ppb	0.7462	12.3	-181.955
Ti 334.941	34672.0b	ppb	85.0232	0.2	8843901
Tl 190.794	94.5309b	ppb	5.2053	5.5	40.6021
V 292.401	-6.5733b	ppb	0.3957	6.0	370.422
Zn 206.200	131.418b	ppb	0.9478	0.7	157.001

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

LRA2 (Samp) 4/17/2013, 12:25:03 PM **Rack S, Tube 8****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.6947u	-1.0820u	-1.9959u
Al 308.215	992054x	991878x	999265x
As 188.980	49.7659	40.5427	50.5953
B 249.678	45.4005u	33.3616u	21.4365u
Ba 389.178	8.0908	7.5619	6.2621
Be 313.042	-0.6042u	-0.5998u	-0.6027u
Ca 370.602	843327	840818	836934
Cd 226.502	31.9708	32.4561	31.5092
Co 228.615	13.4127	13.7209	15.1786
Cr 267.716	7.8702	7.5716	8.0514
Cu 324.754	-4.2189	-3.5314	-3.8058
Fe 271.441	954596	958116	957741
K 766.491	469614x	467870x	467840x
Mg 279.078	905392x	906795x	908736x
Mn 257.610	27.1765	27.4600	27.2434
Mo 202.032	3.3209u	4.1296u	6.2233u
Na 330.237	-8456.23u	-8452.94u	-8380.88u
Ni 231.604	12.1277	12.8598	12.3223
Pb 220.353	55.6968	50.0997	48.4007
Sb 206.834	3.4313	4.5866	2.3803
Se 196.026	-27.1926u	-14.0763u	-5.2149u
Sn 189.925	-1.3855u	-5.9859u	-6.7689u
Sr 216.596	34.5071	33.1996	34.4705
Ti 334.941	20.5679	20.0413	19.5832
Tl 190.794	-33.5310u	-25.7890u	-27.7585u
V 292.401	4.2013	4.1521	4.5974
Zn 206.200	30393.8	30431.7	30496.1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.5909b	ppb	0.4657	29.3	-111.303
Al 308.215	994399xb	ppb	4214.76	0.4	2189051
As 188.980	46.9680b	ppb	5.5799	11.9	16.2516
B 249.678	33.3995b	ppb	11.9821	35.9	-527.461
Ba 389.178	7.3049b	ppb	0.9410	12.9	3639.05
Be 313.042	-0.6022b	ppb	0.0022	0.4	-155.121
Ca 370.602	840359b	ppb	3221	0.4	2234853
Cd 226.502	31.9787b	ppb	0.4735	1.5	3259.30
Co 228.615	14.1041b	ppb	0.9432	6.7	111.440
Cr 267.716	7.8311b	ppb	0.2423	3.1	401.975
Cu 324.754	-3.8520b	ppb	0.3461	9.0	306.160
Fe 271.441	956818b	ppb	1933.09	0.2	1563485
K 766.491	468442xb	ppb	1015.87	0.2	14871880
Mg 279.078	906974xb	ppb	1679.08	0.2	1809275
Mn 257.610	27.2933b	ppb	0.1482	0.5	14695.4
Mo 202.032	4.5579b	ppb	1.4979	32.9	6.7262
Na 330.237	-8430.02b	ppb	42.5883	0.5	-748.748
Ni 231.604	12.4366b	ppb	0.3792	3.0	47.2295
Pb 220.353	51.3991b	ppb	3.8177	7.4	109.192
Sb 206.834	3.4661b	ppb	1.1036	31.8	22.0350
Se 196.026	-15.4946b	ppb	11.0573	71.4	2.3546
Sn 189.925	-4.7135b	ppb	2.9085	61.7	-8.2561
Sr 216.596	34.0591b	ppb	0.7445	2.2	800.401
Ti 334.941	20.0641b	ppb	0.4928	2.5	9086.89
Tl 190.794	-29.0262b	ppb	4.0236	13.9	-87.7405
V 292.401	4.3169b	ppb	0.2441	5.7	134.795
Zn 206.200	30440.5b	ppb	51.7064	0.2	29152.6

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

RINSE (Samp) 4/17/2013, 12:30:38 PM Rack S, Tube 1

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5776u	-0.0332u	-0.1427u
Al 308.215	56.3321	44.6376	36.0801
As 188.980	8.7485	11.3949	10.4948
B 249.678	23.9824	21.2059	20.7887
Ba 389.178	-0.1919u	-0.8677u	-1.0476u
Be 313.042	-0.1927u	-0.1946u	-0.2073u
Ca 370.602	46.05	40.02	33.33
Cd 226.502	-0.2217u	-0.1464u	-0.2109u
Co 228.615	-0.2805u	-0.2684u	-0.3477u
Cr 267.716	-0.0201u	0.1756	0.1315
Cu 324.754	0.7609	0.3804	0.1868
Fe 271.441	72.9084	62.9415	51.2638
K 766.491	22.1476	17.3083	11.4751
Mg 279.078	52.5267	41.8503	33.3057
Mn 257.610	0.7144	0.7387	0.5969
Mo 202.032	-0.6143u	-0.5016u	-0.4330u
Na 330.237	127.849	117.127	-71.5695u
Ni 231.604	0.4065	-0.6587u	-1.1915u
Pb 220.353	0.7294	1.5575	1.1951
Sb 206.834	-1.8992u	5.6883	2.8223
Se 196.026	-3.0698u	-3.1200u	-3.1121u
Sn 189.925	-1.2450u	1.1062	-1.0133u
Sr 216.596	-1.0878u	-1.2075u	-1.4020u
Ti 334.941	1.3588	1.2155	1.1272
Tl 190.794	-4.5404u	1.9383	-3.4851u
V 292.401	0.6148	0.0200	0.1673
Zn 206.200	1.6263	-0.0739u	1.1303

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2512	ppb	0.2880	114.7	6.3371
Al 308.215	45.6833	ppb	10.1664	22.3	76.3662
As 188.980	10.2127	ppb	1.3456	13.2	-3.3831
B 249.678	21.9923	ppb	1.7360	7.9	447.149
Ba 389.178	-0.7024	ppb	0.4512	64.2	6.3586
Be 313.042	-0.1982	ppb	0.0079	4.0	266.618
Ca 370.602	39.80	ppb	6.361	16.0	122.2
Cd 226.502	-0.1930	ppb	0.0407	21.1	36.8943
Co 228.615	-0.2989	ppb	0.0427	14.3	-4.7757
Cr 267.716	0.0956	ppb	0.1027	107.3	12.3060
Cu 324.754	0.4427	ppb	0.2921	66.0	233.853
Fe 271.441	62.3712	ppb	10.8336	17.4	216.251
K 766.491	16.9770	ppb	5.3439	31.5	1008.67
Mg 279.078	42.5609	ppb	9.6302	22.6	119.511
Mn 257.610	0.6833	ppb	0.0758	11.1	586.303
Mo 202.032	-0.5163	ppb	0.0915	17.7	17.8168
Na 330.237	57.8021	ppb	112.167	194.1	57.9427
Ni 231.604	-0.4813	ppb	0.8136	169.1	-5.7928
Pb 220.353	1.1607	ppb	0.4151	35.8	29.8984
Sb 206.834	2.2038	ppb	3.8314	173.9	-0.7936
Se 196.026	-3.1006	ppb	0.0270	0.9	8.9540
Sn 189.925	-0.3840	ppb	1.2958	337.4	-5.3906
Sr 216.596	-1.2324	ppb	0.1585	12.9	36.9418
Ti 334.941	1.2338	ppb	0.1169	9.5	404.105
Tl 190.794	-2.0291	ppb	3.4761	171.3	-14.3525
V 292.401	0.2674	ppb	0.3098	115.9	23.4530
Zn 206.200	0.8942	ppb	0.8743	97.8	457.1406

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

Cont Calib Verif (CCV) 4/17/2013, 12:36:12 PM Rack 1, Tube 1
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	490.948	485.504	489.314
Al 308.215	4968.26	4948.65	4937.00
As 188.980	485.208	492.194	485.057
B 249.678	512.688	513.679	516.657
Ba 389.178	5157.67	5151.99	5166.04
Be 313.042	515.477	518.308	519.702
Ca 370.602	5000	4981	5003
Cd 226.502	519.448	517.491	518.828
Co 228.615	523.552	523.232	524.624
Cr 267.716	5173.39	5146.11	5150.16
Cu 324.754	5089.26	5121.90	5211.57
Fe 271.441	4970.20	4966.44	4983.24
K 766.491	10098.9	10098.1	10158.4
Mg 279.078	4975.92	4973.43	4973.94
Mn 257.610	5231.72	5207.87	5213.55
Mo 202.032	495.805	493.622	494.311
Na 330.237	6904.63	7044.63	7096.00
Ni 231.604	2614.67	2609.27	2615.43
Pb 220.353	498.440	500.523	496.066
Sb 206.834	937.457	932.042	930.806
Se 196.026	4988.95	5011.51	5002.81
Sn 189.925	5006.39	5012.90	5026.76
Sr 216.596	2530.84	2518.83	2513.72
Ti 334.941	502.191	500.376	500.780
Tl 190.794	5063.49	5066.16	5088.75
V 292.401	4984.13	4971.47	4998.53
Zn 206.200	2582.89	2576.30	2579.56

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	488.588	ppb	2.7936	0.6	36771.9	97.71769
Al 308.215	4951.31	ppb	15.7978	0.3	10866.7	99.02610
As 188.980	487.486	ppb	4.0778	0.8	287.010	97.49728
B 249.678	514.341	ppb	2.0661	0.4	6137.13	20.57365Q
Ba 389.178	5158.57	ppb	7.0667	0.1	110714	103.17133
Be 313.042	517.829	ppb	2.1526	0.4	900878	103.56581
Ca 370.602	4995	ppb	12.00	0.2	13593	99.89376
Cd 226.502	518.589	ppb	0.9997	0.2	17637.6	103.71779
Co 228.615	523.802	ppb	0.7291	0.1	5222.80	104.76046
Cr 267.716	5156.55	ppb	14.7209	0.3	159025	103.13100
Cu 324.754	5140.91	ppb	63.3290	1.2	267427	102.81821
Fe 271.441	4973.29	ppb	8.8203	0.2	8362.45	99.46585
K 766.491	10118.4	ppb	34.5635	0.3	321696	101.18444
Mg 279.078	4974.43	ppb	1.3186	0.0	9878.54	99.48864
Mn 257.610	5217.71	ppb	12.4624	0.2	1208833	104.35425
Mo 202.032	494.579	ppb	1.1159	0.2	3522.46	98.91580
Na 330.237	7015.08	ppb	99.0466	1.4	340.572	93.53445
Ni 231.604	2613.12	ppb	3.3596	0.1	6707.16	104.52489
Pb 220.353	498.343	ppb	2.2299	0.4	877.179	99.66859
Sb 206.834	933.435	ppb	3.5377	0.4	964.182	93.34350
Se 196.026	5001.09	ppb	11.3763	0.2	2326.15	100.02184
Sn 189.925	5015.35	ppb	10.4038	0.2	3641.88	100.30693
Sr 216.596	2521.13	ppb	8.7908	0.3	24173.6	100.84525
Ti 334.941	501.116	ppb	0.9529	0.2	127930	100.22322
Tl 190.794	5072.80	ppb	13.8756	0.3	4857.26	101.45599
V 292.401	4984.71	ppb	13.5402	0.3	131469	99.69422
Zn 206.200	2579.59	ppb	3.2951	0.1	3398.49	103.18350

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

Cont Calib Blank (CCB) 4/17/2013, 12:41:56 PM Rack 1, Tube 2

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8838u	-0.8216u	-0.7270u
Al 308.215	-3.4362u	-1.5266u	8.4790
As 188.980	7.0550	5.7470	5.3314
B 249.678	9.5870	9.1188	8.1928
Ba 389.178	-0.7678u	-0.6279u	-1.1110u
Be 313.042	-0.4795u	-0.4430u	-0.4391u
Ca 370.602	-3.197u	-1.749u	3.571
Cd 226.502	-0.4138u	-0.2817u	-0.5521u
Co 228.615	0.2527	-0.1945u	0.3150
Cr 267.716	-0.1916u	-0.2492u	-0.2093u
Cu 324.754	-0.3169u	0.4861	-0.0249u
Fe 271.441	-18.0848u	-14.1690u	-14.8266u
K 766.491	-3.8406u	-3.9006u	-4.8603u
Mg 279.078	-1.1639u	-2.7938u	6.6366
Mn 257.610	-0.7925u	-0.5504u	-0.3568u
Mo 202.032	-0.9205u	-0.7319u	-0.5973u
Na 330.237	-78.5620u	-227.944u	130.975
Ni 231.604	1.4714	0.1851	0.2667
Pb 220.353	-0.1572u	1.8222	0.6132
Sb 206.834	6.0295	3.4805	2.3740
Se 196.026	2.1349	-2.0157u	5.5543
Sn 189.925	-2.9433u	-2.4816u	-3.1460u
Sr 216.596	-2.6575u	-2.1929u	-2.2807u
Ti 334.941	-0.2235u	-0.0812u	-0.1385u
Tl 190.794	3.3543	4.5284	-0.5248u
V 292.401	-0.1044u	-0.3049u	0.0824
Zn 206.200	-0.0531u	-1.4359u	-0.9210u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.8108	ppb	0.0790	9.7	-35.7859	-0.81081
Al 308.215	1.1721	ppb	6.3996	546.0	-21.6334	1.17205
As 188.980	6.0445	ppb	0.8995	14.9	-5.9199	6.04446
B 249.678	8.9662	ppb	0.7095	7.9	296.545	8.96617
Ba 389.178	-0.8356	ppb	0.2485	29.7	3.2988	-0.83556
Be 313.042	-0.4538	ppb	0.0223	4.9	-177.927	-0.45384
Ca 370.602	-0.4584	ppb	3.564	777.5	16.98	-0.45840
Cd 226.502	-0.4158	ppb	0.1352	32.5	29.1693	-0.41585
Co 228.615	0.1244	ppb	0.2779	223.4	-0.5794	0.12442
Cr 267.716	-0.2167	ppb	0.0295	13.6	2.6590	-0.21669
Cu 324.754	0.0481	ppb	0.4064	844.6	213.314	0.04812
Fe 271.441	-15.6935	ppb	2.0969	13.4	88.7108	-15.69345
K 766.491	-4.2005	ppb	0.5722	13.6	336.353	-4.20051
Mg 279.078	0.8930	ppb	5.0405	564.5	36.4044	0.89296
Mn 257.610	-0.5666	ppb	0.2183	38.5	296.391	-0.56658
Mo 202.032	-0.7499	ppb	0.1624	21.7	16.1631	-0.74989
Na 330.237	-58.5105	ppb	180.298	308.1	52.9094	-58.51051
Ni 231.604	0.6411	ppb	0.7203	112.4	-2.9118	0.64107
Pb 220.353	0.7594	ppb	0.9977	131.4	29.2157	0.75940
Sb 206.834	3.9613	ppb	1.8746	47.3	0.9326	3.96134
Se 196.026	1.8912	ppb	3.7909	200.5	11.2641	1.89117
Sn 189.925	-2.8570	ppb	0.3405	11.9	-7.1888	-2.85696
Sr 216.596	-2.3771	ppb	0.2468	10.4	25.9294	-2.37705
Ti 334.941	-0.1477	ppb	0.0716	48.5	51.5320	-0.14772
Tl 190.794	2.4526	ppb	2.6445	107.8	-10.0402	2.45263
V 292.401	-0.1090	ppb	0.1937	177.8	13.5568	-0.10895
Zn 206.200	-0.8033	ppb	0.6988	87.0	2.9583	-0.80332

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

mb 680-272935/1-a (Samp) **4/17/2013, 12:47:31 PM** **Rack 1, Tube 3**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.1355u	-0.8249u	-0.6552u
Al 308.215	-4.4227u	-3.7144u	19.3871
As 188.980	4.5784	2.5437	1.8626
B 249.678	0.3689	-0.7240u	-0.2117u
Ba 389.178	-1.4187u	-1.7147u	-2.2851u
Be 313.042	-0.5384u	-0.5353u	-0.4843u
Ca 370.602	-4.333u	-0.6400u	18.70
Cd 226.502	-0.3409u	-0.4189u	-0.1826u
Co 228.615	-0.2045u	-0.9807u	-0.8979u
Cr 267.716	-1.3110u	-1.2081u	-0.7387u
Cu 324.754	-1.5155u	-0.9000u	-0.5974u
Fe 271.441	-12.9142u	-6.1313u	4.7398
K 766.491	-8.0580u	-8.2845u	-6.3321u
Mg 279.078	-1.3500u	-0.5745u	20.1011
Mn 257.610	-1.6319u	-1.6215u	-0.9297u
Mo 202.032	-0.6431u	-0.6024u	-1.1893u
Na 330.237	72.2142	-109.074u	-58.7832u
Ni 231.604	-0.3586u	-1.2233u	-0.3496u
Pb 220.353	2.3810	-0.9013u	3.6656
Sb 206.834	-0.8932u	2.8610	-3.7447u
Se 196.026	-9.4852u	-8.2157u	3.8190
Sn 189.925	-2.7402u	-6.0455u	-2.7481u
Sr 216.596	-2.3520u	-2.9908u	-2.1730u
Ti 334.941	-0.3909u	-0.3765u	-0.3187u
Tl 190.794	-1.0213u	-3.9307u	-3.3414u
V 292.401	-1.0688u	-0.8193u	-0.6243u
Zn 206.200	-1.4341u	-2.8897u	-1.4405u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8719	ppb	0.2436	27.9	-40.3748
Al 308.215	3.7500	ppb	13.5468	361.2	-15.9660
As 188.980	2.9949	ppb	1.4130	47.2	-7.7763
B 249.678	-0.1889	ppb	0.5468	289.4	190.622
Ba 389.178	-1.8062	ppb	0.4404	24.4	-17.4977
Be 313.042	-0.5193	ppb	0.0303	5.8	-291.740
Ca 370.602	4.576	ppb	12.37	270.3	29.93
Cd 226.502	-0.3141	ppb	0.1204	38.3	32.6420
Co 228.615	-0.6944	ppb	0.4263	61.4	-8.7331
Cr 267.716	-1.0859	ppb	0.3051	28.1	-24.1456
Cu 324.754	-1.0043	ppb	0.4678	46.6	158.608
Fe 271.441	-4.7686	ppb	8.9055	186.8	106.487
K 766.491	-7.5582	ppb	1.0679	14.1	229.757
Mg 279.078	6.0589	ppb	12.1671	200.8	46.7233
Mn 257.610	-1.3944	ppb	0.4024	28.9	104.746
Mo 202.032	-0.8116	ppb	0.3277	40.4	15.7259
Na 330.237	-31.8810	ppb	93.5903	293.6	54.0766
Ni 231.604	-0.6438	ppb	0.5019	77.9	-6.2117
Pb 220.353	1.7151	ppb	2.3552	137.3	30.8448
Sb 206.834	-0.5923	ppb	3.3131	559.4	-3.5550
Se 196.026	-4.6273	ppb	7.3422	158.7	8.2470
Sn 189.925	-3.8446	ppb	1.9060	49.6	-7.9070
Sr 216.596	-2.5053	ppb	0.4299	17.2	24.7288
Ti 334.941	-0.3620	ppb	0.0382	10.6	-3.1125
Tl 190.794	-2.7645	ppb	1.5381	55.6	-15.0535
V 292.401	-0.8375	ppb	0.2228	26.6	-5.6210
Zn 206.200	-1.9215	ppb	0.8386	43.6	-15.5224

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

ics 680-272935/2-a (Samp) 4/17/2013, 12:53:05 PM Rack 1, Tube 4
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	8.3704	9.3803	9.3340
Al 308.215	5185.37	5210.14	5220.27
As 188.980	110.436	111.779	106.490
B 249.678	186.280	187.228	189.652
Ba 389.178	103.270	104.545	104.333
Be 313.042	52.5056	52.5733	52.7775
Ca 370.602	4985	5003	5010
Cd 226.502	53.1712	53.5072	53.7670
Co 228.615	52.3479	53.2660	53.1806
Cr 267.716	107.083	107.260	107.876
Cu 324.754	107.514	105.518	107.723
Fe 271.441	5008.86	5005.70	5036.23
K 766.491	4915.19	4922.91	4943.48
Mg 279.078	4975.31	4968.90	5003.26
Mn 257.610	544.648	545.718	547.096
Mo 202.032	100.538	100.859	101.706
Na 330.237	5236.38	5086.86	5218.70
Ni 231.604	104.665	108.007	104.782
Pb 220.353	53.3606	52.7060	51.4975
Sb 206.834	51.0642	43.4650	48.2151
Se 196.026	105.595	94.4416	101.885
Sn 189.925	207.671	207.760	216.578
Sr 216.596	102.200	101.983	102.420
Ti 334.941	100.774	100.943	101.310
Tl 190.794	40.6071	44.0481	40.4800
V 292.401	102.543	103.110	102.847
Zn 206.200	109.542	110.234	111.156

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.0282	ppb	0.5701	6.3	703.827
Al 308.215	5205.26	ppb	17.9572	0.3	11439.1
As 188.980	109.569	ppb	2.7492	2.5	57.0628
B 249.678	187.720	ppb	1.7393	0.9	2358.65
Ba 389.178	104.049	ppb	0.6833	0.7	2272.64
Be 313.042	52.6188	ppb	0.1415	0.3	92098.4
Ca 370.602	4999	ppb	12.76	0.3	13390
Cd 226.502	53.4818	ppb	0.2987	0.6	1867.76
Co 228.615	52.9315	ppb	0.5072	1.0	524.676
Cr 267.716	107.407	ppb	0.4163	0.4	3323.39
Cu 324.754	106.918	ppb	1.2174	1.1	5772.38
Fe 271.441	5016.93	ppb	16.7939	0.3	8320.52
K 766.491	4927.20	ppb	14.6239	0.3	156891
Mg 279.078	4982.49	ppb	18.2693	0.4	9965.48
Mn 257.610	545.821	ppb	1.2275	0.2	126876
Mo 202.032	101.034	ppb	0.6036	0.6	738.170
Na 330.237	5180.64	ppb	81.7009	1.6	278.748
Ni 231.604	105.818	ppb	1.8964	1.8	267.331
Pb 220.353	52.5214	ppb	0.9452	1.8	117.304
Sb 206.834	47.5815	ppb	3.8390	8.1	44.1155
Se 196.026	100.640	ppb	5.6798	5.6	57.0882
Sn 189.925	210.670	ppb	5.1167	2.4	148.083
Sr 216.596	102.201	ppb	0.2185	0.2	1026.28
Ti 334.941	101.009	ppb	0.2741	0.3	25874.7
Tl 190.794	41.7117	ppb	2.0243	4.9	26.7021
V 292.401	102.833	ppb	0.2838	0.3	2712.41
Zn 206.200	110.311	ppb	0.8997	0.7	145.588

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

ics 680-272935/3-a (Samp) 4/17/2013, 12:58:40 PM Rack 1, Tube 5
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	204.107	205.077	205.735
Al 308.215	2263.17	2271.61	2267.32
As 188.980	214.076	227.633	217.605
B 249.678	387.974	389.554	392.067
Ba 389.178	205.578	206.537	206.854
Be 313.042	212.552	213.238	214.155
Ca 370.602	20334	20413	20459
Cd 226.502	211.782	211.101	212.692
Co 228.615	212.596	212.409	213.527
Cr 267.716	213.419	213.609	214.405
Cu 324.754	215.476	216.427	219.841
Fe 271.441	20952.2	21039.6	21124.9
K 766.491	20061.6	20168.2	20188.4
Mg 279.078	20189.6	20219.5	20322.7
Mn 257.610	2190.34	2197.65	2205.71
Mo 202.032	205.401	206.083	205.550
Na 330.237	18033.2	18442.6	18001.9
Ni 231.604	210.706	207.824	209.398
Pb 220.353	201.974	204.146	201.828
Sb 206.834	200.089	197.664	200.118
Se 196.026	198.927	202.840	201.870
Sn 189.925	214.275	212.325	211.006
Sr 216.596	216.810	217.958	217.867
Ti 334.941	204.943	205.602	206.429
Tl 190.794	42.6387	43.3573	42.7981
V 292.401	207.860	208.509	209.675
Zn 206.200	202.102	202.839	206.617

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	204.973	ppb	0.8189	0.4	15467.3
Al 308.215	2267.37	ppb	4.2226	0.2	4976.21
As 188.980	219.771	ppb	7.0338	3.2	124.086
B 249.678	389.865	ppb	2.0641	0.5	4678.69
Ba 389.178	206.323	ppb	0.6644	0.3	4525.31
Be 313.042	213.315	ppb	0.8042	0.4	371532
Ca 370.602	20402	ppb	63.53	0.3	54519
Cd 226.502	211.859	ppb	0.7986	0.4	7273.18
Co 228.615	212.844	ppb	0.5987	0.3	2116.37
Cr 267.716	213.811	ppb	0.5230	0.2	6610.67
Cu 324.754	217.248	ppb	2.2952	1.1	11514.8
Fe 271.441	21038.9	ppb	86.3741	0.4	34523.9
K 766.491	20139.4	ppb	68.1392	0.3	639827
Mg 279.078	20243.9	ppb	69.8334	0.3	40389.2
Mn 257.610	2197.90	ppb	7.6893	0.3	509612
Mo 202.032	205.678	ppb	0.3585	0.2	1479.93
Na 330.237	18159.2	ppb	245.901	1.4	839.398
Ni 231.604	209.310	ppb	1.4430	0.7	533.466
Pb 220.353	202.649	ppb	1.2980	0.6	373.278
Sb 206.834	199.290	ppb	1.4083	0.7	194.683
Se 196.026	201.212	ppb	2.0380	1.0	104.002
Sn 189.925	212.535	ppb	1.6446	0.8	149.450
Sr 216.596	217.545	ppb	0.6383	0.3	2134.75
Ti 334.941	205.658	ppb	0.7443	0.4	52630.8
Tl 190.794	42.9314	ppb	0.3774	0.9	24.8429
V 292.401	208.681	ppb	0.9193	0.4	5487.69
Zn 206.200	203.852	ppb	2.4221	1.2	265.620

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640-43136-b-1-a (Samp) **4/17/2013, 1:04:15 PM** **Rack 1, Tube 6**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.6529u	-1.6077u	-1.2925u
Al 308.215	230132	233032	232732
As 188.980	53.7771	59.4860	62.3351
B 249.678	-8.2714u	-9.0194u	-9.9508u
Ba 389.178	262.168	265.730	265.414
Be 313.042	1.6081	1.6481	1.6898
Ca 370.602	3832u	3813u	3808u
Cd 226.502	2.3878	2.3298	2.7387
Co 228.615	3.7800	4.1475	3.9736
Cr 267.716	275.923	279.810	279.677
Cu 324.754	12.3728	13.2098	12.0385
Fe 271.441	202532	204649	204745
K 766.491	537.895	544.526	551.672
Mg 279.078	1133.47	1143.58	1150.98
Mn 257.610	152.485	154.253	154.595
Mo 202.032	14.0111	14.1661	14.8715
Na 330.237	463.621u	146.263u	314.455u
Ni 231.604	28.4161	29.0262	27.6310
Pb 220.353	77.6208	81.2730	85.1115
Sb 206.834	5.5652	-1.4214	1.5034
Se 196.026	-14.2935u	-1.1097u	-12.8343u
Sn 189.925	19.3051	17.2472	22.3332
Sr 216.596	162.513	163.875	163.147
Ti 334.941	1074.00	1084.94	1084.53
Tl 190.794	-2.5736u	-6.6389u	-5.2368u
V 292.401	560.835	566.551	566.595
Zn 206.200	69.4712	72.4488	70.4334

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.5177	ppb	0.1963	12.9	-92.0348
Al 308.215	231965	ppb	1594.70	0.7	510622
As 188.980	58.5327	ppb	4.3579	7.4	23.9974
B 249.678	-9.0805	ppb	0.8413	9.3	-147.512
Ba 389.178	264.437	ppb	1.9713	0.7	5965.73
Be 313.042	1.6486	ppb	0.0408	2.5	3473.86
Ca 370.602	3818	ppb	12.80	0.3	-3625
Cd 226.502	2.4855	ppb	0.2213	8.9	578.189
Co 228.615	3.9670	ppb	0.1839	4.6	56.2360
Cr 267.716	278.470	ppb	2.2067	0.8	8628.21
Cu 324.754	12.5404	ppb	0.6033	4.8	920.036
Fe 271.441	203975	ppb	1251.17	0.6	333400
K 766.491	544.698	ppb	6.8903	1.3	17762.0
Mg 279.078	1142.67	ppb	8.7883	0.8	2285.62
Mn 257.610	153.778	ppb	1.1326	0.7	36606.9
Mo 202.032	14.3496	ppb	0.4586	3.2	112.286
Na 330.237	308.113	ppb	158.774	51.5	9.5189
Ni 231.604	28.3578	ppb	0.6994	2.5	72.4934
Pb 220.353	81.3351	ppb	3.7457	4.6	164.477
Sb 206.834	1.8824	ppb	3.5087	186.4	5.9931
Se 196.026	-9.4125	ppb	7.2274	76.8	5.8825
Sn 189.925	19.6285	ppb	2.5584	13.0	9.1584
Sr 216.596	163.178	ppb	0.6813	0.4	1687.30
Ti 334.941	1081.16	ppb	6.2039	0.6	275897
Tl 190.794	-4.8164	ppb	2.0650	42.9	-27.0401
V 292.401	564.660	ppb	3.3132	0.6	14947.3
Zn 206.200	70.7845	ppb	1.5195	2.1	943177

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640-43136-b-2-a (Samp) **4/17/2013, 1:09:50 PM** **Rack 1, Tube 7**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.6729u	-1.4833u	-1.2719u
Al 308.215	88341.2	87831.8	88187.1
As 188.980	77.3277	65.8889	73.0288
B 249.678	-24.3287u	-26.0369u	-25.0927u
Ba 389.178	242.487	238.358	239.532
Be 313.042	1.7013	1.6804	1.6908
Ca 370.602	-896.0u	-827.5u	-880.8u
Cd 226.502	3.4908	3.1040	2.9817
Co 228.615	-0.7282	-0.8867	-0.4246
Cr 267.716	449.411	446.987	448.379
Cu 324.754	4.6496	3.6295	3.7715
Fe 271.441	345267	344095	344958
K 766.491	281.396	278.454	279.260
Mg 279.078	297.922	295.259	298.960
Mn 257.610	48.4199	47.9324	48.0742
Mo 202.032	10.8669	11.1902	11.1647
Na 330.237	3.2417u	399.528u	157.794u
Ni 231.604	6.8945	7.4646	9.9791
Pb 220.353	51.6931	51.8474	47.8626
Sb 206.834	-5.3546	1.7561	-0.3013
Se 196.026	-2.1386u	-0.6672u	-5.8118u
Sn 189.925	21.3707	21.0897	22.2196
Sr 216.596	134.864	134.163	134.598
Ti 334.941	1365.71	1353.00	1357.19
Tl 190.794	-2.6174u	-5.4994u	-7.5951u
V 292.401	728.551	719.707	720.562
Zn 206.200	18.5638	17.3389	18.6555

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.4760	ppb	0.2006	13.6	-88.3263
Al 308.215	88120.0	ppb	261.251	0.3	193959
As 188.980	72.0818	ppb	5.7779	8.0	30.7851
B 249.678	-25.1527	ppb	0.8557	3.4	-496.028
Ba 389.178	240.126	ppb	2.1276	0.9	5627.62
Be 313.042	1.6908	ppb	0.0104	0.6	3526.45
Ca 370.602	-868.1	ppb	35.96	4.1	-26287
Cd 226.502	3.1922	ppb	0.2657	8.3	913.536
Co 228.615	-0.6799	ppb	0.2348	34.5	12.6563
Cr 267.716	448.259	ppb	1.2163	0.3	13884.3
Cu 324.754	4.0169	ppb	0.5526	13.8	518.572
Fe 271.441	344774	ppb	607.399	0.2	563455
K 766.491	279.703	ppb	1.5201	0.5	9349.32
Mg 279.078	297.381	ppb	1.9088	0.6	662.734
Mn 257.610	48.1422	ppb	0.2508	0.5	12524.7
Mo 202.032	11.0739	ppb	0.1797	1.6	81.8292
Na 330.237	186.855	ppb	199.735	106.9	-33.0862
Ni 231.604	8.1127	ppb	1.6412	20.2	23.3061
Pb 220.353	50.4677	ppb	2.2574	4.5	112.610
Sb 206.834	-1.3000	ppb	3.6590	281.5	7.7356
Se 196.026	-2.8725	ppb	2.6496	92.2	8.7564
Sn 189.925	21.5600	ppb	0.5883	2.7	10.5578
Sr 216.596	134.541	ppb	0.3539	0.3	1463.97
Ti 334.941	1358.63	ppb	6.4762	0.5	346678
Tl 190.794	-5.2373	ppb	2.4991	47.7	-34.1758
V 292.401	722.940	ppb	4.8783	0.7	19129.5
Zn 206.200	18.1861	ppb	0.7351	4.0	26.2364

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640-43136-b-3-a (Samp) **4/17/2013, 1:15:26 PM** **Rack 1, Tube 8**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-3.1245u	-3.7162u	-3.5144u
Al 308.215	204513	204710	204899
As 188.980	43.2920	46.6916	44.7354
B 249.678	-14.9803u	-13.7372u	-15.5151u
Ba 389.178	316.216	316.491	316.451
Be 313.042	1.9577	1.9864	1.9737
Ca 370.602	3011u	3028u	3022u
Cd 226.502	1.4970	1.6569	1.9563
Co 228.615	6.2429	5.6905	5.4092
Cr 267.716	191.927	192.077	192.290
Cu 324.754	14.2974	15.0835	14.4910
Fe 271.441	156069	156495	156075
K 766.491	852.568	855.244	849.934
Mg 279.078	1656.67	1660.42	1662.60
Mn 257.610	198.971	199.500	198.917
Mo 202.032	12.6266	11.9721	11.2775
Na 330.237	321.261u	-7.1769u	-69.9327u
Ni 231.604	37.5185	37.9685	40.6316
Pb 220.353	85.0982	84.9134	85.1816
Sb 206.834	3.3086	1.4622	-2.1684
Se 196.026	-1.4903u	-3.6873u	-11.2675u
Sn 189.925	11.9097	11.4362	11.7096
Sr 216.596	35.2452	34.7164	35.6111
Ti 334.941	951.686	951.885	950.613
Tl 190.794	-4.2981u	2.7866u	0.4997u
V 292.401	425.550	426.522	424.903
Zn 206.200	44.3846	43.7198	41.2157

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.4517	ppb	0.3008	8.7	-232.566
Al 308.215	204707	ppb	193.125	0.1	450618
As 188.980	44.9063	ppb	1.7063	3.8	16.1796
B 249.678	-14.7442	ppb	0.9121	6.2	-157.981
Ba 389.178	316.386	ppb	0.1483	0.0	7018.43
Be 313.042	1.9726	ppb	0.0144	0.7	4040.51
Ca 370.602	3020	ppb	8.897	0.3	-2489
Cd 226.502	1.7034	ppb	0.2332	13.7	446.244
Co 228.615	5.7809	ppb	0.4242	7.3	72.6019
Cr 267.716	192.098	ppb	0.1825	0.1	5957.83
Cu 324.754	14.6240	ppb	0.4096	2.8	1015.04
Fe 271.441	156213	ppb	244.330	0.2	255359
K 766.491	852.582	ppb	2.6548	0.3	27536.3
Mg 279.078	1659.89	ppb	3.0005	0.2	3316.01
Mn 257.610	199.129	ppb	0.3223	0.2	46981.8
Mo 202.032	11.9587	ppb	0.6747	5.6	97.9137
Na 330.237	81.3837	ppb	210.096	258.2	12.7910
Ni 231.604	38.7062	ppb	1.6826	4.3	98.0946
Pb 220.353	85.0644	ppb	0.1372	0.2	171.096
Sb 206.834	0.8674	ppb	2.7865	321.2	3.1151
Se 196.026	-5.4817	ppb	5.1296	93.6	7.7556
Sn 189.925	11.6852	ppb	0.2377	2.0	3.3831
Sr 216.596	35.1909	ppb	0.4499	1.3	442.376
Ti 334.941	951.395	ppb	0.6841	0.1	242794
Tl 190.794	-0.3373	ppb	3.6157	1072.1	-20.5094
V 292.401	425.659	ppb	0.8148	0.2	11274.6
Zn 206.200	43.1067	ppb	1.6711	3.9	589426

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640-43136-b-4-a (Samp) 4/17/2013, 1:21:02 PM Rack 1, Tube 9
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.7204u	-1.2626u	-2.2446u
Al 308.215	140814	140304	138743
As 188.980	29.8883	34.0687	32.5044
B 249.678	-13.0201u	-12.5649u	-13.3177u
Ba 389.178	93.5887	93.8820	93.3777
Be 313.042	0.5913	0.5936	0.6000
Ca 370.602	1912u	1905u	1926u
Cd 226.502	1.1224	1.0005	1.3970
Co 228.615	2.2577	2.6275	2.5868
Cr 267.716	151.747	151.452	150.305
Cu 324.754	10.2130	10.3066	10.5419
Fe 271.441	119882	119460	119313
K 766.491	595.083	594.220	593.852
Mg 279.078	991.252	990.439	985.562
Mn 257.610	109.851	109.729	109.810
Mo 202.032	10.2644	8.2724	8.8791
Na 330.237	40.7634u	392.355u	219.811u
Ni 231.604	22.3226	21.5028	20.9347
Pb 220.353	61.4988	58.7806	58.5165
Sb 206.834	1.8203	4.1622	0.2238
Se 196.026	-1.0926u	-12.4486u	-7.5839u
Sn 189.925	15.8024	10.8331	7.2234
Sr 216.596	29.3161	29.0496	29.0016
Ti 334.941	796.766	794.636	791.895
Tl 190.794	-4.7338u	-7.7571u	-3.6139u
V 292.401	333.762	333.472	333.347
Zn 206.200	24.2043	21.9395	20.8588

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.7426	ppb	0.4914	28.2	-104.620
Al 308.215	139954	ppb	1079.18	0.8	308068
As 188.980	32.1538	ppb	2.1122	6.6	8.7805
B 249.678	-12.9675	ppb	0.3792	2.9	-94.9777
Ba 389.178	93.6161	ppb	0.2533	0.3	2189.43
Be 313.042	0.5950	ppb	0.0045	0.8	1643.27
Ca 370.602	1914	ppb	10.77	0.6	-2970
Cd 226.502	1.1733	ppb	0.2031	17.3	346.958
Co 228.615	2.4907	ppb	0.2028	8.1	37.3185
Cr 267.716	151.168	ppb	0.7616	0.5	4689.67
Cu 324.754	10.3538	ppb	0.1695	1.6	782.620
Fe 271.441	119552	ppb	295.262	0.2	195456
K 766.491	594.385	ppb	0.6319	0.1	19339.4
Mg 279.078	989.084	ppb	3.0776	0.3	1990.03
Mn 257.610	109.797	ppb	0.0622	0.1	26188.6
Mo 202.032	9.1387	ppb	1.0210	11.2	79.8731
Na 330.237	217.643	ppb	175.806	80.8	29.2589
Ni 231.604	21.5867	ppb	0.6977	3.2	53.3559
Pb 220.353	59.5986	ppb	1.6509	2.8	128.183
Sb 206.834	2.0688	ppb	1.9809	95.8	3.0901
Se 196.026	-7.0417	ppb	5.6974	80.9	7.0465
Sn 189.925	11.2863	ppb	4.3074	38.2	3.0935
Sr 216.596	29.1224	ppb	0.1694	0.6	371.031
Ti 334.941	794.432	ppb	2.4420	0.3	202748
Tl 190.794	-5.3683	ppb	2.1432	39.9	-23.4471
V 292.401	333.527	ppb	0.2129	0.1	8838.62
Zn 206.200	22.3342	ppb	1.7073	7.6	32.3332

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

640-43136-b-5-a (Samp) 4/17/2013, 1:26:48 PM Rack 1, Tube 10

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9425u	-1.1141u	-1.5330u
Al 308.215	268762	268817	267042
As 188.980	103.003	94.3965	102.851
B 249.678	-24.6217u	-24.7454u	-24.4238u
Ba 389.178	158.325	157.796	159.529
Be 313.042	1.5734	1.5825	1.5711
Ca 370.602	2601u	2626u	2684u
Cd 226.502	4.1652	4.4297	4.3230
Co 228.615	3.8343	3.8076	3.9945
Cr 267.716	409.585	409.638	406.116
Cu 324.754	11.3042	11.6270	10.3197
Fe 271.441	344668	352402	350960
K 766.491	570.190	569.870	569.519
Mg 279.078	1392.07	1398.20	1388.34
Mn 257.610	138.986	138.990	138.982
Mo 202.032	27.3033	28.6406	27.2708
Na 330.237	46.9673u	76.7986u	352.319u
Ni 231.604	29.7891	28.8379	28.2412
Pb 220.353	118.683	118.885	114.320
Sb 206.834	6.1438	7.4495	5.8429
Se 196.026	4.0612	-5.0960u	-0.5470u
Sn 189.925	23.9869	21.1386	27.0714
Sr 216.596	97.1501	96.8324	95.7592
Ti 334.941	1402.65	1404.36	1402.26
Tl 190.794	-3.8300u	-7.5662u	-6.2495u
V 292.401	981.736	981.980	981.596
Zn 206.200	51.2309	49.6499	48.9164

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1965	ppb	0.3038	25.4	-62.7300
Al 308.215	268207	ppb	1008.99	0.4	590402
As 188.980	100.084	ppb	4.9258	4.9	47.8095
B 249.678	-24.5970	ppb	0.1623	0.7	-494.489
Ba 389.178	158.550	ppb	0.8883	0.6	3886.42
Be 313.042	1.5757	ppb	0.0060	0.4	3330.88
Ca 370.602	2637	ppb	42.58	1.6	-16972
Cd 226.502	4.3060	ppb	0.1331	3.1	960.682
Co 228.615	3.8788	ppb	0.1011	2.6	58.1559
Cr 267.716	408.446	ppb	2.0182	0.5	12656.8
Cu 324.754	11.0836	ppb	0.6810	6.1	885.026
Fe 271.441	349343	ppb	4112.87	1.2	570924
K 766.491	569.860	ppb	0.3359	0.1	18560.8
Mg 279.078	1392.87	ppb	4.9781	0.4	2800.92
Mn 257.610	138.986	ppb	0.0041	0.0	33580.9
Mo 202.032	27.7382	ppb	0.7817	2.8	199.422
Na 330.237	158.695	ppb	168.345	106.1	-35.8374
Ni 231.604	28.9561	ppb	0.7807	2.7	76.9868
Pb 220.353	117.296	ppb	2.5795	2.2	225.352
Sb 206.834	6.4787	ppb	0.8541	13.2	14.8354
Se 196.026	-0.5273	ppb	4.5786	868.4	9.8590
Sn 189.925	24.0656	ppb	2.9672	12.3	12.3808
Sr 216.596	96.5806	ppb	0.7288	0.8	1100.89
Ti 334.941	1403.09	ppb	1.1145	0.1	358031
Tl 190.794	-5.8819	ppb	1.8951	32.2	-35.0126
V 292.401	981.770	ppb	0.1946	0.0	25974.4
Zn 206.200	49.9324	ppb	1.1828	2.4	671766

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

640-43136-b-6-a (Samp) 4/17/2013, 1:32:25 PM Rack 1, Tube 11
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.1216u	-1.6286u	-1.1996u
Al 308.215	217590	217493	218740
As 188.980	87.5111	91.2616	83.3999
B 249.678	-27.5242u	-27.2515u	-28.6481u
Ba 389.178	977.868	977.845	980.069
Be 313.042	4.0327	4.0383	4.0705
Ca 370.602	2232u	2235u	2180u
Cd 226.502	3.9554	4.2506	4.2176
Co 228.615	2.4320	1.5974	1.1137
Cr 267.716	442.878	443.887	446.366
Cu 324.754	31.8383	32.4681	33.0406
Fe 271.441	333922	334942	336368
K 766.491	854.136	857.775	860.421
Mg 279.078	2046.98	2048.57	2057.42
Mn 257.610	156.862	157.305	157.456
Mo 202.032	16.7165	17.2283	17.0071
Na 330.237	398.068u	511.575u	97.8584u
Ni 231.604	27.3561	26.2344	30.0118
Pb 220.353	81.5653	78.8910	81.5540
Sb 206.834	4.6469	-4.4619	-3.1683
Se 196.026	1.9138	-2.8958u	-9.9363u
Sn 189.925	26.4396	23.8925	26.6418
Sr 216.596	802.444	801.446	807.198
Ti 334.941	1694.37	1695.89	1702.84
Tl 190.794	-4.9799u	-0.5952u	-5.5460u
V 292.401	817.117	819.661	821.990
Zn 206.200	71.5355	72.1834	71.3571

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.3166	ppb	0.2730	20.7	-104.536
Al 308.215	217941	ppb	693.478	0.3	479747
As 188.980	87.3909	ppb	3.9322	4.5	40.2231
B 249.678	-27.8080	ppb	0.7403	2.7	-515.456
Ba 389.178	978.594	ppb	1.2774	0.1	21460.9
Be 313.042	4.0472	ppb	0.0204	0.5	7631.41
Ca 370.602	2216	ppb	30.90	1.4	-17098
Cd 226.502	4.1412	ppb	0.1617	3.9	924.115
Co 228.615	1.7143	ppb	0.6669	38.9	44.0552
Cr 267.716	444.377	ppb	1.7949	0.4	13763.9
Cu 324.754	32.4490	ppb	0.6014	1.9	1992.79
Fe 271.441	335077	ppb	1228.65	0.4	547613
K 766.491	857.444	ppb	3.1553	0.4	27690.6
Mg 279.078	2050.99	ppb	5.6252	0.3	4123.96
Mn 257.610	157.208	ppb	0.3085	0.2	37766.4
Mo 202.032	16.9840	ppb	0.2567	1.5	124.078
Na 330.237	335.834	ppb	213.764	63.7	-26.6325
Ni 231.604	27.8674	ppb	1.9399	7.0	73.8897
Pb 220.353	80.6701	ppb	1.5408	1.9	163.098
Sb 206.834	-0.9944	ppb	4.9281	495.6	7.6920
Se 196.026	-3.6394	ppb	5.9600	163.8	8.4355
Sn 189.925	25.6580	ppb	1.5323	6.0	13.5389
Sr 216.596	803.696	ppb	3.0737	0.4	7877.43
Ti 334.941	1697.70	ppb	4.5119	0.3	433176
Tl 190.794	-3.7070	ppb	2.7098	73.1	-32.3303
V 292.401	819.589	ppb	2.4376	0.3	21689.3
Zn 206.200	71.6920	ppb	0.4348	0.6	95.0651

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680-89242-a-1-b (Samp) 4/17/2013, 1:38:02 PM Rack 1, Tube 12

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.5944u	-1.2123u	-1.7446u
Al 308.215	14391.5	14477.7	14509.2
As 188.980	546.200	533.916	543.020
B 249.678	-0.2040u	0.0846u	0.9520u
Ba 389.178	346.113	347.223	346.822
Be 313.042	0.5368	0.5412	0.5431
Ca 370.602	52738	52798	52801
Cd 226.502	1.1437	1.5266	1.3240
Co 228.615	3.4766	3.3537	3.2131
Cr 267.716	25.1496	25.4457	25.4749
Cu 324.754	41.3575	41.7224	41.1754
Fe 271.441	18639.7	18691.6	18847.6
K 766.491	1944.01	1952.67	1977.86
Mg 279.078	4097.33	4097.49	4088.64
Mn 257.610	570.159	570.240	570.276
Mo 202.032	0.0195u	0.2850	0.1623
Na 330.237	224.281u	394.918	352.766
Ni 231.604	8.5548	8.1513	7.6261
Pb 220.353	336.476	335.699	335.640
Sb 206.834	5.5613	9.3416	3.2581
Se 196.026	-6.5077u	3.1959	2.5889
Sn 189.925	19.6227	13.4454	15.8578
Sr 216.596	97.8167	97.4525	98.0119
Ti 334.941	775.595	778.270	778.660
Tl 190.794	-2.5108u	0.9754u	-1.4789u
V 292.401	46.5692	45.9127	46.5603
Zn 206.200	481.955	490.777	483.840

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.5171	ppb	0.2744	18.1	-90.7218
Al 308.215	14459.5	ppb	60.8929	0.4	31806.6
As 188.980	541.045	ppb	6.3753	1.2	320.004
B 249.678	0.2775	ppb	0.6017	216.8	174.439
Ba 389.178	346.719	ppb	0.5618	0.2	7493.65
Be 313.042	0.5404	ppb	0.0032	0.6	1566.52
Ca 370.602	52779	ppb	35.34	0.1	143426
Cd 226.502	1.3314	ppb	0.1916	14.4	129.826
Co 228.615	3.3478	ppb	0.1319	3.9	48.3293
Cr 267.716	25.3568	ppb	0.1800	0.7	796.531
Cu 324.754	41.4184	ppb	0.2786	0.7	2369.27
Fe 271.441	18726.3	ppb	108.237	0.6	30712.9
K 766.491	1958.18	ppb	17.5858	0.9	62635.3
Mg 279.078	4094.49	ppb	5.0688	0.1	8193.55
Mn 257.610	570.225	ppb	0.0598	0.0	132561
Mo 202.032	0.1556	ppb	0.1329	85.4	21.5849
Na 330.237	323.988	ppb	88.8840	27.4	56.6755
Ni 231.604	8.1107	ppb	0.4657	5.7	16.6586
Pb 220.353	335.938	ppb	0.4664	0.1	600.025
Sb 206.834	6.0537	ppb	3.0715	50.7	3.6584
Se 196.026	-0.2410	ppb	5.4356	2255.6	10.3923
Sn 189.925	16.3086	ppb	3.1132	19.1	6.7669
Sr 216.596	97.7604	ppb	0.2839	0.3	997.761
Ti 334.941	777.508	ppb	1.6684	0.2	198429
Tl 190.794	-1.0048	ppb	1.7908	178.2	-15.0663
V 292.401	46.3474	ppb	0.3765	0.8	1252.37
Zn 206.200	485.524	ppb	4.6458	217.0	628.344

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

Cont Calib Verif (CCV) 4/17/2013, 1:43:37 PM Rack 1, Tube 13
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	493.610	489.708	488.265
Al 308.215	5012.63	5015.97	5031.73
As 188.980	482.495	484.805	483.861
B 249.678	499.077	500.526	501.584
Ba 389.178	5157.29	5145.19	5122.14
Be 313.042	520.899	518.262	515.618
Ca 370.602	5036	5028	5013
Cd 226.502	521.274	520.127	518.512
Co 228.615	523.853	522.684	520.346
Cr 267.716	5209.15	5196.65	5176.15
Cu 324.754	5229.26	5262.25	5189.08
Fe 271.441	5041.63	5042.33	5051.05
K 766.491	10014.6	10009.5	9957.87
Mg 279.078	5007.16	4996.12	4974.18
Mn 257.610	5246.72	5231.84	5205.97
Mo 202.032	498.082	496.221	493.381
Na 330.237	7261.55	7143.38	7187.58
Ni 231.604	2632.89	2615.19	2616.96
Pb 220.353	501.803	500.499	501.789
Sb 206.834	936.480	933.026	928.946
Se 196.026	5029.40	5000.54	4995.77
Sn 189.925	5050.70	5029.51	5037.30
Sr 216.596	2548.24	2540.98	2531.77
Ti 334.941	500.795	499.880	498.548
Tl 190.794	5059.13	5059.40	5043.87
V 292.401	4990.44	4977.87	4955.85
Zn 206.200	2611.38	2600.63	2597.23

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	490.528	ppb	2.7652	0.6	36918.2	98.10554
Al 308.215	5020.11	ppb	10.2004	0.2	11018.3	100.40225
As 188.980	483.721	ppb	1.1616	0.2	284.717	96.74411
B 249.678	500.396	ppb	1.2583	0.3	5975.72	20.01583Q
Ba 389.178	5141.54	ppb	17.8614	0.3	110349	102.83084
Be 313.042	518.260	ppb	2.6406	0.5	901628	103.65200
Ca 370.602	5026	ppb	11.78	0.2	13674	100.52058
Cd 226.502	519.971	ppb	1.3875	0.3	17684.6	103.99422
Co 228.615	522.294	ppb	1.7854	0.3	5207.76	104.45885
Cr 267.716	5193.98	ppb	16.6599	0.3	160179	103.87968
Cu 324.754	5226.87	ppb	36.6432	0.7	271896	104.53735
Fe 271.441	5045.00	ppb	5.2490	0.1	8479.79	100.90009
K 766.491	9994.00	ppb	31.3967	0.3	317745	99.94005
Mg 279.078	4992.48	ppb	16.7872	0.3	9914.38	99.84970
Mn 257.610	5228.18	ppb	20.6175	0.4	1211256	104.56354
Mo 202.032	495.895	ppb	2.3675	0.5	3531.81	99.17895
Na 330.237	7197.50	ppb	59.7043	0.8	348.380	95.96673
Ni 231.604	2621.68	ppb	9.7510	0.4	6729.13	104.86709
Pb 220.353	501.364	ppb	0.7485	0.1	882.330	100.27274
Sb 206.834	932.817	ppb	3.7714	0.4	963.746	93.28172
Se 196.026	5008.57	ppb	18.1990	0.4	2329.62	100.17136
Sn 189.925	5039.17	ppb	10.7171	0.2	3659.20	100.78337
Sr 216.596	2540.33	ppb	8.2542	0.3	24357.6	101.61328
Ti 334.941	499.741	ppb	1.1299	0.2	127580	99.94827
Tl 190.794	5054.14	ppb	8.8881	0.2	4839.30	101.08270
V 292.401	4974.72	ppb	17.5084	0.4	131204	99.49448
Zn 206.200	2603.08	ppb	7.3894	0.3	3338.66	104.12315

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

Cont Calib Blank (CCB) 4/17/2013, 1:49:10 PM Rack 1, Tube 14
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9997u	-0.6771u	-0.4403u
Al 308.215	3.8235	2.2325	12.9891
As 188.980	-3.2289u	-4.3206u	3.2751
B 249.678	0.2926	0.1310	-1.2448u
Ba 389.178	-0.9102u	0.2122	-0.4877u
Be 313.042	-0.4690u	-0.4365u	-0.4038u
Ca 370.602	-5.250u	-2.900u	0.4747
Cd 226.502	-0.3887u	-0.2825u	-0.4280u
Co 228.615	-0.2469u	-0.2184u	-0.6284u
Cr 267.716	-0.6298u	-0.1993u	-0.0293u
Cu 324.754	-0.0936u	0.5782	0.1754
Fe 271.441	-7.7689u	-5.2254u	4.6925
K 766.491	-5.5396u	-3.8781u	-4.4655u
Mg 279.078	-5.0875u	0.7766	-1.3657u
Mn 257.610	-0.7054u	-0.3249u	-0.0728u
Mo 202.032	-0.2008u	-0.3856u	-0.8595u
Na 330.237	-28.4962u	-261.439u	-137.302u
Ni 231.604	0.0032	0.8476	1.4771
Pb 220.353	3.4295	1.4958	-2.3581u
Sb 206.834	2.6881	0.8286	-0.1032u
Se 196.026	-8.8777u	0.9497	-5.7970u
Sn 189.925	-1.5909u	-2.4852u	-2.3481u
Sr 216.596	-2.3981u	-2.4038u	-2.2815u
Ti 334.941	-0.3049u	-0.2433u	-0.2840u
Tl 190.794	2.6520	-1.1724u	4.0202
V 292.401	-0.0898u	0.5321	0.2666
Zn 206.200	-2.7659u	-1.1794u	-0.3935u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.7057	ppb	0.2808	39.8	-27.8386	-0.70567
Al 308.215	6.3483	ppb	5.8058	91.5	-10.2310	6.34834
As 188.980	-1.4248	ppb	4.1067	288.2	-10.4669	-1.42480
B 249.678	-0.2737	ppb	0.8449	308.7	189.640	-0.27370
Ba 389.178	-0.3953	ppb	0.5669	143.4	12.7549	-0.39527
Be 313.042	-0.4365	ppb	0.0326	7.5	-147.727	-0.43645
Ca 370.602	-2.558	ppb	2.877	112.5	10.35	-2.55843
Cd 226.502	-0.3664	ppb	0.0752	20.5	30.8728	-0.36640
Co 228.615	-0.3645	ppb	0.2289	62.8	-5.4575	-0.36455
Cr 267.716	-0.2861	ppb	0.3095	108.2	0.5172	-0.28614
Cu 324.754	0.2200	ppb	0.3381	153.7	222.254	0.21998
Fe 271.441	-2.7672	ppb	6.5843	237.9	109.803	-2.76722
K 766.491	-4.6277	ppb	0.8425	18.2	322.790	-4.62773
Mg 279.078	-1.8922	ppb	2.9673	156.8	30.8468	-1.89220
Mn 257.610	-0.3677	ppb	0.3184	86.6	342.465	-0.36771
Mo 202.032	-0.4820	ppb	0.3397	70.5	18.0636	-0.48195
Na 330.237	-142.413	ppb	116.556	81.8	49.2524	-142.41252
Ni 231.604	0.7759	ppb	0.7396	95.3	-2.5651	0.77595
Pb 220.353	0.8557	ppb	2.9464	344.3	29.3798	0.85573
Sb 206.834	1.1378	ppb	1.4211	124.9	-1.8490	1.13785
Se 196.026	-4.5750	ppb	5.0264	109.9	8.2715	-4.57504
Sn 189.925	-2.1414	ppb	0.4817	22.5	-6.6685	-2.14136
Sr 216.596	-2.3611	ppb	0.0690	2.9	26.0829	-2.36114
Ti 334.941	-0.2774	ppb	0.0313	11.3	18.4364	-0.27743
Tl 190.794	1.8333	ppb	2.6914	146.8	-10.6363	1.83330
V 292.401	0.2363	ppb	0.3120	132.0	22.6499	0.23630
Zn 206.200	-1.4463	ppb	1.2985	89.5	27.1314	-1.44627

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680-89242-a-1-b (Samp) 4/17/2013, 1:54:44 PM Rack 1, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.2295u	-1.0328u	-1.0640u
Al 308.215	2803.36	2802.98	2838.18
As 188.980	110.269	105.330	107.669
B 249.678	-3.8906u	-3.8101u	-3.9983u
Ba 389.178	67.7530	66.7265	67.1842
Be 313.042	-0.3454u	-0.3429u	-0.3391u
Ca 370.602	10399	10365	10455
Cd 226.502	-0.0001	-0.0193	-0.1631
Co 228.615	0.0682	0.5339	-0.3931u
Cr 267.716	4.1506	4.2372	4.3278
Cu 324.754	7.7367	7.4180	7.4364
Fe 271.441	3732.66	3709.15	3731.53
K 766.491	379.422	377.307	378.372
Mg 279.078	830.776	832.175	831.503
Mn 257.610	113.639	113.066	113.707
Mo 202.032	-0.5775u	-0.8585u	-0.3820u
Na 330.237	-143.167u	113.381	60.2289
Ni 231.604	0.7859	-0.1046u	0.3665
Pb 220.353	69.8374	70.4733	66.5179
Sb 206.834	-0.1257	4.1803	2.4078
Se 196.026	-6.3328u	-6.8701u	0.9665
Sn 189.925	-1.1535u	-1.6306u	-3.7641u
Sr 216.596	16.7494	16.9384	16.7640
Ti 334.941	153.925	152.676	154.082
Tl 190.794	2.7655	0.3260u	-3.2395u
V 292.401	8.2187	8.5025	8.4751
Zn 206.200	102.254	101.648	102.989

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1087	ppb	0.1057	9.5	-58.5380
Al 308.215	2814.84	ppb	20.2150	0.7	6172.35
As 188.980	107.756	ppb	2.4706	2.3	56.0443
B 249.678	-3.8997	ppb	0.0944	2.4	143.396
Ba 389.178	67.2213	ppb	0.5143	0.8	1470.19
Be 313.042	-0.3425	ppb	0.0032	0.9	18.8404
Ca 370.602	10406	ppb	45.38	0.4	28290
Cd 226.502	-0.0608	ppb	0.0891	146.5	49.4758
Co 228.615	0.0697	ppb	0.4635	665.2	2.2047
Cr 267.716	4.2386	ppb	0.0886	2.1	141.098
Cu 324.754	7.5304	ppb	0.1789	2.4	603.351
Fe 271.441	3724.44	ppb	13.2611	0.4	6199.98
K 766.491	378.367	ppb	1.0576	0.3	12481.6
Mg 279.078	831.484	ppb	0.7000	0.1	1691.54
Mn 257.610	113.471	ppb	0.3524	0.3	26721.4
Mo 202.032	-0.6060	ppb	0.2396	39.5	16.9851
Na 330.237	10.1475	ppb	135.408	1334.4	53.2939
Ni 231.604	0.3493	ppb	0.4455	127.6	-3.5843
Pb 220.353	68.9429	ppb	2.1240	3.1	145.334
Sb 206.834	2.1541	ppb	2.1642	100.5	-0.7237
Se 196.026	-4.0788	ppb	4.3776	107.3	8.5241
Sn 189.925	-2.1828	ppb	1.3901	63.7	-6.6948
Sr 216.596	16.8173	ppb	0.1051	0.6	212.306
Ti 334.941	153.561	ppb	0.7704	0.5	39262.1
Tl 190.794	-0.0493	ppb	3.0201	6120.1	-12.7854
V 292.401	8.3988	ppb	0.1565	1.9	240.603
Zn 206.200	102.297	ppb	0.6717	0.7	135.542

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89242-a-1-b (Samp) 4/17/2013, 2:00:18 PM Rack 1, Tube 16

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	48.1456	47.5183	47.6186
Al 308.215	15681.7	15598.0	15657.6
As 188.980	2693.70	2689.06	2689.36
B 249.678	986.139	995.161	1000.79
Ba 389.178	2419.59	2421.03	2420.92
Be 313.042	52.2251	52.1682	52.2772
Ca 370.602	56375	56269	56385
Cd 226.502	53.4608	53.6119	53.3205
Co 228.615	532.245	534.555	533.056
Cr 267.716	231.287	230.144	231.499
Cu 324.754	308.558	308.402	303.938
Fe 271.441	18957.6	18931.3	18961.9
K 766.491	7213.59	7208.06	7186.82
Mg 279.078	9049.46	9035.25	9053.46
Mn 257.610	1095.16	1096.36	1097.04
Mo 202.032	509.831	508.569	510.626
Na 330.237	5605.37	5702.39	5162.13
Ni 231.604	525.287	524.958	525.240
Pb 220.353	816.657	820.179	828.594
Sb 206.834	481.630	482.517	489.782
Se 196.026	2011.68	2018.36	2010.98
Sn 189.925	1028.67	1026.12	1028.82
Sr 216.596	611.032	611.273	611.592
Ti 334.941	1758.36	1755.06	1755.43
Tl 190.794	2046.39	2053.50	2048.15
V 292.401	546.698	546.231	546.531
Zn 206.200	989.788	990.526	988.629

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	47.7608	ppb	0.3370	0.7	3603.52
Al 308.215	15645.8	ppb	43.1315	0.3	34440.7
As 188.980	2690.70	ppb	2.5939	0.1	1628.46
B 249.678	994.031	ppb	7.3914	0.7	11670.2
Ba 389.178	2420.51	ppb	0.8031	0.0	51996.6
Be 313.042	52.2235	ppb	0.0545	0.1	91352.9
Ca 370.602	56343	ppb	64.61	0.1	153340
Cd 226.502	53.4644	ppb	0.1457	0.3	1898.19
Co 228.615	533.286	ppb	1.1722	0.2	5333.22
Cr 267.716	230.976	ppb	0.7286	0.3	7137.44
Cu 324.754	306.966	ppb	2.6238	0.9	16183.4
Fe 271.441	18950.3	ppb	16.5751	0.1	31161.6
K 766.491	7202.82	ppb	14.1308	0.2	229135
Mg 279.078	9046.05	ppb	9.5726	0.1	18063.2
Mn 257.610	1096.19	ppb	0.9541	0.1	254398
Mo 202.032	509.675	ppb	1.0375	0.2	3637.11
Na 330.237	5489.96	ppb	288.025	5.2	272.208
Ni 231.604	525.162	ppb	0.1778	0.0	1344.67
Pb 220.353	821.810	ppb	6.1331	0.7	1426.72
Sb 206.834	484.643	ppb	4.4726	0.9	470.532
Se 196.026	2013.67	ppb	4.0754	0.2	942.577
Sn 189.925	1027.87	ppb	1.5173	0.1	742.344
Sr 216.596	611.299	ppb	0.2813	0.0	5898.86
Ti 334.941	1756.28	ppb	1.8053	0.1	448106
Tl 190.794	2049.35	ppb	3.7049	0.2	1954.80
V 292.401	546.486	ppb	0.2366	0.0	14387.4
Zn 206.200	989.648	ppb	0.9561	0.1	1276.16

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

680-89242-a-5-b (Samp) 4/17/2013, 2:05:52 PM Rack 1, Tube 17

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1691u	-0.1772u	-0.6645u
Al 308.215	37279.9	36987.9	37005.3
As 188.980	223.033	218.831	225.689
B 249.678	21.2024	19.1949u	18.3405u
Ba 389.178	1195.35	1188.55	1194.69
Be 313.042	3.4168	3.3894	3.4175
Ca 370.602	21388	21304	21354
Cd 226.502	3.5494	3.0385	3.5884
Co 228.615	49.5864	49.1011	50.5174
Cr 267.716	160.046	158.170	158.771
Cu 324.754	1014.74	1006.22	1004.01
Fe 271.441	200346	199383	200179
K 766.491	2994.38	2993.18	2990.68
Mg 279.078	2828.75	2801.04	2822.58
Mn 257.610	1471.82	1464.17	1471.43
Mo 202.032	18.2221	18.1295	17.6504
Na 330.237	625.719u	853.038u	685.477u
Ni 231.604	89.5337	91.1357	90.1956
Pb 220.353	2237.30	2218.34	2229.96
Sb 206.834	36.6789	31.0215	40.7280
Se 196.026	3.9364	17.5938	6.2261
Sn 189.925	220.502	227.384	228.273
Sr 216.596	625.942	621.199	624.842
Ti 334.941	2097.57	2085.35	2091.44
Tl 190.794	6.1272u	-0.7459u	4.5854u
V 292.401	154.047	153.588	154.614
Zn 206.200	597.032	589.344	589.409

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2242	ppb	0.4188	186.8	-12.6873
Al 308.215	37091.0	ppb	163.792	0.4	81628.0
As 188.980	222.518	ppb	3.4581	1.6	124.008
B 249.678	19.5792	ppb	1.4692	7.5	188.594
Ba 389.178	1192.86	ppb	3.7470	0.3	25880.5
Be 313.042	3.4079	ppb	0.0160	0.5	6534.58
Ca 370.602	21349	ppb	42.21	0.2	44864
Cd 226.502	3.3921	ppb	0.3068	9.0	600.261
Co 228.615	49.7350	ppb	0.7197	1.4	534.112
Cr 267.716	158.996	ppb	0.9577	0.6	4949.17
Cu 324.754	1008.32	ppb	5.6663	0.6	52689.4
Fe 271.441	199969	ppb	514.503	0.3	326859
K 766.491	2992.75	ppb	1.8905	0.1	95479.1
Mg 279.078	2817.46	ppb	14.5490	0.5	5657.37
Mn 257.610	1469.14	ppb	4.3112	0.3	341229
Mo 202.032	18.0007	ppb	0.3069	1.7	139.152
Na 330.237	721.411	ppb	117.843	16.3	18.6372
Ni 231.604	90.2884	ppb	0.8050	0.9	231.411
Pb 220.353	2228.54	ppb	9.5600	0.4	3824.64
Sb 206.834	36.1428	ppb	4.8754	13.5	38.4677
Se 196.026	9.2521	ppb	7.3143	79.1	14.8286
Sn 189.925	225.386	ppb	4.2530	1.9	158.785
Sr 216.596	623.995	ppb	2.4826	0.4	6105.73
Ti 334.941	2091.45	ppb	6.1134	0.3	533593
Tl 190.794	3.3223	ppb	3.6065	108.6	-21.0525
V 292.401	154.083	ppb	0.5138	0.3	4110.68
Zn 206.200	591.928	ppb	4.4197	0.7	764.849

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89275-b-2-d (Samp) 4/17/2013, 2:11:27 PM Rack 1, Tube 18

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.3283	1.2590	0.5264
Al 308.215	145453	145256	145468
As 188.980	456.793	462.757	463.071
B 249.678	64.5940u	64.8274u	64.7903u
Ba 389.178	4496.45	4492.74	4503.70
Be 313.042	21.5395	21.5637	21.5769
Ca 370.602	97742	97735	97739
Cd 226.502	30.9967	31.2988	30.8545
Co 228.615	180.567	180.306	178.477
Cr 267.716	764.596	764.137	765.574
Cu 324.754	775.891	781.665	787.584
Fe 271.441	747725	749092	748005
K 766.491	12765.4	12781.0	12818.9
Mg 279.078	17112.9	17136.2	17119.9
Mn 257.610	18233.5	18226.7	18197.4
Mo 202.032	32.8365	33.4392	32.7837
Na 330.237	296.657u	180.051u	273.583u
Ni 231.604	182.382	181.610	181.836
Pb 220.353	3410.09	3406.88	3395.78
Sb 206.834	13.3184	10.8958	11.8892
Se 196.026	-4.7096	-2.8337	-1.1804
Sn 189.925	279.084	283.102	284.572
Sr 216.596	1119.85	1121.73	1119.27
Ti 334.941	2265.04	2271.42	2271.76
Tl 190.794	18.2039u	21.3651u	15.5146u
V 292.401	1026.41	1028.60	1028.70
Zn 206.200	7720.19	7709.28	7683.14

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.0379	ppb	0.4443	42.8	140.044
Al 308.215	145392	ppb	118.478	0.1	320037
As 188.980	460.873	ppb	3.5375	0.8	264.180
B 249.678	64.7372	ppb	0.1254	0.2	77.9544
Ba 389.178	4497.63	ppb	5.5727	0.1	97531.4
Be 313.042	21.5600	ppb	0.0189	0.1	38086.2
Ca 370.602	97739	ppb	3.818	0.0	216137
Cd 226.502	31.0500	ppb	0.2269	0.7	2750.70
Co 228.615	179.783	ppb	1.1384	0.6	1818.43
Cr 267.716	764.769	ppb	0.7337	0.1	23756.8
Cu 324.754	781.713	ppb	5.8465	0.7	41069.2
Fe 271.441	748274	ppb	722.158	0.1	1222775
K 766.491	12788.4	ppb	27.5371	0.2	406459
Mg 279.078	17123.0	ppb	11.9234	0.1	34007.1
Mn 257.610	18219.2	ppb	19.1854	0.1	4221939
Mo 202.032	33.0198	ppb	0.3642	1.1	217.218
Na 330.237	250.097	ppb	61.7493	24.7	-187.501
Ni 231.604	181.943	ppb	0.3966	0.2	477.995
Pb 220.353	3404.25	ppb	7.5097	0.2	5831.13
Sb 206.834	12.0345	ppb	1.2178	10.1	32.8755
Se 196.026	-2.9079	ppb	1.7658	60.7	12.5773
Sn 189.925	282.253	ppb	2.8410	1.0	200.151
Sr 216.596	1120.28	ppb	1.2857	0.1	11069.9
Ti 334.941	2269.40	ppb	3.7858	0.2	579103
Tl 190.794	18.3612	ppb	2.9284	15.9	-56.8071
V 292.401	1027.90	ppb	1.2913	0.1	27187.0
Zn 206.200	7704.20	ppb	19.0391	0.2	9910.19

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89275-b-2-e ms (Samp) 4/17/2013, 2:17:02 PM Rack 1, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	9.9096	9.3361	9.5406
Al 308.215	159702	160072	159447
As 188.980	605.885	602.031	614.166
B 249.678	191.400	193.506	193.463
Ba 389.178	4436.92	4444.99	4444.76
Be 313.042	71.8377	71.8836	71.8679
Ca 370.602	86571	86609	86636
Cd 226.502	79.7674	79.7531	80.0616
Co 228.615	232.269	231.277	229.961
Cr 267.716	845.044	846.233	841.845
Cu 324.754	792.855	786.811	799.095
Fe 271.441	797509	797818	798305
K 766.491	18204.8	18225.1	18210.7
Mg 279.078	21476.2	21482.3	21454.4
Mn 257.610	18331.6	18295.3	18318.4
Mo 202.032	124.938	124.026	124.811
Na 330.237	5509.85u	5682.15u	5316.60u
Ni 231.604	260.645	259.593	260.254
Pb 220.353	3090.11	3097.84	3107.29
Sb 206.834	42.6833	45.9036	40.7007
Se 196.026	81.2701	95.5556	71.4072
Sn 189.925	330.357	325.899	328.665
Sr 216.596	1082.65	1084.54	1086.45
Ti 334.941	2174.94	2181.52	2177.67
Tl 190.794	58.1059u	60.0149u	61.2787u
V 292.401	1277.11	1277.04	1278.29
Zn 206.200	7240.51	7231.59	7229.61

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.5954	ppb	0.2907	3.0	788.274
Al 308.215	159740	ppb	314.310	0.2	351627
As 188.980	607.361	ppb	6.2007	1.0	352.731
B 249.678	192.790	ppb	1.2040	0.6	1502.30
Ba 389.178	4442.22	ppb	4.5933	0.1	96419.2
Be 313.042	71.8631	ppb	0.0233	0.0	125537
Ca 370.602	86605	ppb	32.50	0.0	182167
Cd 226.502	79.8607	ppb	0.1742	0.2	4514.91
Co 228.615	231.169	ppb	1.1577	0.5	2324.25
Cr 267.716	844.374	ppb	2.2694	0.3	26217.9
Cu 324.754	792.920	ppb	6.1424	0.8	41667.1
Fe 271.441	797877	ppb	401.632	0.1	1303832
K 766.491	18213.5	ppb	10.4514	0.1	578687
Mg 279.078	21471.0	ppb	14.6461	0.1	42684.2
Mn 257.610	18315.1	ppb	18.3387	0.1	4244306
Mo 202.032	124.592	ppb	0.4937	0.4	864.291
Na 330.237	5502.87	ppb	182.874	3.3	32.5701
Ni 231.604	260.164	ppb	0.5318	0.2	679.908
Pb 220.353	3098.42	ppb	8.6029	0.3	5309.77
Sb 206.834	43.0959	ppb	2.6259	6.1	64.4837
Se 196.026	82.7443	ppb	12.1415	14.7	52.1954
Sn 189.925	328.307	ppb	2.2505	0.7	233.636
Sr 216.596	1084.54	ppb	1.8986	0.2	10739.9
Ti 334.941	2178.04	ppb	3.3070	0.2	555823
Tl 190.794	59.7998	ppb	1.5973	2.7	-19.4539
V 292.401	1277.48	ppb	0.7040	0.1	33764.7
Zn 206.200	7233.90	ppb	5.8955	0.1	9395.15

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89275-b-2-f msd (Samp) 4/17/2013, 2:22:37 PM Rack 1, Tube 20

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	7.5350	7.5048	6.3002
Al 308.215	158396	159151	158895
As 188.980	655.238	658.293	669.285
B 249.678	165.809	163.124	164.959
Ba 389.178	6824.76	6828.69	6833.15
Be 313.042	75.5231	75.5401	75.5686
Ca 370.602	69370	69274	69339
Cd 226.502	84.2093	83.1565	83.2310
Co 228.615	359.032	365.598	359.901
Cr 267.716	1049.82	1053.21	1052.41
Cu 324.754	659.094	660.963	662.498
Fe 271.441	991838x	995380x	995137x
K 766.491	15152.1	15184.3	15172.3
Mg 279.078	19617.0	19575.3	19613.2
Mn 257.610	46872.5x	46600.1x	46613.8x
Mo 202.032	147.270	149.723	148.337
Na 330.237	5332.51u	5293.79u	5333.84u
Ni 231.604	274.199	274.412	275.057
Pb 220.353	2618.62	2626.96	2607.39
Sb 206.834	47.6571	49.6317	49.0535
Se 196.026	87.6612	84.5821	94.4296
Sn 189.925	309.834	308.426	307.236
Sr 216.596	917.460	919.463	915.421
Ti 334.941	2157.26	2161.30	2158.36
Tl 190.794	101.245u	100.299u	108.074u
V 292.401	1575.58	1574.76	1574.52
Zn 206.200	7725.51	7719.23	7727.96

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	7.1133b	ppb	0.7044	9.9	740.256
Al 308.215	158814b	ppb	384.019	0.2	349586
As 188.980	660.939b	ppb	7.3879	1.1	383.200
B 249.678	164.630b	ppb	1.3720	0.8	949.804
Ba 389.178	6828.87b	ppb	4.2005	0.1	147872
Be 313.042	75.5439b	ppb	0.0230	0.0	131908
Ca 370.602	69328b	ppb	49.04	0.1	121758
Cd 226.502	83.5322b	ppb	0.5875	0.7	5073.62
Co 228.615	361.510b	ppb	3.5664	1.0	3615.95
Cr 267.716	1051.81b	ppb	1.7695	0.2	32722.1
Cu 324.754	660.852b	ppb	1.7050	0.3	34859.5
Fe 271.441	994118xb	ppb	1978.26	0.2	1624497
K 766.491	15169.6b	ppb	16.2520	0.1	482052
Mg 279.078	19601.8b	ppb	23.0783	0.1	38559.0
Mn 257.610	46695.5xb	ppb	153.432	0.3	10817399
Mo 202.032	148.443b	ppb	1.2300	0.8	1023.39
Na 330.237	5320.05b	ppb	22.7495	0.4	-28.3021
Ni 231.604	274.556b	ppb	0.4468	0.2	720.860
Pb 220.353	2617.66b	ppb	9.8205	0.4	4496.70
Sb 206.834	48.7808b	ppb	1.0151	2.1	76.1671
Se 196.026	88.8910b	ppb	5.0376	5.7	61.4283
Sn 189.925	308.498b	ppb	1.3005	0.4	219.220
Sr 216.596	917.448b	ppb	2.0208	0.2	9206.34
Ti 334.941	2158.97b	ppb	2.0891	0.1	550970
Tl 190.794	103.206b	ppb	4.2423	4.1	-27.2237
V 292.401	1574.95b	ppb	0.5573	0.0	41616.3
Zn 206.200	7724.23b	ppb	4.5938	0.1	9935.23

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

680-89275-b-2-d (Samp) 4/17/2013, 2:28:13 PM Rack 1, Tube 21

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0605	0.1175	-0.0398
Al 308.215	29841.3	30004.2	29982.1
As 188.980	96.3387	98.6344	98.8254
B 249.678	12.2545u	10.9535u	10.7938u
Ba 389.178	961.758	966.815	963.209
Be 313.042	4.1986	4.2394	4.2253
Ca 370.602	20942	21042	21000
Cd 226.502	5.6004	5.5483	5.7812
Co 228.615	39.0864	38.2576	39.2661
Cr 267.716	161.049	162.394	161.816
Cu 324.754	157.554	155.957	158.031
Fe 271.441	163420	163950	163461
K 766.491	2265.03	2267.30	2266.87
Mg 279.078	3711.38	3732.99	3726.75
Mn 257.610	4025.53	4039.16	4036.85
Mo 202.032	6.5892	7.0717	5.9346
Na 330.237	257.772u	6.1592u	-31.9000u
Ni 231.604	39.9411	37.6977	39.4205
Pb 220.353	737.660	739.906	742.571
Sb 206.834	5.5069	-1.0226	1.1106
Se 196.026	-3.2686u	-3.6334u	0.1633
Sn 189.925	61.3200	59.8749	53.6020
Sr 216.596	239.412	239.198	238.162
Ti 334.941	482.295	485.008	484.041
Tl 190.794	5.8913u	5.8350u	8.6029u
V 292.401	218.736	218.666	217.818
Zn 206.200	1692.16	1695.18	1698.15

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0057	ppb	0.0973	1695.6	34.1228
Al 308.215	29942.5	ppb	88.3491	0.3	65890.2
As 188.980	97.9328	ppb	1.3839	1.4	48.5368
B 249.678	11.3339	ppb	0.8012	7.1	135.025
Ba 389.178	963.927	ppb	2.6037	0.3	20923.9
Be 313.042	4.2211	ppb	0.0207	0.5	7948.04
Ca 370.602	20995	ppb	50.52	0.2	46239
Cd 226.502	5.6433	ppb	0.1222	2.2	596.488
Co 228.615	38.8700	ppb	0.5380	1.4	391.547
Cr 267.716	161.753	ppb	0.6747	0.4	5033.38
Cu 324.754	157.181	ppb	1.0862	0.7	8430.25
Fe 271.441	163610	ppb	294.591	0.2	267449
K 766.491	2266.40	ppb	1.2065	0.1	72420.2
Mg 279.078	3723.70	ppb	11.1224	0.3	7422.01
Mn 257.610	4033.85	ppb	7.2919	0.2	935091
Mo 202.032	6.5318	ppb	0.5707	8.7	59.4093
Na 330.237	77.3437	ppb	157.410	203.5	3.3136
Ni 231.604	39.0198	ppb	1.1742	3.0	98.9952
Pb 220.353	740.046	ppb	2.4585	0.3	1289.50
Sb 206.834	1.8650	ppb	3.3295	178.5	4.0657
Se 196.026	-2.2463	ppb	2.0947	93.3	10.1337
Sn 189.925	58.2656	ppb	4.1029	7.0	37.2614
Sr 216.596	238.924	ppb	0.6681	0.3	2400.76
Ti 334.941	483.781	ppb	1.3752	0.3	123522
Tl 190.794	6.7764	ppb	1.5821	23.3	-19.5301
V 292.401	218.406	ppb	0.5111	0.2	5789.57
Zn 206.200	1695.16	ppb	2.9941	0.2	2183.68

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89275-b-2-e ms (Samp) 4/17/2013, 2:33:48 PM Rack 1, Tube 22

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.1026	1.0724	0.8706
Al 308.215	32605.5	32707.7	32875.5
As 188.980	122.146	119.323	127.824
B 249.678	34.8624	36.3608	34.5729
Ba 389.178	949.155	949.454	946.815
Be 313.042	14.9823	15.0230	15.0329
Ca 370.602	18642	18690	18664
Cd 226.502	16.1257	16.3777	15.7439
Co 228.615	48.6818	49.3979	48.5386
Cr 267.716	176.978	177.037	178.281
Cu 324.754	160.403	160.171	158.675
Fe 271.441	173572	173797	173736
K 766.491	3354.60	3343.57	3335.22
Mg 279.078	4619.14	4633.76	4622.13
Mn 257.610	3987.56	3998.74	3990.61
Mo 202.032	25.4778	25.8336	25.0049
Na 330.237	855.955u	1027.62u	1023.01u
Ni 231.604	57.6526	53.4194	56.5446
Pb 220.353	668.228	675.356	675.810
Sb 206.834	11.6949	10.4057	7.5060
Se 196.026	4.3322	26.3502	14.2117
Sn 189.925	71.2234	63.7537	67.6355
Sr 216.596	228.330	230.713	229.736
Ti 334.941	465.026	465.025	465.959
Tl 190.794	13.8327u	12.8233u	10.8730u
V 292.401	267.694	267.275	267.045
Zn 206.200	1567.66	1584.86	1582.91

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.0152	ppb	0.1261	12.4	110.682
Al 308.215	32729.6	ppb	136.351	0.4	72026.3
As 188.980	123.098	ppb	4.3295	3.5	63.7275
B 249.678	35.2654	ppb	0.9597	2.7	400.080
Ba 389.178	948.475	ppb	1.4448	0.2	20608.3
Be 313.042	15.0127	ppb	0.0268	0.2	26709.5
Ca 370.602	18666	ppb	23.95	0.1	39140
Cd 226.502	16.0824	ppb	0.3191	2.0	973.034
Co 228.615	48.8728	ppb	0.4604	0.9	489.924
Cr 267.716	177.432	ppb	0.7360	0.4	5518.02
Cu 324.754	159.749	ppb	0.9379	0.6	8566.96
Fe 271.441	173702	ppb	116.373	0.1	283940
K 766.491	3344.46	ppb	9.7213	0.3	106645
Mg 279.078	4625.01	ppb	7.7254	0.2	9221.70
Mn 257.610	3992.30	ppb	5.7783	0.1	925503
Mo 202.032	25.4388	ppb	0.4157	1.6	193.015
Na 330.237	968.862	ppb	97.8076	10.1	40.4595
Ni 231.604	55.8722	ppb	2.1953	3.9	142.488
Pb 220.353	673.131	ppb	4.2522	0.6	1175.42
Sb 206.834	9.8689	ppb	2.1454	21.7	12.1577
Se 196.026	14.9647	ppb	11.0283	73.7	18.0801
Sn 189.925	67.5375	ppb	3.7358	5.5	44.0027
Sr 216.596	229.593	ppb	1.1976	0.5	2313.92
Ti 334.941	465.337	ppb	0.5390	0.1	118822
Tl 190.794	12.5096	ppb	1.5046	12.0	-14.4454
V 292.401	267.338	ppb	0.3289	0.1	7079.06
Zn 206.200	1578.47	ppb	9.4165	0.6	2073.57

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89275-b-2-f msd (Samp) 4/17/2013, 2:39:24 PM Rack 1, Tube 23

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5934	0.9816	0.9698
Al 308.215	32155.8	32028.4	31970.6
As 188.980	130.941	136.735	137.743
B 249.678	26.2118	27.1395	27.3462
Ba 389.178	1428.88	1432.84	1425.87
Be 313.042	15.6154	15.6107	15.5823
Ca 370.602	15026	15034	15007
Cd 226.502	16.0837	16.2135	16.4389
Co 228.615	76.0625	76.1741	75.2423
Cr 267.716	218.802	218.104	217.900
Cu 324.754	130.630	129.846	129.356
Fe 271.441	214036	214338	214037
K 766.491	2633.71	2639.21	2621.30
Mg 279.078	4187.24	4195.46	4177.34
Mn 257.610	11332.9	11343.7	11350.4
Mo 202.032	30.6469	28.8717	29.5290
Na 330.237	1120.72u	901.472u	908.097u
Ni 231.604	58.4768	55.8216	57.8552
Pb 220.353	563.829	556.181	561.281
Sb 206.834	5.6571	12.7549	14.3631
Se 196.026	17.8903	5.3413	11.6277
Sn 189.925	61.6782	59.3959	64.6219
Sr 216.596	191.385	189.113	190.733
Ti 334.941	454.570	454.449	452.869
Tl 190.794	22.8446u	23.3956u	22.5945u
V 292.401	324.555	324.797	323.429
Zn 206.200	1652.43	1656.94	1651.62

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.8482	ppb	0.2208	26.0	133.843
Al 308.215	32051.6	ppb	94.7825	0.3	70533.6
As 188.980	135.140	ppb	3.6707	2.7	70.6198
B 249.678	26.8992	ppb	0.6042	2.2	256.886
Ba 389.178	1429.20	ppb	3.4929	0.2	30972.5
Be 313.042	15.6028	ppb	0.0179	0.1	27729.1
Ca 370.602	15022	ppb	13.98	0.1	26518
Cd 226.502	16.2453	ppb	0.1797	1.1	1067.43
Co 228.615	75.8263	ppb	0.5088	0.7	756.887
Cr 267.716	218.269	ppb	0.4733	0.2	6803.59
Cu 324.754	129.944	ppb	0.6428	0.5	7029.43
Fe 271.441	214137	ppb	173.928	0.1	350012
K 766.491	2631.41	ppb	9.1774	0.3	84007.8
Mg 279.078	4186.68	ppb	9.0748	0.2	8242.93
Mn 257.610	11342.3	ppb	8.8206	0.1	2627797
Mo 202.032	29.6825	ppb	0.8975	3.0	221.057
Na 330.237	976.765	ppb	124.717	12.8	30.1880
Ni 231.604	57.3845	ppb	1.3887	2.4	147.188
Pb 220.353	560.430	ppb	3.8940	0.7	984.989
Sb 206.834	10.9250	ppb	4.6325	42.4	14.4275
Se 196.026	11.6197	ppb	6.2745	54.0	18.1965
Sn 189.925	61.8987	ppb	2.6199	4.2	39.9001
Sr 216.596	190.410	ppb	1.1700	0.6	1952.31
Ti 334.941	453.963	ppb	0.9491	0.2	115923
Tl 190.794	22.9449	ppb	0.4098	1.8	-16.7204
V 292.401	324.260	ppb	0.7298	0.2	8581.41
Zn 206.200	1653.67	ppb	2.8667	0.2	2130.17

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89275-b-5-b (Samp) 4/17/2013, 2:45:01 PM Rack 1, Tube 24

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	3.1797	3.5006	3.1329
Al 308.215	102304	102500	102266
As 188.980	255.153	250.065	247.069
B 249.678	73.9832	74.4171	76.0750
Ba 389.178	4384.61	4384.59	4383.35
Be 313.042	10.0332	10.0472	10.0196
Ca 370.602	144726	144761	144738
Cd 226.502	36.3108	36.6738	36.5626
Co 228.615	134.243	133.483	134.959
Cr 267.716	396.544	396.395	396.199
Cu 324.754	1365.32	1362.56	1348.28
Fe 271.441	264033	264101	264287
K 766.491	10053.8	10064.2	10078.1
Mg 279.078	15900.8	15882.1	15879.0
Mn 257.610	9967.84	9942.79	9967.41
Mo 202.032	24.6391	24.7644	23.8603
Na 330.237	159.338u	-24.5493u	-456.895u
Ni 231.604	181.520	180.792	180.808
Pb 220.353	4104.97	4075.19	4087.68
Sb 206.834	25.7302	26.3310	21.7510
Se 196.026	5.3617	-5.1240u	8.0986
Sn 189.925	172.262	168.939	179.246
Sr 216.596	875.994	875.034	878.598
Ti 334.941	1822.07	1822.29	1821.06
Tl 190.794	17.5991u	19.3387u	10.7149u
V 292.401	305.559	304.930	305.974
Zn 206.200	11624.3	11615.4	11640.8

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	3.2711	ppb	0.2002	6.1	278.869
Al 308.215	102357	ppb	125.851	0.1	225304
As 188.980	250.762	ppb	4.0869	1.6	141.587
B 249.678	74.8251	ppb	1.1040	1.5	754.016
Ba 389.178	4384.18	ppb	0.7219	0.0	94456.6
Be 313.042	10.0333	ppb	0.0138	0.1	18090.3
Ca 370.602	144742	ppb	18.00	0.0	378571
Cd 226.502	36.5157	ppb	0.1860	0.5	1864.67
Co 228.615	134.228	ppb	0.7379	0.5	1368.04
Cr 267.716	396.379	ppb	0.1730	0.0	12302.4
Cu 324.754	1358.72	ppb	9.1444	0.7	70923.0
Fe 271.441	264140	ppb	131.700	0.0	431723
K 766.491	10065.4	ppb	12.1532	0.1	320011
Mg 279.078	15887.3	ppb	11.7848	0.1	31595.7
Mn 257.610	9959.35	ppb	14.3410	0.1	2307716
Mo 202.032	24.4213	ppb	0.4899	2.0	181.311
Na 330.237	-107.369	ppb	316.354	294.6	-101.668
Ni 231.604	181.040	ppb	0.4157	0.2	465.829
Pb 220.353	4089.28	ppb	14.9535	0.4	6997.26
Sb 206.834	24.6041	ppb	2.4891	10.1	30.7595
Se 196.026	2.7788	ppb	6.9794	251.2	13.7395
Sn 189.925	173.482	ppb	5.2608	3.0	121.086
Sr 216.596	876.542	ppb	1.8444	0.2	8560.63
Ti 334.941	1821.81	ppb	0.6565	0.0	464876
Tl 190.794	15.8842	ppb	4.5605	28.7	-23.9866
V 292.401	305.488	ppb	0.5255	0.2	8095.86
Zn 206.200	11626.9	ppb	12.8758	0.1	14955.9

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

Cont Calib Verif (CCV) 4/17/2013, 2:50:36 PM Rack 1, Tube 25
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	491.106	487.331	489.411
Al 308.215	5100.28	5121.40	5122.94
As 188.980	482.478	485.761	482.681
B 249.678	499.674	503.395	506.691
Ba 389.178	5131.96	5143.47	5156.98
Be 313.042	517.855	517.284	519.142
Ca 370.602	5161	5166	5197
Cd 226.502	519.743	521.621	521.460
Co 228.615	522.636	522.505	523.163
Cr 267.716	5187.02	5210.40	5199.76
Cu 324.754	5276.90	5205.93	5250.72
Fe 271.441	5238.17	5240.49	5296.92
K 766.491	10005.0	10030.8	10094.0
Mg 279.078	5045.13	5059.03	5075.35
Mn 257.610	5240.73	5244.48	5252.42
Mo 202.032	492.697	495.529	497.076
Na 330.237	7299.83	7151.63	7159.25
Ni 231.604	2617.93	2632.10	2631.08
Pb 220.353	502.020	499.880	504.043
Sb 206.834	924.629	928.335	930.033
Se 196.026	5019.57	5008.71	5040.56
Sn 189.925	5046.82	5061.18	5070.40
Sr 216.596	2534.66	2544.00	2543.98
Ti 334.941	500.270	501.776	502.529
Tl 190.794	5055.94	5063.31	5082.07
V 292.401	4964.50	4982.10	4989.74
Zn 206.200	2618.18	2619.25	2617.97

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	489.283	ppb	1.8910	0.4	36824.2	97.85658
Al 308.215	5114.87	ppb	12.6590	0.2	11226.8	102.29747
As 188.980	483.640	ppb	1.8397	0.4	284.667	96.72804
B 249.678	503.253	ppb	3.5108	0.7	6008.53	20.13013Q
Ba 389.178	5144.14	ppb	12.5233	0.2	110405	102.88281
Be 313.042	518.093	ppb	0.9516	0.2	901338	103.61869
Ca 370.602	5175	ppb	19.52	0.4	14067	103.49521
Cd 226.502	520.941	ppb	1.0407	0.2	17718.0	104.18822
Co 228.615	522.768	ppb	0.3480	0.1	5212.53	104.55359
Cr 267.716	5199.06	ppb	11.7057	0.2	160336	103.98123
Cu 324.754	5244.52	ppb	35.8934	0.7	272813	104.89035
Fe 271.441	5258.53	ppb	33.2675	0.6	8828.87	105.17051
K 766.491	10043.3	ppb	45.7662	0.5	319309	100.43276
Mg 279.078	5059.84	ppb	15.1276	0.3	10048.5	101.19674
Mn 257.610	5245.88	ppb	5.9699	0.1	1215357	104.91755
Mo 202.032	495.101	ppb	2.2208	0.4	3526.16	99.02013
Na 330.237	7203.57	ppb	83.4527	1.2	348.482	96.04762
Ni 231.604	2627.04	ppb	7.9010	0.3	6742.90	105.08143
Pb 220.353	501.981	ppb	2.0816	0.4	883.385	100.39616
Sb 206.834	927.666	ppb	2.7632	0.3	958.679	92.76656
Se 196.026	5022.95	ppb	16.1932	0.3	2336.28	100.45898
Sn 189.925	5059.47	ppb	11.8798	0.2	3673.96	101.18935
Sr 216.596	2540.88	ppb	5.3874	0.2	24362.9	101.63512
Ti 334.941	501.525	ppb	1.1502	0.2	128035	100.30504
Tl 190.794	5067.11	ppb	13.4691	0.3	4851.73	101.34213
V 292.401	4978.78	ppb	12.9410	0.3	131311	99.57558
Zn 206.200	2618.46	ppb	0.6850	0.0	3358.45	104.73859

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

Cont Calib Blank (CCB) 4/17/2013, 2:56:09 PM Rack 1, Tube 26

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8014u	-0.8821u	-0.7331u
Al 308.215	0.7980	3.4423	9.9775
As 188.980	0.2911	-0.1811u	2.2327
B 249.678	1.7510	0.8828	-0.0976u
Ba 389.178	-0.0303u	0.9869	0.7764
Be 313.042	-0.4419u	-0.3944u	-0.3604u
Ca 370.602	4.192	8.481	9.369
Cd 226.502	-0.2858u	-0.2391u	-0.3470u
Co 228.615	-0.7375u	-0.2435u	-0.9601u
Cr 267.716	0.0168	0.1615	0.7636
Cu 324.754	-0.0551u	0.7854	1.1519
Fe 271.441	6.5362	16.3724	25.4037
K 766.491	-3.1716u	-0.5945u	-1.7522u
Mg 279.078	2.1593	-1.7005u	3.6203
Mn 257.610	0.5494	1.4565	2.0375
Mo 202.032	-0.0825u	-0.6272u	-0.2021u
Na 330.237	-189.114u	221.485	-177.207u
Ni 231.604	0.7455	-0.3262u	-0.6926u
Pb 220.353	-0.2412u	1.6267	2.9676
Sb 206.834	6.4317	1.7787	0.2523
Se 196.026	-9.2093u	-3.2003u	1.0976
Sn 189.925	-1.5668u	-2.3246u	-4.6199u
Sr 216.596	-1.4664u	-2.3914u	-1.3540u
Ti 334.941	-0.1676u	-0.2098u	-0.0671u
Tl 190.794	-1.4799u	2.9913	2.1560
V 292.401	0.2620	1.1159	1.1338
Zn 206.200	0.0352	-1.2366u	-1.6138u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.8055	ppb	0.0745	9.3	-35.3611	-0.80552
Al 308.215	4.7393	ppb	4.7252	99.7	-13.7692	4.73926
As 188.980	0.7809	ppb	1.2793	163.8	-9.1243	0.78091
B 249.678	0.8454	ppb	0.9249	109.4	202.564	0.84537
Ba 389.178	0.5777	ppb	0.5370	93.0	33.6630	0.57766
Be 313.042	-0.3989	ppb	0.0409	10.3	-82.5041	-0.39892
Ca 370.602	7.347	ppb	2.768	37.7	36.20	7.34707
Cd 226.502	-0.2906	ppb	0.0541	18.6	33.4857	-0.29060
Co 228.615	-0.6470	ppb	0.3668	56.7	-8.2728	-0.64704
Cr 267.716	0.3140	ppb	0.3961	126.1	19.0295	0.31397
Cu 324.754	0.6274	ppb	0.6188	98.6	243.438	0.62740
Fe 271.441	16.1041	ppb	9.4366	58.6	140.616	16.10409
K 766.491	-1.8394	ppb	1.2907	70.2	411.308	-1.83945
Mg 279.078	1.3597	ppb	2.7491	202.2	37.3103	1.35967
Mn 257.610	1.3478	ppb	0.7500	55.6	739.840	1.34784
Mo 202.032	-0.3039	ppb	0.2863	94.2	19.3252	-0.30392
Na 330.237	-48.2786	ppb	233.698	484.1	53.3483	-48.27862
Ni 231.604	-0.0911	ppb	0.7473	820.3	-4.7916	-0.09110
Pb 220.353	1.4510	ppb	1.6116	111.1	30.3944	1.45102
Sb 206.834	2.8209	ppb	3.2188	114.1	-0.1884	2.82088
Se 196.026	-3.7707	ppb	5.1770	137.3	8.6441	-3.77066
Sn 189.925	-2.8371	ppb	1.5898	56.0	-7.1744	-2.83710
Sr 216.596	-1.7373	ppb	0.5693	32.8	32.0680	-1.73728
Ti 334.941	-0.1482	ppb	0.0733	49.5	51.4226	-0.14816
Tl 190.794	1.2225	ppb	2.3773	194.5	-11.2265	1.22247
V 292.401	0.8372	ppb	0.4983	59.5	38.4851	0.83722
Zn 206.200	-0.9384	ppb	0.8640	92.1	2.7833	-0.93840

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

mb 680-273063/1-a (Samp) **4/17/2013, 3:01:43 PM** **Rack 1, Tube 27**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.9345u	-1.0773u	-0.6481u
Al 308.215	0.1899	-2.1252u	-0.0974u
As 188.980	-0.5123u	-3.6767u	-1.8723u
B 249.678	-3.3717u	-3.0286u	-3.6007u
Ba 389.178	-3.0489u	-1.7709u	-2.4663u
Be 313.042	-0.5447u	-0.5586u	-0.5370u
Ca 370.602	-6.534u	-6.405u	-7.586u
Cd 226.502	-0.6159u	-0.5380u	-0.5289u
Co 228.615	-0.1218u	-0.7161u	-0.0954u
Cr 267.716	-1.2400u	-0.8738u	-0.6821u
Cu 324.754	-0.8552u	-1.1878u	-0.8647u
Fe 271.441	-8.8843u	-15.2764u	-10.6977u
K 766.491	-8.2744u	-8.2177u	-9.8325u
Mg 279.078	0.9187	-0.6885u	3.5109
Mn 257.610	-1.7240u	-1.7025u	-1.6799u
Mo 202.032	-1.5537u	-0.5097u	-1.4574u
Na 330.237	71.2810	21.1211	52.0928
Ni 231.604	0.1304	0.7822	0.1193
Pb 220.353	2.1483	2.4794	0.9311
Sb 206.834	0.5493	-0.4615u	1.2701
Se 196.026	-4.3274u	3.9856	-7.3199u
Sn 189.925	-7.7738u	-5.1166u	-5.7758u
Sr 216.596	-2.3623u	-2.9245u	-3.3091u
Ti 334.941	-0.4603u	-0.4916u	-0.4739u
Tl 190.794	-4.6795u	-4.7489u	-0.5832u
V 292.401	-1.0188u	-0.7186u	-0.8216u
Zn 206.200	-1.4956u	-2.7216u	-3.1981u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8866	ppb	0.2186	24.7	-41.4675
Al 308.215	-0.6776	ppb	1.2619	186.2	-25.7103
As 188.980	-2.0205	ppb	1.5874	78.6	-10.8293
B 249.678	-3.3337	ppb	0.2879	8.6	154.253
Ba 389.178	-2.4287	ppb	0.6398	26.3	-30.8755
Be 313.042	-0.5468	ppb	0.0110	2.0	-339.472
Ca 370.602	-6.842	ppb	0.6481	9.5	-0.7582
Cd 226.502	-0.5610	ppb	0.0478	8.5	24.2528
Co 228.615	-0.3111	ppb	0.3510	112.8	-4.9197
Cr 267.716	-0.9320	ppb	0.2834	30.4	-19.3966
Cu 324.754	-0.9693	ppb	0.1893	19.5	160.428
Fe 271.441	-11.6195	ppb	3.2942	28.4	95.2477
K 766.491	-8.7749	ppb	0.9164	10.4	191.132
Mg 279.078	1.2470	ppb	2.1189	169.9	37.1294
Mn 257.610	-1.7021	ppb	0.0221	1.3	33.4256
Mo 202.032	-1.1736	ppb	0.5770	49.2	13.1570
Na 330.237	48.1649	ppb	25.3096	52.5	57.5741
Ni 231.604	0.3439	ppb	0.3796	110.4	-3.6749
Pb 220.353	1.8529	ppb	0.8153	44.0	31.0798
Sb 206.834	0.4526	ppb	0.8698	192.2	-2.5285
Se 196.026	-2.5539	ppb	5.8577	229.4	9.2066
Sn 189.925	-6.2220	ppb	1.3836	22.2	-9.6358
Sr 216.596	-2.8653	ppb	0.4762	16.6	21.2545
Ti 334.941	-0.4752	ppb	0.0157	3.3	-32.0230
Tl 190.794	-3.3372	ppb	2.3853	71.5	-15.6032
V 292.401	-0.8530	ppb	0.1525	17.9	-6.0390
Zn 206.200	-2.4718	ppb	0.8783	35.5	-0.8148

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ics 680-273063/2-a (Samp) 4/17/2013, 3:07:17 PM Rack 1, Tube 28
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	12.5977	12.5362	12.1967
Al 308.215	5260.52	5301.00	5323.49
As 188.980	108.881	109.600	110.031
B 249.678	193.255	194.615	194.986
Ba 389.178	103.969	103.639	104.055
Be 313.042	53.2097	53.4102	53.4243
Ca 370.602	5036	5047	5059
Cd 226.502	54.6703	54.9349	54.3233
Co 228.615	54.2740	54.2041	54.0234
Cr 267.716	106.728	107.698	108.009
Cu 324.754	106.334	107.442	106.997
Fe 271.441	5102.10	5122.92	5125.05
K 766.491	5111.59	5113.49	5102.54
Mg 279.078	5108.01	5132.60	5126.84
Mn 257.610	551.551	553.511	553.686
Mo 202.032	102.863	101.724	102.116
Na 330.237	5146.36	5127.32	5270.47
Ni 231.604	104.610	106.371	105.645
Pb 220.353	53.6976	53.2248	54.1148
Sb 206.834	49.2423	50.0162	54.1910
Se 196.026	101.820	96.9548	99.9176
Sn 189.925	204.691	202.430	198.261
Sr 216.596	102.339	102.423	102.186
Ti 334.941	101.238	101.571	101.876
Tl 190.794	40.2906	41.3669	41.2526
V 292.401	103.447	103.219	103.217
Zn 206.200	104.714	104.638	106.601

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	12.4435	ppb	0.2160	1.7	961.059
Al 308.215	5295.00	ppb	31.9084	0.6	11636.7
As 188.980	109.504	ppb	0.5811	0.5	57.0228
B 249.678	194.286	ppb	0.9113	0.5	2434.49
Ba 389.178	103.888	ppb	0.2194	0.2	2269.65
Be 313.042	53.3481	ppb	0.1200	0.2	93366.5
Ca 370.602	5047	ppb	11.55	0.2	13515
Cd 226.502	54.6428	ppb	0.3067	0.6	1907.35
Co 228.615	54.1672	ppb	0.1293	0.2	536.966
Cr 267.716	107.478	ppb	0.6680	0.6	3325.63
Cu 324.754	106.924	ppb	0.5578	0.5	5772.76
Fe 271.441	5116.69	ppb	12.6816	0.2	8483.64
K 766.491	5109.20	ppb	5.8518	0.1	162669
Mg 279.078	5122.48	ppb	12.8609	0.3	10244.6
Mn 257.610	552.916	ppb	1.1852	0.2	128521
Mo 202.032	102.234	ppb	0.5787	0.6	746.682
Na 330.237	5181.39	ppb	77.7360	1.5	278.782
Ni 231.604	105.542	ppb	0.8851	0.8	266.624
Pb 220.353	53.6790	ppb	0.4453	0.8	119.275
Sb 206.834	51.1498	ppb	2.6620	5.2	47.6230
Se 196.026	99.5640	ppb	2.4517	2.5	56.5916
Sn 189.925	201.794	ppb	3.2616	1.6	141.630
Sr 216.596	102.316	ppb	0.1201	0.1	1027.39
Ti 334.941	101.562	ppb	0.3192	0.3	26016.2
Tl 190.794	40.9701	ppb	0.5911	1.4	25.9744
V 292.401	103.295	ppb	0.1324	0.1	2724.38
Zn 206.200	105.318	ppb	1.1121	1.1	139.166

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ics 680-273063/3-a (Samp) 4/17/2013, 3:12:51 PM Rack 1, Tube 29
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	200.858	198.488	201.026
Al 308.215	2079.57	2052.41	2068.56
As 188.980	214.505	212.093	216.748
B 249.678	385.701	384.185	387.217
Ba 389.178	199.576	199.656	200.330
Be 313.042	209.514	207.592	208.487
Ca 370.602	20029	19825	19933
Cd 226.502	210.034	208.688	209.591
Co 228.615	208.934	207.908	209.191
Cr 267.716	209.708	205.817	207.876
Cu 324.754	210.465	207.525	209.910
Fe 271.441	20789.5	20603.5	20693.4
K 766.491	20374.4	20191.0	20176.0
Mg 279.078	20169.8	19993.0	20116.4
Mn 257.610	2158.79	2143.95	2154.36
Mo 202.032	200.298	197.452	199.614
Na 330.237	18155.2	18405.0	17851.9
Ni 231.604	206.587	204.241	205.069
Pb 220.353	204.056	199.725	201.059
Sb 206.834	197.063	188.717	188.924
Se 196.026	205.563	199.142	190.674
Sn 189.925	196.635	199.867	196.391
Sr 216.596	214.870	211.709	214.919
Ti 334.941	199.564	197.445	198.396
Tl 190.794	36.8712	42.3575	40.5398
V 292.401	203.213	201.705	202.845
Zn 206.200	195.803	195.492	195.560

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	200.124	ppb	1.4192	0.7	15102.0
Al 308.215	2066.84	ppb	13.6614	0.7	4534.47
As 188.980	214.449	ppb	2.3284	1.1	120.848
B 249.678	385.701	ppb	1.5161	0.4	4630.92
Ba 389.178	199.854	ppb	0.4139	0.2	4385.62
Be 313.042	208.531	ppb	0.9617	0.5	363213
Ca 370.602	19929	ppb	102.0	0.5	53246
Cd 226.502	209.438	ppb	0.6857	0.3	7190.34
Co 228.615	208.678	ppb	0.6788	0.3	2074.91
Cr 267.716	207.801	ppb	1.9462	0.9	6425.17
Cu 324.754	209.300	ppb	1.5621	0.7	11101.3
Fe 271.441	20695.4	ppb	93.0052	0.4	33962.0
K 766.491	20247.1	ppb	110.499	0.5	643246
Mg 279.078	20093.1	ppb	90.6962	0.5	40089.0
Mn 257.610	2152.37	ppb	7.6170	0.4	499065
Mo 202.032	199.121	ppb	1.4854	0.7	1433.42
Na 330.237	18137.4	ppb	276.970	1.5	838.632
Ni 231.604	205.299	ppb	1.1901	0.6	523.158
Pb 220.353	201.613	ppb	2.2183	1.1	371.518
Sb 206.834	191.568	ppb	4.7601	2.5	187.063
Se 196.026	198.460	ppb	7.4679	3.8	102.718
Sn 189.925	197.631	ppb	1.9400	1.0	138.612
Sr 216.596	213.833	ppb	1.8394	0.9	2099.25
Ti 334.941	198.468	ppb	1.0616	0.5	50796.2
Tl 190.794	39.9228	ppb	2.7947	7.0	22.0299
V 292.401	202.588	ppb	0.7863	0.4	5328.07
Zn 206.200	195.618	ppb	0.1634	0.1	255.046

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640-43094-g-1-a (Samp) 4/17/2013, 3:18:26 PM Rack 1, Tube 30

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0135u	-0.8033u	-0.8721u
Al 308.215	8.7879	8.9707	11.7063
As 188.980	-0.8507	-2.1422	1.5369
B 249.678	318.095	318.871	321.107
Ba 389.178	415.076	413.249	416.090
Be 313.042	-0.5700u	-0.5450u	-0.5459u
Ca 370.602	203717	202403	202099
Cd 226.502	-0.4501	-0.3339	-0.3520
Co 228.615	-0.1559u	-0.5196u	0.5728
Cr 267.716	-0.7648u	-0.9354u	-1.1551u
Cu 324.754	-0.7538u	-0.9161u	-0.6619u
Fe 271.441	16743.9	16732.7	16739.7
K 766.491	22098.8	22067.9	22064.8
Mg 279.078	96460.5	96263.4	96274.8
Mn 257.610	593.405	593.182	593.364
Mo 202.032	-0.5269u	-0.6509u	-0.9874u
Na 330.237	413375x	416493x	416024x
Ni 231.604	1.3972	1.0834	2.4809
Pb 220.353	4.2370	1.9920	5.6744
Sb 206.834	5.2969	3.2105	-4.2879u
Se 196.026	-1.9455u	-8.4094u	-4.2038u
Sn 189.925	0.1487	-6.0305u	-4.4345u
Sr 216.596	1168.45	1167.64	1163.75
Ti 334.941	-1.4286	-1.4769u	-1.4354
Tl 190.794	-1.5660u	-5.6290u	0.5940u
V 292.401	-1.0607u	-0.3174u	-0.4161u
Zn 206.200	-1.4252u	-1.8365u	-3.4274u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8963b	ppb	0.1071	12.0	-93.7534
Al 308.215	9.8216b	ppb	1.6347	16.6	-2.5920
As 188.980	-0.4854b	ppb	1.8666	384.6	-8.3743
B 249.678	319.358b	ppb	1.5638	0.5	3868.04
Ba 389.178	414.805b	ppb	1.4399	0.3	9174.51
Be 313.042	-0.5536b	ppb	0.0141	2.6	-332.774
Ca 370.602	202740b	ppb	859.7	0.4	554241
Cd 226.502	-0.3787b	ppb	0.0626	16.5	66.5265
Co 228.615	-0.0342b	ppb	0.5562	1624.5	-2.6370
Cr 267.716	-0.9518b	ppb	0.1957	20.6	-11.3882
Cu 324.754	-0.7773b	ppb	0.1287	16.6	175.560
Fe 271.441	16738.8b	ppb	5.6580	0.0	27464.2
K 766.491	22077.2b	ppb	18.8255	0.1	701344
Mg 279.078	96332.9b	ppb	110.672	0.1	192205
Mn 257.610	593.317b	ppb	0.1186	0.0	138441
Mo 202.032	-0.7217b	ppb	0.2383	33.0	15.5432
Na 330.237	415297xb	ppb	1681.26	0.4	18162.5
Ni 231.604	1.6538b	ppb	0.7332	44.3	0.0288
Pb 220.353	3.9678b	ppb	1.8559	46.8	34.8157
Sb 206.834	1.4065b	ppb	5.0406	358.4	-1.2158
Se 196.026	-4.8529b	ppb	3.2804	67.6	8.2656
Sn 189.925	-3.4388b	ppb	3.2077	93.3	-7.4175
Sr 216.596	1166.62b	ppb	2.5139	0.2	11261.2
Ti 334.941	-1.4470b	ppb	0.0262	1.8	89.9930
Tl 190.794	-2.2004b	ppb	3.1596	143.6	-16.1780
V 292.401	-0.5980b	ppb	0.4037	67.5	-1.1625
Zn 206.200	-2.2297b	ppb	1.0574	47.4	-1.1255

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640-43094-g-1-b ms (Samp) 4/17/2013, 3:24:01 PM Rack 1, Tube 31
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	42.0152	41.5099	42.3475
Al 308.215	5681.91	5674.85	5672.03
As 188.980	106.309	105.469	110.521
B 249.678	528.822	532.494	534.609
Ba 389.178	526.420	527.365	527.277
Be 313.042	52.7869	52.6652	52.7763
Ca 370.602	212385	211768	211251
Cd 226.502	52.6055	52.4339	53.0166
Co 228.615	51.6504	52.0762	50.3844
Cr 267.716	105.364	105.453	104.727
Cu 324.754	108.206	107.967	108.942
Fe 271.441	21922.0	21898.8	21921.5
K 766.491	29859.5	29872.2	29990.9
Mg 279.078	103877	103659	103715
Mn 257.610	1143.52	1142.92	1142.83
Mo 202.032	100.023	100.017	100.384
Na 330.237	434592x	432032x	428676x
Ni 231.604	102.074	101.064	101.513
Pb 220.353	54.3915	52.3703	55.9001
Sb 206.834	49.2063	47.5334	50.4178
Se 196.026	119.002	100.937	110.461
Sn 189.925	191.413	196.325	190.871
Sr 216.596	1295.28	1286.96	1289.91
Ti 334.941	99.3410	98.4046	99.3999
Tl 190.794	38.1764	33.8941	34.5209
V 292.401	101.402	101.503	101.003
Zn 206.200	102.878	103.966	99.6058

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	41.9575b	ppb	0.4218	1.0	3132.12
Al 308.215	5676.26b	ppb	5.0887	0.1	12475.9
As 188.980	107.433b	ppb	2.7071	2.5	57.3178
B 249.678	531.975b	ppb	2.9282	0.6	6321.73
Ba 389.178	527.021b	ppb	0.5224	0.1	11607.1
Be 313.042	52.7428b	ppb	0.0674	0.1	92332.9
Ca 370.602	211801b	ppb	567.9	0.3	578732
Cd 226.502	52.6853b	ppb	0.2994	0.6	1877.14
Co 228.615	51.3703b	ppb	0.8800	1.7	508.660
Cr 267.716	105.181b	ppb	0.3958	0.4	3263.56
Cu 324.754	108.372b	ppb	0.5080	0.5	5853.13
Fe 271.441	21914.1b	ppb	13.2388	0.1	35929.0
K 766.491	29907.5b	ppb	72.4626	0.2	949930
Mg 279.078	103751b	ppb	113.403	0.1	206993
Mn 257.610	1143.09b	ppb	0.3753	0.0	265819
Mo 202.032	100.141b	ppb	0.2104	0.2	731.006
Na 330.237	431767xb	ppb	2966.70	0.7	18878.1
Ni 231.604	101.550b	ppb	0.5063	0.5	256.712
Pb 220.353	54.2206b	ppb	1.7711	3.3	120.332
Sb 206.834	49.0525b	ppb	1.4483	3.0	45.9250
Se 196.026	110.133b	ppb	9.0370	8.2	61.6051
Sn 189.925	192.870b	ppb	3.0048	1.6	135.339
Sr 216.596	1290.72b	ppb	4.2213	0.3	12449.4
Ti 334.941	99.0485b	ppb	0.5584	0.6	25753.4
Tl 190.794	35.5305b	ppb	2.3127	6.5	19.0828
V 292.401	101.302b	ppb	0.2647	0.3	2670.41
Zn 206.200	102.150b	ppb	2.2694	2.2	135.100

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640-43094-g-1-c msd (Samp) 4/17/2013, 3:29:36 PM Rack 1, Tube 32**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	21.6010	21.3007	21.5181
Al 308.215	5727.18	5721.45	5704.83
As 188.980	109.308	110.232	106.903
B 249.678	541.008	541.578	544.097
Ba 389.178	530.805	531.015	531.100
Be 313.042	53.1245	53.0301	53.1291
Ca 370.602	214004	214586	212247
Cd 226.502	53.3189	52.7741	53.1516
Co 228.615	51.6466	51.7696	51.9974
Cr 267.716	105.780	105.214	105.553
Cu 324.754	108.501	108.917	108.460
Fe 271.441	22102.8	22066.4	22112.1
K 766.491	30225.9	30185.3	30281.2
Mg 279.078	104976	104571	104592
Mn 257.610	1152.75	1151.52	1153.11
Mo 202.032	100.966	100.439	101.076
Na 330.237	434759x	437046x	435502x
Ni 231.604	104.411	102.381	104.030
Pb 220.353	53.3230	53.1616	53.0420
Sb 206.834	61.5472	52.5135	54.1316
Se 196.026	108.941	103.758	90.5471
Sn 189.925	195.693	193.463	203.111
Sr 216.596	1304.06	1299.14	1297.49
Ti 334.941	99.7924	99.2990	99.7661
Tl 190.794	36.2329	37.1055	35.2723
V 292.401	101.687	102.234	102.172
Zn 206.200	104.045	101.610	101.172

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	21.4732b	ppb	0.1551	0.7	1588.24
Al 308.215	5717.82b	ppb	11.6095	0.2	12567.4
As 188.980	108.814b	ppb	1.7188	1.6	58.1713
B 249.678	542.228b	ppb	1.6438	0.3	6440.11
Ba 389.178	530.973b	ppb	0.1516	0.0	11694.5
Be 313.042	53.0946b	ppb	0.0559	0.1	92944.8
Ca 370.602	213612b	ppb	1217	0.6	583679
Cd 226.502	53.0815b	ppb	0.2791	0.5	1891.02
Co 228.615	51.8045b	ppb	0.1780	0.3	512.979
Cr 267.716	105.516b	ppb	0.2849	0.3	3273.96
Cu 324.754	108.626b	ppb	0.2530	0.2	5866.41
Fe 271.441	22093.8b	ppb	24.1231	0.1	36222.6
K 766.491	30230.8b	ppb	48.1482	0.2	960193
Mg 279.078	104713b	ppb	228.112	0.2	208913
Mn 257.610	1152.46b	ppb	0.8360	0.1	267995
Mo 202.032	100.827b	ppb	0.3404	0.3	735.862
Na 330.237	435769xb	ppb	1166.71	0.3	19052.6
Ni 231.604	103.607b	ppb	1.0786	1.0	262.000
Pb 220.353	53.1755b	ppb	0.1410	0.3	118.551
Sb 206.834	56.0641b	ppb	4.8169	8.6	52.8361
Se 196.026	101.082b	ppb	9.4846	9.4	57.4181
Sn 189.925	197.422b	ppb	5.0515	2.6	138.652
Sr 216.596	1300.23b	ppb	3.4193	0.3	12540.8
Ti 334.941	99.6192b	ppb	0.2776	0.3	25902.8
Tl 190.794	36.2036b	ppb	0.9170	2.5	19.7069
V 292.401	102.031b	ppb	0.2993	0.3	2689.50
Zn 206.200	102.276b	ppb	1.5478	1.5	135.259

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640-43099-a-1-a (Samp) 4/17/2013, 3:35:12 PM Rack 1, Tube 33
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6767u	-1.1463u	-0.7181u
Al 308.215	15.5813	16.5580	13.5636
As 188.980	4.9893	5.2295	3.9553
B 249.678	379.509	379.538	379.904
Ba 389.178	28.7456	29.3741	30.3829
Be 313.042	-0.5807u	-0.5736u	-0.5642u
Ca 370.602	236423	234338	235858
Cd 226.502	-0.4317u	-0.2812u	-0.4493u
Co 228.615	-0.5250u	0.3003	-1.4719u
Cr 267.716	-0.5928u	-0.4588u	-0.3830u
Cu 324.754	1.3955	1.8840	1.1693
Fe 271.441	836.556	837.544	835.786
K 766.491	113530x	113389x	113369x
Mg 279.078	27697.9	27672.1	27598.6
Mn 257.610	97.3388	97.3845	97.3587
Mo 202.032	1.2930	1.2307	1.1846
Na 330.237	38246.9	38447.8	38439.2
Ni 231.604	9.3499	9.0350	8.5036
Pb 220.353	2.5499	1.4926	-1.0976u
Sb 206.834	2.0970	-6.8265u	2.5906
Se 196.026	4.6148	7.6609	-1.8075u
Sn 189.925	-2.2032u	-7.6261u	-4.3158u
Sr 216.596	1683.84	1681.79	1674.67
Ti 334.941	-0.0788	-0.1616	-0.0837
Tl 190.794	2.6857	-5.2719u	-5.2235u
V 292.401	20.4488	20.6109	20.5213
Zn 206.200	48.3320	46.1818	46.3811

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8470b	ppb	0.2600	30.7	-114.138
Al 308.215	15.2343b	ppb	1.5271	10.0	9.2868
As 188.980	4.7247b	ppb	0.6770	14.3	-4.7650
B 249.678	379.650b	ppb	0.2203	0.1	4584.03
Ba 389.178	29.5009b	ppb	0.8260	2.8	722.064
Be 313.042	-0.5729b	ppb	0.0083	1.4	-320.252
Ca 370.602	235540b	ppb	1078	0.5	645193
Cd 226.502	-0.3874b	ppb	0.0924	23.9	32.1497
Co 228.615	-0.5656b	ppb	0.8868	156.8	-7.4572
Cr 267.716	-0.4782b	ppb	0.1063	22.2	-4.7204
Cu 324.754	1.4829b	ppb	0.3652	24.6	288.010
Fe 271.441	836.629b	ppb	0.8813	0.1	1481.48
K 766.491	113429xb	ppb	87.4898	0.1	3601455
Mg 279.078	27656.2b	ppb	51.5497	0.2	55205.1
Mn 257.610	97.3607b	ppb	0.0229	0.0	23141.5
Mo 202.032	1.2361b	ppb	0.0544	4.4	30.1793
Na 330.237	38378.0b	ppb	113.584	0.3	1728.62
Ni 231.604	8.9628b	ppb	0.4278	4.8	18.4793
Pb 220.353	0.9816b	ppb	1.8766	191.2	29.6131
Sb 206.834	-0.7129b	ppb	5.3002	743.4	-3.6814
Se 196.026	3.4894b	ppb	4.8335	138.5	12.0258
Sn 189.925	-4.7150b	ppb	2.7335	58.0	-8.4420
Sr 216.596	1680.10b	ppb	4.8135	0.3	16182.7
Ti 334.941	-0.1080b	ppb	0.0464	43.0	172.691
Tl 190.794	-2.6032b	ppb	4.5805	176.0	-15.0708
V 292.401	20.5270b	ppb	0.0812	0.4	559.051
Zn 206.200	46.9650b	ppb	1.1881	2.5	643923

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640-43099-a-2-a (Samp) 4/17/2013, 3:40:47 PM Rack 1, Tube 34

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9854u	-0.9964u	-0.9926u
Al 308.215	-79.2319u	-86.4466u	-84.8924u
As 188.980	-1.9237	-0.7363	-3.4052
B 249.678	1827.17	1833.51	1843.60
Ba 389.178	63.7646	64.3325	65.0744
Be 313.042	-0.6168u	-0.6138u	-0.6120u
Ca 370.602	354204	352356	354870
Cd 226.502	-0.4760u	-0.6055u	-0.5203u
Co 228.615	-0.4322u	-0.3249u	0.1344
Cr 267.716	-1.0755u	-1.2846u	-0.9476u
Cu 324.754	9.5929	10.1658	9.5838
Fe 271.441	78.4299	80.1045	83.5790
K 766.491	89209.0x	89019.3x	89309.5x
Mg 279.078	21167.7	21102.8	21131.5
Mn 257.610	33.0410	32.8868	33.0095
Mo 202.032	19.5678	18.9832	19.5603
Na 330.237	10675.9	10552.3	10203.5
Ni 231.604	48.1900	49.8127	48.0416
Pb 220.353	3.1310	0.6095	0.8498
Sb 206.834	-2.1822u	-2.9677u	4.5223
Se 196.026	6.3195	-1.0289u	0.5687
Sn 189.925	-7.9572u	-5.3399u	-5.7011u
Sr 216.596	1974.14	1968.93	1974.72
Ti 334.941	-0.1014	-0.1639	-0.1855
Tl 190.794	-1.6392u	-2.0313u	-2.2905u
V 292.401	1511.99	1509.12	1517.01
Zn 206.200	69.7243	68.6585	68.8200

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9915b	ppb	0.0056	0.6	-129.511
Al 308.215	-83.5237b	ppb	3.7971	4.5	-217.429
As 188.980	-2.0217b	ppb	1.3371	66.1	-7.8807
B 249.678	1834.76b	ppb	8.2848	0.5	21418.2
Ba 389.178	64.3905b	ppb	0.6568	1.0	1456.92
Be 313.042	-0.6142b	ppb	0.0024	0.4	-401.807
Ca 370.602	353810b	ppb	1302	0.4	969243
Cd 226.502	-0.5339b	ppb	0.0658	12.3	25.5819
Co 228.615	-0.2076b	ppb	0.3009	145.0	-4.3973
Cr 267.716	-1.1026b	ppb	0.1701	15.4	-33.7867
Cu 324.754	9.7809b	ppb	0.3334	3.4	704.111
Fe 271.441	80.7045b	ppb	2.6264	3.3	256.621
K 766.491	89179.3xb	ppb	147.372	0.2	2831605
Mg 279.078	21134.0b	ppb	32.5194	0.2	42194.7
Mn 257.610	32.9791b	ppb	0.0815	0.2	8193.15
Mo 202.032	19.3704b	ppb	0.3354	1.7	156.171
Na 330.237	10477.3b	ppb	244.982	2.3	511.911
Ni 231.604	48.6814b	ppb	0.9825	2.0	120.478
Pb 220.353	1.5301b	ppb	1.3916	91.0	30.5097
Sb 206.834	-0.2092b	ppb	4.1164	1967.8	-3.4427
Se 196.026	1.9531b	ppb	3.8649	197.9	11.3005
Sn 189.925	-6.3327b	ppb	1.4184	22.4	-9.5828
Sr 216.596	1972.60b	ppb	3.1866	0.2	18997.1
Ti 334.941	-0.1502b	ppb	0.0437	29.1	136.949
Tl 190.794	-1.9870b	ppb	0.3279	16.5	-13.6399
V 292.401	1512.71b	ppb	3.9906	0.3	40023.6
Zn 206.200	69.0676b	ppb	0.5745	0.8	92.8193

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640-43099-a-3-a (Samp) 4/17/2013, 3:46:23 PM Rack 1, Tube 35

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.1971u	-0.8475u	-0.8339u
Al 308.215	-4.0781u	-8.1400u	0.5417
As 188.980	0.0760	9.6086	2.9018
B 249.678	570.883	571.768	572.236
Ba 389.178	104.790	103.315	105.178
Be 313.042	-0.5996u	-0.6007u	-0.6093u
Ca 370.602	291181	292261	291658
Cd 226.502	-0.6250u	-0.6261u	-0.6257u
Co 228.615	1.1772	0.3857	0.2763
Cr 267.716	-0.7997u	-0.9222u	-0.4343u
Cu 324.754	3.8843	3.3224	3.2102
Fe 271.441	15.1629	13.7752	20.5615
K 766.491	221376x	221186x	221795x
Mg 279.078	41484.6	41534.4	41528.8
Mn 257.610	20.3203	20.4086	20.4541
Mo 202.032	17.6155	17.9468	17.1956
Na 330.237	39824.0	39763.6	39815.2
Ni 231.604	13.2772	13.3052	12.3308
Pb 220.353	1.9987	1.5271	2.2195
Sb 206.834	-2.0025u	-0.4686u	3.4160
Se 196.026	-8.8811u	0.3672	-2.4182u
Sn 189.925	-3.3627u	-2.7974u	-6.0029u
Sr 216.596	2001.84	2005.72	2010.17
Ti 334.941	-0.5421	-0.5025	-0.5588
Tl 190.794	-1.9969u	-2.8215u	0.1683
V 292.401	202.240	202.753	201.492
Zn 206.200	2.4509	1.7863	0.9608

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6262b	ppb	0.3716	59.3	-112.013
Al 308.215	-3.8921b	ppb	4.3438	111.6	-33.2499
As 188.980	4.1955b	ppb	4.8962	116.7	-4.6071
B 249.678	571.629b	ppb	0.6870	0.1	6806.08
Ba 389.178	104.428b	ppb	0.9831	0.9	2362.29
Be 313.042	-0.6032b	ppb	0.0053	0.9	-368.483
Ca 370.602	291700b	ppb	541.4	0.2	799093
Cd 226.502	-0.6256b	ppb	0.0005	0.1	22.4116
Co 228.615	0.6131b	ppb	0.4916	80.2	3.9021
Cr 267.716	-0.7187b	ppb	0.2539	35.3	-13.5807
Cu 324.754	3.4723b	ppb	0.3612	10.4	389.740
Fe 271.441	16.4999b	ppb	3.5853	21.7	142.804
K 766.491	221452xb	ppb	311.121	0.1	7030823
Mg 279.078	41515.9b	ppb	27.2782	0.1	82855.1
Mn 257.610	20.3943b	ppb	0.0680	0.3	5396.24
Mo 202.032	17.5859b	ppb	0.3764	2.1	145.931
Na 330.237	39800.9b	ppb	32.6281	0.1	1791.17
Ni 231.604	12.9711b	ppb	0.5547	4.3	28.7575
Pb 220.353	1.9151b	ppb	0.3537	18.5	31.1652
Sb 206.834	0.3150b	ppb	2.7930	886.7	-2.9033
Se 196.026	-3.6440b	ppb	4.7445	130.2	8.7074
Sn 189.925	-4.0543b	ppb	1.7110	42.2	-7.9401
Sr 216.596	2005.91b	ppb	4.1667	0.2	19311.6
Ti 334.941	-0.5345b	ppb	0.0289	5.4	120.672
Tl 190.794	-1.5500b	ppb	1.5442	99.6	-13.8291
V 292.401	202.162b	ppb	0.6344	0.3	5360.38
Zn 206.200	1.7326b	ppb	0.7465	43.1	6.2208

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640-43099-a-4-a (Samp) 4/17/2013, 3:52:00 PM Rack 1, Tube 36

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.3925u	-0.7092u	-1.2533u
Al 308.215	15.3002	12.9890	15.9607
As 188.980	1.4934	0.2899	11.1807
B 249.678	936.199	939.482	942.194
Ba 389.178	2.3514	2.0896	4.0164
Be 313.042	-0.5510u	-0.5517u	-0.5403u
Ca 370.602	117714	117768	117883
Cd 226.502	-0.1629u	-0.3707u	-0.6255u
Co 228.615	-0.1026u	-0.0909u	0.6586
Cr 267.716	-0.3711u	-0.6393u	-0.7027u
Cu 324.754	28.5901	29.3683	29.0531
Fe 271.441	25.4222	25.3860	31.4530
K 766.491	160809x	160301x	160184x
Mg 279.078	16930.5	16908.7	16932.9
Mn 257.610	435.392	434.944	435.065
Mo 202.032	3.5672	4.5424	3.8748
Na 330.237	17466.5	17318.9	17217.1
Ni 231.604	5.5780	6.4253	5.7102
Pb 220.353	1.9407	0.3415	0.3575
Sb 206.834	0.7903	-0.0402u	-2.6364u
Se 196.026	1.8807	1.5827	-4.2083u
Sn 189.925	-6.8804u	-6.6599u	-7.2470u
Sr 216.596	639.908	640.648	642.775
Ti 334.941	-0.3527u	-0.3033u	-0.3237u
Tl 190.794	-2.9187u	-2.3820u	0.1669u
V 292.401	24.1374	23.8618	24.3535
Zn 206.200	55.8617	53.2665	55.0207

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1184b	ppb	0.3611	32.3	-86.5618
Al 308.215	14.7500b	ppb	1.5604	10.6	8.3279
As 188.980	4.3213b	ppb	5.9708	138.2	-5.9766
B 249.678	939.292b	ppb	3.0023	0.3	11059.2
Ba 389.178	2.8191b	ppb	1.0451	37.1	122.750
Be 313.042	-0.5477b	ppb	0.0064	1.2	-314.115
Ca 370.602	117788b	ppb	86.23	0.1	322693
Cd 226.502	-0.3864b	ppb	0.2317	60.0	30.3724
Co 228.615	0.1550b	ppb	0.4361	281.3	-0.3122
Cr 267.716	-0.5710b	ppb	0.1761	30.8	-7.0161
Cu 324.754	29.0039b	ppb	0.3914	1.3	1718.48
Fe 271.441	27.4204b	ppb	3.4924	12.7	159.339
K 766.491	160431xb	ppb	332.129	0.2	5093605
Mg 279.078	16924.0b	ppb	13.3574	0.1	33790.0
Mn 257.610	435.134b	ppb	0.2319	0.1	101300
Mo 202.032	3.9948b	ppb	0.4986	12.5	49.7932
Na 330.237	17334.2b	ppb	125.424	0.7	811.049
Ni 231.604	5.9045b	ppb	0.4558	7.7	10.6079
Pb 220.353	0.8799b	ppb	0.9187	104.4	29.5112
Sb 206.834	-0.6287b	ppb	1.7876	284.3	-3.6500
Se 196.026	-0.2483b	ppb	3.4327	1382.5	10.3748
Sn 189.925	-6.9291b	ppb	0.2966	4.3	-10.1011
Sr 216.596	641.110b	ppb	1.4885	0.2	6207.68
Ti 334.941	-0.3266b	ppb	0.0248	7.6	74.2776
Tl 190.794	-1.7113b	ppb	1.6485	96.3	-14.6486
V 292.401	24.1176b	ppb	0.2464	1.0	653.547
Zn 206.200	54.7163b	ppb	1.3241	2.4	74.3609

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Cont Calib Verif (CCV) 4/17/2013, 3:57:35 PM Rack 1, Tube 37
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	487.731	483.976	480.998
Al 308.215	4929.28	4923.91	4939.12
As 188.980	472.447	479.609	477.458
B 249.678	521.043	526.656	525.916
Ba 389.178	5094.50	5102.21	5084.61
Be 313.042	512.415	513.982	512.010
Ca 370.602	5026	5088	5205
Cd 226.502	515.007	516.062	516.512
Co 228.615	518.557	521.756	518.052
Cr 267.716	5145.60	5130.36	5142.39
Cu 324.754	5143.25	5143.23	5148.77
Fe 271.441	4993.20	5015.25	5010.60
K 766.491	10056.4	10096.8	10206.0
Mg 279.078	4968.83	4965.82	4994.02
Mn 257.610	5212.29	5209.42	5196.94
Mo 202.032	488.562	491.593	493.641
Na 330.237	7077.08	7475.86	7150.14
Ni 231.604	2601.74	2605.48	2611.63
Pb 220.353	493.167	496.004	496.707
Sb 206.834	926.865	925.895	934.979
Se 196.026	4978.12	4982.17	4989.08
Sn 189.925	4993.98	4978.72	4961.33
Sr 216.596	2512.35	2514.01	2519.89
Ti 334.941	493.799	493.845	492.702
Tl 190.794	5017.81	5032.15	5028.58
V 292.401	4945.51	4960.21	4938.22
Zn 206.200	2582.31	2580.60	2583.75

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	484.235	ppb	3.3738	0.7	36444.3	96.84701
Al 308.215	4930.77	ppb	7.7146	0.2	10821.5	98.61542
As 188.980	476.505	ppb	3.6751	0.8	280.327	95.30093
B 249.678	524.538	ppb	3.0498	0.6	6255.05	20.98153Q
Ba 389.178	5093.77	ppb	8.8230	0.2	109324	101.87544
Be 313.042	512.802	ppb	1.0419	0.2	892138	102.56044
Ca 370.602	5106	ppb	91.04	1.8	13895	102.12609
Cd 226.502	515.860	ppb	0.7727	0.1	17545.2	103.17210
Co 228.615	519.455	ppb	2.0091	0.4	5179.51	103.89099
Cr 267.716	5139.45	ppb	8.0375	0.2	158497	102.78899
Cu 324.754	5145.08	ppb	3.1918	0.1	267644	102.90167
Fe 271.441	5006.35	ppb	11.6244	0.2	8415.86	100.12700
K 766.491	10119.7	ppb	77.4247	0.8	321737	101.19746
Mg 279.078	4976.22	ppb	15.4862	0.3	9882.27	99.52448
Mn 257.610	5206.22	ppb	8.1623	0.2	1206170	104.12434
Mo 202.032	491.265	ppb	2.5554	0.5	3499.01	98.25304
Na 330.237	7234.36	ppb	212.310	2.9	350.152	96.45812
Ni 231.604	2606.29	ppb	4.9934	0.2	6689.60	104.25143
Pb 220.353	495.293	ppb	1.8738	0.4	871.991	99.05853
Sb 206.834	929.247	ppb	4.9881	0.5	960.013	92.92467
Se 196.026	4983.13	ppb	5.5427	0.1	2317.84	99.66250
Sn 189.925	4978.01	ppb	16.3363	0.3	3614.73	99.56026
Sr 216.596	2515.42	ppb	3.9607	0.2	24119.0	100.61666
Ti 334.941	493.449	ppb	0.6468	0.1	125974	98.68977
Tl 190.794	5026.18	ppb	7.4639	0.1	4812.45	100.52354
V 292.401	4947.98	ppb	11.2012	0.2	130499	98.95964
Zn 206.200	2582.22	ppb	1.5772	0.1	3311.90	103.28886

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

Cont Calib Blank (CCB) 4/17/2013, 4:03:09 PM Rack 1, Tube 38
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0514u	-0.5623u	-0.7575u
Al 308.215	-2.3632u	-2.5508u	1.5946
As 188.980	-1.6511u	2.0176	-2.4585u
B 249.678	12.2311	11.2742	10.3221
Ba 389.178	-0.8419u	-0.9105u	0.3507
Be 313.042	-0.4703u	-0.4281u	-0.3943u
Ca 370.602	12.02	19.38	22.26
Cd 226.502	-0.2395u	-0.3709u	-0.4046u
Co 228.615	-0.5456u	0.1834	0.1149
Cr 267.716	-0.2915u	0.2664	0.2342
Cu 324.754	-0.1706u	0.4151	0.2318
Fe 271.441	-12.7646u	-2.2094u	-13.8581u
K 766.491	18.6959	24.4230	25.5133
Mg 279.078	5.9172	5.2217	6.0175
Mn 257.610	-0.7058u	-0.2486u	0.1932
Mo 202.032	-0.0570u	-0.1953u	0.0472
Na 330.237	-351.754u	-151.242u	13.2723
Ni 231.604	-0.9678u	0.1015	0.4747
Pb 220.353	1.5484	1.7805	-0.5227u
Sb 206.834	6.5145	-1.0193u	-2.2070u
Se 196.026	-8.9455u	-4.1422u	1.2447
Sn 189.925	-2.5291u	0.1535	0.1047
Sr 216.596	-2.6722u	-1.6134u	-2.1603u
Ti 334.941	-0.4169u	-0.3795u	-0.2867u
Tl 190.794	0.6696	2.4618	1.5095
V 292.401	-0.4987u	0.1229	0.5305
Zn 206.200	-0.4682u	-1.1220u	-1.5870u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.7904	ppb	0.2462	31.2	-34.2556	-0.79041
Al 308.215	-1.1065	ppb	2.3411	211.6	-26.6176	-1.10650
As 188.980	-0.6973	ppb	2.3856	342.1	-10.0239	-0.69733
B 249.678	11.2758	ppb	0.9545	8.5	323.260	11.27579
Ba 389.178	-0.4672	ppb	0.7092	151.8	11.2200	-0.46721
Be 313.042	-0.4309	ppb	0.0381	8.8	-138.090	-0.43088
Ca 370.602	17.89	ppb	5.277	29.5	66.94	17.88556
Cd 226.502	-0.3384	ppb	0.0872	25.8	31.8049	-0.33836
Co 228.615	-0.0824	ppb	0.4026	488.4	-2.6629	-0.08243
Cr 267.716	0.0697	ppb	0.3132	449.4	11.4919	0.06970
Cu 324.754	0.1588	ppb	0.2996	188.7	219.084	0.15876
Fe 271.441	-9.6107	ppb	6.4330	66.9	98.6232	-9.61072
K 766.491	22.8774	ppb	3.6621	16.0	1195.98	22.87739
Mg 279.078	5.7188	ppb	0.4334	7.6	46.0282	5.71882
Mn 257.610	-0.2537	ppb	0.4495	177.2	368.883	-0.25372
Mo 202.032	-0.0684	ppb	0.1217	177.9	20.9998	-0.06839
Na 330.237	-163.241	ppb	182.809	112.0	48.3440	-163.24144
Ni 231.604	-0.1305	ppb	0.7487	573.7	-4.8934	-0.13052
Pb 220.353	0.9354	ppb	1.2681	135.6	29.5151	0.93541
Sb 206.834	1.0960	ppb	4.7299	431.5	-1.8933	1.09604
Se 196.026	-3.9477	ppb	5.0979	129.1	8.5618	-3.94766
Sn 189.925	-0.7570	ppb	1.5349	202.8	-5.6618	-0.75698
Sr 216.596	-2.1486	ppb	0.5295	24.6	28.1137	-2.14863
Ti 334.941	-0.3610	ppb	0.0670	18.6	-2.8648	-0.36104
Tl 190.794	1.5470	ppb	0.8967	58.0	-10.9114	1.54697
V 292.401	0.0516	ppb	0.5183	1005.1	17.6587	0.05157
Zn 206.200	-1.0590	ppb	0.5620	53.1	-2.6287	-1.05904

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

640-43099-a-5-a (Samp) 4/17/2013, 4:08:43 PM Rack 1, Tube 39

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8599u	-1.0178u	-1.1226u
Al 308.215	49.0140	53.1214	49.4918
As 188.980	12.1690	7.3078	7.4935
B 249.678	210.565	211.329	212.185
Ba 389.178	25.4676	24.1306	24.3121
Be 313.042	-0.5640u	-0.5544u	-0.5553u
Ca 370.602	100172	100128	99952
Cd 226.502	-0.5474u	-0.5338u	-0.5512u
Co 228.615	-0.7876u	-0.7584u	0.0349
Cr 267.716	-0.2732u	-0.6837u	-0.6023u
Cu 324.754	2.9427	3.2071	3.2349
Fe 271.441	1522.90	1524.30	1510.01
K 766.491	43759.7x	43834.4x	43871.9x
Mg 279.078	16286.8	16386.5	16310.3
Mn 257.610	46.0145	46.0499	46.0144
Mo 202.032	0.3980	1.3385	0.6261
Na 330.237	48534.4	48286.1	48472.5
Ni 231.604	2.0523	2.7765	4.9372
Pb 220.353	0.3675	2.3953	1.6739
Sb 206.834	6.3330	6.7687	1.6941
Se 196.026	0.3379	-11.0386u	-5.6092u
Sn 189.925	-4.9790u	-6.3330u	-2.7539u
Sr 216.596	837.811	836.435	838.058
Ti 334.941	0.5740	0.5238	0.5751
Tl 190.794	-0.6366u	-4.0183u	2.0853
V 292.401	6.6612	6.8563	6.7780
Zn 206.200	1684.78	1695.14	1705.29

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0001b	ppb	0.1322	13.2	-87.9166
Al 308.215	50.5424b	ppb	2.2462	4.4	87.0817
As 188.980	8.9901b	ppb	2.7546	30.6	-3.3035
B 249.678	211.359b	ppb	0.8103	0.4	2636.24
Ba 389.178	24.6368b	ppb	0.7252	2.9	591.208
Be 313.042	-0.5579b	ppb	0.0053	1.0	-334.360
Ca 370.602	100084b	ppb	116.2	0.1	274080
Cd 226.502	-0.5441b	ppb	0.0092	1.7	28.1635
Co 228.615	-0.5037b	ppb	0.4667	92.6	-6.8778
Cr 267.716	-0.5198b	ppb	0.2173	41.8	-5.8641
Cu 324.754	3.1283b	ppb	0.1613	5.2	373.881
Fe 271.441	1519.07b	ppb	7.8782	0.5	2596.36
K 766.491	43822.0xb	ppb	57.1207	0.1	1391669
Mg 279.078	16327.9b	ppb	52.1279	0.3	32606.9
Mn 257.610	46.0262b	ppb	0.0205	0.0	11187.1
Mo 202.032	0.7875b	ppb	0.4906	62.3	26.9874
Na 330.237	48431.0b	ppb	129.233	0.3	2156.44
Ni 231.604	3.2553b	ppb	1.5009	46.1	3.8354
Pb 220.353	1.4789b	ppb	1.0278	69.5	30.4496
Sb 206.834	4.9319b	ppb	2.8125	57.0	1.8979
Se 196.026	-5.4366b	ppb	5.6902	104.7	7.8821
Sn 189.925	-4.6887b	ppb	1.8071	38.5	-8.4697
Sr 216.596	837.435b	ppb	0.8743	0.1	8089.46
Ti 334.941	0.5577b	ppb	0.0293	5.3	295.384
Tl 190.794	-0.8565b	ppb	3.0577	357.0	-13.3598
V 292.401	6.7652b	ppb	0.0982	1.5	194.955
Zn 206.200	1695.07b	ppb	10.2573	0.6	2183.97

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640-43099-a-6-a (Samp) 4/17/2013, 4:14:17 PM Rack 1, Tube 40
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6378u	-1.2873u	-0.8630u
Al 308.215	22.1129	26.9707	16.9935
As 188.980	2.4216	-0.4667	3.5471
B 249.678	966.778	971.699	976.339
Ba 389.178	115.131	115.730	114.705
Be 313.042	-0.5957u	-0.6115u	-0.6042u
Ca 370.602	250434	250904	251702
Cd 226.502	-0.3927	-0.3414	-0.1743
Co 228.615	-0.6249u	0.1602	0.5540
Cr 267.716	-0.4175u	-0.5315u	-0.4685u
Cu 324.754	-0.2570u	-0.2743u	0.2998
Fe 271.441	8020.06	8023.36	8016.27
K 766.491	169523x	169620x	169859x
Mg 279.078	29411.6	29392.5	29382.8
Mn 257.610	168.809	168.609	168.589
Mo 202.032	9.1398	9.2505	9.1626
Na 330.237	28511.8	28524.6	28515.0
Ni 231.604	31.1189	30.4984	30.8239
Pb 220.353	4.8203	2.6881	4.1703
Sb 206.834	0.8517	-0.2379u	1.7770
Se 196.026	-9.5722u	-0.9032u	-2.1867u
Sn 189.925	-5.4080u	-7.1346u	-2.5831u
Sr 216.596	2096.27	2090.85	2090.40
Ti 334.941	0.3422	0.3167	0.3511
Tl 190.794	1.0231	-7.3265u	-2.4431u
V 292.401	3.8365	4.0553	4.5493
Zn 206.200	24.7529	23.6162	23.3787

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9294b	ppb	0.3298	35.5	-139.550
Al 308.215	22.0257b	ppb	4.9892	22.7	24.7443
As 188.980	1.8340b	ppb	2.0704	112.9	-6.4577
B 249.678	971.605b	ppb	4.7810	0.5	11423.8
Ba 389.178	115.189b	ppb	0.5146	0.4	2573.91
Be 313.042	-0.6038b	ppb	0.0079	1.3	-370.999
Ca 370.602	251013b	ppb	640.9	0.3	687078
Cd 226.502	-0.3028b	ppb	0.1142	37.7	50.9611
Co 228.615	0.0298b	ppb	0.6002	2016.6	-1.9213
Cr 267.716	-0.4725b	ppb	0.0571	12.1	-3.2597
Cu 324.754	-0.0772b	ppb	0.3266	423.2	209.513
Fe 271.441	8019.90b	ppb	3.5459	0.0	13218.3
K 766.491	169667xb	ppb	173.362	0.1	5386819
Mg 279.078	29395.7b	ppb	14.6736	0.0	58675.3
Mn 257.610	168.669b	ppb	0.1215	0.1	39685.8
Mo 202.032	9.1843b	ppb	0.0585	0.6	86.2718
Na 330.237	28517.1b	ppb	6.6574	0.0	1296.90
Ni 231.604	30.8138b	ppb	0.3104	1.0	74.7476
Pb 220.353	3.8929b	ppb	1.0928	28.1	34.5796
Sb 206.834	0.7969b	ppb	1.0085	126.6	-2.1399
Se 196.026	-4.2207b	ppb	4.6788	110.9	8.4674
Sn 189.925	-5.0419b	ppb	2.2977	45.6	-8.6765
Sr 216.596	2092.51b	ppb	3.2700	0.2	20141.3
Ti 334.941	0.3367b	ppb	0.0179	5.3	294.695
Tl 190.794	-2.9155b	ppb	4.1948	143.9	-15.8373
V 292.401	4.1470b	ppb	0.3651	8.8	124.439
Zn 206.200	23.9159b	ppb	0.7345	3.1	247498

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640-43099-a-7-a (Samp) 4/17/2013, 4:19:51 PM Rack 1, Tube 41
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9216u	-0.5173u	-0.8994u
Al 308.215	8.9918	7.1219	10.5594
As 188.980	-1.4505	-0.2240	-0.3826
B 249.678	833.435	836.090	841.326
Ba 389.178	98.0055	98.4965	97.1172
Be 313.042	-0.6076u	-0.5921u	-0.5983u
Ca 370.602	252382	252554	253363
Cd 226.502	-0.4166u	-0.5346u	-0.5918u
Co 228.615	0.0583	-0.9816u	-0.6241u
Cr 267.716	-0.4843u	-0.7506u	-0.5603u
Cu 324.754	-0.7749u	-0.5410u	-0.5588u
Fe 271.441	3388.22	3377.96	3380.21
K 766.491	79771.1x	79585.4x	79902.0x
Mg 279.078	22025.4	21999.3	22006.8
Mn 257.610	193.947	193.698	193.577
Mo 202.032	14.2902	14.6295	13.9947
Na 330.237	37126.6	36968.3	37213.9
Ni 231.604	16.4081	15.6596	15.6695
Pb 220.353	5.9191	1.2676	2.7961
Sb 206.834	0.9926	-0.1339u	-0.8905u
Se 196.026	6.5845	-3.5242u	-8.9256u
Sn 189.925	-5.4508u	-3.1274u	-3.2498u
Sr 216.596	1913.18	1905.90	1908.67
Ti 334.941	0.0771	0.1295	0.1836
Tl 190.794	-2.1140u	-1.1415u	-1.9927u
V 292.401	7.2324	6.5415	6.9363
Zn 206.200	45.1494	45.6942	45.2858

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7794b	ppb	0.2273	29.2	-119.766
Al 308.215	8.8910b	ppb	1.7210	19.4	-3.9341
As 188.980	-0.6857b	ppb	0.6671	97.3	-7.9282
B 249.678	836.950b	ppb	4.0152	0.5	9871.27
Ba 389.178	97.8731b	ppb	0.6991	0.7	2178.50
Be 313.042	-0.5993b	ppb	0.0078	1.3	-359.729
Ca 370.602	252766b	ppb	524.1	0.2	692207
Cd 226.502	-0.5143b	ppb	0.0893	17.4	33.4086
Co 228.615	-0.5158b	ppb	0.5283	102.4	-7.4257
Cr 267.716	-0.5984b	ppb	0.1372	22.9	-7.7026
Cu 324.754	-0.6249b	ppb	0.1302	20.8	179.724
Fe 271.441	3382.13b	ppb	5.3912	0.2	5640.52
K 766.491	79752.8xb	ppb	159.047	0.2	2532348
Mg 279.078	22010.5b	ppb	13.4412	0.1	43941.4
Mn 257.610	193.740b	ppb	0.1887	0.1	45436.2
Mo 202.032	14.3048b	ppb	0.3177	2.2	122.839
Na 330.237	37103.0b	ppb	124.495	0.3	1672.38
Ni 231.604	15.9124b	ppb	0.4293	2.7	36.3805
Pb 220.353	3.3276b	ppb	2.3708	71.2	33.6151
Sb 206.834	-0.0106b	ppb	0.9476	8966.9	-3.1054
Se 196.026	-1.9551b	ppb	7.8732	402.7	9.5260
Sn 189.925	-3.9427b	ppb	1.3075	33.2	-7.8738
Sr 216.596	1909.25b	ppb	3.6751	0.2	18382.4
Ti 334.941	0.1301b	ppb	0.0532	40.9	210.570
Tl 190.794	-1.7494b	ppb	0.5299	30.3	-14.5235
V 292.401	6.9034b	ppb	0.3466	5.0	196.247
Zn 206.200	45.3765b	ppb	0.2835	0.6	623497

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640-43099-a-8-a (Samp) 4/17/2013, 4:25:26 PM Rack 1, Tube 42

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7205u	-0.5963u	-0.8277u
Al 308.215	10.6036	15.3342	16.3267
As 188.980	-0.5308	-6.6928u	-3.5006
B 249.678	1026.17	1030.59	1036.24
Ba 389.178	81.3988	81.6706	81.0663
Be 313.042	-0.6106u	-0.6056u	-0.6050u
Ca 370.602	352507	353703	352118
Cd 226.502	-0.2800u	-0.1742u	-0.2047u
Co 228.615	1.1093	1.3462	0.7735
Cr 267.716	-0.9450u	-0.7781u	-0.8356u
Cu 324.754	11.0094	11.2122	11.8154
Fe 271.441	33.5027	45.1282	38.6308
K 766.491	245078x	245480x	245594x
Mg 279.078	39388.1	39397.4	39401.6
Mn 257.610	32.5237	32.6933	32.5168
Mo 202.032	5.8891	4.7304	4.6877
Na 330.237	59727.4	59591.8	59602.1
Ni 231.604	26.7869	29.0329	28.2783
Pb 220.353	4.7236	2.1230	1.8821
Sb 206.834	9.9026	4.7557	7.6742
Se 196.026	-3.8981u	-5.7244u	-4.3746u
Sn 189.925	-3.4995u	-4.7746u	-8.1668u
Sr 216.596	2578.19	2582.42	2583.93
Ti 334.941	-0.5490	-0.4192	-0.4639
Tl 190.794	-4.1135u	-1.1618u	-3.4920u
V 292.401	9.3088	9.3477	8.8749
Zn 206.200	154.862	155.935	151.819

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7148b	ppb	0.1158	16.2	-146.547
Al 308.215	14.0882b	ppb	3.0583	21.7	7.0279
As 188.980	-3.5747b	ppb	3.0816	86.2	-8.8212
B 249.678	1031.00b	ppb	5.0495	0.5	12120.3
Ba 389.178	81.3785b	ppb	0.3027	0.4	1862.19
Be 313.042	-0.6070b	ppb	0.0031	0.5	-350.243
Ca 370.602	352776b	ppb	826.2	0.2	966402
Cd 226.502	-0.2196b	ppb	0.0545	24.8	36.1001
Co 228.615	1.0763b	ppb	0.2878	26.7	8.8841
Cr 267.716	-0.8529b	ppb	0.0848	9.9	-16.2817
Cu 324.754	11.3457b	ppb	0.4193	3.7	800.705
Fe 271.441	39.0872b	ppb	5.8262	14.9	178.407
K 766.491	245384xb	ppb	270.746	0.1	7790566
Mg 279.078	39395.7b	ppb	6.8899	0.0	78625.3
Mn 257.610	32.5780b	ppb	0.1000	0.3	8206.01
Mo 202.032	5.1024b	ppb	0.6816	13.4	57.6815
Na 330.237	59640.4b	ppb	75.5016	0.1	2655.41
Ni 231.604	28.0327b	ppb	1.1430	4.1	67.4427
Pb 220.353	2.9096b	ppb	1.5756	54.2	32.8794
Sb 206.834	7.4442b	ppb	2.5811	34.7	4.2786
Se 196.026	-4.6657b	ppb	0.9473	20.3	8.2373
Sn 189.925	-5.4803b	ppb	2.4123	44.0	-8.9487
Sr 216.596	2581.51b	ppb	2.9725	0.1	24837.5
Ti 334.941	-0.4774b	ppb	0.0659	13.8	125.067
Tl 190.794	-2.9224b	ppb	1.5561	53.2	-15.2536
V 292.401	9.1771b	ppb	0.2625	2.9	258.151
Zn 206.200	154.205b	ppb	2.1351	1.4	202.311

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

640-43099-a-9-a (Samp) 4/17/2013, 4:31:01 PM Rack 1, Tube 43

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2063u	-0.5264u	-0.4214u
Al 308.215	24.8065	24.0432	23.5430
As 188.980	-2.8481	-10.5220u	-4.8263
B 249.678	2436.47	2449.42	2463.34
Ba 389.178	182.254	182.468	182.469
Be 313.042	-0.6987u	-0.6920u	-0.7012u
Ca 370.602	757049	766079	765206
Cd 226.502	0.3264	0.4348	0.4237
Co 228.615	4.3421	3.9839	3.4636
Cr 267.716	-0.9882u	-0.5268u	-0.7349u
Cu 324.754	52.2151	51.5623	51.8741
Fe 271.441	598.087	594.311	588.993
K 766.491	551195x	550554x	551720x
Mg 279.078	90478.2	90520.1	90778.1
Mn 257.610	513.335	513.292	514.320
Mo 202.032	21.0146	21.2090	20.9079
Na 330.237	92778.2	93012.5	93026.0
Ni 231.604	193.856	193.482	192.345
Pb 220.353	4.1898	2.8920	1.7458
Sb 206.834	2.5174	6.1660	0.8188
Se 196.026	-4.9214u	-1.0140u	-10.5795u
Sn 189.925	-5.9712u	-8.0879u	-11.1255u
Sr 216.596	5250.66	5274.24	5294.02
Ti 334.941	-0.4095	-0.4264	-0.3771
Tl 190.794	-5.4831u	3.1656	-4.2191u
V 292.401	44.3266	44.2266	44.5281
Zn 206.200	141.725	144.152	142.554

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3847b	ppb	0.1632	42.4	-244.191
Al 308.215	24.1309b	ppb	0.6363	2.6	29.7052
As 188.980	-6.0655b	ppb	3.9842	65.7	-6.9158
B 249.678	2449.74b	ppb	13.4342	0.5	28532.9
Ba 389.178	182.397b	ppb	0.1240	0.1	4153.85
Be 313.042	-0.6973b	ppb	0.0048	0.7	-397.750
Ca 370.602	762778b	ppb	4981	0.7	2089523
Cd 226.502	0.3950b	ppb	0.0596	15.1	58.5920
Co 228.615	3.9298b	ppb	0.4417	11.2	37.0252
Cr 267.716	-0.7500b	ppb	0.2311	30.8	-11.5482
Cu 324.754	51.8839b	ppb	0.3265	0.6	2908.36
Fe 271.441	593.797b	ppb	4.5688	0.8	1085.40
K 766.491	551156xb	ppb	584.056	0.1	17497788
Mg 279.078	90592.2b	ppb	162.425	0.2	180751
Mn 257.610	513.649b	ppb	0.5818	0.1	119921
Mo 202.032	21.0439b	ppb	0.1527	0.7	170.738
Na 330.237	92938.9b	ppb	139.338	0.1	4107.50
Ni 231.604	193.228b	ppb	0.7868	0.4	491.745
Pb 220.353	2.9426b	ppb	1.2228	41.6	33.0193
Sb 206.834	3.1674b	ppb	2.7322	86.3	-0.1337
Se 196.026	-5.5050b	ppb	4.8094	87.4	7.9600
Sn 189.925	-8.3949b	ppb	2.5908	30.9	-10.9070
Sr 216.596	5272.98b	ppb	21.7080	0.4	50683.6
Ti 334.941	-0.4043b	ppb	0.0251	6.2	351.718
Tl 190.794	-2.1789b	ppb	4.6714	214.4	-15.2348
V 292.401	44.3604b	ppb	0.1536	0.3	1186.10
Zn 206.200	142.810b	ppb	1.2337	0.8	187.657

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

640-43099-a-10-a (Samp) 4/17/2013, 4:36:36 PM Rack 1, Tube 44

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3537u	-0.1468u	-0.5016u
Al 308.215	23.9208	29.5549	22.4191
As 188.980	-3.4224	-7.9116	5.2012
B 249.678	2467.59	2476.73	2484.60
Ba 389.178	184.254	184.336	185.149
Be 313.042	-0.6954u	-0.6998u	-0.6960u
Ca 370.602	763871	767098	769597
Cd 226.502	0.3622	0.2960	0.2721
Co 228.615	3.3878	3.8163	3.1389
Cr 267.716	-0.5012u	-1.1153u	-0.8366u
Cu 324.754	52.3246	52.2883	52.4038
Fe 271.441	587.235	596.964	588.695
K 766.491	554577x	549823x	551784x
Mg 279.078	91036.7	90917.7	91002.4
Mn 257.610	518.666	518.156	518.476
Mo 202.032	20.9767	20.3450	20.8400
Na 330.237	92865.9	93038.7	92877.3
Ni 231.604	195.687	196.378	194.810
Pb 220.353	2.8782	2.5743	7.6642
Sb 206.834	9.8901	7.5999	4.1656
Se 196.026	-15.1440u	1.2035	0.0145
Sn 189.925	-4.3292u	-7.8610u	-4.6255u
Sr 216.596	5290.50	5302.33	5315.31
Ti 334.941	-0.3652	-0.2299	-0.3034
Tl 190.794	-4.6332u	-4.5543u	-8.0946u
V 292.401	44.8880	44.9212	43.8987
Zn 206.200	141.690	140.022	139.475

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3341b	ppb	0.1782	53.4	-241.864
Al 308.215	25.2983b	ppb	3.7620	14.9	32.2579
As 188.980	-2.0443b	ppb	6.6642	326.0	-4.4210
B 249.678	2476.30b	ppb	8.5127	0.3	28840.2
Ba 389.178	184.579b	ppb	0.4949	0.3	4201.72
Be 313.042	-0.6971b	ppb	0.0024	0.3	-395.546
Ca 370.602	766856b	ppb	2871	0.4	2100694
Cd 226.502	0.3101b	ppb	0.0467	15.1	55.7166
Co 228.615	3.4477b	ppb	0.3427	9.9	32.2353
Cr 267.716	-0.8177b	ppb	0.3075	37.6	-13.6254
Cu 324.754	52.3389b	ppb	0.0591	0.1	2932.01
Fe 271.441	590.965b	ppb	5.2466	0.9	1080.78
K 766.491	552061xb	ppb	2389.02	0.4	17526518
Mg 279.078	90985.6b	ppb	61.2416	0.1	181536
Mn 257.610	518.432b	ppb	0.2578	0.0	121032
Mo 202.032	20.7206b	ppb	0.3324	1.6	168.443
Na 330.237	92927.3b	ppb	96.6421	0.1	4107.00
Ni 231.604	195.625b	ppb	0.7857	0.4	497.901
Pb 220.353	4.3722b	ppb	2.8550	65.3	35.4571
Sb 206.834	7.2185b	ppb	2.8812	39.9	3.8564
Se 196.026	-4.6420b	ppb	9.1144	196.3	8.3605
Sn 189.925	-5.6052b	ppb	1.9592	35.0	-8.8764
Sr 216.596	5302.71b	ppb	12.4076	0.2	50969.2
Ti 334.941	-0.2995b	ppb	0.0677	22.6	380.247
Tl 190.794	-5.7607b	ppb	2.0216	35.1	-18.6832
V 292.401	44.5693b	ppb	0.5810	1.3	1191.69
Zn 206.200	140.396b	ppb	1.1539	0.8	184.552

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640-43099-a-11-a (Samp) 4/17/2013, 4:42:11 PM Rack 1, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.1291u	-1.0187u	-0.7971u
Al 308.215	-1.4792u	-2.5372u	1.2195
As 188.980	-0.4212u	-6.8023u	1.2904
B 249.678	50.1243	46.2255	43.8536
Ba 389.178	-1.3048u	-2.2314u	-1.2289u
Be 313.042	-0.5455u	-0.5396u	-0.5235u
Ca 370.602	608.3	710.1	1135
Cd 226.502	-0.4976u	-0.4720u	-0.3580u
Co 228.615	-0.6072u	-0.6191u	-0.6546u
Cr 267.716	-1.2725u	-1.1682u	-0.7730u
Cu 324.754	-0.9021u	-0.9526u	-1.0781u
Fe 271.441	-13.8718u	-3.0885u	-2.0459u
K 766.491	772.342	708.511	1171.26
Mg 279.078	68.9925	82.4403	131.606
Mn 257.610	-0.9681u	-0.7647u	-0.1895u
Mo 202.032	-1.1887u	-0.2360u	-0.7766u
Na 330.237	369.393	322.200	307.355
Ni 231.604	-0.2031u	0.1600	0.5323
Pb 220.353	1.1633	2.7095	-1.2540u
Sb 206.834	0.9726	1.0992	2.3255
Se 196.026	-11.4960u	-0.3287u	-4.0794u
Sn 189.925	-4.6840u	-4.1868u	-4.7937u
Sr 216.596	1.3682	2.4578	5.0346
Ti 334.941	-0.5380u	-0.4819u	-0.4561u
Tl 190.794	-3.2949u	-5.4437u	-2.6433u
V 292.401	-0.8701u	-0.8858u	-0.4321u
Zn 206.200	-0.6846u	-1.0628u	-1.2716u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9816	ppb	0.1691	17.2	-48.8815
Al 308.215	-0.9323	ppb	1.9371	207.8	-26.2688
As 188.980	-1.9777	ppb	4.2650	215.6	-10.7964
B 249.678	46.7345	ppb	3.1662	6.8	733.458
Ba 389.178	-1.5884	ppb	0.5582	35.1	-12.6154
Be 313.042	-0.5362	ppb	0.0114	2.1	-320.905
Ca 370.602	817.7	ppb	279.2	34.1	2258
Cd 226.502	-0.4425	ppb	0.0743	16.8	28.2818
Co 228.615	-0.6270	ppb	0.0247	3.9	-8.0684
Cr 267.716	-1.0712	ppb	0.2635	24.6	-23.6866
Cu 324.754	-0.9776	ppb	0.0906	9.3	159.997
Fe 271.441	-6.3354	ppb	6.5475	103.3	103.899
K 766.491	884.037	ppb	250.780	28.4	28534.8
Mg 279.078	94.3462	ppb	32.9608	34.9	222.838
Mn 257.610	-0.6408	ppb	0.4038	63.0	279.784
Mo 202.032	-0.7338	ppb	0.4778	65.1	16.2781
Na 330.237	332.983	ppb	32.3941	9.7	69.9844
Ni 231.604	0.1631	ppb	0.3677	225.5	-4.1393
Pb 220.353	0.8729	ppb	1.9977	228.8	29.4098
Sb 206.834	1.4658	ppb	0.7472	51.0	-1.5308
Se 196.026	-5.3014	ppb	5.6830	107.2	7.9352
Sn 189.925	-4.5548	ppb	0.3234	7.1	-8.4230
Sr 216.596	2.9535	ppb	1.8828	63.7	77.1358
Ti 334.941	-0.4920	ppb	0.0419	8.5	-35.9241
Tl 190.794	-3.7940	ppb	1.4654	38.6	-16.0439
V 292.401	-0.7293	ppb	0.2575	35.3	-2.7813
Zn 206.200	-1.0064	ppb	0.2975	29.6	-2.6994

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

640-43136-e-7-b (Samp) 4/17/2013, 4:47:47 PM Rack 1, Tube 46

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5775u	-0.9139u	-0.9040u
Al 308.215	2.4299	0.0985	0.5494
As 188.980	0.7320	-5.5165u	-6.0002u
B 249.678	20.5243	19.4230	18.1168
Ba 389.178	-2.1194u	-2.5402u	-2.1426u
Be 313.042	-0.5261u	-0.5324u	-0.5316u
Ca 370.602	164.8	174.9	176.6
Cd 226.502	-0.5873u	-0.5558u	-0.4432u
Co 228.615	0.1453	-0.7282u	-1.2001u
Cr 267.716	-0.6418u	-1.0957u	-1.1994u
Cu 324.754	0.3592	0.4443	0.4340
Fe 271.441	-11.1003u	-5.2079u	-6.0810u
K 766.491	46.0200	54.3741	58.4576
Mg 279.078	8.1095	12.9943	10.7894
Mn 257.610	-1.5157u	-1.5039u	-1.5052u
Mo 202.032	-0.9756u	-0.6563u	-1.1948u
Na 330.237	327.953	484.281	663.159
Ni 231.604	-1.7031u	-1.6112u	0.9081
Pb 220.353	0.0257	1.9650	3.6105
Sb 206.834	-2.2185u	-5.2312u	-2.8140u
Se 196.026	-4.0965u	-2.3986u	-12.1203u
Sn 189.925	-4.3580u	-2.3841u	-0.8985u
Sr 216.596	-2.0433u	-2.9916u	-2.3732u
Ti 334.941	-0.4825u	-0.4542u	-0.5003u
Tl 190.794	0.4267	0.3189	1.9414
V 292.401	-1.0322u	-1.2031u	-0.8945u
Zn 206.200	-2.4642u	-2.2546u	-1.8836u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7985	ppb	0.1914	24.0	-34.8414
Al 308.215	1.0259	ppb	1.2366	120.5	-21.9586
As 188.980	-3.5949	ppb	3.7550	104.5	-11.7862
B 249.678	19.3547	ppb	1.2052	6.2	416.718
Ba 389.178	-2.2674	ppb	0.2365	10.4	-27.3893
Be 313.042	-0.5300	ppb	0.0034	0.6	-310.360
Ca 370.602	172.1	ppb	6.393	3.7	489.3
Cd 226.502	-0.5288	ppb	0.0757	14.3	25.3500
Co 228.615	-0.5943	ppb	0.6826	114.9	-7.7420
Cr 267.716	-0.9789	ppb	0.2966	30.3	-20.8387
Cu 324.754	0.4125	ppb	0.0465	11.3	232.263
Fe 271.441	-7.4631	ppb	3.1800	42.6	102.009
K 766.491	52.9506	ppb	6.3398	12.0	2150.70
Mg 279.078	10.6311	ppb	2.4462	23.0	55.8470
Mn 257.610	-1.5083	ppb	0.0065	0.4	78.3764
Mo 202.032	-0.9422	ppb	0.2708	28.7	14.7994
Na 330.237	491.797	ppb	167.729	34.1	76.9184
Ni 231.604	-0.8021	ppb	1.4818	184.7	-6.6182
Pb 220.353	1.8671	ppb	1.7944	96.1	31.1040
Sb 206.834	-3.4212	ppb	1.5955	46.6	-6.3396
Se 196.026	-6.2051	ppb	5.1925	83.7	7.5168
Sn 189.925	-2.5469	ppb	1.7355	68.1	-6.9631
Sr 216.596	-2.4694	ppb	0.4814	19.5	25.0822
Ti 334.941	-0.4790	ppb	0.0233	4.9	-32.9648
Tl 190.794	0.8957	ppb	0.9072	101.3	-11.5362
V 292.401	-1.0432	ppb	0.1546	14.8	-11.0806
Zn 206.200	-2.2008	ppb	0.2940	13.4	-45.1631

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640-43136-c-8-d (Samp) 4/17/2013, 4:53:23 PM Rack 1, Tube 47

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0461u	-0.7283u	-0.6851u
Al 308.215	1135.82	1144.11	1133.59
As 188.980	-1.2231u	2.2954	-4.2207u
B 249.678	16.8818	15.7509	15.4252
Ba 389.178	7.2732	7.9245	7.1211
Be 313.042	-0.5218u	-0.5328u	-0.5090u
Ca 370.602	1965	1988	2074
Cd 226.502	-0.4586u	-0.4132u	-0.4987u
Co 228.615	0.6833	-0.9117u	-0.2615u
Cr 267.716	0.9569	0.5659	0.6699
Cu 324.754	2.8045	2.9542	3.1998
Fe 271.441	1050.97	1053.14	1056.26
K 766.491	1121.58	1146.12	1238.14
Mg 279.078	811.415	820.552	827.772
Mn 257.610	2.5223	2.5697	2.9271
Mo 202.032	-0.7375u	-0.4633u	-0.2072u
Na 330.237	890.116	982.929	866.056
Ni 231.604	-1.3044u	-1.1544u	-0.0855u
Pb 220.353	-0.0864u	1.8595	2.6231
Sb 206.834	-0.9306u	-2.7301u	-3.0941u
Se 196.026	2.0514	-7.6717u	-4.1939u
Sn 189.925	-5.8322u	-9.1395u	-1.8711u
Sr 216.596	13.1638	14.1219	14.3585
Ti 334.941	10.9961	11.1574	10.9954
Tl 190.794	-0.2250u	-0.7723u	0.0093u
V 292.401	3.3111	2.6679	3.2440
Zn 206.200	9.3098	8.1247	7.5377

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8198	ppb	0.1971	24.0	-37.1419
Al 308.215	1137.84	ppb	5.5412	0.5	2480.62
As 188.980	-1.0495	ppb	3.2615	310.8	-10.2322
B 249.678	16.0193	ppb	0.7645	4.8	376.911
Ba 389.178	7.4396	ppb	0.4267	5.7	184.206
Be 313.042	-0.5212	ppb	0.0119	2.3	-294.680
Ca 370.602	2009	ppb	57.59	2.9	5448
Cd 226.502	-0.4569	ppb	0.0428	9.4	30.1404
Co 228.615	-0.1633	ppb	0.8020	491.2	-3.2289
Cr 267.716	0.7309	ppb	0.2025	27.7	32.0667
Cu 324.754	2.9862	ppb	0.1996	6.7	366.352
Fe 271.441	1053.46	ppb	2.6600	0.3	1835.63
K 766.491	1168.61	ppb	61.4482	5.3	37569.1
Mg 279.078	819.913	ppb	8.1972	1.0	1670.12
Mn 257.610	2.6730	ppb	0.2213	8.3	1054.36
Mo 202.032	-0.4693	ppb	0.2652	56.5	18.0962
Na 330.237	913.034	ppb	61.7152	6.8	94.8766
Ni 231.604	-0.8481	ppb	0.6647	78.4	-6.7145
Pb 220.353	1.4654	ppb	1.3971	95.3	30.4059
Sb 206.834	-2.2516	ppb	1.1584	51.4	-5.1535
Se 196.026	-3.2714	ppb	4.9268	150.6	8.8745
Sn 189.925	-5.6143	ppb	3.6391	64.8	-9.1928
Sr 216.596	13.8814	ppb	0.6326	4.6	182.425
Ti 334.941	11.0496	ppb	0.0933	0.8	2911.11
Tl 190.794	-0.3293	ppb	0.4011	121.8	-12.7695
V 292.401	3.0743	ppb	0.3536	11.5	97.8096
Zn 206.200	8.3240	ppb	0.9927	10.8	14.6942

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640-43112-d-1-d (Samp) 4/17/2013, 4:58:59 PM Rack 1, Tube 48

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9942u	-0.8188u	-0.7749u
Al 308.215	120.097	121.863	116.690
As 188.980	-1.7643u	-0.0342	2.0862
B 249.678	1080.61	1086.78	1094.05
Ba 389.178	82.6040	82.2801	82.6732
Be 313.042	-0.5727u	-0.5723u	-0.5800u
Ca 370.602	99143	99052	98878
Cd 226.502	-0.2170	-0.0943	-0.2179
Co 228.615	1.0205	1.1027	0.4188
Cr 267.716	-0.2107u	0.2100	0.1386
Cu 324.754	-0.7276u	-0.9566u	-0.8770u
Fe 271.441	13969.7	13957.9	13950.4
K 766.491	36934.0	36952.9	37125.2
Mg 279.078	32858.3	32886.2	32818.8
Mn 257.610	305.388	305.405	305.216
Mo 202.032	-0.2280u	0.1866	-0.4692u
Na 330.237	63668.6	63790.7	64133.9
Ni 231.604	2.6404	3.2987	2.0883
Pb 220.353	1.9000	3.1501	1.8049
Sb 206.834	3.0049	-3.2187u	-6.1678u
Se 196.026	-5.3779u	3.2045	-9.1108u
Sn 189.925	-9.3797u	-5.5619u	-5.1442u
Sr 216.596	590.141	589.974	589.372
Ti 334.941	0.0599	0.1282	0.0515
Tl 190.794	-0.1965u	-2.7547u	-6.1253u
V 292.401	-1.3225u	-0.9002u	-0.8030u
Zn 206.200	0.8192	-0.3036u	0.8451

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8626	ppb	0.1160	13.4	-65.5852
Al 308.215	119.550	ppb	2.6297	2.2	238.986
As 188.980	0.0959	ppb	1.9286	2010.6	-8.8513
B 249.678	1087.14	ppb	6.7267	0.6	12753.3
Ba 389.178	82.5191	ppb	0.2098	0.3	1889.12
Be 313.042	-0.5750	ppb	0.0043	0.8	-366.316
Ca 370.602	99024	ppb	134.4	0.1	270312
Cd 226.502	-0.1764	ppb	0.0711	40.3	68.2552
Co 228.615	0.8473	ppb	0.3734	44.1	6.2377
Cr 267.716	0.0460	ppb	0.2251	489.9	14.4211
Cu 324.754	-0.8537	ppb	0.1163	13.6	170.755
Fe 271.441	13959.3	ppb	9.7222	0.1	22923.0
K 766.491	37004.0	ppb	105.374	0.3	1175220
Mg 279.078	32854.4	ppb	33.8989	0.1	65574.2
Mn 257.610	305.337	ppb	0.1049	0.0	71370.5
Mo 202.032	-0.1702	ppb	0.3317	194.9	19.5932
Na 330.237	63864.4	ppb	241.238	0.4	2837.05
Ni 231.604	2.6758	ppb	0.6060	22.6	2.5981
Pb 220.353	2.2850	ppb	0.7507	32.9	31.8819
Sb 206.834	-2.1272	ppb	4.6828	220.1	-4.7513
Se 196.026	-3.7614	ppb	6.3147	167.9	8.7062
Sn 189.925	-6.6953	ppb	2.3341	34.9	-9.9251
Sr 216.596	589.829	ppb	0.4042	0.1	5719.36
Ti 334.941	0.0799	ppb	0.0421	52.7	241.564
Tl 190.794	-3.0255	ppb	2.9737	98.3	-16.4272
V 292.401	-1.0086	ppb	0.2761	27.4	-10.3745
Zn 206.200	0.4535	ppb	0.6558	144.6	45742

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

Cont Calib Verif (CCV) 4/17/2013, 5:04:34 PM Rack 1, Tube 49
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	482.047	479.102	484.134
Al 308.215	4882.98	4889.90	4897.94
As 188.980	475.344	479.105	475.409
B 249.678	517.675	521.777	524.228
Ba 389.178	5073.74	5088.91	5090.00
Be 313.042	511.139	513.728	512.112
Ca 370.602	4955	4976	4993
Cd 226.502	513.334	514.968	514.938
Co 228.615	517.999	518.687	518.327
Cr 267.716	5130.82	5134.71	5139.62
Cu 324.754	5156.70	5124.82	5247.79
Fe 271.441	4916.89	4949.17	4939.94
K 766.491	9893.57	9941.78	9958.48
Mg 279.078	4947.23	4956.16	4959.75
Mn 257.610	5169.79	5194.45	5207.94
Mo 202.032	489.230	491.458	491.046
Na 330.237	7219.35	7274.98	7071.30
Ni 231.604	2601.15	2607.63	2602.70
Pb 220.353	494.188	499.742	502.027
Sb 206.834	924.953	918.713	912.907
Se 196.026	4947.88	4980.59	4975.60
Sn 189.925	4961.43	5036.98	4998.74
Sr 216.596	2511.85	2517.46	2517.56
Ti 334.941	490.747	491.929	492.852
Tl 190.794	5009.24	5020.89	5028.03
V 292.401	4918.18	4935.19	4938.84
Zn 206.200	2576.61	2583.36	2580.30

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	481.761	ppb	2.5281	0.5	36258.3	96.35218
Al 308.215	4890.27	ppb	7.4876	0.2	10732.4	97.80543
As 188.980	476.620	ppb	2.1530	0.5	280.396	95.32390
B 249.678	521.227	ppb	3.3112	0.6	6216.82	20.84906Q
Ba 389.178	5084.21	ppb	9.0887	0.2	109119	101.68429
Be 313.042	512.326	ppb	1.3076	0.3	891312	102.46527
Ca 370.602	4974	ppb	18.76	0.4	13538	99.48985
Cd 226.502	514.414	ppb	0.9350	0.2	17496.0	102.88271
Co 228.615	518.338	ppb	0.3440	0.1	5168.35	103.66750
Cr 267.716	5135.05	ppb	4.4098	0.1	158362	102.70100
Cu 324.754	5176.43	ppb	63.8155	1.2	269274	103.52867
Fe 271.441	4935.33	ppb	16.6300	0.3	8299.82	98.70669
K 766.491	9931.28	ppb	33.7038	0.3	315754	99.31277
Mg 279.078	4954.38	ppb	6.4487	0.1	9838.92	99.08758
Mn 257.610	5190.73	ppb	19.3474	0.4	1202583	103.81456
Mo 202.032	490.578	ppb	1.1852	0.2	3494.17	98.11563
Na 330.237	7188.54	ppb	105.272	1.5	348.195	95.84725
Ni 231.604	2603.83	ppb	3.3818	0.1	6683.29	104.15315
Pb 220.353	498.653	ppb	4.0314	0.8	877.716	99.73054
Sb 206.834	918.857	ppb	6.0243	0.7	949.714	91.88575
Se 196.026	4968.02	ppb	17.6214	0.4	2310.84	99.36049
Sn 189.925	4999.05	ppb	37.7759	0.8	3630.03	99.98105
Sr 216.596	2515.63	ppb	3.2702	0.1	24121.1	100.62502
Ti 334.941	491.843	ppb	1.0553	0.2	125565	98.36855
Tl 190.794	5019.39	ppb	9.4831	0.2	4805.94	100.38776
V 292.401	4930.74	ppb	11.0228	0.2	130043	98.61474
Zn 206.200	2580.09	ppb	3.3776	0.1	3309.18	103.20364

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Cont Calib Blank (CCB) 4/17/2013, 5:10:08 PM Rack 1, Tube 50
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0849u	-1.0623u	-0.6071u
Al 308.215	0.4342	-3.9160u	3.7112
As 188.980	-0.2387u	2.7801	1.6808
B 249.678	10.9128	10.6880	8.9228
Ba 389.178	-1.8671u	-1.5908u	-1.6869u
Be 313.042	-0.5215u	-0.5050u	-0.4936u
Ca 370.602	-2.102u	-0.1643	9.937
Cd 226.502	-0.3959u	-0.3992u	-0.2122u
Co 228.615	-0.5687u	-0.5286u	-0.4601u
Cr 267.716	-0.9912u	-0.8529u	-0.3897u
Cu 324.754	-0.5089u	-0.8754u	-0.4331u
Fe 271.441	-13.7648u	-9.2704u	-13.4881u
K 766.491	0.2276	2.8447	4.8005
Mg 279.078	0.6304	-2.4007u	2.2293
Mn 257.610	-1.3358u	-1.2638u	-0.9730u
Mo 202.032	-0.4239u	-0.8131u	-0.7474u
Na 330.237	-46.3728u	14.9458	72.0227
Ni 231.604	-1.0747u	-1.4820u	-1.3556u
Pb 220.353	1.5678	1.0349	-0.4443u
Sb 206.834	0.6037	-2.4799u	2.6797
Se 196.026	-7.1445u	-1.7270u	-4.1474u
Sn 189.925	-1.1004u	-3.4251u	-2.3644u
Sr 216.596	-2.8034u	-2.4490u	-2.3342u
Ti 334.941	-0.4456u	-0.4523u	-0.4142u
Tl 190.794	2.1056	-0.1922u	0.2817
V 292.401	-0.7205u	-0.8090u	-0.4347u
Zn 206.200	-1.8557u	-1.2530u	-2.5981u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.9181	ppb	0.2696	29.4	-43.8687	-0.91811
Al 308.215	0.0765	ppb	3.8262	5004.4	-24.0349	0.07646
As 188.980	1.4074	ppb	1.5279	108.6	-8.7426	1.40738
B 249.678	10.1745	ppb	1.0898	10.7	310.522	10.17452
Ba 389.178	-1.7150	ppb	0.1402	8.2	-15.5660	-1.71496
Be 313.042	-0.5067	ppb	0.0140	2.8	-269.902	-0.50673
Ca 370.602	2.557	ppb	6.464	252.8	25.03	2.55717
Cd 226.502	-0.3358	ppb	0.1070	31.9	31.8884	-0.33577
Co 228.615	-0.5191	ppb	0.0549	10.6	-7.0003	-0.51914
Cr 267.716	-0.7446	ppb	0.3150	42.3	-13.6192	-0.74458
Cu 324.754	-0.6058	ppb	0.2365	39.0	179.329	-0.60581
Fe 271.441	-12.1744	ppb	2.5188	20.7	94.3427	-12.17442
K 766.491	2.6243	ppb	2.2944	87.4	553.016	2.62426
Mg 279.078	0.1530	ppb	2.3516	1537.2	34.9395	0.15298
Mn 257.610	-1.1909	ppb	0.1921	16.1	151.814	-1.19086
Mo 202.032	-0.6615	ppb	0.2083	31.5	16.7916	-0.66147
Na 330.237	13.5320	ppb	59.2104	437.6	56.0596	13.53197
Ni 231.604	-1.3041	ppb	0.2085	16.0	-7.9078	-1.30413
Pb 220.353	0.7195	ppb	1.0425	144.9	29.1479	0.71949
Sb 206.834	0.2679	ppb	2.5961	969.2	-2.7116	0.26786
Se 196.026	-4.3396	ppb	2.7139	62.5	8.3802	-4.33963
Sn 189.925	-2.2966	ppb	1.1638	50.7	-6.7813	-2.29662
Sr 216.596	-2.5289	ppb	0.2446	9.7	24.4933	-2.52890
Ti 334.941	-0.4374	ppb	0.0203	4.6	-22.3610	-0.43737
Tl 190.794	0.7317	ppb	1.2132	165.8	-11.6939	0.73167
V 292.401	-0.6547	ppb	0.1957	29.9	-0.8702	-0.65473
Zn 206.200	-1.9023	ppb	0.6738	255.4	45.5467	-1.90227

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640-43112-d-2-b (Samp) 4/17/2013, 5:15:42 PM Rack 1, Tube 51

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9848u	-0.5090u	-0.5592u
Al 308.215	31.5619	32.8193	30.7659
As 188.980	-7.3640u	-4.1688u	-4.2505u
B 249.678	84.2625	83.8989	85.0156
Ba 389.178	18.6422	17.9354	18.2627
Be 313.042	-0.5459u	-0.5451u	-0.5446u
Ca 370.602	3926	3906	3927
Cd 226.502	-0.5388u	-0.2536u	-0.5270u
Co 228.615	0.2531	-0.5394u	-0.2750u
Cr 267.716	-0.7880u	-0.9374u	-1.0970u
Cu 324.754	-0.7503u	-1.1359u	-1.1282u
Fe 271.441	-13.1645u	-7.9707u	-13.4196u
K 766.491	3230.77	3212.43	3235.88
Mg 279.078	1042.26	1041.97	1042.98
Mn 257.610	2.6315	2.5910	2.6155
Mo 202.032	-1.1623u	-0.8322u	-0.7020u
Na 330.237	975.471	1470.11	1318.66
Ni 231.604	-0.3931u	0.0988	0.1809
Pb 220.353	-0.5262u	-0.9948u	-0.4241u
Sb 206.834	3.8140	4.1876	3.1428
Se 196.026	2.6405	-3.2341u	2.8679
Sn 189.925	-2.2178u	-3.4287u	-3.8137u
Sr 216.596	17.7610	17.8525	17.5137
Ti 334.941	-0.4943u	-0.4689u	-0.4819u
Tl 190.794	-0.1915u	-1.8073u	-3.6202u
V 292.401	-0.8690u	-0.9758u	-1.1535u
Zn 206.200	-1.4287u	-1.8383u	-2.1975u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6843	ppb	0.2614	38.2	-27.1503
Al 308.215	31.7157	ppb	1.0353	3.3	45.5989
As 188.980	-5.2611	ppb	1.8216	34.6	-12.7690
B 249.678	84.3923	ppb	0.5696	0.7	1169.11
Ba 389.178	18.2801	ppb	0.3537	1.9	415.885
Be 313.042	-0.5452	ppb	0.0007	0.1	-335.812
Ca 370.602	3920	ppb	12.11	0.3	10755
Cd 226.502	-0.4398	ppb	0.1614	36.7	28.3690
Co 228.615	-0.1871	ppb	0.4035	215.7	-3.6819
Cr 267.716	-0.9408	ppb	0.1545	16.4	-19.6445
Cu 324.754	-1.0048	ppb	0.2205	21.9	158.580
Fe 271.441	-11.5183	ppb	3.0749	26.7	95.4639
K 766.491	3226.36	ppb	12.3333	0.4	102896
Mg 279.078	1042.40	ppb	0.5184	0.0	2114.08
Mn 257.610	2.6127	ppb	0.0204	0.8	1038.78
Mo 202.032	-0.8988	ppb	0.2373	26.4	15.1073
Na 330.237	1254.75	ppb	253.438	20.2	110.189
Ni 231.604	-0.0378	ppb	0.3104	821.0	-4.6554
Pb 220.353	-0.6484	ppb	0.3043	46.9	26.8178
Sb 206.834	3.7148	ppb	0.5294	14.3	0.6851
Se 196.026	0.7581	ppb	3.4592	456.3	10.7404
Sn 189.925	-3.1534	ppb	0.8328	26.4	-7.4026
Sr 216.596	17.7091	ppb	0.1753	1.0	218.930
Ti 334.941	-0.4817	ppb	0.0127	2.6	-29.4660
Tl 190.794	-1.8730	ppb	1.7153	91.6	-14.2022
V 292.401	-0.9994	ppb	0.1437	14.4	-9.9064
Zn 206.200	-1.8215	ppb	0.3847	21.1	-1.6509

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640-43112-d-3-b (Samp) 4/17/2013, 5:21:16 PM Rack 1, Tube 52

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8642u	-0.9748u	-0.6993u
Al 308.215	7.6395	8.4893	4.2998
As 188.980	-4.0190u	-1.3125u	0.2711
B 249.678	1.3026	1.6360	1.7321
Ba 389.178	12.3006	12.0482	11.7891
Be 313.042	-0.5323u	-0.5273u	-0.5280u
Ca 370.602	121.9	120.4	120.9
Cd 226.502	-0.4274u	-0.4618u	-0.5720u
Co 228.615	-0.4263u	-0.6266u	0.1102
Cr 267.716	-0.7775u	-1.3134u	-0.8209u
Cu 324.754	-0.6802u	-1.0320u	-0.5541u
Fe 271.441	9.1661	14.1878	11.6290
K 766.491	62.8864	65.4281	68.1696
Mg 279.078	366.778	374.581	369.867
Mn 257.610	0.8465	0.8391	0.8775
Mo 202.032	-1.3038u	-1.0186u	-0.6265u
Na 330.237	1252.94	1399.58	1377.47
Ni 231.604	-1.2928u	0.0473	-0.0872u
Pb 220.353	-0.0615u	1.4111	2.4443
Sb 206.834	-2.1392u	-3.4031u	5.3083
Se 196.026	4.5645	0.8519	0.2902
Sn 189.925	-0.4248u	-3.5384u	-2.1442u
Sr 216.596	0.2145	-0.7114u	0.2041
Ti 334.941	-0.5317u	-0.5346u	-0.4961u
Tl 190.794	-2.4864u	2.9724	-2.6225u
V 292.401	-0.8755u	-1.1506u	-0.7532u
Zn 206.200	-2.3398u	-1.1217u	-0.7150u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8461	ppb	0.1386	16.4	-38.5407
Al 308.215	6.8095	ppb	2.2147	32.5	-9.2391
As 188.980	-1.6868	ppb	2.1694	128.6	-10.6253
B 249.678	1.5569	ppb	0.2254	14.5	210.802
Ba 389.178	12.0460	ppb	0.2557	2.1	280.556
Be 313.042	-0.5292	ppb	0.0027	0.5	-309.025
Ca 370.602	121.1	ppb	0.7877	0.7	348.0
Cd 226.502	-0.4871	ppb	0.0755	15.5	26.8097
Co 228.615	-0.3142	ppb	0.3810	121.2	-4.9476
Cr 267.716	-0.9706	ppb	0.2976	30.7	-20.5628
Cu 324.754	-0.7554	ppb	0.2476	32.8	171.545
Fe 271.441	11.6610	ppb	2.5110	21.5	133.303
K 766.491	65.4947	ppb	2.6422	4.0	2548.94
Mg 279.078	370.409	ppb	3.9298	1.1	773.539
Mn 257.610	0.8544	ppb	0.0204	2.4	627.677
Mo 202.032	-0.9830	ppb	0.3400	34.6	14.5090
Na 330.237	1343.33	ppb	79.0530	5.9	114.044
Ni 231.604	-0.4442	ppb	0.7379	166.1	-5.6988
Pb 220.353	1.2646	ppb	1.2593	99.6	30.0780
Sb 206.834	-0.0780	ppb	4.7073	6037.9	-3.0443
Se 196.026	1.9022	ppb	2.3227	122.1	11.2695
Sn 189.925	-2.0358	ppb	1.5596	76.6	-6.5913
Sr 216.596	-0.0976	ppb	0.5316	544.6	47.8340
Ti 334.941	-0.5208	ppb	0.0215	4.1	-42.2112
Tl 190.794	-0.7122	ppb	3.1917	448.2	-13.0853
V 292.401	-0.9264	ppb	0.2035	22.0	-7.9565
Zn 206.200	-1.3922	ppb	0.8455	60.7	-2.2028

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

640-43094-g-1-a^10 (Samp) **4/17/2013, 5:26:51 PM** **Rack 1, Tube 53**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.0243u	-0.9559u	-1.0807u
Al 308.215	-6.1906u	-0.5344u	-0.2018u
As 188.980	5.7284	-7.2236u	-3.0483u
B 249.678	27.0363	26.9114	26.2460
Ba 389.178	40.4783	39.7474	39.8189
Be 313.042	-0.5463u	-0.5387u	-0.5361u
Ca 370.602	21187	20530	20358
Cd 226.502	-0.3679u	-0.3184u	-0.4210u
Co 228.615	0.0053	-1.1829u	-0.5107u
Cr 267.716	-0.8437u	-1.0900u	-1.1762u
Cu 324.754	-0.8396u	-0.5501u	-0.9931u
Fe 271.441	1781.63	1726.37	1705.19
K 766.491	1738.86	1695.28	1676.34
Mg 279.078	9967.67	9681.89	9591.67
Mn 257.610	62.4085	60.5374	60.0123
Mo 202.032	-1.4654u	-1.4207u	-0.7148u
Na 330.237	36662.4	35836.9	35236.3
Ni 231.604	0.5255	0.3797	-1.6480u
Pb 220.353	2.1588	3.1920	-0.0540u
Sb 206.834	0.9587	-0.4142u	-5.1230u
Se 196.026	-0.0071	-5.8270u	-8.2107u
Sn 189.925	-7.0694u	-6.0302u	-3.1487u
Sr 216.596	122.269	118.973	117.526
Ti 334.941	-0.6388u	-0.6148u	-0.6704u
Tl 190.794	-2.7122u	-0.2553u	-2.1798u
V 292.401	-1.3835u	-0.8887u	-1.0551u
Zn 206.200	-0.6492u	-3.1578u	-1.7815u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0203	ppb	0.0625	6.1	-56.9658
Al 308.215	-2.3089	ppb	3.3658	145.8	-29.3108
As 188.980	-1.5145	ppb	6.6108	436.5	-10.3643
B 249.678	26.7312	ppb	0.4249	1.6	500.039
Ba 389.178	40.0149	ppb	0.4029	1.0	905.480
Be 313.042	-0.5404	ppb	0.0053	1.0	-325.673
Ca 370.602	20692	ppb	437.4	2.1	56579
Cd 226.502	-0.3691	ppb	0.0513	13.9	34.5713
Co 228.615	-0.5628	ppb	0.5958	105.9	-7.4712
Cr 267.716	-1.0366	ppb	0.1726	16.6	-21.8039
Cu 324.754	-0.7943	ppb	0.2250	28.3	170.060
Fe 271.441	1737.73	ppb	39.4680	2.3	2953.59
K 766.491	1703.49	ppb	32.0587	1.9	54549.8
Mg 279.078	9747.08	ppb	196.289	2.0	19478.6
Mn 257.610	60.9861	ppb	1.2595	2.1	14612.9
Mo 202.032	-1.2003	ppb	0.4210	35.1	12.8819
Na 330.237	35911.9	ppb	716.030	2.0	1621.15
Ni 231.604	-0.2476	ppb	1.2150	490.8	-5.1586
Pb 220.353	1.7656	ppb	1.6584	93.9	30.9451
Sb 206.834	-1.5262	ppb	3.1897	209.0	-4.4321
Se 196.026	-4.6816	ppb	4.2200	90.1	8.2348
Sn 189.925	-5.4161	ppb	2.0312	37.5	-9.0317
Sr 216.596	119.589	ppb	2.4306	2.0	1198.17
Ti 334.941	-0.6413	ppb	0.0279	4.3	-36.5559
Tl 190.794	-1.7158	ppb	1.2925	75.3	-14.2202
V 292.401	-1.1091	ppb	0.2518	22.7	-12.9221
Zn 206.200	-1.8628	ppb	1.2562	67.4	-15.5976

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640-43094-g-1-b ms (Samp) 4/17/2013, 5:32:25 PM Rack 1, Tube 54

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	2.8779	3.3844	3.2325
Al 308.215	535.800	521.661	527.237
As 188.980	6.1214	0.3261	12.5939
B 249.678	45.9366	45.0183	45.5917
Ba 389.178	50.2256	49.4433	51.3884
Be 313.042	4.8961	4.8793	4.8846
Ca 370.602	21395	21224	21265
Cd 226.502	4.9242	5.1224	4.9334
Co 228.615	5.3550	4.8793	5.5851
Cr 267.716	9.7684	9.5032	9.6064
Cu 324.754	9.5845	9.8218	9.6580
Fe 271.441	2255.31	2249.03	2260.22
K 766.491	2192.14	2185.13	2190.10
Mg 279.078	10324.7	10275.4	10321.1
Mn 257.610	116.877	116.334	116.769
Mo 202.032	9.6258	9.2222	9.0096
Na 330.237	37054.4	36860.8	36939.9
Ni 231.604	9.9980	9.4247	10.8660
Pb 220.353	6.2133	3.9718	2.0011
Sb 206.834	5.7774	6.1453	2.5199
Se 196.026	6.1890	9.9762	-3.1401u
Sn 189.925	20.3881	15.0450	20.1870
Sr 216.596	129.859	129.572	130.897
Ti 334.941	9.3738	9.3385	9.4397
Tl 190.794	2.7676	-0.7799u	2.2392
V 292.401	9.6825	9.3197	9.3291
Zn 206.200	9.3822	9.1860	9.2145

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	3.1649	ppb	0.2599	8.2	258.117
Al 308.215	528.233	ppb	7.1216	1.3	1139.07
As 188.980	6.3471	ppb	6.1370	96.7	-5.5815
B 249.678	45.5155	ppb	0.4639	1.0	716.744
Ba 389.178	50.3524	ppb	0.9787	1.9	1129.34
Be 313.042	4.8867	ppb	0.0086	0.2	9110.21
Ca 370.602	21295	ppb	89.06	0.4	58198
Cd 226.502	4.9933	ppb	0.1119	2.2	217.540
Co 228.615	5.2731	ppb	0.3599	6.8	50.5808
Cr 267.716	9.6260	ppb	0.1337	1.4	307.207
Cu 324.754	9.6881	ppb	0.1214	1.3	715.334
Fe 271.441	2254.86	ppb	5.6100	0.2	3799.45
K 766.491	2189.13	ppb	3.6038	0.2	69966.9
Mg 279.078	10307.1	ppb	27.4731	0.3	20594.8
Mn 257.610	116.660	ppb	0.2872	0.2	27511.1
Mo 202.032	9.2859	ppb	0.3130	3.4	87.2656
Na 330.237	36951.7	ppb	97.3271	0.3	1666.23
Ni 231.604	10.0962	ppb	0.7256	7.2	21.4194
Pb 220.353	4.0621	ppb	2.1076	51.9	34.8463
Sb 206.834	4.8142	ppb	1.9955	41.4	1.8321
Se 196.026	4.3417	ppb	6.7504	155.5	12.4233
Sn 189.925	18.5400	ppb	3.0285	16.3	8.3889
Sr 216.596	130.109	ppb	0.6968	0.5	1298.82
Ti 334.941	9.3840	ppb	0.0514	0.5	2522.89
Tl 190.794	1.4090	ppb	1.9139	135.8	-11.3180
V 292.401	9.4438	ppb	0.2068	2.2	263.798
Zn 206.200	9.2609	ppb	0.1961	2.1	15.8769

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

640-43094-g-1-c msd (Samp) **4/17/2013, 5:38:00 PM** **Rack 1, Tube 55****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1.5551	1.3957	1.5907
Al 308.215	544.991	542.729	529.509
As 188.980	15.8049	9.0607	5.3599
B 249.678	46.5231	47.0421	46.4943
Ba 389.178	51.8475	50.9283	52.0076
Be 313.042	5.0540	4.9743	4.9127
Ca 370.602	21921	21631	21376
Cd 226.502	5.0622	5.0421	4.9108
Co 228.615	4.1836	4.6662	4.4911
Cr 267.716	9.9227	9.9328	9.8019
Cu 324.754	9.7710	10.1118	10.0071
Fe 271.441	2333.57	2301.13	2271.92
K 766.491	2242.63	2218.81	2202.87
Mg 279.078	10630.2	10483.6	10339.0
Mn 257.610	120.229	118.684	117.371
Mo 202.032	9.3413	9.3897	9.1082
Na 330.237	37816.2	37317.5	36699.7
Ni 231.604	11.6028	9.9249	9.7845
Pb 220.353	6.7549	6.2583	6.8607
Sb 206.834	5.2370	8.4072	4.3124
Se 196.026	9.3569	19.3416	5.0687
Sn 189.925	14.6537	14.6019	15.0798
Sr 216.596	134.691	131.388	130.186
Ti 334.941	9.7731	9.5865	9.5334
Tl 190.794	0.5965	0.1643u	0.3016
V 292.401	9.5503	9.7280	9.3109
Zn 206.200	9.5535	8.3093	7.9846

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.5139	ppb	0.1038	6.9	133.662
Al 308.215	539.076	ppb	8.3623	1.6	1162.95
As 188.980	10.0752	ppb	5.2959	52.6	-3.3098
B 249.678	46.6865	ppb	0.3083	0.7	730.239
Ba 389.178	51.5945	ppb	0.5825	1.1	1156.45
Be 313.042	4.9804	ppb	0.0708	1.4	9273.22
Ca 370.602	21643	ppb	272.4	1.3	59148
Cd 226.502	5.0051	ppb	0.0822	1.6	218.039
Co 228.615	4.4470	ppb	0.2443	5.5	42.3559
Cr 267.716	9.8858	ppb	0.0729	0.7	315.235
Cu 324.754	9.9633	ppb	0.1746	1.8	729.656
Fe 271.441	2302.21	ppb	30.8384	1.3	3876.78
K 766.491	2221.43	ppb	20.0115	0.9	70992.6
Mg 279.078	10484.3	ppb	145.594	1.4	20948.3
Mn 257.610	118.761	ppb	1.4303	1.2	27998.8
Mo 202.032	9.2798	ppb	0.1505	1.6	87.2198
Na 330.237	37277.8	ppb	559.301	1.5	1680.45
Ni 231.604	10.4374	ppb	1.0117	9.7	22.2966
Pb 220.353	6.6247	ppb	0.3216	4.9	39.2138
Sb 206.834	5.9855	ppb	2.1476	35.9	2.9873
Se 196.026	11.2558	ppb	7.3234	65.1	15.6237
Sn 189.925	14.7785	ppb	0.2623	1.8	5.6538
Sr 216.596	132.088	ppb	2.3324	1.8	1317.84
Ti 334.941	9.6310	ppb	0.1259	1.3	2586.58
Tl 190.794	0.3541	ppb	0.2209	62.4	-12.3370
V 292.401	9.5297	ppb	0.2093	2.2	266.056
Zn 206.200	8.6158	ppb	0.8282	9.6	15.0469

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640-43094-g-2-a (Samp) 4/17/2013, 5:43:35 PM Rack 1, Tube 56

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.1987u	-1.1714u	-0.9773u
Al 308.215	3.3535	6.0824	0.0673
As 188.980	-1.9700	1.4088	-6.3934u
B 249.678	250.115	251.381	250.591
Ba 389.178	87.4286	89.1485	87.8607
Be 313.042	-0.5789u	-0.5764u	-0.5871u
Ca 370.602	186301	185809	186391
Cd 226.502	-0.3428u	-0.5995u	-0.3793u
Co 228.615	-0.9248u	-0.6910u	0.4740
Cr 267.716	-1.1814u	-0.8385u	-0.6572u
Cu 324.754	1.0054	1.2186	1.3756
Fe 271.441	1044.61	1037.93	1038.73
K 766.491	14782.6	14840.6	14805.3
Mg 279.078	76654.2	76689.8	76595.2
Mn 257.610	591.725	591.821	590.781
Mo 202.032	-0.2443u	0.4507	0.1492
Na 330.237	338347x	337929x	336474x
Ni 231.604	2.0168	2.1201	2.9744
Pb 220.353	0.5957	3.1054	2.1950
Sb 206.834	0.2011	1.8982	-4.0953u
Se 196.026	-6.9994u	-0.2875	-5.8253u
Sn 189.925	-5.0481u	-5.8324u	-3.4164u
Sr 216.596	961.544	956.742	955.829
Ti 334.941	-1.3595u	-1.3509u	-1.3553u
Tl 190.794	-4.8654u	-0.6187u	-1.3216u
V 292.401	-0.5380u	0.0957	-0.0804u
Zn 206.200	-1.6351u	-0.3966u	0.9541

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1158b	ppb	0.1207	10.8	-101.049
Al 308.215	3.1677b	ppb	3.0118	95.1	-17.2059
As 188.980	-2.3182b	ppb	3.9127	168.8	-9.4551
B 249.678	250.695b	ppb	0.6397	0.3	3091.79
Ba 389.178	88.1459b	ppb	0.8947	1.0	2098.51
Be 313.042	-0.5808b	ppb	0.0056	1.0	-375.729
Ca 370.602	186167b	ppb	313.1	0.2	509940
Cd 226.502	-0.4405b	ppb	0.1389	31.5	29.9384
Co 228.615	-0.3806b	ppb	0.7493	196.9	-5.6558
Cr 267.716	-0.8924b	ppb	0.2662	29.8	-12.7693
Cu 324.754	1.1999b	ppb	0.1858	15.5	273.533
Fe 271.441	1040.42b	ppb	3.6493	0.4	1814.24
K 766.491	14809.5b	ppb	29.2308	0.2	470621
Mg 279.078	76646.4b	ppb	47.7945	0.1	152929
Mn 257.610	591.442b	ppb	0.5749	0.1	137848
Mo 202.032	0.1185b	ppb	0.3485	294.0	22.2754
Na 330.237	337583xb	ppb	982.764	0.3	14777.3
Ni 231.604	2.3704b	ppb	0.5256	22.2	1.5514
Pb 220.353	1.9654b	ppb	1.2705	64.6	31.4019
Sb 206.834	-0.6653b	ppb	3.0893	464.3	-3.6134
Se 196.026	-4.3707b	ppb	3.5846	82.0	8.5025
Sn 189.925	-4.7656b	ppb	1.2325	25.9	-8.4099
Sr 216.596	958.038b	ppb	3.0700	0.3	9253.86
Ti 334.941	-1.3552b	ppb	0.0043	0.3	35.5061
Tl 190.794	-2.2685b	ppb	2.2762	100.3	-15.4670
V 292.401	-0.1742b	ppb	0.3271	187.8	10.2208
Zn 206.200	-0.3592b	ppb	1.2950	260.5	4575308

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640-43094-g-2-a^10 (Samp) **4/17/2013, 5:49:11 PM** **Rack 1, Tube 57**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.8816u	-1.0968u	-0.9042u
Al 308.215	-0.6943u	-5.1173u	-4.9096u
As 188.980	-4.8360u	-3.5061u	1.4978
B 249.678	21.5334	22.0824	21.0533
Ba 389.178	6.6927	6.3025	5.7110
Be 313.042	-0.5517u	-0.5504u	-0.5457u
Ca 370.602	18777	18924	18847
Cd 226.502	-0.4327u	-0.2963u	-0.5577u
Co 228.615	-0.1432u	-0.5033u	-0.6657u
Cr 267.716	-0.8489u	-1.2226u	-1.1557u
Cu 324.754	-0.7176u	-1.3090u	-1.1205u
Fe 271.441	99.9707	99.4173	91.6245
K 766.491	1100.77	1112.61	1112.62
Mg 279.078	7643.23	7679.85	7675.65
Mn 257.610	59.3882	59.6656	59.6525
Mo 202.032	-1.3685u	-1.1274u	-1.2780u
Na 330.237	29012.9	29325.7	29255.3
Ni 231.604	0.8363	-1.8909u	-0.3329u
Pb 220.353	0.1207	4.3125	3.2056
Sb 206.834	0.1276	0.7935	0.2768
Se 196.026	-7.2770u	-3.9618u	2.0952
Sn 189.925	-6.5585u	-3.4217u	1.4679
Sr 216.596	95.8678	96.9283	96.7407
Ti 334.941	-0.6565u	-0.6678u	-0.6519u
Tl 190.794	-0.3596u	-5.2198u	-3.2993u
V 292.401	-0.8193u	-1.0515u	-0.9208u
Zn 206.200	-1.8279u	-1.1143u	-0.8052u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9609	ppb	0.1183	12.3	-51.4482
Al 308.215	-3.5737	ppb	2.4958	69.8	-32.1063
As 188.980	-2.2814	ppb	3.3398	146.4	-10.8302
B 249.678	21.5564	ppb	0.5150	2.4	442.068
Ba 389.178	6.2354	ppb	0.4943	7.9	173.636
Be 313.042	-0.5493	ppb	0.0032	0.6	-340.951
Ca 370.602	18849	ppb	73.36	0.4	51647
Cd 226.502	-0.4289	ppb	0.1308	30.5	28.9223
Co 228.615	-0.4374	ppb	0.2674	61.1	-6.1706
Cr 267.716	-1.0757	ppb	0.1993	18.5	-23.3333
Cu 324.754	-1.0490	ppb	0.3021	28.8	156.304
Fe 271.441	97.0042	ppb	4.6671	4.8	272.721
K 766.491	1108.67	ppb	6.8382	0.6	35666.0
Mg 279.078	7666.24	ppb	20.0453	0.3	15327.3
Mn 257.610	59.5688	ppb	0.1565	0.3	14268.1
Mo 202.032	-1.2580	ppb	0.1218	9.7	12.5529
Na 330.237	29198.0	ppb	164.133	0.6	1328.77
Ni 231.604	-0.4625	ppb	1.3682	295.8	-5.7440
Pb 220.353	2.5463	ppb	2.1723	85.3	32.2757
Sb 206.834	0.3993	ppb	0.3494	87.5	-2.5731
Se 196.026	-3.0479	ppb	4.7524	155.9	8.9921
Sn 189.925	-2.8374	ppb	4.0450	142.6	-7.1592
Sr 216.596	96.5123	ppb	0.5660	0.6	976.096
Ti 334.941	-0.6587	ppb	0.0082	1.2	-49.2994
Tl 190.794	-2.9596	ppb	2.4478	82.7	-15.3323
V 292.401	-0.9305	ppb	0.1164	12.5	-8.1273
Zn 206.200	-1.2492	ppb	0.5245	42.0	-2.3874

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640-43094-f-4-a (Samp) 4/17/2013, 5:54:47 PM Rack 1, Tube 58
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.1802u	-1.0713u	-1.1150u
Al 308.215	8.0372	7.0845	3.2988
As 188.980	4.9152	-4.0650u	-4.7675u
B 249.678	2114.24	2127.15	2128.32
Ba 389.178	474.473	474.079	473.181
Be 313.042	-0.4690u	-0.4815u	-0.4688u
Ca 370.602	139244	139153	138757
Cd 226.502	-0.1492	-0.1139	-0.2623
Co 228.615	0.2522	0.2371	0.6897
Cr 267.716	-1.4501u	-2.0533u	-1.8866u
Cu 324.754	-0.3195u	-0.5705u	-0.6654u
Fe 271.441	10137.1	10117.3	10097.8
K 766.491	110496x	110737x	110585x
Mg 279.078	239431	239514	239032
Mn 257.610	389.508	389.122	388.384
Mo 202.032	-2.2317u	-0.4225u	-1.3843u
Na 330.237	2059720x	2068440x	2059915x
Ni 231.604	1.9310	-1.0846u	2.7767
Pb 220.353	2.8601	8.7796	2.4167
Sb 206.834	5.1979	-1.3510u	-1.6199u
Se 196.026	14.8884	5.4822	4.5261
Sn 189.925	-6.5520u	-3.2691u	-3.2713u
Sr 216.596	1485.03	1483.81	1481.27
Ti 334.941	-3.5149u	-3.5189u	-3.4340u
Tl 190.794	-0.4474u	-5.2227u	-4.6784u
V 292.401	-0.2856u	0.2229u	-0.4292u
Zn 206.200	-0.7203u	3.4849	1.5943

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1221b	ppb	0.0548	4.9	-129.020
Al 308.215	6.1402b	ppb	2.5064	40.8	-10.7242
As 188.980	-1.3057b	ppb	5.3990	413.5	-9.3317
B 249.678	2123.24b	ppb	7.8158	0.4	24743.9
Ba 389.178	473.911b	ppb	0.6624	0.1	10778.9
Be 313.042	-0.4731b	ppb	0.0073	1.5	-385.917
Ca 370.602	139051b	ppb	259.2	0.2	380230
Cd 226.502	-0.1752b	ppb	0.0775	44.2	52.7334
Co 228.615	0.3930b	ppb	0.2570	65.4	1.8770
Cr 267.716	-1.7967b	ppb	0.3115	17.3	-21.4178
Cu 324.754	-0.5185b	ppb	0.1787	34.5	186.976
Fe 271.441	10117.4b	ppb	19.6564	0.2	16645.4
K 766.491	110606xb	ppb	121.755	0.1	3511832
Mg 279.078	239326b	ppb	257.390	0.1	477465
Mn 257.610	389.005b	ppb	0.5712	0.1	91928.6
Mo 202.032	-1.3462b	ppb	0.9052	67.2	11.4333
Na 330.237	2062692xb	ppb	4979.33	0.2	90007.7
Ni 231.604	1.2077b	ppb	2.0297	168.1	-1.2502
Pb 220.353	4.6854b	ppb	3.5525	75.8	35.9948
Sb 206.834	0.7423b	ppb	3.8610	520.1	-2.0106
Se 196.026	8.2989b	ppb	5.7267	69.0	14.3119
Sn 189.925	-4.3641b	ppb	1.8948	43.4	-7.6359
Sr 216.596	1483.37b	ppb	1.9183	0.1	14290.9
Ti 334.941	-3.4893b	ppb	0.0479	1.4	45.4082
Tl 190.794	-3.4495b	ppb	2.6141	75.8	-16.7708
V 292.401	-0.1640b	ppb	0.3426	208.9	0.3496
Zn 206.200	1.4530b	ppb	2.1061	145.0	5.8618

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

640-43094-f-4-a^10 (Samp) 4/17/2013, 6:00:23 PM Rack 1, Tube 59

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0189u	-1.0024u	-0.7717u
Al 308.215	-2.1880u	-1.9948u	-3.7344u
As 188.980	-3.4422u	-1.6171u	-3.5060u
B 249.678	254.281	246.380	232.783
Ba 389.178	52.9763	49.9035	48.4875
Be 313.042	-0.5546u	-0.5482u	-0.5546u
Ca 370.602	15922	15383	14619
Cd 226.502	-0.3353u	-0.4619u	-0.5635u
Co 228.615	-0.1004u	-0.2495u	-0.1616u
Cr 267.716	-0.9899u	-1.4703u	-1.2620u
Cu 324.754	-0.6654u	-0.7237u	-0.8158u
Fe 271.441	1199.98	1161.16	1098.54
K 766.491	8102.94	7813.48	7409.56
Mg 279.078	26847.8	25933.5	24578.9
Mn 257.610	44.2668	42.6198	40.3662
Mo 202.032	-1.2630u	-0.7805u	-1.0028u
Na 330.237	192462x	186584x	175810x
Ni 231.604	-0.6400u	-1.3286u	0.1518
Pb 220.353	3.0323	-0.1429u	3.5637
Sb 206.834	0.2394	-2.2926u	-0.3659u
Se 196.026	-3.6846u	-0.5450u	-8.4370u
Sn 189.925	-5.4326u	-8.3773u	-4.5010u
Sr 216.596	173.259	166.921	158.404
Ti 334.941	-0.9045u	-0.8598u	-0.9067u
Tl 190.794	-4.7895u	-0.4397u	-1.8808u
V 292.401	-1.0674u	-1.0891u	-1.3062u
Zn 206.200	-1.8495u	-1.9314u	-0.8055u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9310b	ppb	0.1382	14.8	-52.6804
Al 308.215	-2.6391b	ppb	0.9535	36.1	-30.0262
As 188.980	-2.8551b	ppb	1.0726	37.6	-11.2204
B 249.678	244.481b	ppb	10.8740	4.4	3019.75
Ba 389.178	50.4558b	ppb	2.2948	4.5	1167.41
Be 313.042	-0.5525b	ppb	0.0037	0.7	-364.150
Ca 370.602	15308b	ppb	654.6	4.3	41871
Cd 226.502	-0.4536b	ppb	0.1143	25.2	29.8939
Co 228.615	-0.1705b	ppb	0.0750	44.0	-3.5512
Cr 267.716	-1.2407b	ppb	0.2409	19.4	-26.6435
Cu 324.754	-0.7350b	ppb	0.0758	10.3	172.971
Fe 271.441	1153.23b	ppb	51.1873	4.4	1998.55
K 766.491	7775.33b	ppb	348.261	4.5	247310
Mg 279.078	25786.8b	ppb	1141.55	4.4	51476.6
Mn 257.610	42.4176b	ppb	1.9581	4.6	10403.6
Mo 202.032	-1.0154b	ppb	0.2415	23.8	14.2229
Na 330.237	184952xb	ppb	8444.97	4.6	8121.00
Ni 231.604	-0.6056b	ppb	0.7408	122.3	-6.0900
Pb 220.353	2.1510b	ppb	2.0043	93.2	31.5976
Sb 206.834	-0.8064b	ppb	1.3222	164.0	-3.7421
Se 196.026	-4.2222b	ppb	3.9734	94.1	8.4437
Sn 189.925	-6.1036b	ppb	2.0234	33.2	-9.4904
Sr 216.596	166.195b	ppb	7.4542	4.5	1644.40
Ti 334.941	-0.8903b	ppb	0.0265	3.0	-44.2479
Tl 190.794	-2.3700b	ppb	2.2158	93.5	-14.7946
V 292.401	-1.1542b	ppb	0.1321	11.4	-15.0199
Zn 206.200	-1.5288b	ppb	0.6277	41.1	-2.0277

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X (Samp) 4/17/2013, 6:05:59 PM Rack 1, Tube 60

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4213u	-1.0136u	-0.4263u
Al 308.215	-10.0181u	-13.3701u	-10.8344u
As 188.980	3.7224	6.3531	6.1653
B 249.678	-6.9577u	-7.0572u	-7.3038u
Ba 389.178	-3.2478u	-2.4678u	-2.8406u
Be 313.042	-0.4403u	-0.4374u	-0.4329u
Ca 370.602	-5.753u	-8.028u	-5.814u
Cd 226.502	-0.8733u	-0.8720u	-0.7952u
Co 228.615	-0.2290u	-0.4841u	-0.0984u
Cr 267.716	-0.6321u	-0.6910u	-0.7272u
Cu 324.754	-3.2784u	-3.6145u	-3.4974u
Fe 271.441	-38.8551u	-37.2730u	-37.5013u
K 766.491	-10.4082u	-11.3581u	-10.5298u
Mg 279.078	-9.7785u	-12.4372u	-9.7780u
Mn 257.610	-1.7863u	-1.7794u	-1.7964u
Mo 202.032	-2.0801u	-1.7492u	-2.2480u
Na 330.237	-514.572u	-564.183u	-534.261u
Ni 231.604	0.2679	0.2751	-0.1459u
Pb 220.353	-5.5805u	-4.9617u	-5.9382u
Sb 206.834	0.9680	-1.2139u	0.4016
Se 196.026	-11.8546u	-6.8732u	-12.1135u
Sn 189.925	0.1055	0.6112	1.7083
Sr 216.596	-3.6354u	-3.7427u	-3.8154u
Ti 334.941	-0.7154u	-0.7246u	-0.7165u
Tl 190.794	2.3217	4.4292	4.7337
V 292.401	-0.9269u	-0.9379u	-0.8030u
Zn 206.200	-2.8589u	-2.5973u	-2.7474u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6204	ppb	0.3405	54.9	-21.4060
Al 308.215	-11.4075	ppb	1.7480	15.3	-49.3764
As 188.980	5.4136	ppb	1.4676	27.1	-6.3035
B 249.678	-7.1062	ppb	0.1782	2.5	110.639
Ba 389.178	-2.8521	ppb	0.3901	13.7	-40.0250
Be 313.042	-0.4369	ppb	0.0037	0.8	-148.205
Ca 370.602	-6.531	ppb	1.297	19.9	1.833
Cd 226.502	-0.8468	ppb	0.0448	5.3	14.5074
Co 228.615	-0.2705	ppb	0.1962	72.5	-4.4969
Cr 267.716	-0.6834	ppb	0.0480	7.0	-11.7414
Cu 324.754	-3.4634	ppb	0.1706	4.9	30.7357
Fe 271.441	-37.8765	ppb	0.8552	2.3	52.3218
K 766.491	-10.7654	ppb	0.5169	4.8	127.941
Mg 279.078	-10.6646	ppb	1.5351	14.4	13.3787
Mn 257.610	-1.7874	ppb	0.0085	0.5	13.5405
Mo 202.032	-2.0258	ppb	0.2538	12.5	7.1098
Na 330.237	-537.672	ppb	24.9806	4.6	32.0346
Ni 231.604	0.1323	ppb	0.2410	182.1	-4.2189
Pb 220.353	-5.4935	ppb	0.4941	9.0	18.5619
Sb 206.834	0.0519	ppb	1.1322	2181.0	-2.9010
Se 196.026	-10.2804	ppb	2.9536	28.7	5.6306
Sn 189.925	0.8083	ppb	0.8194	101.4	-4.5237
Sr 216.596	-3.7312	ppb	0.0905	2.4	12.9812
Ti 334.941	-0.7188	ppb	0.0051	0.7	-94.1610
Tl 190.794	3.8282	ppb	1.3135	34.3	-8.7159
V 292.401	-0.8892	ppb	0.0749	8.4	-6.8262
Zn 206.200	-2.7345	ppb	0.1313	4.8	-0.4770

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Cont Calib Verif (CCV) 4/17/2013, 6:11:34 PM Rack 2, Tube 1
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	492.688	485.765	484.982
Al 308.215	4806.09	4798.59	4867.28
As 188.980	473.859	484.598	478.629
B 249.678	505.716	508.239	512.286
Ba 389.178	5099.74	5070.38	5091.13
Be 313.042	516.156	513.497	514.967
Ca 370.602	4939	4919	4949
Cd 226.502	519.664	516.788	519.050
Co 228.615	525.088	520.310	521.726
Cr 267.716	5124.20	5093.26	5157.89
Cu 324.754	5190.39	5192.87	5160.79
Fe 271.441	4982.68	4941.03	4964.73
K 766.491	9888.70	9828.33	9868.33
Mg 279.078	4991.57	4968.46	4993.64
Mn 257.610	5241.20	5211.80	5225.13
Mo 202.032	490.515	489.293	492.737
Na 330.237	7153.73	7276.83	7274.61
Ni 231.604	2625.53	2606.98	2621.51
Pb 220.353	498.760	494.847	503.187
Sb 206.834	929.663	925.581	938.274
Se 196.026	5014.67	4997.66	4994.54
Sn 189.925	4990.13	4964.02	4983.47
Sr 216.596	2511.03	2501.27	2521.36
Ti 334.941	491.433	488.645	491.042
Tl 190.794	5065.59	5035.85	5043.93
V 292.401	4986.61	4948.57	4966.76
Zn 206.200	2611.93	2591.08	2611.46

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	487.812	ppb	4.2414	0.9	36713.1	97.56235
Al 308.215	4823.98	ppb	37.6796	0.8	10586.4	96.47967
As 188.980	479.029	ppb	5.3805	1.1	281.862	95.80577
B 249.678	508.747	ppb	3.3144	0.7	6072.41	20.34990Q
Ba 389.178	5087.09	ppb	15.0921	0.3	109181	101.74173
Be 313.042	514.873	ppb	1.3324	0.3	895739	102.97466
Ca 370.602	4936	ppb	15.03	0.3	13430	98.71254
Cd 226.502	518.501	ppb	1.5147	0.3	17634.7	103.70017
Co 228.615	522.375	ppb	2.4542	0.5	5208.62	104.47493
Cr 267.716	5125.12	ppb	32.3254	0.6	158055	102.50233
Cu 324.754	5181.35	ppb	17.8491	0.3	269530	103.62705
Fe 271.441	4962.81	ppb	20.8902	0.4	8345.46	99.25628
K 766.491	9861.79	ppb	30.7096	0.3	313548	98.61788
Mg 279.078	4984.55	ppb	13.9773	0.3	9898.58	99.69109
Mn 257.610	5226.04	ppb	14.7188	0.3	1210762	104.52082
Mo 202.032	490.848	ppb	1.7461	0.4	3496.02	98.16969
Na 330.237	7235.06	ppb	70.4375	1.0	350.046	96.46744
Ni 231.604	2618.01	ppb	9.7605	0.4	6719.70	104.72021
Pb 220.353	498.931	ppb	4.1723	0.8	878.192	99.78628
Sb 206.834	931.173	ppb	6.4800	0.7	962.294	93.11726
Se 196.026	5002.29	ppb	10.8347	0.2	2326.71	100.04577
Sn 189.925	4979.21	ppb	13.5670	0.3	3615.60	99.58411
Sr 216.596	2511.22	ppb	10.0465	0.4	24078.5	100.44879
Ti 334.941	490.373	ppb	1.5097	0.3	125190	98.07463
Tl 190.794	5048.46	ppb	15.3799	0.3	4833.84	100.96915
V 292.401	4967.31	ppb	19.0248	0.4	131007	99.34628
Zn 206.200	2604.82	ppb	11.9902	0.5	3340.87	104.19286

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

Cont Calib Blank (CCB) 4/17/2013, 6:17:09 PM Rack 2, Tube 2
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7616u	-0.9053u	-0.5502u
Al 308.215	0.1617	-7.6926u	1.7082
As 188.980	-4.8732u	-0.1385u	0.0506
B 249.678	4.0562	3.9568	2.7465
Ba 389.178	-1.3297u	-1.2663u	-0.3492u
Be 313.042	-0.5104u	-0.4821u	-0.4532u
Ca 370.602	0.5784	-3.635u	3.266
Cd 226.502	-0.5402u	-0.5360u	-0.5573u
Co 228.615	-0.2806u	-0.9019u	-0.4445u
Cr 267.716	-0.6088u	-0.2921u	-0.3515u
Cu 324.754	-0.9190u	-0.1436u	0.2075
Fe 271.441	-12.2995u	-16.1209u	-12.7926u
K 766.491	-3.5038u	-3.3873u	-2.4819u
Mg 279.078	3.7513	2.5458	8.3252
Mn 257.610	-1.2436u	-1.0181u	-0.6321u
Mo 202.032	-0.5580u	-0.3568u	-0.7331u
Na 330.237	-117.785u	-83.0205u	-2.8308u
Ni 231.604	0.8127	-0.6707u	0.6688
Pb 220.353	2.5838	4.8097	1.0330
Sb 206.834	-1.2681u	1.1909	-2.5392u
Se 196.026	1.6651	-4.7750u	-4.8846u
Sn 189.925	-6.5470u	-1.5417u	-0.6876u
Sr 216.596	-1.9031u	-2.4852u	-2.5717u
Ti 334.941	-0.4200u	-0.4527u	-0.4376u
Tl 190.794	1.6537	2.5831	1.0140
V 292.401	-0.8327u	-0.3159u	-0.2343u
Zn 206.200	-3.8638u	-2.4188u	-1.1806u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.7390	ppb	0.1786	24.2	-30.3738	-0.73902
Al 308.215	-1.9409	ppb	5.0408	259.7	-28.4732	-1.94090
As 188.980	-1.6537	ppb	2.7897	168.7	-10.6060	-1.65369
B 249.678	3.5865	ppb	0.7292	20.3	234.311	3.58653
Ba 389.178	-0.9817	ppb	0.5487	55.9	0.1728	-0.98174
Be 313.042	-0.4819	ppb	0.0286	5.9	-226.717	-0.48189
Ca 370.602	0.0696	ppb	3.479	4997.4	18.33	0.06961
Cd 226.502	-0.5445	ppb	0.0113	2.1	24.8090	-0.54450
Co 228.615	-0.5423	ppb	0.3220	59.4	-7.2320	-0.54234
Cr 267.716	-0.4175	ppb	0.1683	40.3	-3.5330	-0.41750
Cu 324.754	-0.2850	ppb	0.5764	202.2	196.007	-0.28500
Fe 271.441	-13.7377	ppb	2.0786	15.1	91.7540	-13.73767
K 766.491	-3.1243	ppb	0.5594	17.9	370.518	-3.12433
Mg 279.078	4.8741	ppb	3.0489	62.6	44.3545	4.87411
Mn 257.610	-0.9646	ppb	0.3092	32.1	204.236	-0.96460
Mo 202.032	-0.5493	ppb	0.1883	34.3	17.5874	-0.54932
Na 330.237	-67.8788	ppb	58.9542	86.9	52.5130	-67.87884
Ni 231.604	0.2703	ppb	0.8181	302.7	-3.8642	0.27025
Pb 220.353	2.8088	ppb	1.8984	67.6	32.7085	2.80884
Sb 206.834	-0.8722	ppb	1.8963	217.4	-3.8314	-0.87217
Se 196.026	-2.6648	ppb	3.7502	140.7	9.1554	-2.66482
Sn 189.925	-2.9255	ppb	3.1653	108.2	-7.2387	-2.92547
Sr 216.596	-2.3200	ppb	0.3636	15.7	26.4743	-2.32003
Ti 334.941	-0.4367	ppb	0.0164	3.8	-22.1718	-0.43674
Tl 190.794	1.7503	ppb	0.7890	45.1	-10.7154	1.75026
V 292.401	-0.4610	ppb	0.3245	70.4	4.2219	-0.46098
Zn 206.200	-2.4878	ppb	1.3429	54.0	0.7929	-2.48776

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640-43094-i-6-a (Samp) 4/17/2013, 6:22:44 PM Rack 2, Tube 3
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.1613u	-0.9686u	-0.7560u
Al 308.215	10.1371	0.8380	16.2430
As 188.980	-3.2179u	-5.7152u	-3.3119u
B 249.678	1749.16	1761.22	1772.07
Ba 389.178	495.876	495.540	494.779
Be 313.042	-0.4970u	-0.4920u	-0.5026u
Ca 370.602	149839	149589	149372
Cd 226.502	-0.0914	-0.2356	-0.0775
Co 228.615	-0.2194u	0.3820	-1.2140u
Cr 267.716	-1.5217u	-1.7147u	-2.1323u
Cu 324.754	-0.4835u	-0.4400u	-0.6542u
Fe 271.441	8594.18	8583.39	8593.20
K 766.491	95783.1x	95832.7x	95656.1x
Mg 279.078	192400	192260	192504
Mn 257.610	310.050	309.653	310.369
Mo 202.032	-0.1880u	-1.0620u	-0.8179u
Na 330.237	1683081x	1702882x	1702496x
Ni 231.604	-2.6518u	0.5334	-1.4703u
Pb 220.353	4.6451	3.0187	3.1906
Sb 206.834	-9.3148u	-4.5750u	0.9986
Se 196.026	-9.8741u	6.6057	3.7986
Sn 189.925	-6.9064u	-8.6318u	-8.7632u
Sr 216.596	1352.84	1344.06	1347.39
Ti 334.941	-2.6547	-2.6698u	-2.7240u
Tl 190.794	-5.7244u	-6.6174u	-4.7743u
V 292.401	-0.0167u	0.1782u	0.3650u
Zn 206.200	1.8597	0.9963	-1.3830u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9620b	ppb	0.2028	21.1	-110.592
Al 308.215	9.0727b	ppb	7.7575	85.5	-4.2233
As 188.980	-4.0817b	ppb	1.4154	34.7	-10.9121
B 249.678	1760.82b	ppb	11.4613	0.7	20552.9
Ba 389.178	495.398b	ppb	0.5621	0.1	11124.9
Be 313.042	-0.4972b	ppb	0.0053	1.1	-385.419
Ca 370.602	149600b	ppb	233.6	0.2	409232
Cd 226.502	-0.1348b	ppb	0.0875	64.9	51.9215
Co 228.615	-0.3505b	ppb	0.8060	230.0	-5.5142
Cr 267.716	-1.7896b	ppb	0.3121	17.4	-25.5763
Cu 324.754	-0.5259b	ppb	0.1132	21.5	186.140
Fe 271.441	8590.26b	ppb	5.9667	0.1	14150.2
K 766.491	95757.3xb	ppb	91.0557	0.1	3040435
Mg 279.078	192388b	ppb	122.554	0.1	383829
Mn 257.610	310.024b	ppb	0.3586	0.1	73363.2
Mo 202.032	-0.6893b	ppb	0.4510	65.4	16.1702
Na 330.237	1696153xb	ppb	11322.4	0.7	74023.1
Ni 231.604	-1.1962b	ppb	1.6102	134.6	-7.4557
Pb 220.353	3.6181b	ppb	0.8935	24.7	34.1567
Sb 206.834	-4.2971b	ppb	5.1623	120.1	-7.0202
Se 196.026	0.1767b	ppb	8.8167	4988.9	10.5357
Sn 189.925	-8.1005b	ppb	1.0361	12.8	-10.4550
Sr 216.596	1348.09b	ppb	4.4340	0.3	12994.0
Ti 334.941	-2.6828b	ppb	0.0365	1.4	83.5233
Tl 190.794	-5.7054b	ppb	0.9217	16.2	-18.7502
V 292.401	0.1755b	ppb	0.1909	108.8	11.2358
Zn 206.200	0.4910b	ppb	1.6794	342.0	4.6252

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

640-43094-i-6-a^10 (Samp) 4/17/2013, 6:28:19 PM Rack 2, Tube 4

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.1470u	-0.7448u	-1.0000u
Al 308.215	-1.4456u	-0.3590u	6.1493
As 188.980	-10.2736u	1.2979	-1.4276u
B 249.678	211.019	206.066	199.160
Ba 389.178	55.0518	52.7506	51.9002
Be 313.042	-0.5412u	-0.5264u	-0.5234u
Ca 370.602	17008	16564	15988
Cd 226.502	-0.3288u	-0.3574u	-0.4512u
Co 228.615	-1.8087u	0.0596	-0.7340u
Cr 267.716	-0.9302u	-1.3556u	-1.0595u
Cu 324.754	-0.7745u	-0.9867u	-0.7461u
Fe 271.441	1005.95	980.779	954.755
K 766.491	7061.12	6908.19	6684.89
Mg 279.078	21479.5	20947.2	20250.3
Mn 257.610	34.6808	33.8913	32.7835
Mo 202.032	-0.6901u	-1.2582u	-0.9503u
Na 330.237	157252x	153925x	149321x
Ni 231.604	0.8809	1.3622	-0.9935u
Pb 220.353	3.0798	3.0575	4.1282
Sb 206.834	-0.3873u	-1.5592u	-8.3030u
Se 196.026	2.8610	6.9012	-6.6703u
Sn 189.925	-0.0651	-7.1916u	-9.4917u
Sr 216.596	156.973	152.018	146.242
Ti 334.941	-0.7630u	-0.7558u	-0.7764u
Tl 190.794	-1.4606u	-5.8741u	-1.9750u
V 292.401	-0.7090u	-0.5872u	-0.7211u
Zn 206.200	-2.6439u	-1.6246u	-1.6553u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9639b	ppb	0.2035	21.1	-54.4674
Al 308.215	1.4482b	ppb	4.1073	283.6	-21.0329
As 188.980	-3.4678b	ppb	6.0495	174.4	-11.5813
B 249.678	205.415b	ppb	5.9565	2.9	2568.01
Ba 389.178	53.2342b	ppb	1.6305	3.1	1214.99
Be 313.042	-0.5303b	ppb	0.0095	1.8	-321.869
Ca 370.602	16520b	ppb	511.5	3.1	45203
Cd 226.502	-0.3791b	ppb	0.0641	16.9	32.1321
Co 228.615	-0.8277b	ppb	0.9376	113.3	-10.0901
Cr 267.716	-1.1151b	ppb	0.2181	19.6	-23.1637
Cu 324.754	-0.8357b	ppb	0.1315	15.7	167.673
Fe 271.441	980.495b	ppb	25.5977	2.6	1716.30
K 766.491	6884.73b	ppb	189.207	2.7	219036
Mg 279.078	20892.3b	ppb	616.452	3.0	41712.8
Mn 257.610	33.7852b	ppb	0.9531	2.8	8375.68
Mo 202.032	-0.9662b	ppb	0.2844	29.4	14.5800
Na 330.237	153500xb	ppb	3982.38	2.6	6749.39
Ni 231.604	0.4165b	ppb	1.2446	298.8	-3.4682
Pb 220.353	3.4218b	ppb	0.6118	17.9	33.7615
Sb 206.834	-3.4165b	ppb	4.2722	125.0	-6.3135
Se 196.026	1.0306b	ppb	6.9685	676.1	10.8729
Sn 189.925	-5.5828b	ppb	4.9149	88.0	-9.1205
Sr 216.596	151.744b	ppb	5.3709	3.5	1505.85
Ti 334.941	-0.7650b	ppb	0.0104	1.4	-30.2258
Tl 190.794	-3.1032b	ppb	2.4134	77.8	-15.4782
V 292.401	-0.6724b	ppb	0.0741	11.0	-2.1069
Zn 206.200	-1.9746b	ppb	0.5798	29.4	-1.4541

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

640-43125-a-1-a^10 (Samp) **4/17/2013, 6:33:53 PM** **Rack 2, Tube 5**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.2763u	-0.9384u	-0.7436u
Al 308.215	-0.6022u	9.9998	3.6690
As 188.980	-2.5884u	-6.9831u	-3.8147u
B 249.678	1132.59	1138.90	1143.83
Ba 389.178	-0.1104	-0.2213	0.8033
Be 313.042	-0.5641u	-0.5612u	-0.5467u
Ca 370.602	53300	53329	53396
Cd 226.502	0.2449	0.0758	0.3322
Co 228.615	1.5654	1.3800	0.7546
Cr 267.716	-1.2200u	-0.8866u	-0.8867u
Cu 324.754	25.5577	26.0061	25.3553
Fe 271.441	1.6016	-3.7565u	-1.5291u
K 766.491	230421x	230593x	230557x
Mg 279.078	25547.4	25574.7	25563.1
Mn 257.610	545.305	545.427	545.175
Mo 202.032	3.9117	3.7794	4.4505
Na 330.237	12997.1	12725.9	12786.9
Ni 231.604	18.5302	21.5922	20.0654
Pb 220.353	2.7961	4.3058	3.2984
Sb 206.834	-1.3511u	5.0927	-4.5438u
Se 196.026	-3.0753u	-0.5246u	-1.8864u
Sn 189.925	-6.9476u	-4.2753u	-5.1767u
Sr 216.596	275.277	275.775	276.382
Ti 334.941	-0.8025u	-0.7959u	-0.8020u
Tl 190.794	3.2075	-5.3096u	-2.5659u
V 292.401	4.7507	4.4116	4.9652
Zn 206.200	5717.51	5712.93	5693.68

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9861b	ppb	0.2695	27.3	-59.5393
Al 308.215	4.3555b	ppb	5.3342	122.5	-14.4180
As 188.980	-4.4621b	ppb	2.2678	50.8	-11.8691
B 249.678	1138.44b	ppb	5.6302	0.5	13363.2
Ba 389.178	0.1572b	ppb	0.5623	357.6	86.3604
Be 313.042	-0.5573b	ppb	0.0093	1.7	-354.076
Ca 370.602	53342b	ppb	48.85	0.1	146153
Cd 226.502	0.2176b	ppb	0.1303	59.9	50.9035
Co 228.615	1.2334b	ppb	0.4248	34.4	10.4596
Cr 267.716	-0.9978b	ppb	0.1925	19.3	-19.8651
Cu 324.754	25.6397b	ppb	0.3331	1.3	1543.79
Fe 271.441	-1.2280b	ppb	2.6917	219.2	112.526
K 766.491	230523xb	ppb	90.9073	0.0	7318799
Mg 279.078	25561.7b	ppb	13.6603	0.1	51019.9
Mn 257.610	545.302b	ppb	0.1259	0.0	126863
Mo 202.032	4.0472b	ppb	0.3555	8.8	50.2023
Na 330.237	12836.6b	ppb	142.258	1.1	579.185
Ni 231.604	20.0626b	ppb	1.5310	7.6	46.9766
Pb 220.353	3.4668b	ppb	0.7688	22.2	33.9440
Sb 206.834	-0.2674b	ppb	4.9088	1835.7	-3.3041
Se 196.026	-1.8288b	ppb	1.2764	69.8	9.6689
Sn 189.925	-5.4665b	ppb	1.3595	24.9	-9.0628
Sr 216.596	275.811b	ppb	0.5533	0.2	2698.23
Ti 334.941	-0.8001b	ppb	0.0037	0.5	-10.9248
Tl 190.794	-1.5560b	ppb	4.3474	279.4	-14.6625
V 292.401	4.7092b	ppb	0.2791	5.9	140.354
Zn 206.200	5708.04b	ppb	12.6441	0.2	7344.93

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

640-43125-a-6-a^10 (Samp) 4/17/2013, 6:39:28 PM Rack 2, Tube 6
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8167u	-0.4968u	-1.0450u
Al 308.215	5.5868	5.7334	4.0166
As 188.980	-1.8590u	0.8855	0.0985
B 249.678	1275.57	1272.52	1269.21
Ba 389.178	-0.1686	0.4515	1.1113
Be 313.042	-0.5611u	-0.5642u	-0.5583u
Ca 370.602	59363	59060	58411
Cd 226.502	0.2192	0.1731	0.1576
Co 228.615	1.0751	0.4216	0.8257
Cr 267.716	-0.6869u	-1.1653u	-0.8119u
Cu 324.754	28.1845	28.1958	27.5152
Fe 271.441	-10.7280u	-8.0221u	-3.5981u
K 766.491	252419x	251511x	249397x
Mg 279.078	28823.9	28629.5	28375.3
Mn 257.610	615.617	611.948	606.364
Mo 202.032	3.8450	4.1519	4.2102
Na 330.237	14037.9	14075.4	13718.6
Ni 231.604	22.3971	23.4547	21.3895
Pb 220.353	2.2900	3.6895	0.3234
Sb 206.834	2.2025	4.0393	-3.5220u
Se 196.026	-8.7336u	-5.8542u	-5.0909u
Sn 189.925	-2.6577u	-9.8773u	-5.0110u
Sr 216.596	305.162	303.316	300.978
Ti 334.941	-0.8473u	-0.7976u	-0.8576u
Tl 190.794	-3.0881u	-3.0488u	0.7647u
V 292.401	5.3165	5.7590	5.4755
Zn 206.200	6415.53	6352.85	6302.69

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7862b	ppb	0.2753	35.0	-45.4196
Al 308.215	5.1123b	ppb	0.9517	18.6	-12.7476
As 188.980	-0.2917b	ppb	1.4133	484.5	-9.2834
B 249.678	1272.43b	ppb	3.1839	0.3	14913.4
Ba 389.178	0.4647b	ppb	0.6400	137.7	100.311
Be 313.042	-0.5612b	ppb	0.0029	0.5	-360.115
Ca 370.602	58945b	ppb	486.3	0.8	161505
Cd 226.502	0.1833b	ppb	0.0320	17.5	49.7553
Co 228.615	0.7741b	ppb	0.3298	42.6	5.8931
Cr 267.716	-0.8880b	ppb	0.2481	27.9	-16.2976
Cu 324.754	27.9652b	ppb	0.3897	1.4	1664.68
Fe 271.441	-7.4494b	ppb	3.5993	48.3	102.385
K 766.491	251109xb	ppb	1550.45	0.6	7972328
Mg 279.078	28609.6b	ppb	224.954	0.8	57099.0
Mn 257.610	611.310b	ppb	4.6599	0.8	142167
Mo 202.032	4.0691b	ppb	0.1962	4.8	50.3562
Na 330.237	13944.0b	ppb	196.102	1.4	623.379
Ni 231.604	22.4138b	ppb	1.0327	4.6	53.0158
Pb 220.353	2.1010b	ppb	1.6910	80.5	31.6308
Sb 206.834	0.9066b	ppb	3.9437	435.0	-2.1494
Se 196.026	-6.5596b	ppb	1.9211	29.3	7.4948
Sn 189.925	-5.8486b	ppb	3.6820	63.0	-9.3383
Sr 216.596	303.152b	ppb	2.0964	0.7	2960.90
Ti 334.941	-0.8341b	ppb	0.0321	3.8	-7.1756
Tl 190.794	-1.7907b	ppb	2.2132	123.6	-14.9805
V 292.401	5.5170b	ppb	0.2242	4.1	161.703
Zn 206.200	6357.03b	ppb	56.5351	0.9	8179.57

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

640-43026-B-2-A^5 (Samp) **4/17/2013, 6:45:03 PM** **Rack 2, Tube 7**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3984	-0.6308u	-0.3128u
Al 308.215	10468.3	10355.4	10219.8
As 188.980	16.6394	19.1567	14.3967
B 249.678	112.633	109.169	109.709
Ba 389.178	369.738	364.917	362.052
Be 313.042	-0.2777u	-0.2863u	-0.2808u
Ca 370.602	33782	33449	33265
Cd 226.502	5.8633	5.4921	5.1924
Co 228.615	18.8908	19.0049	19.0186
Cr 267.716	1072.89	1060.59	1047.80
Cu 324.754	4209.15	4248.57	4237.32
Fe 271.441	400676	395454	392111
K 766.491	44191.1x	43706.6x	43261.0x
Mg 279.078	4165.42	4110.03	4057.27
Mn 257.610	2732.19	2701.11	2674.08
Mo 202.032	49.0441	48.6166	49.3388
Na 330.237	11764.1	11464.9	11137.0
Ni 231.604	484.539	476.740	469.401
Pb 220.353	307.602	303.102	302.583
Sb 206.834	18.2225	16.4540	3.1796
Se 196.026	-1.9157u	1.3585	8.8424
Sn 189.925	146.575	150.022	144.260
Sr 216.596	77.3631	77.2920	76.9785
Ti 334.941	1149.92	1140.13	1127.35
Tl 190.794	-2.8792u	3.6507u	-2.0271u
V 292.401	28.8947	29.0180	28.7078
Zn 206.200	2572.79	2537.47	2514.56

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1817b	ppb	0.5270	290.0	19.0073
Al 308.215	10347.8b	ppb	124.427	1.2	22757.7
As 188.980	16.7309b	ppb	2.3813	14.2	-3.1532
B 249.678	110.504b	ppb	1.8637	1.7	1013.79
Ba 389.178	365.569b	ppb	3.8844	1.1	8394.44
Be 313.042	-0.2816b	ppb	0.0044	1.5	114.136
Ca 370.602	33499b	ppb	262.2	0.8	64262
Cd 226.502	5.5159b	ppb	0.3361	6.1	1106.47
Co 228.615	18.9714b	ppb	0.0702	0.4	202.508
Cr 267.716	1060.43b	ppb	12.5462	1.2	32783.0
Cu 324.754	4231.68b	ppb	20.3070	0.5	220320
Fe 271.441	396080b	ppb	4316.69	1.1	647286
K 766.491	43719.6xb	ppb	465.216	1.1	1388415
Mg 279.078	4110.91b	ppb	54.0832	1.3	8259.68
Mn 257.610	2702.46b	ppb	29.0759	1.1	627398
Mo 202.032	48.9998b	ppb	0.3631	0.7	349.771
Na 330.237	11455.4b	ppb	313.639	2.7	430.702
Ni 231.604	476.894b	ppb	7.5701	1.6	1228.36
Pb 220.353	304.429b	ppb	2.7601	0.9	546.555
Sb 206.834	12.6187b	ppb	8.2222	65.2	28.0372
Se 196.026	2.7617b	ppb	5.5146	199.7	11.9314
Sn 189.925	146.953b	ppb	2.8995	2.0	101.754
Sr 216.596	77.2112b	ppb	0.2047	0.3	927.790
Ti 334.941	1139.14b	ppb	11.3162	1.0	290708
Tl 190.794	-0.4185b	ppb	3.5497	848.1	-36.1773
V 292.401	28.8735b	ppb	0.1562	0.5	725.120
Zn 206.200	2541.61b	ppb	29.3339	1.2	3269.98

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

mb 680-272923/1-a (Samp) **4/17/2013, 6:50:38 PM** **Rack 2, Tube 8**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.8789u	-0.8413u	-0.7300u
Al 308.215	-0.0555u	-5.3518u	-4.8985u
As 188.980	0.9914	2.2172	-3.8582u
B 249.678	8.3601	7.7055	6.0383
Ba 389.178	-1.9336u	-2.3338u	-2.3765u
Be 313.042	-0.5251u	-0.5216u	-0.5366u
Ca 370.602	-5.750u	-7.248u	-8.367u
Cd 226.502	-0.5128u	-0.4178u	-0.4976u
Co 228.615	-0.0333u	-0.7728u	0.0422
Cr 267.716	-1.0608u	-0.8559u	-0.8654u
Cu 324.754	-0.4658u	-0.0794u	-0.3410u
Fe 271.441	6.1030	-3.0147u	-10.7934u
K 766.491	-6.1558u	-5.6637u	-6.6220u
Mg 279.078	3.3346	-2.3548u	3.4627
Mn 257.610	-1.6707u	-1.6648u	-1.7073u
Mo 202.032	-1.0339u	-0.8693u	-0.8614u
Na 330.237	-124.368u	21.8613	-33.2824u
Ni 231.604	-0.8815u	0.0763	-1.2343u
Pb 220.353	2.9660	-0.1988u	-1.9756u
Sb 206.834	1.1994	-2.6026u	1.4983
Se 196.026	-5.6184u	-4.6238u	-9.0927u
Sn 189.925	-5.1137u	-5.7238u	-2.5885u
Sr 216.596	-2.9461u	-2.0428u	-2.6543u
Ti 334.941	-0.3095u	-0.3674u	-0.4023u
Tl 190.794	-0.6477u	0.9701	-8.1292u
V 292.401	-0.9101u	-0.9400u	-1.1858u
Zn 206.200	4.4921	4.1891	2.8223

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8168	ppb	0.0774	9.5	-36.2192
Al 308.215	-3.4352	ppb	2.9357	85.5	-31.7915
As 188.980	-0.2165	ppb	3.2128	1483.9	-9.7312
B 249.678	7.3680	ppb	1.1972	16.2	278.043
Ba 389.178	-2.2147	ppb	0.2443	11.0	-26.2737
Be 313.042	-0.5278	ppb	0.0079	1.5	-306.395
Ca 370.602	-7.122	ppb	1.313	18.4	-2.191
Cd 226.502	-0.4760	ppb	0.0510	10.7	27.1544
Co 228.615	-0.2547	ppb	0.4503	176.8	-4.3493
Cr 267.716	-0.9274	ppb	0.1157	12.5	-19.2540
Cu 324.754	-0.2954	ppb	0.1972	66.7	195.457
Fe 271.441	-2.5684	ppb	8.4571	329.3	110.035
K 766.491	-6.1472	ppb	0.4792	7.8	274.553
Mg 279.078	1.4808	ppb	3.3224	224.4	37.5979
Mn 257.610	-1.6809	ppb	0.0230	1.4	38.3569
Mo 202.032	-0.9215	ppb	0.0974	10.6	14.9459
Na 330.237	-45.2632	ppb	73.8474	163.2	53.4564
Ni 231.604	-0.6799	ppb	0.6782	99.8	-6.3042
Pb 220.353	0.2639	ppb	2.5031	948.5	28.3721
Sb 206.834	0.0317	ppb	2.2863	7206.1	-2.9385
Se 196.026	-6.4450	ppb	2.3463	36.4	7.4057
Sn 189.925	-4.4754	ppb	1.6623	37.1	-8.3656
Sr 216.596	-2.5477	ppb	0.4610	18.1	24.3314
Ti 334.941	-0.3597	ppb	0.0469	13.0	-2.5529
Tl 190.794	-2.6023	ppb	4.8543	186.5	-14.8975
V 292.401	-1.0120	ppb	0.1513	14.9	-10.2021
Zn 206.200	3.8345	ppb	0.8896	23.2	45.9250

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

ics 680-272923/2-a (Samp) 4/17/2013, 6:56:24 PM Rack 2, Tube 9
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	13.2126	13.2488	13.0635
Al 308.215	5093.17	5131.66	5118.79
As 188.980	102.738	112.357	101.798
B 249.678	193.957	194.634	195.929
Ba 389.178	101.116	102.139	102.240
Be 313.042	51.7281	51.8992	51.8106
Ca 370.602	4890	4911	4971
Cd 226.502	52.6153	52.7253	52.8356
Co 228.615	52.7251	53.1522	53.2043
Cr 267.716	103.767	104.927	105.985
Cu 324.754	103.237	104.387	103.979
Fe 271.441	4950.92	4979.66	5009.86
K 766.491	4880.33	4893.34	4945.76
Mg 279.078	4968.01	4974.98	5012.31
Mn 257.610	538.861	540.016	539.732
Mo 202.032	98.7623	99.9770	100.106
Na 330.237	4875.97	5058.05	5579.44
Ni 231.604	104.546	103.975	103.160
Pb 220.353	55.1993	52.4968	51.2167
Sb 206.834	50.4810	49.4851	47.7642
Se 196.026	94.6501	103.665	95.2252
Sn 189.925	191.522	197.798	198.585
Sr 216.596	100.328	99.7527	101.439
Ti 334.941	98.2637	98.7295	98.5322
Tl 190.794	40.0324	36.2758	38.5134
V 292.401	100.253	100.626	101.332
Zn 206.200	102.379	101.881	103.537

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	13.1749	ppb	0.0982	0.7	1016.18
Al 308.215	5114.54	ppb	19.5946	0.4	11239.4
As 188.980	105.631	ppb	5.8442	5.5	54.6661
B 249.678	194.840	ppb	1.0020	0.5	2441.05
Ba 389.178	101.832	ppb	0.6215	0.6	2225.00
Be 313.042	51.8126	ppb	0.0855	0.2	90696.8
Ca 370.602	4924	ppb	42.14	0.9	13186
Cd 226.502	52.7254	ppb	0.1101	0.2	1842.06
Co 228.615	53.0272	ppb	0.2629	0.5	525.623
Cr 267.716	104.893	ppb	1.1093	1.1	3245.87
Cu 324.754	103.868	ppb	0.5833	0.6	5613.78
Fe 271.441	4980.14	ppb	29.4767	0.6	8260.40
K 766.491	4906.48	ppb	34.6344	0.7	156234
Mg 279.078	4985.10	ppb	23.8246	0.5	9970.79
Mn 257.610	539.536	ppb	0.6016	0.1	125421
Mo 202.032	99.6149	ppb	0.7412	0.7	728.100
Na 330.237	5171.15	ppb	365.116	7.1	278.404
Ni 231.604	103.893	ppb	0.6966	0.7	262.387
Pb 220.353	52.9709	ppb	2.0332	3.8	118.071
Sb 206.834	49.2435	ppb	1.3744	2.8	45.7405
Se 196.026	97.8466	ppb	5.0467	5.2	55.7938
Sn 189.925	195.968	ppb	3.8707	2.0	137.393
Sr 216.596	100.507	ppb	0.8573	0.9	1010.08
Ti 334.941	98.5085	ppb	0.2338	0.2	25236.7
Tl 190.794	38.2738	ppb	1.8897	4.9	23.4078
V 292.401	100.737	ppb	0.5477	0.5	2657.25
Zn 206.200	102.599	ppb	0.8497	0.8	135.674

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

ics 680-272923/3-a (Samp) 4/17/2013, 7:02:01 PM Rack 2, Tube 10

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	197.515	198.684	196.555
Al 308.215	2019.97	2048.39	2037.55
As 188.980	207.318	211.275	210.078
B 249.678	384.728	385.608	387.790
Ba 389.178	195.597	197.365	195.989
Be 313.042	205.100	205.548	205.342
Ca 370.602	19570	19672	19647
Cd 226.502	206.081	205.979	205.903
Co 228.615	207.538	206.563	206.502
Cr 267.716	204.076	206.028	206.654
Cu 324.754	208.255	206.381	207.867
Fe 271.441	20374.5	20403.9	20419.7
K 766.491	19660.1	19652.4	19695.6
Mg 279.078	19793.7	19821.8	19811.6
Mn 257.610	2132.11	2130.91	2130.02
Mo 202.032	195.455	197.910	197.071
Na 330.237	17670.4	17903.5	17721.2
Ni 231.604	202.527	204.415	204.681
Pb 220.353	198.705	198.205	201.681
Sb 206.834	186.250	185.040	190.859
Se 196.026	188.013	192.474	191.528
Sn 189.925	190.686	190.448	189.426
Sr 216.596	208.344	211.095	209.785
Ti 334.941	194.512	195.649	195.508
Tl 190.794	45.0990	42.3352	40.7874
V 292.401	200.395	200.196	200.267
Zn 206.200	193.912	192.679	192.288

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	197.584	ppb	1.0662	0.5	14910.7
Al 308.215	2035.30	ppb	14.3413	0.7	4464.95
As 188.980	209.557	ppb	2.0294	1.0	117.872
B 249.678	386.042	ppb	1.5768	0.4	4635.15
Ba 389.178	196.317	ppb	0.9283	0.5	4308.64
Be 313.042	205.330	ppb	0.2240	0.1	357648
Ca 370.602	19630	ppb	52.79	0.3	52442
Cd 226.502	205.988	ppb	0.0895	0.0	7072.80
Co 228.615	206.868	ppb	0.5818	0.3	2056.89
Cr 267.716	205.586	ppb	1.3450	0.7	6356.80
Cu 324.754	207.501	ppb	0.9890	0.5	11007.7
Fe 271.441	20399.4	ppb	22.9072	0.1	33478.1
K 766.491	19669.4	ppb	23.0264	0.1	624904
Mg 279.078	19809.0	ppb	14.2234	0.1	39522.6
Mn 257.610	2131.02	ppb	1.0478	0.0	494118
Mo 202.032	196.812	ppb	1.2478	0.6	1417.04
Na 330.237	17765.0	ppb	122.582	0.7	822.491
Ni 231.604	203.875	ppb	1.1742	0.6	519.494
Pb 220.353	199.530	ppb	1.8791	0.9	367.968
Sb 206.834	187.383	ppb	3.0709	1.6	182.931
Se 196.026	190.672	ppb	2.3507	1.2	99.1089
Sn 189.925	190.187	ppb	0.6698	0.4	133.198
Sr 216.596	209.741	ppb	1.3762	0.7	2059.98
Ti 334.941	195.223	ppb	0.6199	0.3	49967.2
Tl 190.794	42.7405	ppb	2.1842	5.1	24.7789
V 292.401	200.286	ppb	0.1006	0.1	5267.59
Zn 206.200	192.960	ppb	0.8475	0.4	251.630

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680-89208-a-1-c (Samp) 4/17/2013, 7:07:37 PM Rack 2, Tube 11
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7074u	-0.9138u	-0.4083u
Al 308.215	0.7339	1.5881	1.9030
As 188.980	0.9894	3.0351	-1.4381u
B 249.678	8.2094	7.7654	7.2220
Ba 389.178	20.8230	22.8960	22.6197
Be 313.042	-0.5219u	-0.4899u	-0.4346u
Ca 370.602	19634	19778	19730
Cd 226.502	-0.4797u	-0.5027u	-0.3995u
Co 228.615	-0.7666u	-0.4365u	-0.7255u
Cr 267.716	-0.9543u	-0.7297u	-0.7056u
Cu 324.754	-0.4540u	-1.1397u	0.1410
Fe 271.441	1773.23	1771.93	1773.88
K 766.491	995.524	998.042	1009.93
Mg 279.078	5264.49	5292.75	5275.64
Mn 257.610	455.290	456.982	455.746
Mo 202.032	-0.7879u	0.1010	-0.5360u
Na 330.237	10144.7	10300.7	10450.1
Ni 231.604	0.5924	-0.7843u	0.5024
Pb 220.353	-2.3259u	3.4207	4.2948
Sb 206.834	1.5213	-2.1720u	2.8916
Se 196.026	-9.0613u	-12.8348u	-7.8223u
Sn 189.925	-6.7271u	-5.3544u	-5.9345u
Sr 216.596	180.006	182.666	180.913
Ti 334.941	-0.4590u	-0.4932u	-0.4427u
Tl 190.794	-1.5090u	-0.9064u	0.4028u
V 292.401	-1.2448u	-1.4500u	-0.6813u
Zn 206.200	-1.5807u	-1.7365u	-1.0927u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6765	ppb	0.2542	37.6	-32.0444
Al 308.215	1.4083	ppb	0.6049	43.0	-21.0864
As 188.980	0.8621	ppb	2.2394	259.8	-8.9256
B 249.678	7.7322	ppb	0.4945	6.4	280.204
Ba 389.178	22.1129	ppb	1.1256	5.1	510.694
Be 313.042	-0.4821	ppb	0.0442	9.2	-222.128
Ca 370.602	19714	ppb	73.56	0.4	53907
Cd 226.502	-0.4606	ppb	0.0542	11.8	31.6243
Co 228.615	-0.6429	ppb	0.1799	28.0	-8.2913
Cr 267.716	-0.7965	ppb	0.1372	17.2	-13.5659
Cu 324.754	-0.4842	ppb	0.6409	132.3	186.214
Fe 271.441	1773.01	ppb	0.9891	0.1	3011.25
K 766.491	1001.16	ppb	7.6915	0.8	32253.2
Mg 279.078	5277.63	ppb	14.2347	0.3	10556.4
Mn 257.610	456.006	ppb	0.8754	0.2	106069
Mo 202.032	-0.4076	ppb	0.4581	112.4	18.5061
Na 330.237	10298.5	ppb	152.697	1.5	504.132
Ni 231.604	0.1035	ppb	0.7702	744.2	-4.2561
Pb 220.353	1.7965	ppb	3.5968	200.2	31.0842
Sb 206.834	0.7470	ppb	2.6191	350.6	-2.2051
Se 196.026	-9.9061	ppb	2.6109	26.4	5.9082
Sn 189.925	-6.0053	ppb	0.6891	11.5	-9.4679
Sr 216.596	181.195	ppb	1.3523	0.7	1788.89
Ti 334.941	-0.4650	ppb	0.0258	5.5	-8.2460
Tl 190.794	-0.6709	ppb	0.9774	145.7	-13.7748
V 292.401	-1.1254	ppb	0.3980	35.4	-13.3687
Zn 206.200	-1.4700	ppb	0.3359	22.8	-2.1031

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680-89208-a-1-d ms (Samp) **4/17/2013, 7:13:13 PM** **Rack 2, Tube 12****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	33.2237	32.5646	32.7716
Al 308.215	5081.39	5088.42	5129.89
As 188.980	106.172	103.096	97.3841
B 249.678	194.798	194.129	195.362
Ba 389.178	123.135	124.308	124.757
Be 313.042	51.7771	51.7164	51.7540
Ca 370.602	24322	24307	24357
Cd 226.502	52.5056	52.0820	52.1666
Co 228.615	52.5400	52.6401	52.4021
Cr 267.716	103.230	103.072	104.254
Cu 324.754	105.500	105.082	103.154
Fe 271.441	6693.96	6710.86	6716.12
K 766.491	6048.97	6022.74	6012.22
Mg 279.078	10240.5	10252.1	10255.7
Mn 257.610	992.193	992.831	992.024
Mo 202.032	98.5832	98.7170	98.5346
Na 330.237	15441.2	15562.5	15484.5
Ni 231.604	102.028	102.700	102.461
Pb 220.353	50.8040	51.9603	51.2736
Sb 206.834	49.4164	46.2629	47.4044
Se 196.026	95.4425	86.9331	100.424
Sn 189.925	193.457	188.978	194.218
Sr 216.596	280.811	280.594	281.952
Ti 334.941	97.6224	98.0219	97.6698
Tl 190.794	38.1465	38.8915	36.0885
V 292.401	99.9163	99.9306	100.311
Zn 206.200	101.838	99.1524	103.382

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	32.8533	ppb	0.3371	1.0	2492.35
Al 308.215	5099.90	ppb	26.2088	0.5	11207.1
As 188.980	102.217	ppb	4.4592	4.4	52.7348
B 249.678	194.763	ppb	0.6173	0.3	2438.16
Ba 389.178	124.067	ppb	0.8377	0.7	2716.98
Be 313.042	51.7491	ppb	0.0306	0.1	90591.4
Ca 370.602	24329	ppb	25.36	0.1	66232
Cd 226.502	52.2514	ppb	0.2242	0.4	1829.83
Co 228.615	52.5274	ppb	0.1195	0.2	520.597
Cr 267.716	103.519	ppb	0.6419	0.6	3205.12
Cu 324.754	104.579	ppb	1.2514	1.2	5651.27
Fe 271.441	6706.98	ppb	11.5784	0.2	11081.8
K 766.491	6027.98	ppb	18.9252	0.3	191837
Mg 279.078	10249.5	ppb	7.9446	0.1	20466.2
Mn 257.610	992.350	ppb	0.4257	0.0	230323
Mo 202.032	98.6116	ppb	0.0945	0.1	720.895
Na 330.237	15496.1	ppb	61.4752	0.4	728.247
Ni 231.604	102.396	ppb	0.3407	0.3	258.577
Pb 220.353	51.3459	ppb	0.5815	1.1	115.404
Sb 206.834	47.6945	ppb	1.5966	3.3	44.2553
Se 196.026	94.2667	ppb	6.8220	7.2	54.2403
Sn 189.925	192.218	ppb	2.8314	1.5	134.676
Sr 216.596	281.119	ppb	0.7298	0.3	2744.64
Ti 334.941	97.7714	ppb	0.2182	0.2	25069.8
Tl 190.794	37.7089	ppb	1.4518	3.9	22.1406
V 292.401	100.053	ppb	0.2240	0.2	2639.31
Zn 206.200	101.457	ppb	2.1493	2.1	134.209

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

Cont Calib Verif (CCV) 4/17/2013, 7:18:48 PM Rack 2, Tube 13
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	488.175	489.952	496.264
Al 308.215	4910.28	4862.67	4930.92
As 188.980	483.577	474.962	485.095
B 249.678	506.851	512.465	516.867
Ba 389.178	5129.87	5132.29	5154.20
Be 313.042	517.531	519.482	520.694
Ca 370.602	4995	4990	5046
Cd 226.502	518.990	522.289	525.071
Co 228.615	523.375	526.896	527.753
Cr 267.716	5165.36	5135.31	5196.02
Cu 324.754	5229.26	5228.39	5244.04
Fe 271.441	4998.91	4994.24	5030.42
K 766.491	9990.47	9982.72	10011.1
Mg 279.078	4995.02	5015.74	5052.25
Mn 257.610	5242.59	5260.33	5290.86
Mo 202.032	492.384	494.110	497.248
Na 330.237	7306.74	7402.87	7285.18
Ni 231.604	2625.22	2630.29	2643.73
Pb 220.353	499.090	505.763	508.363
Sb 206.834	927.486	926.952	942.768
Se 196.026	5035.04	5036.65	5054.67
Sn 189.925	5078.13	4996.71	5052.64
Sr 216.596	2524.29	2526.64	2549.81
Ti 334.941	495.939	495.653	498.590
Tl 190.794	5067.56	5086.08	5100.54
V 292.401	4992.13	5006.47	5014.63
Zn 206.200	2597.88	2621.11	2631.07

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	491.464	ppb	4.2510	0.9	36987.8	98.29274
Al 308.215	4901.29	ppb	35.0014	0.7	10756.5	98.02583
As 188.980	481.211	ppb	5.4651	1.1	283.190	96.24226
B 249.678	512.061	ppb	5.0203	1.0	6110.69	20.48244Q
Ba 389.178	5138.79	ppb	13.4005	0.3	110290	102.77575
Be 313.042	519.235	ppb	1.5959	0.3	903323	103.84707
Ca 370.602	5010	ppb	30.62	0.6	13633	100.20551
Cd 226.502	522.117	ppb	3.0441	0.6	17757.3	104.42332
Co 228.615	526.008	ppb	2.3205	0.4	5244.88	105.20161
Cr 267.716	5165.56	ppb	30.3533	0.6	159302	103.31125
Cu 324.754	5233.90	ppb	8.7951	0.2	272261	104.67790
Fe 271.441	5007.86	ppb	19.6830	0.4	8419.76	100.15711
K 766.491	9994.76	ppb	14.6632	0.1	317769	99.94762
Mg 279.078	5021.00	ppb	28.9717	0.6	9970.71	100.42007
Mn 257.610	5264.60	ppb	24.4167	0.5	1219691	105.29192
Mo 202.032	494.581	ppb	2.4660	0.5	3522.43	98.91615
Na 330.237	7331.60	ppb	62.6590	0.9	354.138	97.75462
Ni 231.604	2633.08	ppb	9.5627	0.4	6758.42	105.32327
Pb 220.353	504.405	ppb	4.7830	0.9	887.521	100.88106
Sb 206.834	932.402	ppb	8.9811	1.0	963.786	93.24020
Se 196.026	5042.12	ppb	10.8974	0.2	2345.15	100.84240
Sn 189.925	5042.50	ppb	41.6443	0.8	3661.62	100.84990
Sr 216.596	2533.58	ppb	14.1061	0.6	24292.6	101.34324
Ti 334.941	496.727	ppb	1.6193	0.3	126811	99.34543
Tl 190.794	5084.73	ppb	16.5299	0.3	4868.66	101.69452
V 292.401	5004.41	ppb	11.3911	0.2	131986	100.08816
Zn 206.200	2616.69	ppb	17.0297	0.7	3356.06	104.66751

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

Cont Calib Blank (CCB) 4/17/2013, 7:24:23 PM Rack 2, Tube 14
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8306u	-0.7230u	-0.6311u
Al 308.215	-7.3086u	-5.0767u	-3.1081u
As 188.980	1.8073	-1.2038u	0.5223
B 249.678	3.1537	2.8572	2.1094
Ba 389.178	-0.5275u	-0.8935u	-0.6808u
Be 313.042	-0.4797u	-0.4612u	-0.4437u
Ca 370.602	-7.199u	-2.337u	-6.931u
Cd 226.502	-0.4188u	-0.4714u	-0.4515u
Co 228.615	-0.8386u	-0.9352u	-0.1177u
Cr 267.716	-0.5343u	-0.3446u	-0.1983u
Cu 324.754	-0.4020u	-0.1785u	-0.4100u
Fe 271.441	-18.1953u	-18.1081u	-12.3815u
K 766.491	-4.6874u	-3.5053u	-4.0547u
Mg 279.078	0.6415	0.3971	1.5059
Mn 257.610	-0.9666u	-0.6768u	-0.4298u
Mo 202.032	-0.2320u	-0.4472u	-0.2838u
Na 330.237	-260.874u	-199.557u	-73.3251u
Ni 231.604	-0.6742u	-0.3045u	0.4644
Pb 220.353	0.0378	2.3364	0.3164
Sb 206.834	2.6408	5.2574	1.4255
Se 196.026	-7.2857u	5.5965	-6.2240u
Sn 189.925	-5.3008u	-4.8233u	-1.5676u
Sr 216.596	-2.3697u	-2.5053u	-2.2722u
Ti 334.941	-0.3974u	-0.4272u	-0.3943u
Tl 190.794	6.3656	1.1917	3.2938
V 292.401	-0.1939u	-0.0674u	0.1448
Zn 206.200	-2.2678u	-1.1272u	-1.5624u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.7282	ppb	0.0998	13.7	-29.5516	-0.72822
Al 308.215	-5.1645	ppb	2.1016	40.7	-35.5695	-5.16446
As 188.980	0.3753	ppb	1.5109	402.6	-9.3710	0.37528
B 249.678	2.7067	ppb	0.5382	19.9	224.136	2.70674
Ba 389.178	-0.7006	ppb	0.1838	26.2	6.1921	-0.70063
Be 313.042	-0.4615	ppb	0.0180	3.9	-191.339	-0.46154
Ca 370.602	-5.489	ppb	2.733	49.8	3.282	-5.48902
Cd 226.502	-0.4472	ppb	0.0266	5.9	28.1019	-0.44722
Co 228.615	-0.6305	ppb	0.4467	70.9	-8.1111	-0.63050
Cr 267.716	-0.3591	ppb	0.1685	46.9	-1.7335	-0.35906
Cu 324.754	-0.3302	ppb	0.1314	39.8	193.656	-0.33016
Fe 271.441	-16.2283	ppb	3.3317	20.5	87.7848	-16.22831
K 766.491	-4.0825	ppb	0.5916	14.5	340.100	-4.08248
Mg 279.078	0.8482	ppb	0.5826	68.7	36.3183	0.84816
Mn 257.610	-0.6910	ppb	0.2687	38.9	267.562	-0.69104
Mo 202.032	-0.3210	ppb	0.1123	35.0	19.2074	-0.32098
Na 330.237	-177.919	ppb	95.6283	53.7	47.7096	-177.91869
Ni 231.604	-0.1714	ppb	0.5808	338.9	-4.9986	-0.17140
Pb 220.353	0.8969	ppb	1.2545	139.9	29.4499	0.89685
Sb 206.834	3.1079	ppb	1.9582	63.0	0.0878	3.10789
Se 196.026	-2.6377	ppb	7.1508	271.1	9.1680	-2.63772
Sn 189.925	-3.8972	ppb	2.0316	52.1	-7.9453	-3.89724
Sr 216.596	-2.3824	ppb	0.1171	4.9	25.8771	-2.38239
Ti 334.941	-0.4063	ppb	0.0182	4.5	-14.4173	-0.40628
Tl 190.794	3.6171	ppb	2.6021	71.9	-8.9212	3.61706
V 292.401	-0.0388	ppb	0.1711	440.5	15.3639	-0.03885
Zn 206.200	-1.6525	ppb	0.5756	34.8	45.78666	-1.65248

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

680-89208-a-1-e msd (Samp) 4/17/2013, 7:29:58 PM Rack 2, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	16.2987	16.5297	16.2240
Al 308.215	5210.36	5189.10	5165.54
As 188.980	109.187	105.726	112.997
B 249.678	196.413	197.395	198.791
Ba 389.178	126.042	126.739	126.674
Be 313.042	52.6393	52.5327	52.5994
Ca 370.602	24622	24585	24561
Cd 226.502	52.5948	53.0561	52.6165
Co 228.615	52.9814	52.1472	52.8829
Cr 267.716	105.225	105.858	105.420
Cu 324.754	104.223	105.131	106.349
Fe 271.441	6835.04	6837.72	6821.31
K 766.491	6115.48	6124.50	6116.88
Mg 279.078	10352.8	10338.7	10350.8
Mn 257.610	1003.00	1001.14	1002.88
Mo 202.032	100.059	99.3637	100.088
Na 330.237	15861.5	15677.8	15404.8
Ni 231.604	101.710	101.858	101.819
Pb 220.353	56.1682	50.8086	51.3272
Sb 206.834	51.7344	52.4788	49.5526
Se 196.026	103.844	97.0376	89.7895
Sn 189.925	197.030	199.876	196.310
Sr 216.596	283.479	283.370	283.587
Ti 334.941	99.1107	99.2639	99.0510
Tl 190.794	38.8139	40.9612	39.7531
V 292.401	101.141	101.382	101.748
Zn 206.200	103.015	99.3399	102.324

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	16.3508	ppb	0.1594	1.0	1249.21
Al 308.215	5188.33	ppb	22.4187	0.4	11401.8
As 188.980	109.304	ppb	3.6367	3.3	57.0489
B 249.678	197.533	ppb	1.1947	0.6	2470.07
Ba 389.178	126.485	ppb	0.3851	0.3	2769.25
Be 313.042	52.5905	ppb	0.0538	0.1	92054.3
Ca 370.602	24589	ppb	30.31	0.1	66938
Cd 226.502	52.7558	ppb	0.2603	0.5	1847.19
Co 228.615	52.6705	ppb	0.4559	0.9	522.030
Cr 267.716	105.501	ppb	0.3238	0.3	3266.29
Cu 324.754	105.235	ppb	1.0669	1.0	5685.40
Fe 271.441	6831.35	ppb	8.8024	0.1	11285.0
K 766.491	6118.96	ppb	4.8542	0.1	194726
Mg 279.078	10347.5	ppb	7.6267	0.1	20661.5
Mn 257.610	1002.34	ppb	1.0393	0.1	232637
Mo 202.032	99.8367	ppb	0.4099	0.4	729.582
Na 330.237	15648.0	ppb	229.817	1.5	734.836
Ni 231.604	101.795	ppb	0.0769	0.1	257.037
Pb 220.353	52.7680	ppb	2.9561	5.6	117.827
Sb 206.834	51.2553	ppb	1.5208	3.0	47.7706
Se 196.026	96.8904	ppb	7.0285	7.3	55.4568
Sn 189.925	197.739	ppb	1.8854	1.0	138.691
Sr 216.596	283.479	ppb	0.1084	0.0	2767.31
Ti 334.941	99.1419	ppb	0.1098	0.1	25419.8
Tl 190.794	39.8427	ppb	1.0764	2.7	24.1716
V 292.401	101.423	ppb	0.3055	0.3	2675.38
Zn 206.200	101.560	ppb	1.9531	1.9	134.337

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89208-a-2-c (Samp) 4/17/2013, 7:35:33 PM Rack 2, Tube 16

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0246u	-1.0081u	-0.9302u
Al 308.215	51.3422	53.7907	53.6251
As 188.980	-5.5352u	0.7280	-1.2815u
B 249.678	25.4727	24.7413	24.8910
Ba 389.178	23.1659	22.6534	22.0365
Be 313.042	-0.5297u	-0.5288u	-0.5192u
Ca 370.602	10389	10358	10309
Cd 226.502	-0.4353u	-0.4529u	-0.4492u
Co 228.615	-2.0111u	-0.7277u	-0.1556u
Cr 267.716	-1.1771u	-1.2085u	-0.7680u
Cu 324.754	0.1196	0.7067	0.0148
Fe 271.441	118.834	108.718	109.726
K 766.491	1770.96	1767.75	1768.01
Mg 279.078	2397.22	2395.72	2396.10
Mn 257.610	63.9046	63.7736	63.6331
Mo 202.032	0.1791	0.5849	0.1882
Na 330.237	26776.1	26664.5	26790.1
Ni 231.604	0.2856	-0.1321u	-0.8093u
Pb 220.353	-0.6173u	1.0899	2.2970
Sb 206.834	1.2403	4.9839	-3.6552u
Se 196.026	-14.8236u	-1.7881u	1.8813
Sn 189.925	-0.0915u	-6.9090u	-5.2382u
Sr 216.596	85.0411	85.0684	84.3395
Ti 334.941	0.3860	0.5619	0.3342
Tl 190.794	-2.1656u	-1.4190u	-0.4631u
V 292.401	-0.8729u	-0.3388u	-0.7827u
Zn 206.200	3.0750	2.7930	2.8890

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9877	ppb	0.0504	5.1	-52.7665
Al 308.215	52.9194	ppb	1.3684	2.6	92.3316
As 188.980	-2.0295	ppb	3.1979	157.6	-10.7490
B 249.678	25.0350	ppb	0.3864	1.5	482.295
Ba 389.178	22.6186	ppb	0.5655	2.5	512.391
Be 313.042	-0.5259	ppb	0.0058	1.1	-302.817
Ca 370.602	10352	ppb	40.33	0.4	28370
Cd 226.502	-0.4458	ppb	0.0092	2.1	28.3328
Co 228.615	-0.9648	ppb	0.9502	98.5	-11.4434
Cr 267.716	-1.0512	ppb	0.2458	23.4	-22.5901
Cu 324.754	0.2804	ppb	0.3729	133.0	225.457
Fe 271.441	112.426	ppb	5.5723	5.0	297.920
K 766.491	1768.90	ppb	1.7861	0.1	56626.3
Mg 279.078	2396.35	ppb	0.7774	0.0	4814.17
Mn 257.610	63.7704	ppb	0.1358	0.2	15210.4
Mo 202.032	0.3174	ppb	0.2317	73.0	23.7334
Na 330.237	26743.5	ppb	68.7905	0.3	1221.70
Ni 231.604	-0.2186	ppb	0.5526	252.8	-5.1172
Pb 220.353	0.9232	ppb	1.4643	158.6	29.5076
Sb 206.834	0.8563	ppb	4.3324	505.9	-2.1407
Se 196.026	-4.9101	ppb	8.7791	178.8	8.1311
Sn 189.925	-4.0796	ppb	3.5534	87.1	-8.0663
Sr 216.596	84.8163	ppb	0.4132	0.5	863.105
Ti 334.941	0.4273	ppb	0.1193	27.9	206.285
Tl 190.794	-1.3492	ppb	0.8534	63.3	-13.7917
V 292.401	-0.6648	ppb	0.2859	43.0	-1.4195
Zn 206.200	2.9190	ppb	0.1434	281.8	457.474

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680-89187-a-1-a^5 (Samp) 4/17/2013, 7:41:07 PM Rack 2, Tube 17
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7800u	-0.9921u	-0.8507u
Al 308.215	42.8283	49.4962	46.4612
As 188.980	-5.0382u	-0.0479	3.7442
B 249.678	980.329	977.719	972.605
Ba 389.178	-1.2715	-3.2951	-3.6072
Be 313.042	-0.3855u	-0.3885u	-0.3878u
Ca 370.602	84473	83790	83061
Cd 226.502	0.2102u	0.0702u	0.2753u
Co 228.615	-1.0210u	-1.3601u	-0.7081u
Cr 267.716	-2.6826u	-2.5562u	-2.0664u
Cu 324.754	81.6506	80.2206	80.1996
Fe 271.441	133.230	129.981	129.962
K 766.491	157031x	156345x	154808x
Mg 279.078	277046	275169	272678
Mn 257.610	57.4945	57.2785	56.6995
Mo 202.032	-0.0806u	-0.3254u	-0.7933u
Na 330.237	3156344x	3139325x	3112461x
Ni 231.604	24.9476	26.5732	26.5659
Pb 220.353	5.4472	3.4252	5.4982
Sb 206.834	0.8465	8.2805	-3.7888u
Se 196.026	18.2958	0.1295	8.2053
Sn 189.925	-7.9571u	-15.0317u	-4.4495u
Sr 216.596	1594.46	1575.96	1564.54
Ti 334.941	-3.9669u	-3.9725u	-3.9587u
Tl 190.794	-7.4264u	-1.8422u	-4.8710u
V 292.401	0.4831u	0.4576u	-0.2012u
Zn 206.200	35.5957	37.8640	37.6527

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8743b	ppb	0.1080	12.4	-116.295
Al 308.215	46.2619b	ppb	3.3384	7.2	77.6509
As 188.980	-0.4473b	ppb	4.4048	984.8	-9.1737
B 249.678	976.884b	ppb	3.9290	0.4	11494.0
Ba 389.178	-2.7246b	ppb	1.2681	46.5	626.827
Be 313.042	-0.3873b	ppb	0.0015	0.4	-364.796
Ca 370.602	83775b	ppb	706.3	0.8	229500
Cd 226.502	0.1852b	ppb	0.1048	56.6	38.1206
Co 228.615	-1.0298b	ppb	0.3261	31.7	-12.0029
Cr 267.716	-2.4351b	ppb	0.3254	13.4	-32.0660
Cu 324.754	80.6903b	ppb	0.8317	1.0	4405.59
Fe 271.441	131.058b	ppb	1.8811	1.4	328.400
K 766.491	156061xb	ppb	1138.44	0.7	4954884
Mg 279.078	274964b	ppb	2191.49	0.8	548565
Mn 257.610	57.1575b	ppb	0.4111	0.7	15249.9
Mo 202.032	-0.3998b	ppb	0.3621	90.6	18.6419
Na 330.237	3136043xb	ppb	22124.4	0.7	136819
Ni 231.604	26.0289b	ppb	0.9365	3.6	62.2978
Pb 220.353	4.7902b	ppb	1.1824	24.7	36.0987
Sb 206.834	1.7794b	ppb	6.0885	342.2	-1.2318
Se 196.026	8.8768b	ppb	9.1017	102.5	14.5119
Sn 189.925	-9.1461b	ppb	5.3904	58.9	-10.8215
Sr 216.596	1578.32b	ppb	15.0996	1.0	15192.3
Ti 334.941	-3.9660b	ppb	0.0069	0.2	-2.5368
Tl 190.794	-4.7132b	ppb	2.7955	59.3	-17.0250
V 292.401	0.2465b	ppb	0.3879	157.4	3.7876
Zn 206.200	37.0375b	ppb	1.2531	3.4	51.6271

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89187-a-2-a^5 (Samp) 4/17/2013, 7:46:42 PM Rack 2, Tube 18

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6748u	-1.0279u	-0.5063u
Al 308.215	41.6331	40.2935	37.9797
As 188.980	-3.0222u	-1.3608u	5.3370
B 249.678	1054.59	1053.10	1054.26
Ba 389.178	-3.0098	-2.4089	-2.9685
Be 313.042	-0.3927u	-0.3774u	-0.3966u
Ca 370.602	88738	88130	87786
Cd 226.502	0.1901u	0.2192u	0.2569u
Co 228.615	-1.1090u	-0.7774u	-1.3170u
Cr 267.716	-2.9483u	-2.8123u	-2.7144u
Cu 324.754	286.498	284.475	284.711
Fe 271.441	31.0200	39.1590	28.0463
K 766.491	169021x	165149x	159746x
Mg 279.078	294248	292093	291081
Mn 257.610	21.0551	21.3294	20.7592
Mo 202.032	0.3527	0.8855	0.9927
Na 330.237	3354380x	3329133x	3354090x
Ni 231.604	127.421	127.113	127.273
Pb 220.353	6.6637	9.4695	6.9144
Sb 206.834	-1.6623u	4.2763	-8.2557u
Se 196.026	7.9059	4.4759	8.3976
Sn 189.925	-3.7190u	-6.4064u	-5.7847u
Sr 216.596	1674.76	1658.08	1651.30
Ti 334.941	-4.3894u	-4.3397u	-4.3236u
Tl 190.794	-10.2598u	-1.5095u	-7.6266u
V 292.401	0.3605u	0.3734u	0.2202u
Zn 206.200	23.0759	21.3137	19.3430

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7363b	ppb	0.2662	36.2	-110.283
Al 308.215	39.9688b	ppb	1.8482	4.6	63.8521
As 188.980	0.3180b	ppb	4.4253	1391.6	-8.6702
B 249.678	1053.98b	ppb	0.7867	0.1	12386.0
Ba 389.178	-2.7957b	ppb	0.3357	12.0	667.552
Be 313.042	-0.3889b	ppb	0.0101	2.6	-388.454
Ca 370.602	88218b	ppb	482.2	0.5	241678
Cd 226.502	0.2221b	ppb	0.0335	15.1	38.3516
Co 228.615	-1.0678b	ppb	0.2722	25.5	-12.4074
Cr 267.716	-2.8250b	ppb	0.1174	4.2	-41.9396
Cu 324.754	285.228b	ppb	1.1061	0.4	15038.6
Fe 271.441	32.7418b	ppb	5.7529	17.6	167.745
K 766.491	164639xb	ppb	4658.20	2.8	5227182
Mg 279.078	292474b	ppb	1617.42	0.6	583496
Mn 257.610	21.0479b	ppb	0.2851	1.4	6988.13
Mo 202.032	0.7436b	ppb	0.3428	46.1	26.7621
Na 330.237	3345868xb	ppb	14493.7	0.4	145970
Ni 231.604	127.269b	ppb	0.1540	0.1	322.323
Pb 220.353	7.6825b	ppb	1.5527	20.2	41.0185
Sb 206.834	-1.8806b	ppb	6.2688	333.3	-4.8521
Se 196.026	6.9265b	ppb	2.1364	30.8	13.6011
Sn 189.925	-5.3033b	ppb	1.4069	26.5	-7.9640
Sr 216.596	1661.38b	ppb	12.0766	0.7	15987.6
Ti 334.941	-4.3509b	ppb	0.0343	0.8	-42.8070
Tl 190.794	-6.4653b	ppb	4.4893	69.4	-18.6541
V 292.401	0.3180b	ppb	0.0850	26.7	4.1687
Zn 206.200	21.2442b	ppb	1.8674	8.8	21.3160

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

680-89171-a-1-b (Samp) 4/17/2013, 7:52:17 PM Rack 2, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7019u	-0.9204u	-0.9169u
Al 308.215	8.2954	7.9853	6.6979
As 188.980	-3.1362u	3.2483	-0.6180u
B 249.678	15.4760	13.0957	12.5192
Ba 389.178	44.1664	44.2811	44.4190
Be 313.042	-0.5383u	-0.5365u	-0.5338u
Ca 370.602	17211	17182	17203
Cd 226.502	-0.4571u	-0.4634u	-0.4794u
Co 228.615	-0.8126u	-0.1049u	-0.4709u
Cr 267.716	-1.3313u	-0.9569u	-0.8503u
Cu 324.754	-1.1867u	-0.8206u	-0.8489u
Fe 271.441	193.407	194.403	198.240
K 766.491	723.277	721.618	724.167
Mg 279.078	2409.36	2404.10	2410.53
Mn 257.610	444.681	443.569	444.438
Mo 202.032	-0.1547u	-0.2221u	0.0384
Na 330.237	7890.09	7756.97	7855.87
Ni 231.604	0.6520	-1.2006u	0.0355
Pb 220.353	4.2301	1.5353	-0.4181u
Sb 206.834	2.9963	-0.5348u	1.2695
Se 196.026	-4.6977u	5.7423	-1.8914u
Sn 189.925	-6.2762u	-7.0862u	-8.8201u
Sr 216.596	574.785	573.640	572.264
Ti 334.941	-0.5110u	-0.4345u	-0.3880u
Tl 190.794	-1.6101u	-1.2404u	-2.1676u
V 292.401	-1.5052u	-1.1557u	-1.1569u
Zn 206.200	-2.4311u	-1.7433u	0.0701

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8464	ppb	0.1252	14.8	-62.6310
Al 308.215	7.6595	ppb	0.8471	11.1	-7.3099
As 188.980	-0.1686	ppb	3.2159	1906.8	-9.5590
B 249.678	13.6970	ppb	1.5674	11.4	351.035
Ba 389.178	44.2888	ppb	0.1265	0.3	977.391
Be 313.042	-0.5362	ppb	0.0022	0.4	-316.625
Ca 370.602	17199	ppb	14.69	0.1	47128
Cd 226.502	-0.4667	ppb	0.0115	2.5	27.8968
Co 228.615	-0.4628	ppb	0.3539	76.5	-6.4599
Cr 267.716	-1.0462	ppb	0.2526	24.1	-21.5650
Cu 324.754	-0.9521	ppb	0.2037	21.4	161.413
Fe 271.441	195.350	ppb	2.5520	1.3	433.425
K 766.491	723.021	ppb	1.2936	0.2	23423.1
Mg 279.078	2408.00	ppb	3.4279	0.1	4831.66
Mn 257.610	444.229	ppb	0.5845	0.1	103321
Mo 202.032	-0.1128	ppb	0.1352	119.9	20.6769
Na 330.237	7834.31	ppb	69.1313	0.9	397.071
Ni 231.604	-0.1710	ppb	0.9434	551.6	-4.9934
Pb 220.353	1.7824	ppb	2.3340	130.9	31.0572
Sb 206.834	1.2436	ppb	1.7657	142.0	-1.7565
Se 196.026	-0.2823	ppb	5.4028	1914.0	10.3610
Sn 189.925	-7.3942	ppb	1.2996	17.6	-10.4795
Sr 216.596	573.563	ppb	1.2619	0.2	5550.93
Ti 334.941	-0.4445	ppb	0.0621	14.0	-14.8035
Tl 190.794	-1.6727	ppb	0.4668	27.9	-14.6431
V 292.401	-1.2726	ppb	0.2014	15.8	-17.3277
Zn 206.200	-1.3681	ppb	1.2921	94.4	-2.2343

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89265-a-1-a (Samp) 4/17/2013, 7:57:52 PM Rack 2, Tube 20

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.2900u	-1.0295u	-0.5621u
Al 308.215	1.7103	-3.2516u	-2.9883u
As 188.980	8.6710	-2.9908u	-5.3460u
B 249.678	13.3097	13.4177	13.0206
Ba 389.178	23.2488	24.0024	23.4511
Be 313.042	-0.5465u	-0.5428u	-0.5429u
Ca 370.602	12349	12400	12315
Cd 226.502	-0.4541u	-0.6668u	-0.5021u
Co 228.615	-0.6184u	-0.1659u	-0.9192u
Cr 267.716	-1.2025u	-0.9354u	-1.1163u
Cu 324.754	-1.0350u	-0.8979u	-0.6217u
Fe 271.441	2.0175	-4.8200u	-1.1071u
K 766.491	731.589	737.815	731.441
Mg 279.078	2269.02	2276.37	2255.80
Mn 257.610	82.7318	83.1538	82.5992
Mo 202.032	0.7427	0.5648	0.0225
Na 330.237	15378.1	15468.7	15379.7
Ni 231.604	-2.2046u	0.6949	0.3579
Pb 220.353	2.0220	4.4283	0.8299
Sb 206.834	1.2128	-1.7754u	-1.9523u
Se 196.026	-7.8717u	-0.8108u	-6.5212u
Sn 189.925	-3.4763u	-4.8658u	-5.9704u
Sr 216.596	789.281	795.115	789.540
Ti 334.941	-0.5774u	-0.5134u	-0.4707u
Tl 190.794	-0.1384u	-1.9904u	-2.3374u
V 292.401	-0.8676u	-1.1814u	-1.1253u
Zn 206.200	-1.6171u	-1.5220u	-0.9866u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9605	ppb	0.3688	38.4	-82.5512
Al 308.215	-1.5099	ppb	2.7919	184.9	-27.4743
As 188.980	0.1114	ppb	7.5058	6736.9	-9.4276
B 249.678	13.2493	ppb	0.2053	1.5	346.080
Ba 389.178	23.5674	ppb	0.3900	1.7	532.287
Be 313.042	-0.5441	ppb	0.0021	0.4	-332.646
Ca 370.602	12355	ppb	42.43	0.3	33863
Cd 226.502	-0.5410	ppb	0.1116	20.6	24.9088
Co 228.615	-0.5679	ppb	0.3792	66.8	-7.5151
Cr 267.716	-1.0847	ppb	0.1363	12.6	-23.7058
Cu 324.754	-0.8515	ppb	0.2105	24.7	166.593
Fe 271.441	-1.3032	ppb	3.4230	262.7	112.124
K 766.491	733.615	ppb	3.6383	0.5	23759.5
Mg 279.078	2267.06	ppb	10.4255	0.5	4555.96
Mn 257.610	82.8282	ppb	0.2896	0.3	19623.0
Mo 202.032	0.4434	ppb	0.3752	84.6	24.6335
Na 330.237	15408.8	ppb	51.8614	0.3	727.449
Ni 231.604	-0.3839	ppb	1.5857	413.0	-5.5441
Pb 220.353	2.4267	ppb	1.8330	75.5	32.0745
Sb 206.834	-0.8383	ppb	1.7785	212.2	-3.8162
Se 196.026	-5.0679	ppb	3.7481	74.0	8.0626
Sn 189.925	-4.7709	ppb	1.2498	26.2	-8.5715
Sr 216.596	791.312	ppb	3.2960	0.4	7638.64
Ti 334.941	-0.5205	ppb	0.0537	10.3	-35.2813
Tl 190.794	-1.4887	ppb	1.1823	79.4	-13.9473
V 292.401	-1.0581	ppb	0.1673	15.8	-11.7945
Zn 206.200	-1.3752	ppb	0.3399	24.7	-2.2251

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89265-a-1-b ms (Samp) 4/17/2013, 8:03:38 PM Rack 2, Tube 21

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	13.1497	13.3103	13.6070
Al 308.215	5166.67	5190.20	5174.35
As 188.980	98.1370	106.877	110.376
B 249.678	205.733	206.780	207.483
Ba 389.178	126.938	128.001	128.258
Be 313.042	52.4350	52.3707	52.4521
Ca 370.602	17801	17814	17824
Cd 226.502	53.1851	53.2652	53.1665
Co 228.615	53.0683	53.0732	52.9457
Cr 267.716	104.668	104.717	104.992
Cu 324.754	107.046	106.425	104.944
Fe 271.441	5026.24	5017.02	5020.33
K 766.491	5845.49	5843.20	5846.55
Mg 279.078	7369.88	7365.87	7371.95
Mn 257.610	630.214	629.466	629.472
Mo 202.032	102.966	101.774	101.933
Na 330.237	21444.8	21327.8	21170.2
Ni 231.604	102.119	104.111	104.116
Pb 220.353	55.2791	51.9677	52.4094
Sb 206.834	52.1119	49.0740	46.0925
Se 196.026	95.6691	99.3032	93.5893
Sn 189.925	194.070	195.817	195.517
Sr 216.596	919.967	921.030	923.496
Ti 334.941	98.8202	98.9219	99.1409
Tl 190.794	37.8326	39.1165	35.5941
V 292.401	101.620	101.369	101.207
Zn 206.200	102.976	99.8618	103.107

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	13.3557	ppb	0.2320	1.7	993.009
Al 308.215	5177.08	ppb	11.9990	0.2	11377.1
As 188.980	105.130	ppb	6.3036	6.0	54.4688
B 249.678	206.665	ppb	0.8808	0.4	2577.80
Ba 389.178	127.732	ppb	0.6997	0.5	2786.45
Be 313.042	52.4193	ppb	0.0429	0.1	91753.8
Ca 370.602	17813	ppb	11.38	0.1	48493
Cd 226.502	53.2056	ppb	0.0524	0.1	1858.39
Co 228.615	53.0291	ppb	0.0722	0.1	525.585
Cr 267.716	104.792	ppb	0.1747	0.2	3243.17
Cu 324.754	106.138	ppb	1.0801	1.0	5731.91
Fe 271.441	5021.20	ppb	4.6687	0.1	8327.39
K 766.491	5845.08	ppb	1.7161	0.0	186031
Mg 279.078	7369.23	ppb	3.0916	0.0	14725.6
Mn 257.610	629.717	ppb	0.4302	0.1	146320
Mo 202.032	102.224	ppb	0.6472	0.6	746.618
Na 330.237	21314.3	ppb	137.821	0.6	982.399
Ni 231.604	103.449	ppb	1.1514	1.1	261.246
Pb 220.353	53.2188	ppb	1.7980	3.4	118.510
Sb 206.834	49.0928	ppb	3.0097	6.1	45.5686
Se 196.026	96.1872	ppb	2.8920	3.0	55.0467
Sn 189.925	195.135	ppb	0.9338	0.5	136.797
Sr 216.596	921.497	ppb	1.8105	0.2	8884.62
Ti 334.941	98.9610	ppb	0.1639	0.2	25360.9
Tl 190.794	37.5144	ppb	1.7826	4.8	22.5477
V 292.401	101.399	ppb	0.2079	0.2	2674.22
Zn 206.200	101.982	ppb	1.8370	1.8	134.880

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680-89265-a-1-c msd (Samp) 4/17/2013, 8:09:25 PM Rack 2, Tube 22

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	16.4940	16.5782	16.5836
Al 308.215	5191.90	5205.23	5210.79
As 188.980	104.133	105.406	106.297
B 249.678	207.336	207.676	206.881
Ba 389.178	128.016	126.676	127.728
Be 313.042	52.4294	52.3450	52.4639
Ca 370.602	17448	17429	17475
Cd 226.502	53.1745	53.0719	53.0200
Co 228.615	52.4941	52.5675	53.2382
Cr 267.716	105.107	105.467	105.594
Cu 324.754	103.123	103.718	104.604
Fe 271.441	5016.78	5003.12	5023.30
K 766.491	5791.60	5779.63	5804.53
Mg 279.078	7305.77	7286.04	7309.06
Mn 257.610	627.528	626.524	627.415
Mo 202.032	102.637	101.233	100.431
Na 330.237	20732.6	20953.0	21121.8
Ni 231.604	102.038	101.359	102.143
Pb 220.353	52.1941	50.3192	49.9853
Sb 206.834	50.0337	46.3877	48.1997
Se 196.026	98.6402	95.1628	94.5132
Sn 189.925	192.825	193.322	195.068
Sr 216.596	899.254	899.125	900.001
Ti 334.941	99.0205	99.1211	99.2893
Tl 190.794	37.4949	41.5622	40.3073
V 292.401	100.940	101.164	101.848
Zn 206.200	103.696	103.509	106.050

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	16.5519	ppb	0.0502	0.3	1234.90
Al 308.215	5202.64	ppb	9.7068	0.2	11433.4
As 188.980	105.279	ppb	1.0872	1.0	54.5567
B 249.678	207.298	ppb	0.3992	0.2	2585.13
Ba 389.178	127.473	ppb	0.7055	0.6	2780.70
Be 313.042	52.4128	ppb	0.0611	0.1	91742.4
Ca 370.602	17451	ppb	23.17	0.1	47502
Cd 226.502	53.0888	ppb	0.0786	0.1	1854.40
Co 228.615	52.7666	ppb	0.4101	0.8	522.979
Cr 267.716	105.389	ppb	0.2526	0.2	3261.58
Cu 324.754	103.815	ppb	0.7449	0.7	5611.11
Fe 271.441	5014.40	ppb	10.2969	0.2	8316.39
K 766.491	5791.92	ppb	12.4506	0.2	184343
Mg 279.078	7300.29	ppb	12.4514	0.2	14588.1
Mn 257.610	627.156	ppb	0.5503	0.1	145726
Mo 202.032	101.433	ppb	1.1167	1.1	741.005
Na 330.237	20935.8	ppb	195.188	0.9	965.884
Ni 231.604	101.847	ppb	0.4255	0.4	257.132
Pb 220.353	50.8329	ppb	1.1906	2.3	114.443
Sb 206.834	48.2070	ppb	1.8230	3.8	44.7014
Se 196.026	96.1054	ppb	2.2191	2.3	55.0083
Sn 189.925	193.738	ppb	1.1780	0.6	135.781
Sr 216.596	899.460	ppb	0.4729	0.1	8673.28
Ti 334.941	99.1436	ppb	0.1358	0.1	25407.2
Tl 190.794	39.7881	ppb	2.0828	5.2	24.7373
V 292.401	101.317	ppb	0.4731	0.5	2672.11
Zn 206.200	104.419	ppb	1.4160	1.4	138.014

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

mb 680-273192/1-a (Samp) 4/17/2013, 8:15:02 PM Rack 2, Tube 23

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8973u	-0.7205u	-0.6845u
Al 308.215	3.9786	-6.2404u	-2.3219u
As 188.980	-3.7340u	-0.9249u	-2.2307u
B 249.678	-0.2309u	-1.5815u	-0.5573u
Ba 389.178	-2.4981u	-1.1570u	-1.9518u
Be 313.042	-0.5074u	-0.5083u	-0.4920u
Ca 370.602	7.386	12.29	23.10
Cd 226.502	-0.4360u	-0.3248u	-0.4062u
Co 228.615	-0.7460u	-0.6692u	-0.7810u
Cr 267.716	-0.9905u	-0.5965u	-1.1631u
Cu 324.754	-1.2854u	-0.9250u	-0.6045u
Fe 271.441	-2.8894u	-10.9497u	-8.7815u
K 766.491	1.0669	1.0566	2.0835
Mg 279.078	10.9625	14.2140	11.9426
Mn 257.610	-1.1132u	-1.0790u	-0.9423u
Mo 202.032	-0.5335u	-1.2989u	-1.3905u
Na 330.237	145.492	53.5922	-13.9663u
Ni 231.604	-2.2179u	1.4187	-1.6713u
Pb 220.353	1.7566	1.9558	-0.5242u
Sb 206.834	2.4190	-0.2259u	-1.0974u
Se 196.026	-4.1678u	-3.3920u	-9.7207u
Sn 189.925	-4.8057u	-6.6294u	-3.5769u
Sr 216.596	-1.0628u	-1.7910u	-1.8217u
Ti 334.941	-0.4174u	-0.5310u	-0.4660u
Tl 190.794	-1.2506u	1.6027	-4.3638u
V 292.401	-0.8114u	-0.8083u	-0.8419u
Zn 206.200	1.6803	0.4653	1.6527

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7674	ppb	0.1139	14.8	-32.5438
Al 308.215	-1.5279	ppb	5.1555	337.4	-27.5980
As 188.980	-2.2966	ppb	1.4057	61.2	-10.9971
B 249.678	-0.7899	ppb	0.7047	89.2	183.675
Ba 389.178	-1.8690	ppb	0.6744	36.1	-18.8363
Be 313.042	-0.5026	ppb	0.0092	1.8	-262.577
Ca 370.602	14.26	ppb	8.039	56.4	56.76
Cd 226.502	-0.3890	ppb	0.0576	14.8	30.0933
Co 228.615	-0.7321	ppb	0.0572	7.8	-9.1023
Cr 267.716	-0.9167	ppb	0.2904	31.7	-18.9245
Cu 324.754	-0.9383	ppb	0.3407	36.3	162.029
Fe 271.441	-7.5402	ppb	4.1711	55.3	101.937
K 766.491	1.4023	ppb	0.5900	42.1	514.224
Mg 279.078	12.3730	ppb	1.6679	13.5	59.3145
Mn 257.610	-1.0448	ppb	0.0904	8.7	185.718
Mo 202.032	-1.0743	ppb	0.4706	43.8	13.8617
Na 330.237	61.7059	ppb	80.0382	129.7	58.1396
Ni 231.604	-0.8235	ppb	1.9609	238.1	-6.6733
Pb 220.353	1.0627	ppb	1.3780	129.7	29.7336
Sb 206.834	0.3652	ppb	1.8312	501.4	-2.6081
Se 196.026	-5.7602	ppb	3.4518	59.9	7.7228
Sn 189.925	-5.0040	ppb	1.5359	30.7	-8.7500
Sr 216.596	-1.5585	ppb	0.4296	27.6	33.8172
Ti 334.941	-0.4715	ppb	0.0570	12.1	-31.0031
Tl 190.794	-1.3372	ppb	2.9842	223.2	-13.6823
V 292.401	-0.8205	ppb	0.0185	2.3	-5.1321
Zn 206.200	1.2661	ppb	0.6937	54.8	57.6215

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ics 680-273192/2-a (Samp) 4/17/2013, 8:20:38 PM Rack 2, Tube 24
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	31.3446	31.6745	31.3325
Al 308.215	5189.74	5243.06	5231.11
As 188.980	104.217	110.969	109.178
B 249.678	190.279	192.854	195.467
Ba 389.178	102.061	103.849	103.319
Be 313.042	52.3956	52.8637	52.9265
Ca 370.602	4963	5010	5049
Cd 226.502	53.4074	54.0982	54.3109
Co 228.615	52.9888	53.1149	52.9941
Cr 267.716	105.648	106.815	107.521
Cu 324.754	105.060	104.878	107.429
Fe 271.441	5019.33	5059.47	5077.75
K 766.491	4973.24	5014.11	5052.76
Mg 279.078	5054.35	5109.15	5151.76
Mn 257.610	543.937	548.266	549.733
Mo 202.032	100.539	101.744	101.363
Na 330.237	5016.74	5250.86	5633.93
Ni 231.604	105.610	105.570	105.244
Pb 220.353	49.8099	52.2483	56.5790
Sb 206.834	46.6034	46.4495	48.7888
Se 196.026	100.975	105.488	95.3453
Sn 189.925	200.345	203.780	201.185
Sr 216.596	101.526	102.389	103.133
Ti 334.941	99.2544	100.105	100.388
Tl 190.794	41.4552	37.7682	41.0417
V 292.401	101.399	101.930	103.315
Zn 206.200	104.099	105.642	104.631

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	31.4505	ppb	0.1940	0.6	2392.86
Al 308.215	5221.30	ppb	27.9760	0.5	11474.4
As 188.980	108.121	ppb	3.4982	3.2	56.1817
B 249.678	192.866	ppb	2.5939	1.3	2418.14
Ba 389.178	103.076	ppb	0.9184	0.9	2252.09
Be 313.042	52.7286	ppb	0.2901	0.6	92289.4
Ca 370.602	5007	ppb	42.89	0.9	13410
Cd 226.502	53.9388	ppb	0.4724	0.9	1883.36
Co 228.615	53.0326	ppb	0.0713	0.1	525.661
Cr 267.716	106.661	ppb	0.9459	0.9	3300.43
Cu 324.754	105.789	ppb	1.4232	1.3	5713.71
Fe 271.441	5052.18	ppb	29.8832	0.6	8378.16
K 766.491	5013.37	ppb	39.7693	0.8	159627
Mg 279.078	5105.09	ppb	48.8327	1.0	10210.0
Mn 257.610	547.312	ppb	3.0132	0.6	127222
Mo 202.032	101.215	ppb	0.6159	0.6	739.452
Na 330.237	5300.51	ppb	311.578	5.9	284.004
Ni 231.604	105.475	ppb	0.2012	0.2	266.451
Pb 220.353	52.8790	ppb	3.4284	6.5	117.913
Sb 206.834	47.2805	ppb	1.3084	2.8	43.8139
Se 196.026	100.603	ppb	5.0814	5.1	57.0710
Sn 189.925	201.770	ppb	1.7907	0.9	141.612
Sr 216.596	102.349	ppb	0.8043	0.8	1027.71
Ti 334.941	99.9160	ppb	0.5902	0.6	25596.2
Tl 190.794	40.0884	ppb	2.0199	5.0	25.1373
V 292.401	102.215	ppb	0.9890	1.0	2695.99
Zn 206.200	104.791	ppb	0.7836	0.7	138.489

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Cont Calib Verif (CCV) 4/17/2013, 8:26:14 PM Rack 2, Tube 25
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	484.902	487.483	492.005
Al 308.215	4845.25	4935.63	4922.63
As 188.980	480.800	486.386	484.165
B 249.678	501.821	509.425	510.295
Ba 389.178	5085.90	5137.58	5121.73
Be 313.042	513.835	518.403	515.999
Ca 370.602	4936	5002	5004
Cd 226.502	515.680	521.510	519.978
Co 228.615	520.577	527.896	523.559
Cr 267.716	5118.13	5193.87	5192.10
Cu 324.754	5228.02	5097.80	5162.68
Fe 271.441	4958.26	4995.17	4994.23
K 766.491	9831.44	9926.84	9914.40
Mg 279.078	4966.31	5029.05	5031.08
Mn 257.610	5209.23	5265.25	5250.13
Mo 202.032	491.329	495.584	496.111
Na 330.237	7460.37	7335.06	7372.52
Ni 231.604	2613.06	2641.88	2628.28
Pb 220.353	501.649	505.651	502.544
Sb 206.834	912.965	933.646	935.559
Se 196.026	4970.97	5056.56	5022.58
Sn 189.925	4959.85	5020.21	5041.04
Sr 216.596	2508.78	2542.04	2534.17
Ti 334.941	490.684	496.150	495.629
Tl 190.794	5024.84	5082.96	5074.47
V 292.401	4940.47	4999.97	4979.14
Zn 206.200	2598.09	2619.79	2602.23

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	488.130	ppb	3.5952	0.7	36737.2	97.62602
Al 308.215	4901.17	ppb	48.8629	1.0	10756.4	98.02346
As 188.980	483.784	ppb	2.8124	0.6	284.756	96.75677
B 249.678	507.180	ppb	4.6620	0.9	6054.27	20.28722Q
Ba 389.178	5115.07	ppb	26.4762	0.5	109781	102.30135
Be 313.042	516.079	ppb	2.2852	0.4	897835	103.21577
Ca 370.602	4981	ppb	38.91	0.8	13553	99.61552
Cd 226.502	519.056	ppb	3.0224	0.6	17653.5	103.81120
Co 228.615	524.011	ppb	3.6802	0.7	5224.90	104.80212
Cr 267.716	5168.03	ppb	43.2282	0.8	159379	103.36063
Cu 324.754	5162.83	ppb	65.1059	1.3	268567	103.25664
Fe 271.441	4982.55	ppb	21.0459	0.4	8377.99	99.65102
K 766.491	9890.90	ppb	51.8603	0.5	314472	98.90896
Mg 279.078	5008.81	ppb	36.8238	0.7	9946.74	100.17628
Mn 257.610	5241.54	ppb	28.9826	0.6	1214350	104.83071
Mo 202.032	494.342	ppb	2.6220	0.5	3520.80	98.86833
Na 330.237	7389.32	ppb	64.3214	0.9	356.751	98.52424
Ni 231.604	2627.74	ppb	14.4179	0.5	6744.70	105.10955
Pb 220.353	503.281	ppb	2.1002	0.4	885.605	100.65626
Sb 206.834	927.390	ppb	12.5291	1.4	958.621	92.73899
Se 196.026	5016.70	ppb	43.0945	0.9	2333.39	100.33408
Sn 189.925	5007.03	ppb	42.1668	0.8	3635.83	100.14069
Sr 216.596	2528.33	ppb	17.3830	0.7	24242.4	101.13309
Ti 334.941	494.154	ppb	3.0167	0.6	126154	98.83086
Tl 190.794	5060.76	ppb	31.3926	0.6	4845.64	101.21516
V 292.401	4973.19	ppb	30.1901	0.6	131162	99.46389
Zn 206.200	2606.70	ppb	11.5195	0.4	3343.27	104.26803

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

Cont Calib Blank (CCB) 4/17/2013, 8:31:49 PM Rack 2, Tube 26

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7933u	-0.6827u	-0.5308u
Al 308.215	-5.3420u	-5.1333u	-5.7555u
As 188.980	9.3727	-3.7854u	-3.8639u
B 249.678	2.8234	2.6161	1.7853
Ba 389.178	-0.4894u	-0.1150u	-0.2710u
Be 313.042	-0.4555u	-0.4257u	-0.3764u
Ca 370.602	-1.923u	2.554	3.826
Cd 226.502	-0.4104u	-0.1122u	-0.0099u
Co 228.615	0.0216	0.6230	0.2207
Cr 267.716	-0.3111u	-0.1006u	0.1945
Cu 324.754	-0.4420u	0.2281	0.6158
Fe 271.441	-19.2480u	-11.4893u	-7.7385u
K 766.491	-1.8258u	-0.8789u	0.4709
Mg 279.078	-1.5463u	5.3925	6.3772
Mn 257.610	-0.6564u	-0.1513u	0.3255
Mo 202.032	-0.4203u	-0.5945u	-0.4888u
Na 330.237	3.1950	199.480	141.122
Ni 231.604	0.1846	-1.5921u	-0.1526u
Pb 220.353	3.2675	-0.1911u	2.7572
Sb 206.834	-1.7427u	-1.0805u	3.5499
Se 196.026	-0.6329u	-2.9238u	2.3266
Sn 189.925	-0.9621u	-4.2022u	-0.6086u
Sr 216.596	-2.0179u	-1.7727u	-1.5054u
Ti 334.941	-0.3710u	-0.3251u	-0.2911u
Tl 190.794	-0.4128u	0.5633	2.6459
V 292.401	-0.0718u	0.4117	1.1144
Zn 206.200	-3.1331u	-1.3042u	-1.3213u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.6689	ppb	0.1318	19.7	-25.1126	-0.66893
Al 308.215	-5.4103	ppb	0.3167	5.9	-36.1102	-5.41027
As 188.980	0.5745	ppb	7.6196	1326.4	-9.2498	0.57446
B 249.678	2.4083	ppb	0.5494	22.8	220.679	2.40828
Ba 389.178	-0.2918	ppb	0.1881	64.5	14.9748	-0.29178
Be 313.042	-0.4192	ppb	0.0399	9.5	-117.765	-0.41919
Ca 370.602	1.485	ppb	3.020	203.3	22.15	1.48545
Cd 226.502	-0.1775	ppb	0.2081	117.3	37.2551	-0.17747
Co 228.615	0.2884	ppb	0.3064	106.2	1.0393	0.28845
Cr 267.716	-0.0724	ppb	0.2539	350.8	7.1080	-0.07239
Cu 324.754	0.1340	ppb	0.5352	399.5	217.781	0.13397
Fe 271.441	-12.8253	ppb	5.8699	45.8	93.3195	-12.82525
K 766.491	-0.7446	ppb	1.1542	155.0	446.066	-0.74461
Mg 279.078	3.4078	ppb	4.3185	126.7	41.4166	3.40779
Mn 257.610	-0.1607	ppb	0.4910	305.5	390.394	-0.16075
Mo 202.032	-0.5012	ppb	0.0878	17.5	17.9270	-0.50121
Na 330.237	114.599	ppb	100.795	88.0	60.4668	114.59918
Ni 231.604	-0.5201	ppb	0.9436	181.5	-5.8940	-0.52006
Pb 220.353	1.9445	ppb	1.8670	96.0	31.2353	1.94451
Sb 206.834	0.2422	ppb	2.8836	1190.5	-2.7296	0.24223
Se 196.026	-0.4100	ppb	2.6323	642.0	10.1991	-0.41003
Sn 189.925	-1.9243	ppb	1.9806	102.9	-6.5106	-1.92428
Sr 216.596	-1.7653	ppb	0.2563	14.5	31.8008	-1.76533
Ti 334.941	-0.3291	ppb	0.0401	12.2	5.2620	-0.32909
Tl 190.794	0.9322	ppb	1.5623	167.6	-11.5021	0.93217
V 292.401	0.4848	ppb	0.5964	123.0	29.1732	0.48477
Zn 206.200	-1.9195	ppb	1.0510	54.8	45.5221	-1.91952

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

ics 680-273192/3-a (Samp) 4/17/2013, 8:37:24 PM Rack 2, Tube 27

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	198.779	203.053	202.314
Al 308.215	2066.65	2076.75	2087.87
As 188.980	204.346	211.571	230.692
B 249.678	389.993	395.372	394.300
Ba 389.178	202.662	202.850	202.690
Be 313.042	210.429	211.169	210.919
Ca 370.602	20050	20113	20118
Cd 226.502	211.936	213.241	211.770
Co 228.615	212.372	214.459	212.972
Cr 267.716	206.530	208.352	208.949
Cu 324.754	208.541	212.645	214.238
Fe 271.441	20916.0	20966.5	20939.4
K 766.491	20478.5	20446.0	20436.3
Mg 279.078	20355.3	20450.6	20425.9
Mn 257.610	2181.78	2189.38	2184.36
Mo 202.032	199.298	201.428	200.981
Na 330.237	18425.5	18408.4	17850.6
Ni 231.604	208.191	208.839	209.462
Pb 220.353	205.105	204.167	204.821
Sb 206.834	190.674	195.584	191.897
Se 196.026	199.828	200.922	203.048
Sn 189.925	198.078	196.824	194.486
Sr 216.596	213.063	215.096	216.878
Ti 334.941	198.925	199.599	199.577
Tl 190.794	42.1832	43.0186	40.9848
V 292.401	205.154	205.894	205.589
Zn 206.200	196.701	198.957	198.161

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	201.382	ppb	2.2841	1.1	15196.8
Al 308.215	2077.09	ppb	10.6099	0.5	4557.12
As 188.980	215.536	ppb	13.6129	6.3	121.509
B 249.678	393.222	ppb	2.8474	0.7	4717.56
Ba 389.178	202.734	ppb	0.1011	0.0	4448.59
Be 313.042	210.839	ppb	0.3761	0.2	367227
Ca 370.602	20094	ppb	38.18	0.2	53675
Cd 226.502	212.316	ppb	0.8056	0.4	7288.62
Co 228.615	213.268	ppb	1.0743	0.5	2120.62
Cr 267.716	207.944	ppb	1.2599	0.6	6429.69
Cu 324.754	211.808	ppb	2.9395	1.4	11231.9
Fe 271.441	20940.6	ppb	25.2839	0.1	34363.3
K 766.491	20453.6	ppb	22.1107	0.1	649801
Mg 279.078	20410.6	ppb	49.4492	0.2	40722.0
Mn 257.610	2185.17	ppb	3.8656	0.2	506665
Mo 202.032	200.569	ppb	1.1233	0.6	1443.67
Na 330.237	18228.2	ppb	327.064	1.8	842.478
Ni 231.604	208.831	ppb	0.6352	0.3	532.235
Pb 220.353	204.698	ppb	0.4812	0.2	376.776
Sb 206.834	192.718	ppb	2.5559	1.3	188.237
Se 196.026	201.266	ppb	1.6375	0.8	104.024
Sn 189.925	196.462	ppb	1.8230	0.9	137.762
Sr 216.596	215.012	ppb	1.9086	0.9	2110.59
Ti 334.941	199.367	ppb	0.3833	0.2	51026.8
Tl 190.794	42.0622	ppb	1.0223	2.4	24.0265
V 292.401	205.546	ppb	0.3718	0.2	5405.68
Zn 206.200	197.939	ppb	1.1442	0.6	258.021

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640-43129-c-1-a (Samp) 4/17/2013, 8:42:59 PM Rack 2, Tube 28

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9600u	-1.0641u	-0.7705u
Al 308.215	75.9468	71.4612	74.7212
As 188.980	-2.3191	-1.6611	5.4490
B 249.678	295.899	295.632	297.645
Ba 389.178	852.492	851.832	850.368
Be 313.042	-0.5635u	-0.5566u	-0.5209u
Ca 370.602	235950	235696	235041
Cd 226.502	-0.0877	-0.0820	0.0018
Co 228.615	0.9121	-0.3366u	-0.4197u
Cr 267.716	-0.9333u	-0.7538u	-0.6816u
Cu 324.754	-0.9029u	-1.5413u	-1.2154u
Fe 271.441	27202.2	27196.4	27133.0
K 766.491	19475.3	19404.8	19279.3
Mg 279.078	93205.0	93275.6	93185.4
Mn 257.610	1108.88	1110.32	1108.97
Mo 202.032	-0.9476u	-1.2953u	-0.2313u
Na 330.237	550235x	550206x	543394x
Ni 231.604	0.0429	0.4616	-0.4938u
Pb 220.353	3.1681	4.2784	3.4683
Sb 206.834	-0.8301u	1.0868	-2.4725u
Se 196.026	-3.3170u	5.4964	7.1042
Sn 189.925	-5.5835u	-2.5910u	-4.5480u
Sr 216.596	1420.59	1422.37	1422.10
Ti 334.941	0.3225	0.3452	0.3515
Tl 190.794	0.3843u	-3.3690u	-2.7763u
V 292.401	-0.1232u	0.0482u	-0.2200u
Zn 206.200	4.2650	2.8165	2.3636

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9315b	ppb	0.1489	16.0	-106.959
Al 308.215	74.0431b	ppb	2.3184	3.1	138.759
As 188.980	0.4896b	ppb	4.3076	879.8	-7.5857
B 249.678	296.392b	ppb	1.0934	0.4	3590.17
Ba 389.178	851.564b	ppb	1.0870	0.1	18550.3
Be 313.042	-0.5470b	ppb	0.0229	4.2	-322.906
Ca 370.602	235562b	ppb	468.5	0.2	643428
Cd 226.502	-0.0560b	ppb	0.0501	89.5	100.140
Co 228.615	0.0519b	ppb	0.7461	1436.8	-2.0411
Cr 267.716	-0.7896b	ppb	0.1296	16.4	-1.9534
Cu 324.754	-1.2199b	ppb	0.3192	26.2	155.785
Fe 271.441	27177.2b	ppb	38.3977	0.1	44519.9
K 766.491	19386.5b	ppb	99.2636	0.5	615923
Mg 279.078	93222.0b	ppb	47.4376	0.1	185993
Mn 257.610	1109.39b	ppb	0.8061	0.1	257968
Mo 202.032	-0.8247b	ppb	0.5425	65.8	14.2932
Na 330.237	547945xb	ppb	3941.20	0.7	23944.6
Ni 231.604	0.0035b	ppb	0.4789	13556.4	-3.9956
Pb 220.353	3.6383b	ppb	0.5744	15.8	34.3678
Sb 206.834	-0.7386b	ppb	1.7814	241.2	-3.0810
Se 196.026	3.0946b	ppb	5.6104	181.3	12.0535
Sn 189.925	-4.2408b	ppb	1.5197	35.8	-7.9497
Sr 216.596	1421.69b	ppb	0.9587	0.1	13714.6
Ti 334.941	0.3398b	ppb	0.0152	4.5	525.528
Tl 190.794	-1.9203b	ppb	2.0177	105.1	-17.1567
V 292.401	-0.0983b	ppb	0.1358	138.1	11.1729
Zn 206.200	3.1484b	ppb	0.9932	293.5	48.0411

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640-43129-c-1-b ms (Samp) 4/17/2013, 8:48:34 PM Rack 2, Tube 29

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	23.9748	23.8159	23.8067
Al 308.215	5699.73	5674.20	5681.97
As 188.980	120.159	115.010	118.563
B 249.678	493.211	497.778	499.039
Ba 389.178	958.537	956.674	954.363
Be 313.042	53.4002	53.3402	53.1195
Ca 370.602	239292	238857	238215
Cd 226.502	53.3942	53.3850	53.7878
Co 228.615	52.2295	52.1444	53.3514
Cr 267.716	105.096	104.439	105.015
Cu 324.754	110.120	110.273	109.043
Fe 271.441	31319.2	31267.9	31186.6
K 766.491	26190.4	26171.8	26085.5
Mg 279.078	96944.4	96934.4	96801.9
Mn 257.610	1665.03	1665.44	1661.20
Mo 202.032	101.084	100.788	100.244
Na 330.237	539684x	536333x	537703x
Ni 231.604	104.600	103.164	103.352
Pb 220.353	49.9175	56.2996	53.8090
Sb 206.834	45.1028	49.6773	47.6551
Se 196.026	108.625	113.952	105.587
Sn 189.925	199.054	195.959	197.053
Sr 216.596	1509.04	1511.18	1508.20
Ti 334.941	100.803	99.9343	100.466
Tl 190.794	38.6550	39.0544	35.2218
V 292.401	103.611	103.638	102.543
Zn 206.200	107.475	103.728	105.238

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	23.8658b	ppb	0.0945	0.4	1760.42
Al 308.215	5685.30b	ppb	13.0852	0.2	12495.9
As 188.980	117.911b	ppb	2.6355	2.2	63.8438
B 249.678	496.676b	ppb	3.0661	0.6	5902.42
Ba 389.178	956.525b	ppb	2.0906	0.2	20816.9
Be 313.042	53.2866b	ppb	0.1478	0.3	93277.4
Ca 370.602	238788b	ppb	542.1	0.2	652007
Cd 226.502	53.5223b	ppb	0.2299	0.4	1925.92
Co 228.615	52.5751b	ppb	0.6736	1.3	520.392
Cr 267.716	104.850b	ppb	0.3587	0.3	3257.33
Cu 324.754	109.812b	ppb	0.6706	0.6	5930.96
Fe 271.441	31257.9b	ppb	66.8402	0.2	51196.3
K 766.491	26149.2b	ppb	55.9985	0.2	830618
Mg 279.078	96893.5b	ppb	79.5450	0.1	193308
Mn 257.610	1663.89b	ppb	2.3410	0.1	386417
Mo 202.032	100.705b	ppb	0.4263	0.4	734.541
Na 330.237	537907xb	ppb	1684.84	0.3	23504.5
Ni 231.604	103.705b	ppb	0.7808	0.8	262.440
Pb 220.353	53.3420b	ppb	3.2166	6.0	118.946
Sb 206.834	47.4784b	ppb	2.2923	4.8	44.5939
Se 196.026	109.388b	ppb	4.2344	3.9	61.3718
Sn 189.925	197.355b	ppb	1.5694	0.8	138.642
Sr 216.596	1509.47b	ppb	1.5319	0.1	14553.3
Ti 334.941	100.401b	ppb	0.4380	0.4	26064.7
Tl 190.794	37.6437b	ppb	2.1070	5.6	19.9126
V 292.401	103.264b	ppb	0.6243	0.6	2721.11
Zn 206.200	105.480b	ppb	1.8854	1.8	139.378

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640-43129-c-1-c msd (Samp) 4/17/2013, 8:54:09 PM Rack 2, Tube 30

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	108.152	107.887	108.277
Al 308.215	5981.06	5941.41	5915.02
As 188.980	118.374	120.416	112.710
B 249.678	514.336	517.915	519.207
Ba 389.178	994.373	994.770	994.881
Be 313.042	55.2501	55.2008	55.1995
Ca 370.602	248140	247238	247400
Cd 226.502	55.3611	55.4467	55.4676
Co 228.615	54.0636	55.3594	55.7750
Cr 267.716	109.443	108.158	108.360
Cu 324.754	113.944	114.214	113.601
Fe 271.441	32261.3	32221.2	32273.7
K 766.491	27186.9	27146.9	27113.9
Mg 279.078	100125	100106	100348
Mn 257.610	1729.18	1730.01	1733.08
Mo 202.032	103.941	103.172	104.736
Na 330.237	554813x	555308x	556844x
Ni 231.604	109.400	105.528	108.102
Pb 220.353	53.9136	58.1783	53.3677
Sb 206.834	54.0565	49.7942	59.9275
Se 196.026	116.498	115.921	110.076
Sn 189.925	206.370	206.678	200.272
Sr 216.596	1564.13	1560.91	1562.87
Ti 334.941	103.824	103.715	103.545
Tl 190.794	40.6033	34.3775	35.1400
V 292.401	107.418	107.286	107.220
Zn 206.200	110.772	109.352	111.580

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	108.105b	ppb	0.1989	0.2	8104.35
Al 308.215	5945.83b	ppb	33.2384	0.6	13069.5
As 188.980	117.167b	ppb	3.9922	3.4	63.4532
B 249.678	517.152b	ppb	2.5235	0.5	6138.19
Ba 389.178	994.674b	ppb	0.2672	0.0	21644.5
Be 313.042	55.2168b	ppb	0.0288	0.1	96634.1
Ca 370.602	247593b	ppb	480.7	0.2	676060
Cd 226.502	55.4252b	ppb	0.0564	0.1	1992.53
Co 228.615	55.0660b	ppb	0.8926	1.6	545.162
Cr 267.716	108.654b	ppb	0.6913	0.6	3375.14
Cu 324.754	113.920b	ppb	0.3072	0.3	6144.82
Fe 271.441	32252.1b	ppb	27.4408	0.1	52821.0
K 766.491	27149.2b	ppb	36.5250	0.1	862365
Mg 279.078	100193b	ppb	134.548	0.1	199889
Mn 257.610	1730.75b	ppb	2.0545	0.1	401923
Mo 202.032	103.950b	ppb	0.7823	0.8	757.512
Na 330.237	555655xb	ppb	1059.07	0.2	24278.2
Ni 231.604	107.677b	ppb	1.9705	1.8	272.660
Pb 220.353	55.1532b	ppb	2.6340	4.8	122.039
Sb 206.834	54.5928b	ppb	5.0879	9.3	51.6311
Se 196.026	114.165b	ppb	3.5528	3.1	63.5975
Sn 189.925	204.440b	ppb	3.6131	1.8	143.802
Sr 216.596	1562.64b	ppb	1.6244	0.1	15064.2
Ti 334.941	103.695b	ppb	0.1408	0.1	26917.0
Tl 190.794	36.7069b	ppb	3.3958	9.3	18.8718
V 292.401	107.308b	ppb	0.1008	0.1	2827.24
Zn 206.200	110.568b	ppb	1.1280	1.0	145.912

640-43129-c-1-a^10 (Samp) 4/17/2013, 8:59:44 PM Rack 2, Tube 31

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8943u	-0.8058u	-0.9202u
Al 308.215	8.8214	9.0699	7.0818
As 188.980	-1.2598u	2.5934	-4.9711u
B 249.678	33.2377	32.0845	31.3758
Ba 389.178	83.6634	83.6323	83.2839
Be 313.042	-0.5054u	-0.4926u	-0.4794u
Ca 370.602	23823	23980	23741
Cd 226.502	-0.4028u	-0.4215u	-0.6888u
Co 228.615	-0.8823u	-0.2850u	-1.6909u
Cr 267.716	-0.6438u	-0.7459u	-0.3652u
Cu 324.754	-0.7666u	-0.7804u	-0.9948u
Fe 271.441	2802.63	2825.42	2806.50
K 766.491	1408.74	1425.20	1416.72
Mg 279.078	9265.39	9319.50	9258.81
Mn 257.610	112.852	113.843	113.392
Mo 202.032	-0.9218u	-0.4298u	-0.6748u
Na 330.237	45650.2	45992.7	45924.5
Ni 231.604	-0.7137u	-0.5967u	-2.3187u
Pb 220.353	3.7088	2.1269	2.9674
Sb 206.834	1.3074	-2.2918u	-1.7769u
Se 196.026	-1.3341u	-5.8202u	-5.7603u
Sn 189.925	-6.6050u	-1.3084u	-3.1362u
Sr 216.596	144.860	146.057	143.562
Ti 334.941	-0.3589u	-0.3587u	-0.3937u
Tl 190.794	-1.2284u	0.6591	-2.4382u
V 292.401	-0.8798u	-0.8699u	-0.8559u
Zn 206.200	-1.1430u	-0.4563u	-1.7512u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8734	ppb	0.0600	6.9	-46.8684
Al 308.215	8.3244	ppb	1.0832	13.0	-5.8818
As 188.980	-1.2125	ppb	3.7825	312.0	-10.1640
B 249.678	32.2327	ppb	0.9398	2.9	562.437
Ba 389.178	83.5266	ppb	0.2107	0.3	1839.21
Be 313.042	-0.4925	ppb	0.0130	2.6	-242.343
Ca 370.602	23848	ppb	121.2	0.5	65151
Cd 226.502	-0.5044	ppb	0.1600	31.7	32.3169
Co 228.615	-0.9527	ppb	0.7056	74.1	-11.3943
Cr 267.716	-0.5850	ppb	0.1970	33.7	-7.4592
Cu 324.754	-0.8473	ppb	0.1279	15.1	167.647
Fe 271.441	2811.52	ppb	12.1946	0.4	4708.06
K 766.491	1416.89	ppb	8.2314	0.6	45451.1
Mg 279.078	9281.23	ppb	33.3037	0.4	18548.7
Mn 257.610	113.362	ppb	0.4963	0.4	26742.9
Mo 202.032	-0.6755	ppb	0.2460	36.4	16.5537
Na 330.237	45855.8	ppb	181.283	0.4	2054.53
Ni 231.604	-1.2097	ppb	0.9622	79.5	-7.6078
Pb 220.353	2.9344	ppb	0.7914	27.0	32.9478
Sb 206.834	-0.9204	ppb	1.9465	211.5	-3.8145
Se 196.026	-4.3049	ppb	2.5730	59.8	8.4203
Sn 189.925	-3.6832	ppb	2.6903	73.0	-7.7675
Sr 216.596	144.826	ppb	1.2474	0.9	1440.88
Ti 334.941	-0.3704	ppb	0.0201	5.4	30.1204
Tl 190.794	-1.0025	ppb	1.5609	155.7	-13.6619
V 292.401	-0.8685	ppb	0.0120	1.4	-6.7287
Zn 206.200	-1.1169	ppb	0.6478	58.0	-2.5564

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

640-43129-c-1-b ms (Samp) 4/17/2013, 9:05:19 PM Rack 2, Tube 32

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.0583	1.1245	1.6602
Al 308.215	544.519	542.610	534.542
As 188.980	10.5439	12.7496	11.6905
B 249.678	43.6350	46.2421	44.8680
Ba 389.178	94.2459	93.4549	94.0049
Be 313.042	4.9860	5.0114	4.9779
Ca 370.602	24125	24227	24043
Cd 226.502	5.2105	4.9020	5.1241
Co 228.615	4.9037	4.5578	4.7018
Cr 267.716	9.6450	9.6378	9.7374
Cu 324.754	9.6972	9.4238	9.8944
Fe 271.441	3228.93	3244.51	3228.74
K 766.491	1897.52	1914.48	1905.06
Mg 279.078	9658.72	9696.62	9657.87
Mn 257.610	169.033	169.708	169.217
Mo 202.032	9.1532	9.5430	9.1360
Na 330.237	44885.3	45120.5	45113.7
Ni 231.604	9.9765	10.0444	10.9266
Pb 220.353	9.9035	7.9650	6.0678
Sb 206.834	4.9833	1.6258	2.4507
Se 196.026	3.7300	-1.0394u	2.5896
Sn 189.925	17.3051	15.9206	13.6906
Sr 216.596	153.981	153.693	152.735
Ti 334.941	9.6441	9.7587	9.6020
Tl 190.794	3.4406	2.7194	-3.6542u
V 292.401	9.0791	9.4695	8.9926
Zn 206.200	12.7175	12.9386	11.3526

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.2810	ppb	0.3300	25.8	115.365
Al 308.215	540.557	ppb	5.2962	1.0	1166.22
As 188.980	11.6613	ppb	1.1031	9.5	-2.3321
B 249.678	44.9150	ppb	1.3042	2.9	708.665
Ba 389.178	93.9019	ppb	0.4054	0.4	2063.34
Be 313.042	4.9918	ppb	0.0175	0.4	9293.09
Ca 370.602	24132	ppb	92.34	0.4	65901
Cd 226.502	5.0789	ppb	0.1591	3.1	222.563
Co 228.615	4.7211	ppb	0.1737	3.7	45.0538
Cr 267.716	9.6734	ppb	0.0555	0.6	309.051
Cu 324.754	9.6718	ppb	0.2363	2.4	714.800
Fe 271.441	3234.06	ppb	9.0473	0.3	5399.32
K 766.491	1905.68	ppb	8.4963	0.4	60968.6
Mg 279.078	9671.07	ppb	22.1320	0.2	19325.4
Mn 257.610	169.319	ppb	0.3487	0.2	39705.4
Mo 202.032	9.2774	ppb	0.2301	2.5	87.1579
Na 330.237	45039.8	ppb	133.861	0.3	2018.69
Ni 231.604	10.3158	ppb	0.5300	5.1	22.0034
Pb 220.353	7.9788	ppb	1.9179	24.0	41.5323
Sb 206.834	3.0199	ppb	1.7497	57.9	0.0870
Se 196.026	1.7601	ppb	2.4905	141.5	11.2398
Sn 189.925	15.6388	ppb	1.8236	11.7	6.2826
Sr 216.596	153.470	ppb	0.6520	0.4	1523.45
Ti 334.941	9.6682	ppb	0.0811	0.8	2592.41
Tl 190.794	0.8352	ppb	3.9047	467.5	-11.9924
V 292.401	9.1804	ppb	0.2541	2.8	256.715
Zn 206.200	12.3362	ppb	0.8590	7.0	19.8315

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

640-43129-c-1-c msd (Samp) 4/17/2013, 9:10:55 PM Rack 2, Tube 33

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	9.3821	9.7703	9.9976
Al 308.215	555.919	562.334	554.987
As 188.980	10.2081	6.9476	5.9572
B 249.678	44.7379	44.0143	45.0077
Ba 389.178	98.5507	96.7978	97.1144
Be 313.042	5.1631	5.1562	5.1655
Ca 370.602	24694	24710	24715
Cd 226.502	5.4635	5.2240	5.0742
Co 228.615	5.5416	5.6580	4.5760
Cr 267.716	10.0120	10.1752	10.2691
Cu 324.754	10.0958	10.9697	9.8820
Fe 271.441	3335.71	3330.87	3336.72
K 766.491	1956.66	1963.04	1965.16
Mg 279.078	9972.63	9966.44	9991.98
Mn 257.610	175.655	175.725	175.825
Mo 202.032	9.3419	9.5378	9.8505
Na 330.237	46389.5	46065.7	46084.5
Ni 231.604	10.9762	12.5254	10.4775
Pb 220.353	6.0357	7.5919	8.5300
Sb 206.834	6.4752	9.3331	5.2864
Se 196.026	14.8539	3.2304	13.8150
Sn 189.925	17.5444	15.7510	17.8976
Sr 216.596	159.336	158.701	158.524
Ti 334.941	9.9832	10.0364	10.0894
Tl 190.794	2.6485	-2.3178u	4.1005
V 292.401	9.7896	10.0057	9.5963
Zn 206.200	8.2402	8.9693	11.2753

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.7167	ppb	0.3113	3.2	750.642
Al 308.215	557.747	ppb	4.0003	0.7	1204.06
As 188.980	7.7043	ppb	2.2242	28.9	-4.7373
B 249.678	44.5866	ppb	0.5137	1.2	704.754
Ba 389.178	97.4877	ppb	0.9342	1.0	2141.13
Be 313.042	5.1616	ppb	0.0049	0.1	9588.48
Ca 370.602	24706	ppb	11.33	0.0	67469
Cd 226.502	5.2539	ppb	0.1964	3.7	228.712
Co 228.615	5.2585	ppb	0.5939	11.3	50.4068
Cr 267.716	10.1521	ppb	0.1301	1.3	323.853
Cu 324.754	10.3158	ppb	0.5762	5.6	748.308
Fe 271.441	3334.43	ppb	3.1251	0.1	5563.44
K 766.491	1961.62	ppb	4.4230	0.2	62744.3
Mg 279.078	9977.02	ppb	13.3209	0.1	19935.7
Mn 257.610	175.735	ppb	0.0856	0.0	41193.2
Mo 202.032	9.5767	ppb	0.2565	2.7	89.2766
Na 330.237	46179.9	ppb	181.807	0.4	2068.40
Ni 231.604	11.3263	ppb	1.0679	9.4	24.6008
Pb 220.353	7.3858	ppb	1.2599	17.1	40.5225
Sb 206.834	7.0316	ppb	2.0799	29.6	4.0399
Se 196.026	10.6331	ppb	6.4320	60.5	15.3477
Sn 189.925	17.0643	ppb	1.1510	6.7	7.3197
Sr 216.596	158.854	ppb	0.4272	0.3	1575.16
Ti 334.941	10.0363	ppb	0.0531	0.5	2687.49
Tl 190.794	1.4771	ppb	3.3657	227.9	-11.3889
V 292.401	9.7972	ppb	0.2048	2.1	272.970
Zn 206.200	9.4949	ppb	1.5843	16.7	161765

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640-43129-c-2-a (Samp) 4/17/2013, 9:16:31 PM Rack 2, Tube 34

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9095u	-0.8056u	-0.9310u
Al 308.215	6.0464	-0.8492u	0.9451
As 188.980	-4.6106u	1.5028	0.6065
B 249.678	316.957	317.428	318.397
Ba 389.178	736.413	737.225	735.381
Be 313.042	-0.5744u	-0.5874u	-0.5838u
Ca 370.602	194110	193764	192764
Cd 226.502	-0.2307	-0.2893	-0.3082
Co 228.615	-1.5835u	-0.9716u	-0.2282u
Cr 267.716	-1.2220u	-0.9797u	-1.3713u
Cu 324.754	-1.3181u	-1.0938u	-1.0374u
Fe 271.441	15572.4	15546.6	15516.0
K 766.491	17437.1	17442.6	17453.9
Mg 279.078	114727	114586	114473
Mn 257.610	450.956	450.439	449.425
Mo 202.032	-0.6310u	-0.7180u	-0.4225u
Na 330.237	337714x	334918x	335380x
Ni 231.604	0.4984	1.8527	0.9837
Pb 220.353	3.1025	4.4438	5.5709
Sb 206.834	-1.7355u	1.5554	-0.8435u
Se 196.026	-1.0904u	-1.4353u	-3.7528u
Sn 189.925	-4.7098u	-0.8240u	-5.0050u
Sr 216.596	1479.87	1476.03	1476.17
Ti 334.941	-1.9894u	-2.0186u	-2.0648u
Tl 190.794	-3.4683u	-5.9689u	-1.1827u
V 292.401	-1.0388u	-1.2351u	-0.8815u
Zn 206.200	0.9794	-0.5614u	0.4765

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8820b	ppb	0.0671	7.6	-108.734
Al 308.215	2.0474b	ppb	3.5776	174.7	-19.6975
As 188.980	-0.8338b	ppb	3.3014	395.9	-8.6317
B 249.678	317.594b	ppb	0.7346	0.2	3848.93
Ba 389.178	736.340b	ppb	0.9246	0.1	16114.9
Be 313.042	-0.5819b	ppb	0.0067	1.2	-376.666
Ca 370.602	193546b	ppb	698.9	0.4	529133
Cd 226.502	-0.2761b	ppb	0.0404	14.6	68.0860
Co 228.615	-0.9278b	ppb	0.6787	73.2	-11.5157
Cr 267.716	-1.1910b	ppb	0.1976	16.6	-20.1807
Cu 324.754	-1.1498b	ppb	0.1485	12.9	155.856
Fe 271.441	15545.0b	ppb	28.2157	0.2	25513.5
K 766.491	17444.5b	ppb	8.5574	0.0	554273
Mg 279.078	114595b	ppb	127.516	0.1	228638
Mn 257.610	450.273b	ppb	0.7785	0.2	105417
Mo 202.032	-0.5905b	ppb	0.1519	25.7	16.5311
Na 330.237	336004xb	ppb	1498.88	0.4	14704.8
Ni 231.604	1.1116b	ppb	0.6861	61.7	-1.3869
Pb 220.353	4.3724b	ppb	1.2357	28.3	35.4739
Sb 206.834	-0.3412b	ppb	1.7020	498.8	-2.9651
Se 196.026	-2.0928b	ppb	1.4479	69.2	9.5109
Sn 189.925	-3.5129b	ppb	2.3334	66.4	-7.4970
Sr 216.596	1477.35b	ppb	2.1799	0.1	14240.2
Ti 334.941	-2.0242b	ppb	0.0380	1.9	23.0882
Tl 190.794	-3.5400b	ppb	2.3939	67.6	-17.2091
V 292.401	-1.0518b	ppb	0.1771	16.8	-12.3951
Zn 206.200	0.2982b	ppb	0.7857	263.5	4.3772

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640-43129-c-2-a^10 (Samp) 4/17/2013, 9:22:07 PM Rack 2, Tube 35

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4863u	-0.9062u	-0.8252u
Al 308.215	-1.1575u	0.9388	1.0144
As 188.980	-4.8229u	-3.7608u	0.3086
B 249.678	28.7546	28.4701	29.1848
Ba 389.178	71.0541	70.0794	71.0755
Be 313.042	-0.5489u	-0.5528u	-0.5332u
Ca 370.602	19415	19351	19454
Cd 226.502	-0.4355u	-0.2470u	-0.4590u
Co 228.615	-0.4446u	-0.9478u	-0.5957u
Cr 267.716	-1.2006u	-1.0722u	-0.8880u
Cu 324.754	-1.6465u	-0.6374u	-0.8781u
Fe 271.441	1561.25	1568.49	1568.36
K 766.491	1320.95	1322.46	1331.19
Mg 279.078	11210.9	11181.3	11232.6
Mn 257.610	44.3281	44.3457	44.5696
Mo 202.032	-0.3638u	-1.2024u	-1.1401u
Na 330.237	28352.5	28429.9	28382.5
Ni 231.604	-0.0916u	-1.5005u	-0.9487u
Pb 220.353	-0.3266u	2.2330	3.7389
Sb 206.834	-1.7078u	0.7896	-0.0756u
Se 196.026	-10.6284u	4.0359	-0.5071u
Sn 189.925	-3.1667u	-6.9631u	-7.8489u
Sr 216.596	148.280	147.758	148.409
Ti 334.941	-0.7205u	-0.6789u	-0.7097u
Tl 190.794	-2.0732u	-0.0073u	-7.2038u
V 292.401	-1.2878u	-1.1187u	-1.0431u
Zn 206.200	-1.8061u	-1.9042u	-0.7846u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7392	ppb	0.2228	30.1	-37.2341
Al 308.215	0.2652	ppb	1.2327	464.8	-23.6499
As 188.980	-2.7584	ppb	2.7086	98.2	-11.1303
B 249.678	28.8032	ppb	0.3599	1.2	524.203
Ba 389.178	70.7363	ppb	0.5690	0.8	1567.84
Be 313.042	-0.5450	ppb	0.0104	1.9	-333.340
Ca 370.602	19406	ppb	52.17	0.3	53070
Cd 226.502	-0.3805	ppb	0.1162	30.5	33.8621
Co 228.615	-0.6627	ppb	0.2582	39.0	-8.4590
Cr 267.716	-1.0536	ppb	0.1571	14.9	-22.4780
Cu 324.754	-1.0540	ppb	0.5270	50.0	156.503
Fe 271.441	1566.03	ppb	4.1430	0.3	2673.03
K 766.491	1324.87	ppb	5.5289	0.4	42529.7
Mg 279.078	11208.3	ppb	25.7542	0.2	22393.8
Mn 257.610	44.4145	ppb	0.1346	0.3	10783.3
Mo 202.032	-0.9021	ppb	0.4672	51.8	15.0071
Na 330.237	28388.3	ppb	39.0436	0.1	1293.09
Ni 231.604	-0.8469	ppb	0.7100	83.8	-6.7014
Pb 220.353	1.8818	ppb	2.0554	109.2	31.1397
Sb 206.834	-0.3313	ppb	1.2682	382.8	-3.2591
Se 196.026	-2.3666	ppb	7.5069	317.2	9.3026
Sn 189.925	-5.9929	ppb	2.4873	41.5	-9.4537
Sr 216.596	148.149	ppb	0.3448	0.2	1471.88
Ti 334.941	-0.7030	ppb	0.0215	3.1	-45.7928
Tl 190.794	-3.0948	ppb	3.7054	119.7	-15.5137
V 292.401	-1.1499	ppb	0.1253	10.9	-13.9009
Zn 206.200	-1.4983	ppb	0.6200	41.4	-2.0667

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X (Samp) 4/17/2013, 9:27:43 PM Rack 2, Tube 36

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9550u	-0.7068u	-1.4248u
Al 308.215	-5.0383u	3.2957	-2.0701u
As 188.980	0.3553	-6.6470u	-4.5453u
B 249.678	-6.0810u	-5.7389u	-5.2118u
Ba 389.178	-2.3424u	-2.0066u	-1.5908u
Be 313.042	-0.5490u	-0.5408u	-0.5427u
Ca 370.602	-2.224u	0.7617	-0.8148u
Cd 226.502	-0.6703u	-0.2143u	-0.6614u
Co 228.615	-0.5501u	-0.2197u	-0.8010u
Cr 267.716	-1.0975u	-0.9709u	-1.5485u
Cu 324.754	-1.3629u	-1.3061u	-1.3309u
Fe 271.441	-13.9319u	-10.2480u	-16.0664u
K 766.491	-8.3967u	-7.4879u	-7.3390u
Mg 279.078	2.2640	1.5949	4.7096
Mn 257.610	-1.7280u	-1.6795u	-1.6404u
Mo 202.032	-0.8904u	-1.3244u	-1.1664u
Na 330.237	20.7490	207.591	-50.8265u
Ni 231.604	-0.1090u	-0.5915u	0.4420
Pb 220.353	0.2107	1.9721	0.4229
Sb 206.834	-3.9686u	1.9716	0.2451
Se 196.026	-9.1938u	-9.1542u	-3.9944u
Sn 189.925	-3.2200u	-2.5075u	-3.1663u
Sr 216.596	-2.5245u	-3.0689u	-3.1502u
Ti 334.941	-0.5950u	-0.5984u	-0.6256u
Tl 190.794	-3.1140u	-1.6963u	-4.7103u
V 292.401	-1.3161u	-1.1667u	-1.0276u
Zn 206.200	-3.4162u	-2.3035u	-3.7012u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0288	ppb	0.3647	35.4	-52.1754
Al 308.215	-1.2709	ppb	4.2241	332.4	-27.0229
As 188.980	-3.6124	ppb	3.5932	99.5	-11.7982
B 249.678	-5.6772	ppb	0.4379	7.7	127.142
Ba 389.178	-1.9799	ppb	0.3765	19.0	-21.2469
Be 313.042	-0.5442	ppb	0.0043	0.8	-334.925
Ca 370.602	-0.7590	ppb	1.494	196.8	15.91
Cd 226.502	-0.5153	ppb	0.2607	50.6	25.7998
Co 228.615	-0.5236	ppb	0.2915	55.7	-7.0350
Cr 267.716	-1.2056	ppb	0.3036	25.2	-27.8356
Cu 324.754	-1.3333	ppb	0.0285	2.1	141.502
Fe 271.441	-13.4154	ppb	2.9434	21.9	92.3043
K 766.491	-7.7412	ppb	0.5726	7.4	223.947
Mg 279.078	2.8562	ppb	1.6396	57.4	40.3395
Mn 257.610	-1.6826	ppb	0.0439	2.6	37.9384
Mo 202.032	-1.1271	ppb	0.2197	19.5	13.4879
Na 330.237	59.1710	ppb	133.424	225.5	58.0592
Ni 231.604	-0.0862	ppb	0.5171	600.1	-4.7796
Pb 220.353	0.8686	ppb	0.9616	110.7	29.4026
Sb 206.834	-0.5840	ppb	3.0557	523.2	-3.5463
Se 196.026	-7.4475	ppb	2.9905	40.2	6.9418
Sn 189.925	-2.9646	ppb	0.3967	13.4	-7.2671
Sr 216.596	-2.9145	ppb	0.3402	11.7	20.7941
Ti 334.941	-0.6064	ppb	0.0168	2.8	-65.4535
Tl 190.794	-3.1735	ppb	1.5079	47.5	-15.4461
V 292.401	-1.1701	ppb	0.1442	12.3	-14.3944
Zn 206.200	-3.1403	ppb	0.7386	23.5	-0.0448

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

Cont Calib Verif (CCV) 4/17/2013, 9:33:19 PM Rack 2, Tube 37
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	481.382	478.693	484.077
Al 308.215	4813.08	4804.35	4842.75
As 188.980	475.762	470.030	481.518
B 249.678	495.922	497.522	504.600
Ba 389.178	5060.31	5036.12	5084.86
Be 313.042	510.676	510.562	515.306
Ca 370.602	4910	4878	4947
Cd 226.502	512.479	510.998	516.674
Co 228.615	518.580	516.707	521.613
Cr 267.716	5093.10	5065.93	5109.90
Cu 324.754	5099.94	5156.10	5129.75
Fe 271.441	4937.90	4895.71	4951.80
K 766.491	9801.34	9768.37	9885.99
Mg 279.078	4950.74	4926.83	4970.90
Mn 257.610	5196.55	5157.83	5199.18
Mo 202.032	487.193	485.259	493.295
Na 330.237	7197.60	7376.84	7261.94
Ni 231.604	2596.74	2585.79	2614.11
Pb 220.353	494.147	485.770	501.523
Sb 206.834	917.872	911.773	914.629
Se 196.026	4960.94	4937.98	4993.12
Sn 189.925	4933.98	4882.93	4965.35
Sr 216.596	2493.60	2482.27	2505.10
Ti 334.941	489.117	487.267	492.722
Tl 190.794	4993.43	4989.39	5046.57
V 292.401	4934.05	4907.60	4959.88
Zn 206.200	2594.63	2559.81	2593.94

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	481.384	ppb	2.6920	0.6	36229.3	96.27675
Al 308.215	4820.06	ppb	20.1275	0.4	10577.8	96.40115
As 188.980	475.770	ppb	5.7441	1.2	279.879	95.15402
B 249.678	499.348	ppb	4.6184	0.9	5963.72	19.97391Q
Ba 389.178	5060.43	ppb	24.3699	0.5	108609	101.20861
Be 313.042	512.181	ppb	2.7068	0.5	891059	102.43626
Ca 370.602	4912	ppb	34.34	0.7	13365	98.23215
Cd 226.502	513.384	ppb	2.9444	0.6	17461.1	102.67674
Co 228.615	518.967	ppb	2.4757	0.5	5174.61	103.79333
Cr 267.716	5089.64	ppb	22.1896	0.4	156961	101.79282
Cu 324.754	5128.60	ppb	28.1011	0.5	266788	102.57196
Fe 271.441	4928.47	ppb	29.2092	0.6	8288.32	98.56944
K 766.491	9818.57	ppb	60.6689	0.6	312175	98.18565
Mg 279.078	4949.49	ppb	22.0592	0.4	9829.28	98.98981
Mn 257.610	5184.52	ppb	23.1506	0.4	1201146	103.69044
Mo 202.032	488.582	ppb	4.1939	0.9	3479.99	97.71645
Na 330.237	7278.79	ppb	90.7989	1.2	352.119	97.05054
Ni 231.604	2598.88	ppb	14.2809	0.5	6670.58	103.95522
Pb 220.353	493.813	ppb	7.8819	1.6	869.467	98.76266
Sb 206.834	914.758	ppb	3.0516	0.3	945.720	91.47583
Se 196.026	4964.01	ppb	27.6976	0.6	2308.99	99.28027
Sn 189.925	4927.42	ppb	41.6006	0.8	3577.94	98.54838
Sr 216.596	2493.66	ppb	11.4117	0.5	23910.4	99.74629
Ti 334.941	489.702	ppb	2.7743	0.6	125019	97.94040
Tl 190.794	5009.80	ppb	31.9090	0.6	4796.74	100.19595
V 292.401	4933.84	ppb	26.1390	0.5	130125	98.67686
Zn 206.200	2582.79	ppb	19.9950	0.8	3312.65	103.31176

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

Cont Calib Blank (CCB) 4/17/2013, 9:38:55 PM Rack 2, Tube 38

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7449u	-0.9118u	-0.9541u
Al 308.215	-4.8716u	-5.7645u	-1.1297u
As 188.980	0.3812	-2.4164u	-2.4759u
B 249.678	1.3082	0.6957	-0.2025u
Ba 389.178	-0.9554u	-0.8548u	-0.3518u
Be 313.042	-0.4866u	-0.4504u	-0.4215u
Ca 370.602	0.4634	-4.683u	-0.9740u
Cd 226.502	-0.4443u	-0.5564u	-0.3745u
Co 228.615	-0.9666u	-0.4898u	0.2119
Cr 267.716	-0.5457u	-0.0976u	-0.0617u
Cu 324.754	-0.1681u	0.0365	0.0704
Fe 271.441	-14.0315u	-10.8051u	-11.3859u
K 766.491	-4.8278u	-3.5139u	-2.7494u
Mg 279.078	3.5602	1.7943	2.4557
Mn 257.610	-0.8933u	-0.4446u	-0.2014u
Mo 202.032	-0.7888u	-0.3792u	-0.2820u
Na 330.237	-36.9820u	-86.4739u	275.478
Ni 231.604	-0.5763u	-0.4215u	-0.6485u
Pb 220.353	4.2394	1.1538	3.5883
Sb 206.834	1.3045	1.6601	-0.1906u
Se 196.026	2.8340	1.8184	-3.6216u
Sn 189.925	-5.6715u	-6.1522u	-0.4063u
Sr 216.596	-2.3586u	-1.7553u	-1.8337u
Ti 334.941	-0.3870u	-0.4187u	-0.3510u
Tl 190.794	2.3376	0.0416	2.8356
V 292.401	-0.3231u	-0.1068u	0.5451
Zn 206.200	1.8159	-0.7203u	0.0243

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.8703	ppb	0.1106	12.7	-40.2363	-0.87027
Al 308.215	-3.9219	ppb	2.4590	62.7	-32.8330	-3.92192
As 188.980	-1.5037	ppb	1.6326	108.6	-10.5148	-1.50370
B 249.678	0.6004	ppb	0.7598	126.5	199.765	0.60044
Ba 389.178	-0.7207	ppb	0.3234	44.9	5.7725	-0.72068
Be 313.042	-0.4528	ppb	0.0326	7.2	-176.206	-0.45282
Ca 370.602	-1.731	ppb	2.655	153.4	13.32	-1.73113
Cd 226.502	-0.4584	ppb	0.0918	20.0	27.7310	-0.45838
Co 228.615	-0.4148	ppb	0.5928	142.9	-5.9630	-0.41484
Cr 267.716	-0.2350	ppb	0.2697	114.7	2.0942	-0.23504
Cu 324.754	-0.0204	ppb	0.1291	633.1	209.761	-0.02039
Fe 271.441	-12.0742	ppb	1.7198	14.2	94.5881	-12.07419
K 766.491	-3.6970	ppb	1.0512	28.4	352.337	-3.69702
Mg 279.078	2.6034	ppb	0.8922	34.3	39.8172	2.60336
Mn 257.610	-0.5131	ppb	0.3510	68.4	308.790	-0.51311
Mo 202.032	-0.4833	ppb	0.2690	55.7	18.0548	-0.48331
Na 330.237	50.6740	ppb	196.252	387.3	57.6646	50.67403
Ni 231.604	-0.5487	ppb	0.1160	21.1	-5.9676	-0.54873
Pb 220.353	2.9938	ppb	1.6264	54.3	33.0234	2.99383
Sb 206.834	0.9247	ppb	0.9821	106.2	-2.0604	0.92468
Se 196.026	0.3436	ppb	3.4713	1010.3	10.5478	0.34359
Sn 189.925	-4.0766	ppb	3.1877	78.2	-8.0757	-4.07663
Sr 216.596	-1.9826	ppb	0.3280	16.5	29.7078	-1.98258
Ti 334.941	-0.3856	ppb	0.0339	8.8	-9.1346	-0.38555
Tl 190.794	1.7382	ppb	1.4903	85.7	-10.7271	1.73824
V 292.401	0.0384	ppb	0.4520	1177.5	17.3901	0.03838
Zn 206.200	0.3733	ppb	1.3936	369.2	4.4715	0.37332

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

640-43129-c-3-a (Samp) 4/17/2013, 9:44:30 PM Rack 2, Tube 39

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0123u	-1.1330u	-1.1250u
Al 308.215	15.4742	11.2909	5.9460
As 188.980	6.9147	-1.4226	-3.0233u
B 249.678	2038.24	2050.17	2060.00
Ba 389.178	391.231	390.016	391.729
Be 313.042	-0.4838u	-0.4909u	-0.4983u
Ca 370.602	143374	143374	143787
Cd 226.502	-0.0323	-0.2908	-0.2564
Co 228.615	-0.6421u	-0.1977u	-0.5650u
Cr 267.716	-2.0271u	-1.1642u	-1.5294u
Cu 324.754	-0.8525u	-0.9348u	-0.6721u
Fe 271.441	9941.80	9934.04	9949.82
K 766.491	106937x	107114x	107374x
Mg 279.078	230306	230292	230431
Mn 257.610	428.383	428.383	429.162
Mo 202.032	-1.3543u	-1.5842u	-1.0309u
Na 330.237	1807607x	1806255x	1814854x
Ni 231.604	1.2102	0.3866	0.7562
Pb 220.353	8.5319	4.7743	3.8548
Sb 206.834	-1.9990u	4.3572	2.8602
Se 196.026	9.3758	3.7721	11.1487
Sn 189.925	-8.3967u	-7.4347u	-7.0197u
Sr 216.596	1463.84	1462.30	1464.12
Ti 334.941	-3.1842	-3.1370	-3.2308
Tl 190.794	-6.6039u	-8.6987u	-1.3779u
V 292.401	-0.0021u	-0.1842u	-0.2307u
Zn 206.200	-1.6693u	-0.5076u	-0.3501u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0901b	ppb	0.0675	6.2	-125.480
Al 308.215	10.9037b	ppb	4.7759	43.8	-0.2341
As 188.980	0.8229b	ppb	5.3360	648.4	-7.9930
B 249.678	2049.47b	ppb	10.9007	0.5	23890.7
Ba 389.178	390.992b	ppb	0.8809	0.2	8978.86
Be 313.042	-0.4910b	ppb	0.0073	1.5	-389.620
Ca 370.602	143512b	ppb	238.2	0.2	392462
Cd 226.502	-0.1931b	ppb	0.1404	72.7	52.8225
Co 228.615	-0.4682b	ppb	0.2375	50.7	-6.6915
Cr 267.716	-1.5736b	ppb	0.4331	27.5	-17.1701
Cu 324.754	-0.8198b	ppb	0.1344	16.4	171.255
Fe 271.441	9941.89b	ppb	7.8939	0.1	16358.6
K 766.491	107142xb	ppb	219.671	0.2	3401848
Mg 279.078	230343b	ppb	76.7436	0.0	459545
Mn 257.610	428.643b	ppb	0.4500	0.1	101058
Mo 202.032	-1.3232b	ppb	0.2779	21.0	11.6055
Na 330.237	1809572xb	ppb	4623.98	0.3	78969.1
Ni 231.604	0.7843b	ppb	0.4125	52.6	-2.3415
Pb 220.353	5.7203b	ppb	2.4779	43.3	37.7670
Sb 206.834	1.7395b	ppb	3.3230	191.0	-1.0365
Se 196.026	8.0989b	ppb	3.8505	47.5	14.2286
Sn 189.925	-7.6170b	ppb	0.7064	9.3	-10.0731
Sr 216.596	1463.42b	ppb	0.9793	0.1	14099.9
Ti 334.941	-3.1840b	ppb	0.0469	1.5	104.436
Tl 190.794	-5.5602b	ppb	3.7703	67.8	-18.8456
V 292.401	-0.1390b	ppb	0.1208	86.9	2.7200
Zn 206.200	-0.8423b	ppb	0.7205	85.5	-2.9103

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

640-43129-c-3-a^10 (Samp) 4/17/2013, 9:50:06 PM Rack 2, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8225u	-0.7283u	-0.7421u
Al 308.215	-4.9299u	1.9075	5.5431
As 188.980	0.6985	-2.1084u	-2.7010u
B 249.678	216.045	215.174	214.064
Ba 389.178	37.4018	37.0037	37.4004
Be 313.042	-0.5255u	-0.5223u	-0.4921u
Ca 370.602	14143	14194	14204
Cd 226.502	-0.3139u	-0.2657u	-0.4771u
Co 228.615	-0.7352u	-0.3860u	-0.8364u
Cr 267.716	-1.3146u	-0.7066u	-0.4536u
Cu 324.754	-1.0217u	-0.8490u	-0.9661u
Fe 271.441	1021.12	1008.24	1021.10
K 766.491	6901.08	6894.01	6905.22
Mg 279.078	22252.9	22305.0	22336.8
Mn 257.610	42.5048	42.7077	43.1631
Mo 202.032	-0.5208u	-0.7759u	-1.3334u
Na 330.237	146993x	147072x	147048x
Ni 231.604	0.8351	2.0205	1.0274
Pb 220.353	2.2895	1.9039	1.6177
Sb 206.834	-4.2912u	1.6568	-1.8425u
Se 196.026	-1.3580u	1.9282	-7.1280u
Sn 189.925	-6.5027u	-3.8029u	-6.3789u
Sr 216.596	147.882	146.567	148.456
Ti 334.941	-0.8264u	-0.7834u	-0.7925u
Tl 190.794	-0.8897u	-1.4421u	0.1789
V 292.401	-0.8553u	-1.0546u	-0.4963u
Zn 206.200	1.6260	0.1598	1.5043

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7643b	ppb	0.0509	6.7	-39.2674
Al 308.215	0.8402b	ppb	5.3174	632.8	-22.3774
As 188.980	-1.3703b	ppb	1.8159	132.5	-10.3241
B 249.678	215.094b	ppb	0.9929	0.5	2679.95
Ba 389.178	37.2687b	ppb	0.2294	0.6	875.987
Be 313.042	-0.5133b	ppb	0.0184	3.6	-292.350
Ca 370.602	14181b	ppb	32.64	0.2	38793
Cd 226.502	-0.3522b	ppb	0.1108	31.5	33.1722
Co 228.615	-0.6526b	ppb	0.2363	36.2	-8.3418
Cr 267.716	-0.8249b	ppb	0.4425	53.6	-14.2530
Cu 324.754	-0.9456b	ppb	0.0881	9.3	161.972
Fe 271.441	1016.82b	ppb	7.4308	0.7	1775.70
K 766.491	6900.10b	ppb	5.6672	0.1	219524
Mg 279.078	22298.2b	ppb	42.3911	0.2	44517.2
Mn 257.610	42.7919b	ppb	0.3371	0.8	10469.9
Mo 202.032	-0.8767b	ppb	0.4156	47.4	15.2135
Na 330.237	147038xb	ppb	40.4544	0.0	6467.56
Ni 231.604	1.2943b	ppb	0.6362	49.2	-1.2129
Pb 220.353	1.9370b	ppb	0.3371	17.4	31.2332
Sb 206.834	-1.4923b	ppb	2.9894	200.3	-4.4151
Se 196.026	-2.1859b	ppb	4.5845	209.7	9.3863
Sn 189.925	-5.5615b	ppb	1.5243	27.4	-9.1078
Sr 216.596	147.635b	ppb	0.9686	0.7	1466.25
Ti 334.941	-0.8008b	ppb	0.0227	2.8	-33.0516
Tl 190.794	-0.7177b	ppb	0.8241	114.8	-13.2001
V 292.401	-0.8021b	ppb	0.2830	35.3	-5.4582
Zn 206.200	1.0967b	ppb	0.8137	74.2	57.4036

640-43129-c-4-a (Samp) 4/17/2013, 9:55:52 PM Rack 2, Tube 41
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0345u	-1.1099u	-1.0829u
Al 308.215	2.7871	3.9235	7.6941
As 188.980	-6.3867u	-4.3520u	-12.9875u
B 249.678	2110.51	2124.72	2138.12
Ba 389.178	455.749	458.744	460.450
Be 313.042	-0.4871u	-0.4843u	-0.4944u
Ca 370.602	162453	162659	162762
Cd 226.502	0.0014	-0.1127	-0.2516
Co 228.615	-0.1237u	-0.2072u	-0.3973u
Cr 267.716	-2.1877u	-1.8522u	-2.3253u
Cu 324.754	-0.8053u	-1.0147u	-0.7212u
Fe 271.441	12070.1	12096.4	12130.5
K 766.491	109346x	109824x	110099x
Mg 279.078	254346	255081	254778
Mn 257.610	270.159	271.168	271.564
Mo 202.032	-1.1743u	-0.8132u	-0.4878u
Na 330.237	2069159x	2074841x	2071826x
Ni 231.604	1.6747	0.6094	-0.9421u
Pb 220.353	4.5735	3.8790	3.9773
Sb 206.834	-3.7815u	-1.7432u	-2.3482u
Se 196.026	1.0313	8.7220	-1.6635u
Sn 189.925	-4.7586u	-3.5621u	-5.3898u
Sr 216.596	1636.12	1640.83	1641.79
Ti 334.941	-3.7958u	-3.8244u	-3.7584u
Tl 190.794	-6.5101u	-4.7662u	-7.8446u
V 292.401	-0.2809u	-0.4185u	-0.3056u
Zn 206.200	-0.6683u	2.9010	0.3386

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0758b	ppb	0.0382	3.6	-133.565
Al 308.215	4.8016b	ppb	2.5686	53.5	-13.6507
As 188.980	-7.9088b	ppb	4.5145	57.1	-13.1717
B 249.678	2124.45b	ppb	13.8054	0.6	24755.6
Ba 389.178	458.314b	ppb	2.3801	0.5	10485.1
Be 313.042	-0.4886b	ppb	0.0052	1.1	-406.661
Ca 370.602	162624b	ppb	157.4	0.1	444664
Cd 226.502	-0.1210b	ppb	0.1267	104.8	59.0847
Co 228.615	-0.2427b	ppb	0.1402	57.8	-4.5246
Cr 267.716	-2.1217b	ppb	0.2434	11.5	-31.3772
Cu 324.754	-0.8471b	ppb	0.1511	17.8	170.517
Fe 271.441	12099.0b	ppb	30.3189	0.3	19883.2
K 766.491	109756xb	ppb	381.038	0.3	3484860
Mg 279.078	254735b	ppb	369.336	0.1	508207
Mn 257.610	270.964b	ppb	0.7247	0.3	64689.2
Mo 202.032	-0.8251b	ppb	0.3434	41.6	15.0348
Na 330.237	2071942xb	ppb	2842.71	0.1	90410.6
Ni 231.604	0.4473b	ppb	1.3159	294.2	-3.1631
Pb 220.353	4.1433b	ppb	0.3758	9.1	35.0444
Sb 206.834	-2.6243b	ppb	1.0468	39.9	-5.2883
Se 196.026	2.6966b	ppb	5.3893	199.9	11.6900
Sn 189.925	-4.5702b	ppb	0.9283	20.3	-7.7744
Sr 216.596	1639.58b	ppb	3.0331	0.2	15791.8
Ti 334.941	-3.7929b	ppb	0.0331	0.9	32.4284
Tl 190.794	-6.3736b	ppb	1.5438	24.2	-19.5130
V 292.401	-0.3350b	ppb	0.0733	21.9	-4.1038
Zn 206.200	0.8571b	ppb	1.8403	214.7	5.0963

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

640-43129-c-4-a^10 (Samp) 4/17/2013, 10:01:29 PM Rack 2, Tube 42

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9210u	-0.8406u	-1.1136u
Al 308.215	-4.0459u	1.3640	-0.7065u
As 188.980	2.4806	-2.6737u	-2.7505u
B 249.678	226.411	224.983	224.396
Ba 389.178	42.6301	43.5104	43.3680
Be 313.042	-0.5418u	-0.5397u	-0.5375u
Ca 370.602	15825	15932	15965
Cd 226.502	-0.4315u	-0.2549u	-0.4930u
Co 228.615	-0.3672u	-0.1268u	-1.1072u
Cr 267.716	-1.1762u	-0.9487u	-1.1727u
Cu 324.754	-0.9712u	-1.0342u	-1.0291u
Fe 271.441	1226.34	1231.65	1225.17
K 766.491	6786.34	6849.29	6873.79
Mg 279.078	24279.2	24438.3	24447.0
Mn 257.610	25.9579	26.2903	26.3975
Mo 202.032	-1.2844u	-1.2630u	-1.5610u
Na 330.237	163406x	163828x	165405x
Ni 231.604	0.8824	-0.1139u	-1.7386u
Pb 220.353	3.5902	4.6419	3.3087
Sb 206.834	-2.1588u	-6.0327u	3.0459
Se 196.026	-7.2021u	-8.7654u	4.7831
Sn 189.925	-3.0502u	-10.1172u	-0.7903u
Sr 216.596	163.341	164.618	163.972
Ti 334.941	-0.8984u	-0.8986u	-0.9023u
Tl 190.794	-3.0982u	-4.5366u	0.5800
V 292.401	-1.2059u	-1.6213u	-1.1155u
Zn 206.200	-3.6004u	-1.6313u	-1.8751u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9584b	ppb	0.1403	14.6	-54.7098
Al 308.215	-1.1294b	ppb	2.7297	241.7	-26.7124
As 188.980	-0.9812b	ppb	2.9982	305.6	-10.0751
B 249.678	225.263b	ppb	1.0364	0.5	2797.34
Ba 389.178	43.1695b	ppb	0.4725	1.1	1007.92
Be 313.042	-0.5397b	ppb	0.0022	0.4	-339.430
Ca 370.602	15907b	ppb	73.33	0.5	43507
Cd 226.502	-0.3931b	ppb	0.1236	31.4	32.1942
Co 228.615	-0.5337b	ppb	0.5110	95.7	-7.1661
Cr 267.716	-1.0992b	ppb	0.1303	11.9	-22.5422
Cu 324.754	-1.0115b	ppb	0.0350	3.5	158.614
Fe 271.441	1227.72b	ppb	3.4496	0.3	2120.23
K 766.491	6836.47b	ppb	45.1119	0.7	217504
Mg 279.078	24388.2b	ppb	94.4616	0.4	48686.8
Mn 257.610	26.2152b	ppb	0.2292	0.9	6643.70
Mo 202.032	-1.3695b	ppb	0.1662	12.1	11.7067
Na 330.237	164213xb	ppb	1053.24	0.6	7216.55
Ni 231.604	-0.3233b	ppb	1.3230	409.2	-5.3635
Pb 220.353	3.8469b	ppb	0.7027	18.3	34.4846
Sb 206.834	-1.7152b	ppb	4.5555	265.6	-4.6318
Se 196.026	-3.7282b	ppb	7.4123	198.8	8.6686
Sn 189.925	-4.6525b	ppb	4.8655	104.6	-8.4413
Sr 216.596	163.977b	ppb	0.6385	0.4	1623.22
Ti 334.941	-0.8998b	ppb	0.0022	0.2	-50.7919
Tl 190.794	-2.3516b	ppb	2.6387	112.2	-14.7578
V 292.401	-1.3142b	ppb	0.2697	20.5	-19.0744
Zn 206.200	-2.3689b	ppb	1.0734	45.3	-0.9473

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89241-d-1-a (Samp) 4/17/2013, 10:07:04 PM Rack 2, Tube 43

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9124u	-1.0542u	-0.8077u
Al 308.215	8.6742	7.6662	9.6685
As 188.980	-1.5361u	3.3009	-1.5779u
B 249.678	10.4752	9.3043	8.2001
Ba 389.178	200.423	200.049	199.402
Be 313.042	-0.4526u	-0.4516u	-0.4548u
Ca 370.602	59503	59465	59739
Cd 226.502	-0.2151	-0.1570	-0.2950
Co 228.615	3.1267	2.4434	2.2877
Cr 267.716	1.5027	1.3238	1.5462
Cu 324.754	-1.2104u	-1.2466u	-1.4054u
Fe 271.441	30036.0	30035.9	30172.9
K 766.491	8244.96	8237.09	8248.34
Mg 279.078	14695.4	14664.9	14700.7
Mn 257.610	13861.4	13853.7	13884.0
Mo 202.032	0.6403	0.2098	0.8486
Na 330.237	125276x	124781x	124843x
Ni 231.604	2.5963	1.2087	1.2908
Pb 220.353	1.6303	2.4332	1.7631
Sb 206.834	-6.1545u	1.7614	-0.3698
Se 196.026	1.7409	-9.6359u	-3.6966
Sn 189.925	-6.4559u	-3.8989u	-7.7095u
Sr 216.596	526.042	525.884	527.945
Ti 334.941	-0.6172u	-0.5798u	-0.6338u
Tl 190.794	20.5182u	25.4338	25.2215
V 292.401	-0.6318u	-0.9353u	-0.8801u
Zn 206.200	3.4366	3.1105	3.4485

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9248b	ppb	0.1237	13.4	-5.0175
Al 308.215	8.6696b	ppb	1.0012	11.5	-5.0688
As 188.980	0.0623b	ppb	2.8048	4502.8	-9.3624
B 249.678	9.3265b	ppb	1.1377	12.2	265.970
Ba 389.178	199.958b	ppb	0.5166	0.3	4385.57
Be 313.042	-0.4530b	ppb	0.0017	0.4	-174.827
Ca 370.602	59569b	ppb	148.5	0.2	161424
Cd 226.502	-0.2224b	ppb	0.0693	31.2	101.882
Co 228.615	2.6193b	ppb	0.4463	17.0	23.3432
Cr 267.716	1.4576b	ppb	0.1179	8.1	98.7061
Cu 324.754	-1.2875b	ppb	0.1037	8.1	153.201
Fe 271.441	30081.6b	ppb	79.0947	0.3	49265.8
K 766.491	8243.46b	ppb	5.7744	0.1	262171
Mg 279.078	14687.0b	ppb	19.3465	0.1	29128.8
Mn 257.610	13866.4b	ppb	15.7776	0.1	3211886
Mo 202.032	0.5663b	ppb	0.3258	57.5	24.0279
Na 330.237	124967xb	ppb	269.462	0.2	5497.63
Ni 231.604	1.6986b	ppb	0.7785	45.8	0.4157
Pb 220.353	1.9422b	ppb	0.4304	22.2	34.3028
Sb 206.834	-1.5876b	ppb	4.0961	258.0	-3.8764
Se 196.026	-3.8639b	ppb	5.6903	147.3	11.7832
Sn 189.925	-6.0214b	ppb	1.9421	32.3	-9.4323
Sr 216.596	526.623b	ppb	1.1471	0.2	5115.52
Ti 334.941	-0.6103b	ppb	0.0276	4.5	-11.6871
Tl 190.794	23.7245b	ppb	2.7788	11.7	-10.6284
V 292.401	-0.8157b	ppb	0.1617	19.8	-6.0257
Zn 206.200	3.3319b	ppb	0.1918	5.8	48.2780

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680-89241-d-2-a (Samp) 4/17/2013, 10:12:40 PM Rack 2, Tube 44

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7677u	-0.9651u	-0.7840u
Al 308.215	9.9366	15.7844	7.6055
As 188.980	-8.9191u	0.0755	-1.9483u
B 249.678	12.7600	12.3624	13.1940
Ba 389.178	36.7844	36.7462	36.6527
Be 313.042	-0.4290u	-0.4265u	-0.4266u
Ca 370.602	123188	123636	123600
Cd 226.502	-0.5989u	-0.3399u	-0.4794u
Co 228.615	-0.6501u	-0.8652u	-0.0763u
Cr 267.716	2.0572	1.7488	1.3353
Cu 324.754	-0.9246u	-0.9169u	-0.6373u
Fe 271.441	4444.92	4451.94	4446.69
K 766.491	8421.29	8401.49	8416.90
Mg 279.078	32550.4	32578.0	32541.8
Mn 257.610	13275.8	13305.3	13266.8
Mo 202.032	-0.1116u	-0.1067u	-0.4248u
Na 330.237	76861.0	76662.0	76555.4
Ni 231.604	2.7349	1.9870	3.3940
Pb 220.353	-0.8956	-1.6313	3.3118
Sb 206.834	0.9040	0.0475	-2.0945u
Se 196.026	8.0267	10.6469	7.7890
Sn 189.925	-3.8044u	-2.2137u	-7.7274u
Sr 216.596	654.704	658.095	656.494
Ti 334.941	-0.5598u	-0.5387u	-0.5327u
Tl 190.794	19.2022u	20.2357	18.0485u
V 292.401	-0.5365u	-0.4805u	-0.6902u
Zn 206.200	4.1159	4.3422	3.9290

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8389	ppb	0.1095	13.1	-7.6000
Al 308.215	11.1088	ppb	4.2136	37.9	0.2678
As 188.980	-3.5973	ppb	4.7186	131.2	-10.7885
B 249.678	12.7721	ppb	0.4159	3.3	335.438
Ba 389.178	36.7278	ppb	0.0678	0.2	893.474
Be 313.042	-0.4274	ppb	0.0014	0.3	-104.443
Ca 370.602	123475	ppb	248.8	0.2	338270
Cd 226.502	-0.4727	ppb	0.1296	27.4	37.1194
Co 228.615	-0.5306	ppb	0.4078	76.9	-7.2418
Cr 267.716	1.7138	ppb	0.3622	21.1	100.577
Cu 324.754	-0.8263	ppb	0.1637	19.8	169.253
Fe 271.441	4447.85	ppb	3.6538	0.1	7381.74
K 766.491	8413.23	ppb	10.4031	0.1	267561
Mg 279.078	32556.7	ppb	18.9461	0.1	64781.9
Mn 257.610	13282.7	ppb	20.1481	0.2	3076743
Mo 202.032	-0.2144	ppb	0.1823	85.0	19.7457
Na 330.237	76692.8	ppb	155.082	0.2	3398.90
Ni 231.604	2.7053	ppb	0.7040	26.0	2.4807
Pb 220.353	0.2616	ppb	2.6670	1019.5	31.3108
Sb 206.834	-0.3810	ppb	1.5445	405.4	-3.2484
Se 196.026	8.8208	ppb	1.5858	18.0	17.5421
Sn 189.925	-4.5818	ppb	2.8379	61.9	-8.3749
Sr 216.596	656.431	ppb	1.6967	0.3	6356.96
Ti 334.941	-0.5437	ppb	0.0142	2.6	79.2514
Tl 190.794	19.1621	ppb	1.0942	5.7	-12.9242
V 292.401	-0.5691	ppb	0.1086	19.1	1.1337
Zn 206.200	4.1290	ppb	0.2069	5.0	9.3018

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680-89241-d-3-a (Samp) 4/17/2013, 10:18:15 PM Rack 2, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8409u	-0.8202u	-0.9543u
Al 308.215	12.1854	13.8881	20.6543
As 188.980	-6.6764u	-3.8225u	-0.2969
B 249.678	14.3067	14.6527	14.0258
Ba 389.178	343.152	343.262	342.859
Be 313.042	-0.4239u	-0.4058u	-0.3937u
Ca 370.602	123075	123481	123699
Cd 226.502	-0.4918u	-0.2668u	-0.6080u
Co 228.615	-0.2880u	-0.4645u	-1.9262u
Cr 267.716	2.0589	3.0096	2.3177
Cu 324.754	-0.9309u	-0.8523u	-0.4359u
Fe 271.441	1155.29	1161.99	1176.50
K 766.491	11394.2	11368.3	11377.6
Mg 279.078	35400.3	35516.6	35554.8
Mn 257.610	13863.6	13890.2	13880.3
Mo 202.032	-0.5309u	-0.8505u	-1.6612u
Na 330.237	80799.9	80838.2	81056.7
Ni 231.604	3.2704	2.4957	4.6572
Pb 220.353	2.7914	1.5168	0.3486
Sb 206.834	0.2424	6.1473	1.6339
Se 196.026	3.3158	-7.7702u	-6.5561
Sn 189.925	-7.1570u	-2.8083u	-5.5372u
Sr 216.596	956.543	961.713	964.412
Ti 334.941	0.7050	0.7202	0.7359
Tl 190.794	17.4508u	17.1866u	20.8373
V 292.401	2.0140	2.4036	2.2471
Zn 206.200	1.3092	3.0552	3.1536

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8718	ppb	0.0722	8.3	-21.2266
Al 308.215	15.5760	ppb	4.4796	28.8	10.0415
As 188.980	-3.5986	ppb	3.1956	88.8	-10.7567
B 249.678	14.3284	ppb	0.3140	2.2	357.241
Ba 389.178	343.091	ppb	0.2082	0.1	7468.37
Be 313.042	-0.4078	ppb	0.0152	3.7	-71.1952
Ca 370.602	123418	ppb	316.4	0.3	338359
Cd 226.502	-0.4555	ppb	0.1735	38.1	30.4499
Co 228.615	-0.8929	ppb	0.8992	100.7	-10.6967
Cr 267.716	2.4621	ppb	0.4915	20.0	124.840
Cu 324.754	-0.7397	ppb	0.2660	36.0	172.688
Fe 271.441	1164.60	ppb	10.8412	0.9	2017.11
K 766.491	11380.0	ppb	13.1365	0.1	361746
Mg 279.078	35490.6	ppb	80.5000	0.2	70625.1
Mn 257.610	13878.0	ppb	13.4679	0.1	3214632
Mo 202.032	-1.0142	ppb	0.5827	57.5	14.2250
Na 330.237	80898.3	ppb	138.552	0.2	3583.14
Ni 231.604	3.4744	ppb	1.0951	31.5	4.3894
Pb 220.353	1.5523	ppb	1.2218	78.7	33.6427
Sb 206.834	2.6745	ppb	3.0870	115.4	-0.3006
Se 196.026	-3.6702	ppb	6.0804	165.7	11.9019
Sn 189.925	-5.1675	ppb	2.1978	42.5	-8.7995
Sr 216.596	960.889	ppb	3.9985	0.4	9275.58
Ti 334.941	0.7204	ppb	0.0154	2.1	413.091
Tl 190.794	18.4915	ppb	2.0357	11.0	-14.2439
V 292.401	2.2216	ppb	0.1961	8.8	75.1055
Zn 206.200	2.5060	ppb	1.0376	41.4	47.2137

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680-89241-d-4-a (Samp) 4/17/2013, 10:23:51 PM Rack 2, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6718u	-0.5100u	-0.8918u
Al 308.215	13.3987	13.5746	15.6628
As 188.980	3.5137	-5.0744u	-0.9238
B 249.678	7.0198	6.8660	5.6629
Ba 389.178	98.3486	99.8405	99.8694
Be 313.042	-0.3963u	-0.3949u	-0.3652u
Ca 370.602	138024	137842	138315
Cd 226.502	-0.3551	-0.3858u	-0.6351u
Co 228.615	0.0421	0.1625	0.2050
Cr 267.716	1.8131	2.0945	2.2629
Cu 324.754	0.2536	0.3254	0.2175
Fe 271.441	5615.56	5628.67	5632.31
K 766.491	9436.30	9411.92	9398.00
Mg 279.078	36636.0	36616.0	36742.6
Mn 257.610	15793.2	15774.8	15786.2
Mo 202.032	0.3504	0.4053	-0.5686u
Na 330.237	82704.1	82562.3	82817.9
Ni 231.604	2.6307	1.6282	4.8292
Pb 220.353	4.3544	2.6098	1.4001
Sb 206.834	2.7081	5.5161	-2.9493u
Se 196.026	-6.3146	-4.7582	11.1994
Sn 189.925	-6.6860u	-6.1792u	-5.1143u
Sr 216.596	792.885	794.422	799.492
Ti 334.941	-0.5305	-0.5515	-0.5417
Tl 190.794	21.0538u	26.1400	23.7973
V 292.401	-0.4263u	-0.6890u	-0.2849u
Zn 206.200	23.0583	21.7716	24.5562

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6912	ppb	0.1916	27.7	8.6957
Al 308.215	14.2120	ppb	1.2595	8.9	7.1103
As 188.980	-0.8282	ppb	4.2948	518.6	-8.9923
B 249.678	6.5162	ppb	0.7430	11.4	261.707
Ba 389.178	99.3529	ppb	0.8698	0.9	2248.34
Be 313.042	-0.3855	ppb	0.0175	4.5	-28.2936
Ca 370.602	138060	ppb	238.9	0.2	378203
Cd 226.502	-0.4587	ppb	0.1535	33.5	40.2218
Co 228.615	0.1366	ppb	0.0845	61.9	-0.6380
Cr 267.716	2.0568	ppb	0.2273	11.0	118.349
Cu 324.754	0.2655	ppb	0.0550	20.7	226.376
Fe 271.441	5625.51	ppb	8.8077	0.2	9306.00
K 766.491	9415.41	ppb	19.3824	0.2	299377
Mg 279.078	36664.9	ppb	68.0170	0.2	72939.5
Mn 257.610	15784.7	ppb	9.2957	0.1	3656222
Mo 202.032	0.0624	ppb	0.5471	876.9	21.6520
Na 330.237	82694.7	ppb	128.044	0.2	3660.22
Ni 231.604	3.0294	ppb	1.6373	54.0	3.3370
Pb 220.353	2.7881	ppb	1.4852	53.3	36.1705
Sb 206.834	1.7583	ppb	4.3119	245.2	-1.1211
Se 196.026	0.0422	ppb	9.6937	22973.5	14.0574
Sn 189.925	-5.9932	ppb	0.8022	13.4	-9.3940
Sr 216.596	795.600	ppb	3.4575	0.4	7693.36
Ti 334.941	-0.5412	ppb	0.0105	1.9	96.3913
Tl 190.794	23.6637	ppb	2.5457	10.8	-12.1829
V 292.401	-0.4667	ppb	0.2051	43.9	3.8152
Zn 206.200	23.1287	ppb	1.3936	311.6	337371

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680-89241-d-5-a (Samp) 4/17/2013, 10:29:27 PM Rack 2, Tube 47

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6413	-0.6331	-0.3988
Al 308.215	72.2338	70.4602	69.0585
As 188.980	-1.9472	-3.4009u	3.9185
B 249.678	12.3297	12.6074	12.6569
Ba 389.178	400.776	400.883	400.824
Be 313.042	-0.5592u	-0.5691u	-0.5676u
Ca 370.602	171186	170907	171506
Cd 226.502	-0.3952	-0.3980	-0.1456
Co 228.615	-0.0770u	-0.2912u	-0.0657u
Cr 267.716	4.4921	4.5777	4.3348
Cu 324.754	-1.4853u	-1.4491u	-1.4384u
Fe 271.441	22496.4	22508.0	22549.8
K 766.491	13838.6	13831.8	13776.7
Mg 279.078	54468.2	54506.1	54643.6
Mn 257.610	25911.7	25900.8	25926.6
Mo 202.032	2.5703	2.2259	1.8815
Na 330.237	137590x	137709x	137704x
Ni 231.604	5.3154	6.1132	5.7560
Pb 220.353	1.6319	1.8139	2.5361
Sb 206.834	-2.3911u	1.2647	-0.6966u
Se 196.026	5.5594	0.7372	-6.6300
Sn 189.925	-4.0388u	-8.4875u	-6.4400u
Sr 216.596	1073.37	1072.94	1076.66
Ti 334.941	1.4946	1.4981	1.5628
Tl 190.794	42.8709	37.5863u	38.4464u
V 292.401	0.6898	0.7968	0.8343
Zn 206.200	3.3530	0.6256	-0.4841u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5577b	ppb	0.1377	24.7	52.1100
Al 308.215	70.5842b	ppb	1.5913	2.3	131.315
As 188.980	-0.4765b	ppb	3.8750	813.2	-8.6678
B 249.678	12.5313b	ppb	0.1764	1.4	311.743
Ba 389.178	400.828b	ppb	0.0534	0.0	8780.94
Be 313.042	-0.5653b	ppb	0.0053	0.9	-339.927
Ca 370.602	171200b	ppb	300.2	0.2	468041
Cd 226.502	-0.3129b	ppb	0.1449	46.3	82.5669
Co 228.615	-0.1446b	ppb	0.1271	87.8	-3.9479
Cr 267.716	4.4682b	ppb	0.1232	2.8	223.989
Cu 324.754	-1.4576b	ppb	0.0246	1.7	142.073
Fe 271.441	22518.1b	ppb	28.1130	0.1	36907.3
K 766.491	13815.7b	ppb	33.9360	0.2	439070
Mg 279.078	54539.3b	ppb	92.3090	0.2	108447
Mn 257.610	25913.0b	ppb	12.9700	0.1	6001971
Mo 202.032	2.2259b	ppb	0.3444	15.5	36.1739
Na 330.237	137668xb	ppb	67.2672	0.0	6053.44
Ni 231.604	5.7282b	ppb	0.3996	7.0	10.6127
Pb 220.353	1.9939b	ppb	0.4782	24.0	37.0565
Sb 206.834	-0.6077b	ppb	1.8295	301.1	-3.1008
Se 196.026	-0.1112b	ppb	6.1388	5522.8	16.3151
Sn 189.925	-6.3221b	ppb	2.2267	35.2	-9.6053
Sr 216.596	1074.32b	ppb	2.0377	0.2	10375.5
Ti 334.941	1.5185b	ppb	0.0384	2.5	693.050
Tl 190.794	39.6345b	ppb	2.8356	7.2	-11.9434
V 292.401	0.7736b	ppb	0.0750	9.7	36.0303
Zn 206.200	1.1648b	ppb	1.9746	312.3	457.4895

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680-89241-d-6-a (Samp) 4/17/2013, 10:35:03 PM Rack 2, Tube 48

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.2124	-0.9917	-1.0907
Al 308.215	45.2795	40.5804	43.8871
As 188.980	-0.7154	0.2877	2.4415
B 249.678	-0.8137u	0.6589u	-0.0855u
Ba 389.178	213.256	212.233	212.126
Be 313.042	-0.2330u	-0.2293u	-0.2208u
Ca 370.602	104509	103866	104077
Cd 226.502	-0.1580	-0.0082	-0.2062
Co 228.615	8.7716	8.2137	8.7508
Cr 267.716	8.4842	8.8767	8.7393
Cu 324.754	0.0557	-0.1911u	0.0656
Fe 271.441	25946.1	25789.1	25889.3
K 766.491	21914.2	21802.7	21831.4
Mg 279.078	20684.9	20610.8	20659.9
Mn 257.610	39128.2x	38977.7x	39103.3x
Mo 202.032	7.6052	7.6337	7.6178
Na 330.237	123161x	123203x	123464x
Ni 231.604	5.6446	4.4508	3.3024
Pb 220.353	4.6607	2.5754	0.9132
Sb 206.834	-1.7454u	-4.9946u	-3.8496u
Se 196.026	7.2254	-4.0769	-2.0925
Sn 189.925	-4.8882u	-1.6395u	-0.2020u
Sr 216.596	665.477	658.895	661.181
Ti 334.941	8.5384	8.4391	8.5096
Tl 190.794	65.7273	65.1777	65.0857
V 292.401	17.9033	17.8019	18.1213
Zn 206.200	6.4704	4.9424	4.4656

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0983b	ppb	0.1106	10.1	91.6068
Al 308.215	43.2490b	ppb	2.4137	5.6	71.2865
As 188.980	0.6713b	ppb	1.6130	240.3	-8.5726
B 249.678	-0.0801b	ppb	0.7363	919.1	162.029
Ba 389.178	212.538b	ppb	0.6240	0.3	4663.93
Be 313.042	-0.2277b	ppb	0.0063	2.8	222.860
Ca 370.602	104151b	ppb	327.6	0.3	284454
Cd 226.502	-0.1241b	ppb	0.1033	83.2	95.9962
Co 228.615	8.5787b	ppb	0.3162	3.7	82.8301
Cr 267.716	8.7001b	ppb	0.1992	2.3	391.281
Cu 324.754	-0.0233b	ppb	0.1454	624.5	217.632
Fe 271.441	25874.8b	ppb	79.4758	0.3	42393.4
K 766.491	21849.4b	ppb	57.9069	0.3	694114
Mg 279.078	20651.8b	ppb	37.6838	0.2	40645.3
Mn 257.610	39069.7xb	ppb	80.6826	0.2	9048719
Mo 202.032	7.6189b	ppb	0.0143	0.2	74.2576
Na 330.237	123276xb	ppb	164.433	0.1	5424.90
Ni 231.604	4.4660b	ppb	1.1712	26.2	7.4382
Pb 220.353	2.7164b	ppb	1.8777	69.1	41.1899
Sb 206.834	-3.5299b	ppb	1.6481	46.7	-5.9606
Se 196.026	0.3520b	ppb	6.0347	1714.3	19.5717
Sn 189.925	-2.2432b	ppb	2.4007	107.0	-6.6686
Sr 216.596	661.851b	ppb	3.3415	0.5	6414.67
Ti 334.941	8.4957b	ppb	0.0511	0.6	2334.35
Tl 190.794	65.3302b	ppb	0.3469	0.5	-5.9435
V 292.401	17.9421b	ppb	0.1632	0.9	488.897
Zn 206.200	5.2928b	ppb	1.0473	19.8	407958

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Cont Calib Verif (CCV) 4/17/2013, 10:40:39 PM Rack 2, Tube 49
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	487.988	487.624	488.562
Al 308.215	4890.45	4875.72	4829.31
As 188.980	467.748	481.854	480.477
B 249.678	495.529	498.832	503.073
Ba 389.178	5065.27	5076.79	5065.93
Be 313.042	513.598	512.699	513.313
Ca 370.602	4948	4981	4966
Cd 226.502	511.948	514.223	514.980
Co 228.615	515.778	518.186	520.370
Cr 267.716	5153.88	5134.31	5100.10
Cu 324.754	5209.92	5079.06	5227.40
Fe 271.441	4930.24	4943.27	4946.85
K 766.491	9870.25	9909.20	9894.56
Mg 279.078	4947.79	4969.13	4970.62
Mn 257.610	5176.52	5213.75	5208.38
Mo 202.032	487.318	489.588	488.441
Na 330.237	7142.98	7314.68	7280.57
Ni 231.604	2589.47	2596.06	2602.92
Pb 220.353	495.891	493.559	493.749
Sb 206.834	918.709	926.024	924.994
Se 196.026	4900.50	4940.40	4962.57
Sn 189.925	4974.58	4979.38	4979.05
Sr 216.596	2501.51	2509.94	2499.78
Ti 334.941	492.417	492.411	490.159
Tl 190.794	4983.44	5005.84	5015.30
V 292.401	4921.96	4937.44	4942.52
Zn 206.200	2576.40	2574.33	2585.02

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	488.058	ppb	0.4731	0.1	36732.8	97.61157
Al 308.215	4865.16	ppb	31.9077	0.7	10677.1	97.30315
As 188.980	476.693	ppb	7.7768	1.6	280.442	95.33862
B 249.678	499.145	ppb	3.7818	0.8	5961.36	19.96579Q
Ba 389.178	5069.33	ppb	6.4686	0.1	108800	101.38654
Be 313.042	513.204	ppb	0.4597	0.1	892837	102.64072
Ca 370.602	4965	ppb	16.32	0.3	13511	99.29521
Cd 226.502	513.717	ppb	1.5780	0.3	17472.4	102.74343
Co 228.615	518.111	ppb	2.2970	0.4	5166.14	103.62225
Cr 267.716	5129.43	ppb	27.2195	0.5	158188	102.58852
Cu 324.754	5172.13	ppb	81.0709	1.6	269050	103.44254
Fe 271.441	4940.12	ppb	8.7380	0.2	8307.33	98.80241
K 766.491	9891.34	ppb	19.6727	0.2	314486	98.91339
Mg 279.078	4962.51	ppb	12.7742	0.3	9855.02	99.25028
Mn 257.610	5199.55	ppb	20.1235	0.4	1204627	103.99107
Mo 202.032	488.449	ppb	1.1351	0.2	3479.05	97.68987
Na 330.237	7246.08	ppb	90.8990	1.3	350.712	96.61435
Ni 231.604	2596.15	ppb	6.7270	0.3	6663.57	103.84615
Pb 220.353	494.400	ppb	1.2949	0.3	870.471	98.87991
Sb 206.834	923.242	ppb	3.9599	0.4	954.041	92.32423
Se 196.026	4934.49	ppb	31.4507	0.6	2295.33	98.68983
Sn 189.925	4977.67	ppb	2.6820	0.1	3614.48	99.55342
Sr 216.596	2503.74	ppb	5.4316	0.2	24007.3	100.14977
Ti 334.941	491.662	ppb	1.3022	0.3	125519	98.33244
Tl 190.794	5001.53	ppb	16.3656	0.3	4788.77	100.03054
V 292.401	4933.97	ppb	10.7077	0.2	130129	98.67947
Zn 206.200	2578.58	ppb	5.6696	0.2	3307.24	103.14327

Cont Calib Blank (CCB) 4/17/2013, 10:46:15 PM Rack 2, Tube 50
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5642u	-0.5196u	-0.8196u
Al 308.215	-0.1612u	-4.8423u	-3.8823u
As 188.980	0.4876	0.4026	-2.5534u
B 249.678	1.5805	0.4052	-0.1037u
Ba 389.178	-1.6373u	-1.0311u	-0.6369u
Be 313.042	-0.4951u	-0.4696u	-0.4381u
Ca 370.602	2.296	3.364	2.823
Cd 226.502	-0.3160u	-0.2773u	-0.3252u
Co 228.615	-0.0860u	-0.1373u	-1.1287u
Cr 267.716	-0.5051u	-0.6188u	-0.1892u
Cu 324.754	-1.2301u	-0.7579u	0.0961
Fe 271.441	-4.7211u	-5.2360u	-7.6738u
K 766.491	-4.2701u	-4.0489u	-2.6921u
Mg 279.078	5.0041	0.6556	2.9613
Mn 257.610	0.3558	0.8419	1.4194
Mo 202.032	-0.8023u	-0.4422u	-0.6609u
Na 330.237	185.327	3.9228	97.4930
Ni 231.604	0.1658	-0.0199u	-1.1257u
Pb 220.353	0.3938	2.2397	-0.5967u
Sb 206.834	0.9701	1.5787	3.3925
Se 196.026	-2.1131u	-4.9666u	-2.2303u
Sn 189.925	-5.3933u	0.0126	-2.8516u
Sr 216.596	-2.1067u	-2.1518u	-2.3299u
Ti 334.941	-0.4544u	-0.4755u	-0.4007u
Tl 190.794	-1.6002u	2.0772	4.4909
V 292.401	-0.1501u	0.0787	0.1883
Zn 206.200	0.8790	2.9772	2.2704

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.6345	ppb	0.1619	25.5	-22.4794	-0.63446
Al 308.215	-2.9619	ppb	2.4726	83.5	-30.7341	-2.96192
As 188.980	-0.5544	ppb	1.7317	312.4	-9.9368	-0.55439
B 249.678	0.6273	ppb	0.8638	137.7	200.070	0.62733
Ba 389.178	-1.1018	ppb	0.5039	45.7	-2.3978	-1.10176
Be 313.042	-0.4676	ppb	0.0285	6.1	-201.881	-0.46760
Ca 370.602	2.828	ppb	0.5338	18.9	25.49	2.82751
Cd 226.502	-0.3062	ppb	0.0254	8.3	32.9028	-0.30616
Co 228.615	-0.4507	ppb	0.5877	130.4	-6.3137	-0.45067
Cr 267.716	-0.4377	ppb	0.2226	50.8	-4.1529	-0.43773
Cu 324.754	-0.6306	ppb	0.6722	106.6	178.030	-0.63064
Fe 271.441	-5.8769	ppb	1.5772	26.8	104.666	-5.87695
K 766.491	-3.6703	ppb	0.8544	23.3	353.184	-3.67034
Mg 279.078	2.8737	ppb	2.1756	75.7	40.3365	2.87366
Mn 257.610	0.8724	ppb	0.5325	61.0	629.665	0.87238
Mo 202.032	-0.6351	ppb	0.1814	28.6	16.9770	-0.63514
Na 330.237	95.5809	ppb	90.7172	94.9	59.6115	95.58092
Ni 231.604	-0.3266	ppb	0.6982	213.8	-5.3970	-0.32660
Pb 220.353	0.6789	ppb	1.4396	212.0	29.0793	0.67894
Sb 206.834	1.9804	ppb	1.2602	63.6	-1.0199	1.98040
Se 196.026	-3.1034	ppb	1.6147	52.0	8.9529	-3.10335
Sn 189.925	-2.7441	ppb	2.7046	98.6	-7.1067	-2.74410
Sr 216.596	-2.1961	ppb	0.1180	5.4	27.6795	-2.19613
Ti 334.941	-0.4436	ppb	0.0385	8.7	-23.9317	-0.44356
Tl 190.794	1.6559	ppb	3.0673	185.2	-10.8084	1.65593
V 292.401	0.0389	ppb	0.1727	443.4	17.4738	0.03894
Zn 206.200	2.0422	ppb	1.0676	52.3	56.6184	2.04218

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680-89241-d-7-a (Samp) 4/17/2013, 10:51:50 PM Rack 2, Tube 51

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0287u	-0.7212u	-0.9538u
Al 308.215	18.2855	21.9612	24.2153
As 188.980	-2.3350u	2.8642	-6.2715u
B 249.678	11.0870	11.8476	10.9637
Ba 389.178	553.104	553.862	553.704
Be 313.042	-0.4328u	-0.4381u	-0.4549u
Ca 370.602	139730	139795	139416
Cd 226.502	-0.4911u	-0.2154	-0.7701u
Co 228.615	-1.2226u	-0.8645u	-1.6074u
Cr 267.716	2.4207	2.3766	1.9004
Cu 324.754	-1.3382u	-1.3279u	-1.0080u
Fe 271.441	5932.13	5944.05	5925.06
K 766.491	12824.8	12838.0	12815.2
Mg 279.078	41643.2	41588.4	41581.5
Mn 257.610	16225.9	16154.4	16158.2
Mo 202.032	-1.4679u	-1.1961u	-0.6401u
Na 330.237	88081.3	88424.0	88323.6
Ni 231.604	4.9272	6.1778	4.3521
Pb 220.353	0.0657	0.3001	0.0945
Sb 206.834	-1.5070u	-1.5811u	-0.1443u
Se 196.026	-5.8873	-8.0121	-1.7056
Sn 189.925	-5.2540u	-4.2436u	0.0336
Sr 216.596	936.194	932.883	933.043
Ti 334.941	0.2916	0.4181	0.4139
Tl 190.794	21.5383u	19.7094u	23.3973u
V 292.401	1.3702	1.4360	0.8919
Zn 206.200	6.3338	5.2441	7.4266

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9012	ppb	0.1603	17.8	-11.3166
Al 308.215	21.4874	ppb	2.9931	13.9	23.0644
As 188.980	-1.9141	ppb	4.5824	239.4	-9.6461
B 249.678	11.2994	ppb	0.4787	4.2	316.707
Ba 389.178	553.557	ppb	0.3997	0.1	12004.2
Be 313.042	-0.4419	ppb	0.0115	2.6	-127.217
Ca 370.602	139647	ppb	203.0	0.1	382538
Cd 226.502	-0.4922	ppb	0.2774	56.4	39.7685
Co 228.615	-1.2315	ppb	0.3715	30.2	-14.2169
Cr 267.716	2.2326	ppb	0.2885	12.9	124.968
Cu 324.754	-1.2247	ppb	0.1878	15.3	148.953
Fe 271.441	5933.75	ppb	9.5959	0.2	9809.55
K 766.491	12826.0	ppb	11.4386	0.1	407652
Mg 279.078	41604.4	ppb	33.8332	0.1	82787.5
Mn 257.610	16179.5	ppb	40.2172	0.2	3747676
Mo 202.032	-1.1014	ppb	0.4219	38.3	13.3741
Na 330.237	88276.3	ppb	176.221	0.2	3903.66
Ni 231.604	5.1524	ppb	0.9334	18.1	8.7958
Pb 220.353	0.1535	ppb	0.1278	83.3	31.7695
Sb 206.834	-1.0775	ppb	0.8090	75.1	-3.8944
Se 196.026	-5.2017	ppb	3.2086	61.7	11.7220
Sn 189.925	-3.1547	ppb	2.8070	89.0	-7.3279
Sr 216.596	934.040	ppb	1.8671	0.2	9021.25
Ti 334.941	0.3745	ppb	0.0719	19.2	349.740
Tl 190.794	21.5483	ppb	1.8440	8.6	-14.7888
V 292.401	1.2327	ppb	0.2970	24.1	48.9887
Zn 206.200	6.3348	ppb	1.0912	17.2	12.1394

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Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9280u	-0.9276u	-1.0994u
Al 308.215	42.0534	41.9494	43.8914
As 188.980	-6.8355u	-3.4115u	-5.9716u
B 249.678	8.1192	8.6847	8.3720
Ba 389.178	386.024	386.794	387.131
Be 313.042	-0.1941u	-0.2015u	-0.1986u
Ca 370.602	111718	112024	111839
Cd 226.502	0.1813	0.1223	0.1217
Co 228.615	0.7215	0.1743	0.4228
Cr 267.716	3.3171	3.3404	2.8297
Cu 324.754	-0.8829u	-0.9229u	-0.8677u
Fe 271.441	57840.8	58060.4	58082.1
K 766.491	20875.4	20852.0	20965.0
Mg 279.078	30830.2	30844.8	30912.1
Mn 257.610	19211.1	19209.8	19268.3
Mo 202.032	0.4730	0.4962	0.0459u
Na 330.237	72332.3	72223.1	72419.1
Ni 231.604	6.5366	4.1741	4.6693
Pb 220.353	3.8698	2.8483	2.0918
Sb 206.834	0.1416	-8.6924u	-1.8463u
Se 196.026	-3.6410	6.7567	1.4606
Sn 189.925	-3.9410u	-5.4465u	-5.6490u
Sr 216.596	1180.66	1186.42	1181.08
Ti 334.941	9.4652	9.6035	9.6273
Tl 190.794	34.2591	26.5515u	29.8061u
V 292.401	10.6651	10.7919	10.9367
Zn 206.200	1.1826	1.1594	2.2265

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9850	ppb	0.0991	10.1	-14.6041
Al 308.215	42.6314	ppb	1.0924	2.6	69.5982
As 188.980	-5.4062	ppb	1.7807	32.9	-12.5322
B 249.678	8.3920	ppb	0.2833	3.4	223.001
Ba 389.178	386.650	ppb	0.5674	0.1	8466.09
Be 313.042	-0.1981	ppb	0.0037	1.9	287.254
Ca 370.602	111860	ppb	153.7	0.1	302848
Cd 226.502	0.1417	ppb	0.0343	24.2	176.300
Co 228.615	0.4395	ppb	0.2740	62.3	1.0677
Cr 267.716	3.1624	ppb	0.2883	9.1	169.795
Cu 324.754	-0.8912	ppb	0.0285	3.2	182.262
Fe 271.441	57994.4	ppb	133.473	0.2	94873.1
K 766.491	20897.5	ppb	59.6309	0.3	663892
Mg 279.078	30862.3	ppb	43.6810	0.1	61320.7
Mn 257.610	19229.7	ppb	33.4346	0.2	4454153
Mo 202.032	0.3384	ppb	0.2535	74.9	21.0203
Na 330.237	72324.9	ppb	98.2126	0.1	3194.75
Ni 231.604	5.1267	ppb	1.2459	24.3	9.7865
Pb 220.353	2.9366	ppb	0.8923	30.4	37.1821
Sb 206.834	-3.4657	ppb	4.6343	133.7	-5.0876
Se 196.026	1.5254	ppb	5.1991	340.8	15.4942
Sn 189.925	-5.0122	ppb	0.9332	18.6	-8.6948
Sr 216.596	1182.72	ppb	3.2138	0.3	11422.5
Ti 334.941	9.5653	ppb	0.0875	0.9	2656.35
Tl 190.794	30.2056	ppb	3.8693	12.8	-13.3353
V 292.401	10.7979	ppb	0.1359	1.3	301.883
Zn 206.200	1.5229	ppb	0.6995	40.0	5.9493

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

680-89241-d-9-a (Samp) 4/17/2013, 11:03:01 PM Rack 2, Tube 53

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7309	-0.6883	-0.5758
Al 308.215	22.8256	23.1618	26.0739
As 188.980	2.9119	5.2425	-1.4976u
B 249.678	9.4127	9.7344	9.4066
Ba 389.178	671.948	670.523	672.555
Be 313.042	-0.4977u	-0.4876u	-0.4978u
Ca 370.602	105116	104909	105022
Cd 226.502	-0.2589	-0.3672	-0.2742
Co 228.615	-1.0028u	-0.2469u	0.0557u
Cr 267.716	3.5002	3.6931	3.9998
Cu 324.754	-1.5428u	-1.6494u	-1.2618u
Fe 271.441	24406.9	24405.3	24403.7
K 766.491	12189.2	12209.6	12218.5
Mg 279.078	32447.1	32385.5	32438.1
Mn 257.610	22720.5	22660.1	22695.4
Mo 202.032	-0.7269u	-1.1781u	0.2435
Na 330.237	135275x	135040x	135130x
Ni 231.604	8.0216	6.5352	5.7747
Pb 220.353	4.3403	-0.8510	1.3618
Sb 206.834	0.0619	-6.4039u	2.4314
Se 196.026	2.1540	0.0267	-11.9092u
Sn 189.925	-5.5874u	-3.9642u	-9.4544u
Sr 216.596	839.851	835.473	840.464
Ti 334.941	-0.2027	-0.1926	-0.1934
Tl 190.794	35.0427	38.3248	38.2924
V 292.401	1.4266	0.8947	1.4498
Zn 206.200	3.8693	3.0441	3.2046

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6650b	ppb	0.0801	12.0	40.8899
Al 308.215	24.0204b	ppb	1.7863	7.4	28.6613
As 188.980	2.2189b	ppb	3.4231	154.3	-7.6082
B 249.678	9.5179b	ppb	0.1875	2.0	274.771
Ba 389.178	671.676b	ppb	1.0434	0.2	14540.0
Be 313.042	-0.4944b	ppb	0.0059	1.2	-236.028
Ca 370.602	105016b	ppb	103.7	0.1	286532
Cd 226.502	-0.3001b	ppb	0.0586	19.5	86.7989
Co 228.615	-0.3980b	ppb	0.5452	137.0	-6.4880
Cr 267.716	3.7310b	ppb	0.2519	6.8	192.569
Cu 324.754	-1.4847b	ppb	0.2002	13.5	141.143
Fe 271.441	24405.3b	ppb	1.5991	0.0	39990.7
K 766.491	12205.7b	ppb	15.0117	0.1	387960
Mg 279.078	32423.5b	ppb	33.2457	0.1	64376.9
Mn 257.610	22692.0b	ppb	30.3800	0.1	5255888
Mo 202.032	-0.5538b	ppb	0.7265	131.2	16.3535
Na 330.237	135148xb	ppb	118.781	0.1	5943.09
Ni 231.604	6.7772b	ppb	1.1428	16.9	13.3440
Pb 220.353	1.6170b	ppb	2.6051	161.1	35.7073
Sb 206.834	-1.3035b	ppb	4.5732	350.8	-3.7053
Se 196.026	-3.2428b	ppb	7.5803	233.8	14.1197
Sn 189.925	-6.3353b	ppb	2.8205	44.5	-9.6405
Sr 216.596	838.596b	ppb	2.7217	0.3	8109.42
Ti 334.941	-0.1962b	ppb	0.0056	2.8	165.046
Tl 190.794	37.2200b	ppb	1.8857	5.1	-9.8216
V 292.401	1.2570b	ppb	0.3140	25.0	49.0758
Zn 206.200	3.3727b	ppb	0.4375	13.0	453286

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89241-d-10-a (Samp) 4/17/2013, 11:08:37 PM Rack 2, Tube 54

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5161	-0.6318	-0.5407
Al 308.215	68.1699	73.2176	66.4046
As 188.980	6.1360	0.6809	1.0925
B 249.678	-13.8396u	-14.3237u	-14.3878u
Ba 389.178	360.646	359.956	360.952
Be 313.042	-0.1597u	-0.1604u	-0.1708u
Ca 370.602	71392	71353	71346
Cd 226.502	0.4938	0.2965	0.2657
Co 228.615	21.1123	21.5639	20.6071
Cr 267.716	3.9964	4.1469	4.2921
Cu 324.754	-0.7076u	-0.5952u	-0.5671u
Fe 271.441	74665.8	74736.1	74677.6
K 766.491	9163.69	9184.26	9194.44
Mg 279.078	14977.9	14961.4	14946.8
Mn 257.610	26026.5	26097.8	26042.0
Mo 202.032	1.1147	1.1444	0.8247
Na 330.237	114466x	114533x	113656x
Ni 231.604	-0.0032	-0.2449	-0.2744
Pb 220.353	2.4765	1.9416	6.2299
Sb 206.834	-3.9051u	-0.3150	-2.6746u
Se 196.026	-0.5207	4.5069	1.5914
Sn 189.925	-7.8399u	-5.1978u	-5.6508u
Sr 216.596	951.494	949.687	949.994
Ti 334.941	2.2282	2.2699	2.2814
Tl 190.794	41.9888u	42.6621	37.2648u
V 292.401	-1.2755u	-1.1283u	-1.8055u
Zn 206.200	14.9053	15.0561	13.7120

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5629b	ppb	0.0609	10.8	59.1884
Al 308.215	69.2640b	ppb	3.5358	5.1	128.334
As 188.980	2.6365b	ppb	3.0377	115.2	-8.1471
B 249.678	-14.1837b	ppb	0.2997	2.1	-57.5224
Ba 389.178	360.518b	ppb	0.5098	0.1	7888.95
Be 313.042	-0.1636b	ppb	0.0062	3.8	329.170
Ca 370.602	71364b	ppb	24.72	0.0	190902
Cd 226.502	0.3520b	ppb	0.1238	35.2	220.080
Co 228.615	21.0944b	ppb	0.4786	2.3	206.080
Cr 267.716	4.1451b	ppb	0.1479	3.6	222.112
Cu 324.754	-0.6233b	ppb	0.0744	11.9	201.488
Fe 271.441	74693.2b	ppb	37.6678	0.1	122161
K 766.491	9180.80b	ppb	15.6666	0.2	291929
Mg 279.078	14962.0b	ppb	15.5588	0.1	29500.1
Mn 257.610	26055.4b	ppb	37.5081	0.1	6034859
Mo 202.032	1.0279b	ppb	0.1767	17.2	25.1149
Na 330.237	114218xb	ppb	488.403	0.4	5017.45
Ni 231.604	-0.1742b	ppb	0.1488	85.4	-3.4883
Pb 220.353	3.5494b	ppb	2.3368	65.8	39.7357
Sb 206.834	-2.2982b	ppb	1.8244	79.4	-3.5738
Se 196.026	1.8592b	ppb	2.5245	135.8	17.2138
Sn 189.925	-6.2295b	ppb	1.4129	22.7	-9.5834
Sr 216.596	950.391b	ppb	0.9667	0.1	9196.84
Ti 334.941	2.2598b	ppb	0.0280	1.2	726.457
Tl 190.794	40.6386b	ppb	2.9411	7.2	-13.7531
V 292.401	-1.4031b	ppb	0.3561	25.4	-21.4888
Zn 206.200	14.5578b	ppb	0.7364	5.1	22.7142

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89241-d-11-a (Samp) 4/17/2013, 11:14:13 PM Rack 2, Tube 55

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.1308	-0.8522	-0.9494
Al 308.215	39.6668	43.1426	44.1003
As 188.980	-3.8270u	-1.1622u	3.4850
B 249.678	-1.1876u	-1.5518u	-1.4014u
Ba 389.178	217.041	214.458	216.065
Be 313.042	-0.2226u	-0.2390u	-0.2222u
Ca 370.602	106174	105517	106069
Cd 226.502	-0.3956	-0.2704	-0.1380
Co 228.615	9.4593	8.9068	9.9588
Cr 267.716	8.5899	8.7682	8.7213
Cu 324.754	-0.4003u	-0.8691u	-0.7315u
Fe 271.441	26381.2	26209.9	26387.6
K 766.491	22247.1	22217.3	22327.2
Mg 279.078	21021.1	20880.4	21024.8
Mn 257.610	39768.3x	39513.5x	39785.7x
Mo 202.032	7.6739	7.2252	7.5288
Na 330.237	125397x	124293x	124935x
Ni 231.604	4.8364	2.1200	4.1035
Pb 220.353	0.1133	-0.3531	5.7894
Sb 206.834	2.4317	-5.3751u	-8.6382u
Se 196.026	12.2785	0.6910	15.5551
Sn 189.925	-0.9730u	-1.1720u	-3.7458u
Sr 216.596	677.317	669.844	674.725
Ti 334.941	8.5610	8.5607	8.5834
Tl 190.794	70.5055	63.3872	75.3176
V 292.401	18.5892	17.9325	17.9453
Zn 206.200	2.3719	3.8096	2.4039

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9775b	ppb	0.1414	14.5	103.198
Al 308.215	42.3032b	ppb	2.3329	5.5	69.1889
As 188.980	-0.5014b	ppb	3.7005	738.1	-9.2777
B 249.678	-1.3803b	ppb	0.1830	13.3	146.489
Ba 389.178	215.855b	ppb	1.3044	0.6	4736.34
Be 313.042	-0.2279b	ppb	0.0096	4.2	222.631
Ca 370.602	105920b	ppb	352.9	0.3	289286
Cd 226.502	-0.2680b	ppb	0.1288	48.1	92.0691
Co 228.615	9.4416b	ppb	0.5262	5.6	91.4197
Cr 267.716	8.6931b	ppb	0.0924	1.1	392.892
Cu 324.754	-0.6670b	ppb	0.2410	36.1	184.294
Fe 271.441	26326.2b	ppb	100.808	0.4	43131.0
K 766.491	22263.9b	ppb	56.8111	0.3	707271
Mg 279.078	20975.4b	ppb	82.3461	0.4	41281.4
Mn 257.610	39689.2xb	ppb	152.376	0.4	9192183
Mo 202.032	7.4760b	ppb	0.2289	3.1	73.2214
Na 330.237	124875xb	ppb	554.111	0.4	5494.52
Ni 231.604	3.6866b	ppb	1.4054	38.1	5.4453
Pb 220.353	1.8499b	ppb	3.4197	184.9	39.8524
Sb 206.834	-3.8605b	ppb	5.6882	147.3	-6.2718
Se 196.026	9.5082b	ppb	7.8097	82.1	23.9540
Sn 189.925	-1.9636b	ppb	1.5466	78.8	-6.4642
Sr 216.596	673.962b	ppb	3.7945	0.6	6531.13
Ti 334.941	8.5684b	ppb	0.0130	0.2	2354.02
Tl 190.794	69.7368b	ppb	6.0022	8.6	-2.6138
V 292.401	18.1557b	ppb	0.3755	2.1	494.585
Zn 206.200	2.8618b	ppb	0.8210	28.7	47.6692

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

mb 680-273251/1-a (Samp) 4/17/2013, 11:19:48 PM Rack 2, Tube 56

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.1415u	-0.3762u	-0.7785u
Al 308.215	-3.9822u	-1.7037u	-4.8064u
As 188.980	2.0466	5.3757	-1.6223u
B 249.678	-7.7925u	-8.5538u	-8.5834u
Ba 389.178	-1.8418u	-1.1420u	-1.2233u
Be 313.042	-0.5335u	-0.5361u	-0.5358u
Ca 370.602	145.8	166.5	181.1
Cd 226.502	-0.3539u	-0.5056u	-0.4037u
Co 228.615	-0.5489u	-0.7323u	0.0387
Cr 267.716	-1.0404u	-0.7675u	-0.8754u
Cu 324.754	-0.8673u	-1.1308u	-1.2124u
Fe 271.441	24.3134	33.3902	41.4751
K 766.491	27.4516	30.1752	30.0719
Mg 279.078	35.7480	41.8268	42.7213
Mn 257.610	60.3667	69.6419	76.0237
Mo 202.032	-1.2530u	-0.7711u	-0.9200u
Na 330.237	187.259	409.050	277.004
Ni 231.604	-1.9627u	-0.9891u	-0.5891u
Pb 220.353	1.0885	1.6145	0.4541
Sb 206.834	-3.3667u	-2.0860u	3.4882
Se 196.026	-1.7964u	-2.6427u	-4.8584u
Sn 189.925	-4.0957u	-8.9805u	-5.2330u
Sr 216.596	-1.0107u	-1.7104u	-1.0739u
Ti 334.941	-0.6469u	-0.5623u	-0.5516u
Tl 190.794	-3.9096u	-2.2121u	0.5553
V 292.401	-0.7250u	-0.7303u	-1.1992u
Zn 206.200	-0.0746u	-1.2507u	0.0970

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7654	ppb	0.3828	50.0	-32.0746
Al 308.215	-3.4974	ppb	1.6071	46.0	-31.9273
As 188.980	1.9333	ppb	3.5004	181.1	-8.4214
B 249.678	-8.3099	ppb	0.4483	5.4	96.6344
Ba 389.178	-1.4024	ppb	0.3827	27.3	-8.7085
Be 313.042	-0.5351	ppb	0.0014	0.3	-319.224
Ca 370.602	164.5	ppb	17.72	10.8	467.1
Cd 226.502	-0.4211	ppb	0.0773	18.4	29.0939
Co 228.615	-0.4142	ppb	0.4028	97.2	-5.9449
Cr 267.716	-0.8944	ppb	0.1375	15.4	-18.0347
Cu 324.754	-1.0702	ppb	0.1804	16.9	155.189
Fe 271.441	33.0595	ppb	8.5856	26.0	168.319
K 766.491	29.2329	ppb	1.5435	5.3	1397.75
Mg 279.078	40.0987	ppb	3.7943	9.5	113.575
Mn 257.610	68.6775	ppb	7.8730	11.5	16332.9
Mo 202.032	-0.9814	ppb	0.2467	25.1	14.5193
Na 330.237	291.105	ppb	111.566	38.3	68.1448
Ni 231.604	-1.1803	ppb	0.7065	59.9	-7.5889
Pb 220.353	1.0524	ppb	0.5810	55.2	29.7312
Sb 206.834	-0.6549	ppb	3.6446	556.6	-3.6131
Se 196.026	-3.0992	ppb	1.5812	51.0	8.9705
Sn 189.925	-6.1031	ppb	2.5560	41.9	-9.5491
Sr 216.596	-1.2650	ppb	0.3870	30.6	36.6603
Ti 334.941	-0.5869	ppb	0.0522	8.9	-60.3604
Tl 190.794	-1.8555	ppb	2.2537	121.5	-14.2805
V 292.401	-0.8848	ppb	0.2723	30.8	-6.8565
Zn 206.200	-0.4095	ppb	0.7336	179.2	-37.4668

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

llcs 680-273251/2-a (Samp) 4/17/2013, 11:25:24 PM Rack 2, Tube 57

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	9.5251	9.4391	9.2284
Al 308.215	212.605	208.463	213.541
As 188.980	22.3346	26.9308	18.7056
B 249.678	92.5815	93.2353	93.6410
Ba 389.178	7.9626	8.9490	9.6239
Be 313.042	3.7667	3.8076	3.7694
Ca 370.602	510.9	517.2	509.5
Cd 226.502	5.0686	4.9158	4.9784
Co 228.615	10.0836	9.7641	10.1839
Cr 267.716	9.9111	9.9863	9.6123
Cu 324.754	20.3460	21.0059	20.7562
Fe 271.441	36.6594	42.7036	43.8577
K 766.491	1010.81	1019.30	1015.65
Mg 279.078	529.318	530.597	523.460
Mn 257.610	9.8027	9.8364	9.8412
Mo 202.032	8.9582	9.0866	9.1444
Na 330.237	961.719	1238.98	984.264
Ni 231.604	41.3924	45.1201	42.6076
Pb 220.353	11.4226	12.4562	13.0505
Sb 206.834	20.0784	21.4464	24.8842
Se 196.026	18.1731	17.3402	20.2463
Sn 189.925	47.5949	47.2484	48.7654
Sr 216.596	7.8630	7.6285	7.2379
Ti 334.941	9.6210	9.5646	9.5800
Tl 190.794	17.9126	18.4024	23.6396
V 292.401	9.4356	9.1977	9.5476
Zn 206.200	22.1640	22.2322	21.9562

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.3975	ppb	0.1526	1.6	732.900
Al 308.215	211.536	ppb	2.7025	1.3	441.892
As 188.980	22.6570	ppb	4.1221	18.2	4.1939
B 249.678	93.1526	ppb	0.5346	0.6	1270.39
Ba 389.178	8.8451	ppb	0.8355	9.4	212.380
Be 313.042	3.7813	ppb	0.0229	0.6	7185.20
Ca 370.602	512.5	ppb	4.119	0.8	1420
Cd 226.502	4.9876	ppb	0.0769	1.5	212.500
Co 228.615	10.0105	ppb	0.2192	2.2	97.8087
Cr 267.716	9.8365	ppb	0.1978	2.0	312.682
Cu 324.754	20.7027	ppb	0.3332	1.6	1287.25
Fe 271.441	41.0736	ppb	3.8661	9.4	183.071
K 766.491	1015.26	ppb	4.2578	0.4	32700.6
Mg 279.078	527.792	ppb	3.8051	0.7	1087.32
Mn 257.610	9.8267	ppb	0.0210	0.2	2706.59
Mo 202.032	9.0631	ppb	0.0953	1.1	85.7932
Na 330.237	1061.65	ppb	153.983	14.5	101.537
Ni 231.604	43.0400	ppb	1.9011	4.4	105.988
Pb 220.353	12.3098	ppb	0.8238	6.7	48.8785
Sb 206.834	22.1363	ppb	2.4760	11.2	18.8328
Se 196.026	18.5865	ppb	1.4965	8.1	18.9932
Sn 189.925	47.8695	ppb	0.7949	1.7	29.6982
Sr 216.596	7.5765	ppb	0.3158	4.2	120.483
Ti 334.941	9.5885	ppb	0.0291	0.3	2537.07
Tl 190.794	19.9849	ppb	3.1745	15.9	6.7960
V 292.401	9.3937	ppb	0.1787	1.9	262.624
Zn 206.200	22.1175	ppb	0.1438	0.6	3274110

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ics 680-273251/3-a (Samp) 4/17/2013, 11:30:59 PM Rack 2, Tube 58
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	19.3486	19.5624	19.2037
Al 308.215	2122.24	2102.84	2122.57
As 188.980	37.1865	38.9190	44.0811
B 249.678	75.4808	74.7695	76.0942
Ba 389.178	39.7526	40.2046	40.5239
Be 313.042	21.3384	21.1754	21.3915
Ca 370.602	2033	2022	2028
Cd 226.502	21.5688	21.6217	21.5972
Co 228.615	21.1588	22.2249	22.1930
Cr 267.716	42.8792	42.2365	42.7903
Cu 324.754	42.4910	42.5320	42.2995
Fe 271.441	2075.18	2055.02	2075.18
K 766.491	2003.50	1987.31	2013.71
Mg 279.078	2091.19	2082.56	2095.95
Mn 257.610	225.141	223.639	225.508
Mo 202.032	40.2115	39.2967	41.0103
Na 330.237	1920.84	1975.48	2134.73
Ni 231.604	41.4357	44.0366	42.6229
Pb 220.353	20.4998	23.8154	21.7401
Sb 206.834	19.8574	19.1390	22.9147
Se 196.026	35.7227	37.4701	41.4750
Sn 189.925	80.1331	84.5486	84.7994
Sr 216.596	40.1748	39.3850	40.0777
Ti 334.941	40.3852	40.0635	40.3758
Tl 190.794	13.4780	14.2789	13.8279
V 292.401	41.1178	40.9200	41.1831
Zn 206.200	44.3899	46.0074	45.7402

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	19.3716	ppb	0.1804	0.9	1483.98
Al 308.215	2115.88	ppb	11.2968	0.5	4635.48
As 188.980	40.0622	ppb	3.5867	9.0	14.7732
B 249.678	75.4482	ppb	0.6630	0.9	1063.24
Ba 389.178	40.1604	ppb	0.3875	1.0	890.795
Be 313.042	21.3018	ppb	0.1126	0.5	37648.3
Ca 370.602	2028	ppb	5.509	0.3	5440
Cd 226.502	21.5959	ppb	0.0265	0.1	780.116
Co 228.615	21.8589	ppb	0.6065	2.8	215.613
Cr 267.716	42.6353	ppb	0.3482	0.8	1324.90
Cu 324.754	42.4408	ppb	0.1241	0.3	2418.49
Fe 271.441	2068.46	ppb	11.6423	0.6	3497.66
K 766.491	2001.50	ppb	13.3092	0.7	64010.6
Mg 279.078	2089.90	ppb	6.7868	0.3	4200.19
Mn 257.610	224.763	ppb	0.9905	0.4	52497.9
Mo 202.032	40.1728	ppb	0.8574	2.1	306.446
Na 330.237	2010.35	ppb	111.125	5.5	142.046
Ni 231.604	42.6984	ppb	1.3021	3.0	105.152
Pb 220.353	22.0184	ppb	1.6752	7.6	65.3965
Sb 206.834	20.6370	ppb	2.0049	9.7	17.4464
Se 196.026	38.2226	ppb	2.9490	7.7	28.1289
Sn 189.925	83.1603	ppb	2.6247	3.2	55.3613
Sr 216.596	39.8792	ppb	0.4307	1.1	430.167
Ti 334.941	40.2748	ppb	0.1831	0.5	10370.9
Tl 190.794	13.8616	ppb	0.4015	2.9	0.5165
V 292.401	41.0737	ppb	0.1370	0.3	1093.27
Zn 206.200	45.3792	ppb	0.8671	1.9	62.2448

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

Ics 680-273251/4-a (Samp) 4/17/2013, 11:36:35 PM Rack 2, Tube 59

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	86.9836	87.3083	87.6809
Al 308.215	852.661	855.424	859.661
As 188.980	93.5911	88.3197	94.2506
B 249.678	155.096	155.678	156.717
Ba 389.178	81.4625	80.6959	80.0182
Be 313.042	84.5436	85.0983	85.1791
Ca 370.602	8152	8205	8205
Cd 226.502	85.3835	85.9719	85.6607
Co 228.615	85.3589	86.2683	86.9411
Cr 267.716	85.6811	86.0456	85.6814
Cu 324.754	83.2185	85.3718	84.2916
Fe 271.441	8495.52	8565.99	8553.29
K 766.491	8215.33	8283.79	8278.95
Mg 279.078	8279.69	8339.25	8328.35
Mn 257.610	883.528	888.788	888.383
Mo 202.032	79.6997	81.6014	81.0643
Na 330.237	7346.04	7144.72	7459.44
Ni 231.604	86.1620	84.1957	86.1428
Pb 220.353	81.3946	86.2623	85.0545
Sb 206.834	77.6089	79.4441	79.2219
Se 196.026	80.8348	85.5564	87.7265
Sn 189.925	78.7436	77.7467	85.2753
Sr 216.596	85.9523	85.7349	86.5495
Ti 334.941	80.6781	81.3470	81.4431
Tl 190.794	18.7847	13.9514	17.8923
V 292.401	81.7103	82.3058	82.6837
Zn 206.200	80.2920	82.0914	80.6761

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	87.3243	ppb	0.3489	0.4	6604.04
Al 308.215	855.916	ppb	3.5257	0.4	1863.54
As 188.980	92.0538	ppb	3.2506	3.5	46.3981
B 249.678	155.830	ppb	0.8209	0.5	1985.67
Ba 389.178	80.7255	ppb	0.7226	0.9	1784.80
Be 313.042	84.9404	ppb	0.3460	0.4	148309
Ca 370.602	8187	ppb	30.89	0.4	21881
Cd 226.502	85.6720	ppb	0.2944	0.3	2967.02
Co 228.615	86.1894	ppb	0.7941	0.9	855.958
Cr 267.716	85.8027	ppb	0.2103	0.2	2658.50
Cu 324.754	84.2940	ppb	1.0766	1.3	4596.97
Fe 271.441	8538.27	ppb	37.5603	0.4	14078.8
K 766.491	8259.35	ppb	38.2031	0.5	262676
Mg 279.078	8315.76	ppb	31.7121	0.4	16611.7
Mn 257.610	886.900	ppb	2.9272	0.3	205895
Mo 202.032	80.7885	ppb	0.9804	1.2	594.333
Na 330.237	7316.73	ppb	159.393	2.2	371.319
Ni 231.604	85.5001	ppb	1.1297	1.3	215.216
Pb 220.353	84.2372	ppb	2.5347	3.0	171.484
Sb 206.834	78.7583	ppb	1.0016	1.3	75.1769
Se 196.026	84.7059	ppb	3.5237	4.2	49.7894
Sn 189.925	80.5886	ppb	4.0893	5.1	53.4950
Sr 216.596	86.0789	ppb	0.4218	0.5	874.205
Ti 334.941	81.1561	ppb	0.4167	0.5	20824.2
Tl 190.794	16.8762	ppb	2.5719	15.2	2.1956
V 292.401	82.2333	ppb	0.4907	0.6	2172.43
Zn 206.200	81.0198	ppb	0.9476	1.2	407.972

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

640-43093-k-1-a (Samp) 4/17/2013, 11:42:12 PM Rack 2, Tube 60

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7198u	-0.9896u	-0.8963u
Al 308.215	-2.9953u	-0.0400u	5.1490
As 188.980	2.3817	0.4493	3.2079
B 249.678	3.0880	3.7015	2.6909
Ba 389.178	0.9040	1.7400	2.2429
Be 313.042	-0.5348u	-0.5267u	-0.5348u
Ca 370.602	42115	42129	42023
Cd 226.502	-0.4268u	-0.4617u	-0.5359u
Co 228.615	-0.5977u	-0.7339u	-0.7140u
Cr 267.716	1.4805	1.2587	1.3175
Cu 324.754	5.3342	4.0428	4.9608
Fe 271.441	-12.7294u	-6.7628u	-3.8089u
K 766.491	424.200	420.018	418.450
Mg 279.078	6920.59	6941.84	6904.93
Mn 257.610	-0.9808u	-0.7459u	-0.5871u
Mo 202.032	-0.7650u	-0.8091u	-0.5187u
Na 330.237	2854.25	2815.58	3010.60
Ni 231.604	-0.3887u	-0.8384u	-1.8582u
Pb 220.353	1.1147	3.3658	4.8007
Sb 206.834	-3.4317u	-1.7762u	-0.8219u
Se 196.026	-2.6727u	2.5965	-7.4297u
Sn 189.925	-4.3684u	-8.0471u	-1.5050u
Sr 216.596	119.995	120.364	120.250
Ti 334.941	-0.5258u	-0.5739u	-0.5835u
Tl 190.794	-1.0576u	-1.7979u	-0.2129u
V 292.401	2.4371	2.3483	2.4195
Zn 206.200	18.1227	18.5568	17.0513

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8686	ppb	0.1370	15.8	-45.8453
Al 308.215	0.7046	ppb	4.1229	585.2	-22.6758
As 188.980	2.0129	ppb	1.4158	70.3	-8.0182
B 249.678	3.1601	ppb	0.5092	16.1	229.373
Ba 389.178	1.6289	ppb	0.6763	41.5	72.8900
Be 313.042	-0.5321	ppb	0.0047	0.9	-300.956
Ca 370.602	42089	ppb	57.45	0.1	115316
Cd 226.502	-0.4748	ppb	0.0557	11.7	27.2479
Co 228.615	-0.6819	ppb	0.0736	10.8	-8.6136
Cr 267.716	1.3522	ppb	0.1149	8.5	51.0644
Cu 324.754	4.7793	ppb	0.6646	13.9	459.242
Fe 271.441	-7.7671	ppb	4.5443	58.5	101.613
K 766.491	420.890	ppb	2.9722	0.7	13831.5
Mg 279.078	6922.45	ppb	18.5270	0.3	13844.3
Mn 257.610	-0.7713	ppb	0.1981	25.7	289.811
Mo 202.032	-0.6976	ppb	0.1565	22.4	16.5294
Na 330.237	2893.48	ppb	103.259	3.6	181.529
Ni 231.604	-1.0285	ppb	0.7530	73.2	-7.1997
Pb 220.353	3.0937	ppb	1.8580	60.1	33.1941
Sb 206.834	-2.0099	ppb	1.3205	65.7	-4.9328
Se 196.026	-2.5020	ppb	5.0153	200.5	9.2308
Sn 189.925	-4.6402	ppb	3.2795	70.7	-8.4689
Sr 216.596	120.203	ppb	0.1889	0.2	1205.39
Ti 334.941	-0.5611	ppb	0.0309	5.5	-25.7256
Tl 190.794	-1.0228	ppb	0.7931	77.5	-13.3793
V 292.401	2.4016	ppb	0.0470	2.0	79.9140
Zn 206.200	17.9103	ppb	0.7749	4.3	27.0217

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

Cont Calib Verif (CCV) 4/17/2013, 11:47:48 PM Rack 3, Tube 1
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	489.243	489.282	495.883
Al 308.215	4836.03	4888.56	4921.33
As 188.980	482.650	491.212	492.325
B 249.678	504.488	509.682	512.757
Ba 389.178	5090.54	5107.59	5116.90
Be 313.042	516.212	518.336	519.728
Ca 370.602	4945	4986	4991
Cd 226.502	519.794	521.744	522.408
Co 228.615	524.834	525.587	527.059
Cr 267.716	5123.07	5177.78	5199.10
Cu 324.754	5180.65	5177.78	5196.10
Fe 271.441	4977.24	4997.32	5014.33
K 766.491	9826.72	9834.47	9857.98
Mg 279.078	5018.57	5025.18	5035.64
Mn 257.610	5251.26	5270.78	5293.88
Mo 202.032	491.471	493.442	495.403
Na 330.237	7093.54	7268.56	7276.47
Ni 231.604	2627.48	2639.03	2644.41
Pb 220.353	498.571	506.072	507.299
Sb 206.834	925.217	934.802	942.060
Se 196.026	4995.64	5021.28	5055.71
Sn 189.925	5000.01	5039.47	5060.83
Sr 216.596	2519.62	2532.09	2545.41
Ti 334.941	490.485	493.504	494.902
Tl 190.794	5061.93	5085.00	5080.00
V 292.401	4975.64	4988.79	5001.50
Zn 206.200	2622.06	2642.59	2650.59

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	491.469	ppb	3.8224	0.8	36988.5	98.29388
Al 308.215	4881.97	ppb	43.0282	0.9	10714.0	97.63947
As 188.980	488.729	ppb	5.2937	1.1	287.766	97.74577
B 249.678	508.976	ppb	4.1796	0.8	6075.01	20.35902Q
Ba 389.178	5105.01	ppb	13.3675	0.3	109565	102.10021
Be 313.042	518.092	ppb	1.7706	0.3	901335	103.61835
Ca 370.602	4974	ppb	25.13	0.5	13535	99.48290
Cd 226.502	521.315	ppb	1.3584	0.3	17730.2	104.26306
Co 228.615	525.827	ppb	1.1319	0.2	5243.10	105.16534
Cr 267.716	5166.65	ppb	39.2193	0.8	159336	103.33304
Cu 324.754	5184.84	ppb	9.8504	0.2	269711	103.69685
Fe 271.441	4996.30	ppb	18.5683	0.4	8400.90	99.92598
K 766.491	9839.72	ppb	16.2802	0.2	312847	98.39725
Mg 279.078	5026.46	ppb	8.6082	0.2	9981.47	100.52926
Mn 257.610	5271.97	ppb	21.3370	0.4	1221399	105.43948
Mo 202.032	493.439	ppb	1.9659	0.4	3514.36	98.68774
Na 330.237	7212.86	ppb	103.412	1.4	348.840	96.17144
Ni 231.604	2636.97	ppb	8.6513	0.3	6768.42	105.47894
Pb 220.353	503.981	ppb	4.7251	0.9	886.803	100.79616
Sb 206.834	934.026	ppb	8.4482	0.9	965.519	93.40260
Se 196.026	5024.21	ppb	30.1406	0.6	2336.86	100.48413
Sn 189.925	5033.43	ppb	30.8550	0.6	3655.03	100.66869
Sr 216.596	2532.37	ppb	12.8943	0.5	24281.0	101.29495
Ti 334.941	492.964	ppb	2.2577	0.5	125851	98.59274
Tl 190.794	5075.65	ppb	12.1345	0.2	4859.91	101.51290
V 292.401	4988.64	ppb	12.9310	0.3	131569	99.77281
Zn 206.200	2638.42	ppb	14.7154	0.6	3383.97	105.53666

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

Cont Calib Blank (CCB) 4/17/2013, 11:53:24 PM Rack 3, Tube 2
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5197u	-0.4836u	-0.8630u
Al 308.215	-1.2309u	-3.6703u	-3.9504u
As 188.980	3.0686	0.0999	-2.8905u
B 249.678	1.5075	0.4287	0.4511
Ba 389.178	-0.0245u	-0.5163u	-1.2074u
Be 313.042	-0.4473u	-0.4247u	-0.4302u
Ca 370.602	3.100	2.352	0.2554
Cd 226.502	-0.2578u	-0.3451u	-0.3887u
Co 228.615	-0.5330u	-0.6986u	0.1587
Cr 267.716	-0.1314u	0.0960	-0.0724u
Cu 324.754	0.2303	-0.0355u	0.4860
Fe 271.441	-12.2468u	-14.0325u	-5.5797u
K 766.491	-3.3586u	-4.6084u	-3.7072u
Mg 279.078	2.1340	4.0355	1.4965
Mn 257.610	-0.0939u	0.0601	0.1039
Mo 202.032	-0.4827u	-0.2804u	-0.4113u
Na 330.237	43.1347	15.9278	-73.7190u
Ni 231.604	0.1832	-0.5126u	-0.3671u
Pb 220.353	-0.3169u	0.0849	1.3522
Sb 206.834	4.3129	6.2402	1.3015
Se 196.026	11.0977	6.5318	6.3600
Sn 189.925	-6.6800u	-1.2061u	-1.5631u
Sr 216.596	-1.9208u	-1.8304u	-2.2860u
Ti 334.941	-0.3302u	-0.4274u	-0.3777u
Tl 190.794	7.6353	0.4229	1.5704
V 292.401	0.3175	0.5884	0.4802
Zn 206.200	-1.1271u	-2.0515u	-2.1939u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.6221	ppb	0.2094	33.7	-21.5618	-0.62212
Al 308.215	-2.9506	ppb	1.4958	50.7	-30.6922	-2.95055
As 188.980	0.0927	ppb	2.9796	3215.1	-9.5431	0.09267
B 249.678	0.7958	ppb	0.6164	77.5	202.023	0.79577
Ba 389.178	-0.5827	ppb	0.5943	102.0	8.7336	-0.58273
Be 313.042	-0.4341	ppb	0.0118	2.7	-143.660	-0.43409
Ca 370.602	1.902	ppb	1.475	77.5	23.20	1.90243
Cd 226.502	-0.3305	ppb	0.0666	20.2	32.0683	-0.33055
Co 228.615	-0.3577	ppb	0.4548	127.1	-5.3972	-0.35767
Cr 267.716	-0.0359	ppb	0.1180	328.6	8.2333	-0.03591
Cu 324.754	0.2269	ppb	0.2608	114.9	222.616	0.22692
Fe 271.441	-10.6197	ppb	4.4551	42.0	96.9495	-10.61966
K 766.491	-3.8914	ppb	0.6449	16.6	346.166	-3.89141
Mg 279.078	2.5553	ppb	1.3209	51.7	39.7137	2.55532
Mn 257.610	0.0234	ppb	0.1039	444.8	433.029	0.02335
Mo 202.032	-0.3914	ppb	0.1026	26.2	18.7060	-0.39145
Na 330.237	-4.8855	ppb	61.1440	1251.5	55.2551	-4.88553
Ni 231.604	-0.2322	ppb	0.3670	158.1	-5.1545	-0.23216
Pb 220.353	0.3734	ppb	0.8711	233.3	28.5577	0.37337
Sb 206.834	3.9515	ppb	2.4891	63.0	0.9182	3.95154
Se 196.026	7.9965	ppb	2.6871	33.6	14.0898	7.99652
Sn 189.925	-3.1497	ppb	3.0625	97.2	-7.4017	-3.14972
Sr 216.596	-2.0124	ppb	0.2412	12.0	29.4249	-2.01240
Ti 334.941	-0.3784	ppb	0.0486	12.8	-7.3187	-0.37844
Tl 190.794	3.2095	ppb	3.8755	120.8	-9.3140	3.20951
V 292.401	0.4620	ppb	0.1363	29.5	28.5745	0.46204
Zn 206.200	-1.7908	ppb	0.5792	32.3	-15.6882	-1.79081

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

640-43093-k-1-aSD^5 (Samp) 4/17/2013, 11:59:01 PM Rack 3, Tube 3

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0126u	-1.0378u	-0.9206u
Al 308.215	-2.8346u	0.4045	-1.3643u
As 188.980	-3.6872u	0.1777	-1.9558u
B 249.678	-3.2440u	-3.6221u	-4.0053u
Ba 389.178	-1.5251u	-1.3361u	-2.2027u
Be 313.042	-0.5454u	-0.5426u	-0.5327u
Ca 370.602	8401	8452	8437
Cd 226.502	-0.4495u	-0.3207u	-0.3635u
Co 228.615	-0.0772u	-0.3918u	-0.6733u
Cr 267.716	-0.9668u	-1.0831u	-0.9473u
Cu 324.754	-0.3447u	0.0907	0.1891
Fe 271.441	-16.6254u	-16.4382u	-10.7142u
K 766.491	72.9668	73.0898	73.9024
Mg 279.078	1375.20	1389.88	1383.03
Mn 257.610	-1.4373u	-1.3670u	-1.2432u
Mo 202.032	-1.1863u	-0.2977u	-0.7991u
Na 330.237	534.699	609.851	619.775
Ni 231.604	-1.2664u	-0.0687u	-0.9757u
Pb 220.353	-1.5772u	1.5478	-0.7707u
Sb 206.834	-2.6456u	-1.7241u	0.2324
Se 196.026	1.3530	-2.1876u	-2.8062u
Sn 189.925	-3.1564u	-3.6493u	-4.8677u
Sr 216.596	21.7377	21.9026	21.9651
Ti 334.941	-0.5435u	-0.5666u	-0.5695u
Tl 190.794	-3.6292u	1.6431	-1.5692u
V 292.401	-0.5080u	-0.4231u	-0.5981u
Zn 206.200	2.3554	0.8086	1.7573

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9903	ppb	0.0617	6.2	-50.4161
Al 308.215	-1.2648	ppb	1.6218	128.2	-26.9946
As 188.980	-1.8218	ppb	1.9359	106.3	-10.6371
B 249.678	-3.6238	ppb	0.3806	10.5	150.898
Ba 389.178	-1.6879	ppb	0.4557	27.0	-11.6505
Be 313.042	-0.5402	ppb	0.0066	1.2	-325.516
Ca 370.602	8430	ppb	26.17	0.3	23111
Cd 226.502	-0.3779	ppb	0.0656	17.4	30.4716
Co 228.615	-0.3808	ppb	0.2982	78.3	-5.6212
Cr 267.716	-0.9991	ppb	0.0734	7.3	-21.4637
Cu 324.754	-0.0216	ppb	0.2841	1312.3	209.692
Fe 271.441	-14.5926	ppb	3.3601	23.0	90.4517
K 766.491	73.3196	ppb	0.5084	0.7	2797.35
Mg 279.078	1382.70	ppb	7.3458	0.5	2793.02
Mn 257.610	-1.3492	ppb	0.0983	7.3	123.297
Mo 202.032	-0.7611	ppb	0.4455	58.5	16.0846
Na 330.237	588.108	ppb	46.5194	7.9	81.0954
Ni 231.604	-0.7703	ppb	0.6248	81.1	-6.5366
Pb 220.353	-0.2667	ppb	1.6223	608.4	27.4673
Sb 206.834	-1.3791	ppb	1.4697	106.6	-4.3290
Se 196.026	-1.2136	ppb	2.2442	184.9	9.8270
Sn 189.925	-3.8911	ppb	0.8809	22.6	-7.9375
Sr 216.596	21.8685	ppb	0.1174	0.5	259.244
Ti 334.941	-0.5599	ppb	0.0142	2.5	-47.9761
Tl 190.794	-1.1851	ppb	2.6570	224.2	-13.5353
V 292.401	-0.5098	ppb	0.0875	17.2	2.9845
Zn 206.200	1.6404	ppb	0.7890	47.5	671023

640-43093-k-1-aPDS (Samp) 4/18/2013, 12:04:37 AM Rack 3, Tube 4
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	48.1475	48.2135	47.1739
Al 308.215	1992.90	2000.68	2022.05
As 188.980	2187.09	2181.45	2187.32
B 249.678	1006.13	1013.65	1014.57
Ba 389.178	2069.57	2067.09	2069.31
Be 313.042	51.3343	51.2009	51.3179
Ca 370.602	46143	46163	46309
Cd 226.502	52.0338	52.1384	52.3478
Co 228.615	529.375	534.461	524.861
Cr 267.716	208.517	207.956	210.232
Cu 324.754	267.569	266.838	267.115
Fe 271.441	988.664	991.119	985.152
K 766.491	5695.42	5681.47	5669.37
Mg 279.078	11950.8	11948.9	11969.8
Mn 257.610	537.935	538.335	537.644
Mo 202.032	504.741	507.004	507.409
Na 330.237	8158.99	8316.44	8346.04
Ni 231.604	517.841	518.882	523.203
Pb 220.353	503.537	502.859	504.648
Sb 206.834	474.802	486.714	483.685
Se 196.026	2042.35	2013.12	2030.87
Sn 189.925	1013.95	1017.69	1032.70
Sr 216.596	638.544	638.057	642.027
Ti 334.941	985.698	983.911	987.875
Tl 190.794	2076.74	2080.14	2077.60
V 292.401	503.794	503.054	501.620
Zn 206.200	537.247	538.513	538.099

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	47.8450	ppb	0.5821	1.2	3605.82
Al 308.215	2005.21	ppb	15.0932	0.8	4412.30
As 188.980	2185.29	ppb	3.3265	0.2	1320.90
B 249.678	1011.45	ppb	4.6296	0.5	11892.5
Ba 389.178	2068.66	ppb	1.3592	0.1	44431.8
Be 313.042	51.2844	ppb	0.0727	0.1	89717.9
Ca 370.602	46205	ppb	90.92	0.2	126692
Cd 226.502	52.1733	ppb	0.1599	0.3	1814.66
Co 228.615	529.565	ppb	4.8028	0.9	5279.56
Cr 267.716	208.902	ppb	1.1860	0.6	6451.64
Cu 324.754	267.174	ppb	0.3692	0.1	14109.6
Fe 271.441	988.312	ppb	2.9991	0.3	1812.32
K 766.491	5682.09	ppb	13.0379	0.2	180857
Mg 279.078	11956.5	ppb	11.5618	0.1	23878.3
Mn 257.610	537.971	ppb	0.3466	0.1	125089
Mo 202.032	506.384	ppb	1.4378	0.3	3614.72
Na 330.237	8273.82	ppb	100.539	1.2	406.100
Ni 231.604	519.975	ppb	2.8430	0.5	1330.98
Pb 220.353	503.681	ppb	0.9035	0.2	884.971
Sb 206.834	481.734	ppb	6.1913	1.3	467.118
Se 196.026	2028.78	ppb	14.7272	0.7	949.455
Sn 189.925	1021.45	ppb	9.9235	1.0	737.670
Sr 216.596	639.543	ppb	2.1652	0.3	6162.49
Ti 334.941	985.828	ppb	1.9853	0.2	251594
Tl 190.794	2078.16	ppb	1.7690	0.1	1984.14
V 292.401	502.823	ppb	1.1051	0.2	13223.2
Zn 206.200	537.953	ppb	0.6453	0.1	695.302

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640-43093-k-1-b ms (Samp) 4/18/2013, 12:10:13 AM Rack 3, Tube 5

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	19.6783	19.4149	18.9429
Al 308.215	2166.59	2165.84	2174.61
As 188.980	47.4573	46.8167	42.0464
B 249.678	102.799	102.823	100.810
Ba 389.178	47.8784	46.9812	46.7003
Be 313.042	21.9032	21.8485	21.8702
Ca 370.602	44902	44829	44992
Cd 226.502	21.9166	22.2115	22.1176
Co 228.615	21.9667	22.4905	21.8985
Cr 267.716	45.5019	45.1959	45.5622
Cu 324.754	50.2755	49.9710	49.8235
Fe 271.441	2112.05	2109.58	2111.68
K 766.491	2580.42	2570.74	2563.59
Mg 279.078	9240.57	9225.16	9232.46
Mn 257.610	229.320	229.096	229.294
Mo 202.032	41.5941	42.3159	42.2833
Na 330.237	5298.39	5347.76	5346.71
Ni 231.604	43.0368	42.8896	44.2457
Pb 220.353	22.0779	21.7172	24.0164
Sb 206.834	21.1694	20.7582	20.9437
Se 196.026	45.0577	38.6311	49.6009
Sn 189.925	79.7578	80.1986	81.2955
Sr 216.596	165.129	166.652	166.521
Ti 334.941	41.3241	41.2052	41.3651
Tl 190.794	17.4053	19.5978	19.3576
V 292.401	45.7136	46.0181	45.4388
Zn 206.200	65.2319	64.6387	65.2721

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	19.3453	ppb	0.3726	1.9	1476.09
Al 308.215	2169.01	ppb	4.8622	0.2	4752.52
As 188.980	45.4401	ppb	2.9565	6.5	18.4097
B 249.678	102.144	ppb	1.1555	1.1	1372.01
Ba 389.178	47.1866	ppb	0.6153	1.3	1058.85
Be 313.042	21.8740	ppb	0.0275	0.1	38656.3
Ca 370.602	44908	ppb	81.39	0.2	122901
Cd 226.502	22.0819	ppb	0.1507	0.7	796.762
Co 228.615	22.1186	ppb	0.3239	1.5	218.180
Cr 267.716	45.4200	ppb	0.1964	0.4	1410.80
Cu 324.754	50.0233	ppb	0.2305	0.5	2812.70
Fe 271.441	2111.10	ppb	1.3309	0.1	3567.47
K 766.491	2571.58	ppb	8.4459	0.3	82108.6
Mg 279.078	9232.73	ppb	7.7080	0.1	18449.5
Mn 257.610	229.237	ppb	0.1224	0.1	53576.3
Mo 202.032	42.0644	ppb	0.4077	1.0	319.861
Na 330.237	5330.95	ppb	28.2083	0.5	286.713
Ni 231.604	43.3907	ppb	0.7441	1.7	106.931
Pb 220.353	22.6038	ppb	1.2366	5.5	66.3908
Sb 206.834	20.9571	ppb	0.2059	1.0	17.7754
Se 196.026	44.4299	ppb	5.5118	12.4	31.0028
Sn 189.925	80.4173	ppb	0.7918	1.0	53.3837
Sr 216.596	166.100	ppb	0.8442	0.5	1644.55
Ti 334.941	41.2982	ppb	0.0830	0.2	10661.0
Tl 190.794	18.7869	ppb	1.2025	6.4	5.2424
V 292.401	45.7235	ppb	0.2898	0.6	1215.73
Zn 206.200	65.0476	ppb	0.3547	0.5	87.5307

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640-43093-k-1-c msd (Samp) 4/18/2013, 12:15:50 AM Rack 3, Tube 6

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	15.0188	15.1257	14.8597
Al 308.215	2167.50	2156.30	2161.22
As 188.980	42.3666	43.6100	43.8988
B 249.678	91.3106	91.6473	92.1996
Ba 389.178	46.2809	45.1929	45.8206
Be 313.042	21.8441	21.8243	21.8373
Ca 370.602	44390	44290	44318
Cd 226.502	22.0024	22.0545	22.2557
Co 228.615	21.6369	21.4425	21.9079
Cr 267.716	45.3333	45.8505	45.2267
Cu 324.754	49.9765	49.9225	50.0404
Fe 271.441	2102.48	2103.28	2106.38
K 766.491	2553.42	2551.37	2551.89
Mg 279.078	9084.40	9103.64	9124.22
Mn 257.610	227.234	227.788	227.936
Mo 202.032	40.7538	41.0188	41.2550
Na 330.237	5411.16	5300.69	5416.50
Ni 231.604	43.0538	44.7111	43.1410
Pb 220.353	23.9941	23.1365	24.3072
Sb 206.834	16.5641	25.9458	22.5370
Se 196.026	45.2227	44.9368	37.8182
Sn 189.925	81.8668	77.5521	77.2999
Sr 216.596	164.195	165.370	164.387
Ti 334.941	40.7833	40.8388	40.7767
Tl 190.794	18.5515	17.8077	12.8654
V 292.401	45.1401	45.2153	45.1458
Zn 206.200	61.3413	61.5572	61.5591

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	15.0014	ppb	0.1338	0.9	1148.99
Al 308.215	2161.67	ppb	5.6147	0.3	4736.30
As 188.980	43.2918	ppb	0.8141	1.9	17.0970
B 249.678	91.7192	ppb	0.4489	0.5	1251.42
Ba 389.178	45.7648	ppb	0.5461	1.2	1028.02
Be 313.042	21.8352	ppb	0.0100	0.0	38589.0
Ca 370.602	44333	ppb	51.24	0.1	121326
Cd 226.502	22.1042	ppb	0.1337	0.6	797.503
Co 228.615	21.6624	ppb	0.2337	1.1	213.656
Cr 267.716	45.4702	ppb	0.3336	0.7	1412.35
Cu 324.754	49.9798	ppb	0.0590	0.1	2810.41
Fe 271.441	2104.05	ppb	2.0577	0.1	3555.85
K 766.491	2552.23	ppb	1.0657	0.0	81494.2
Mg 279.078	9104.09	ppb	19.9120	0.2	18192.8
Mn 257.610	227.653	ppb	0.3702	0.2	53208.7
Mo 202.032	41.0092	ppb	0.2507	0.6	312.372
Na 330.237	5376.12	ppb	65.3759	1.2	288.711
Ni 231.604	43.6353	ppb	0.9327	2.1	107.559
Pb 220.353	23.8126	ppb	0.6061	2.5	68.4526
Sb 206.834	21.6823	ppb	4.7489	21.9	18.5016
Se 196.026	42.6592	ppb	4.1949	9.8	30.1829
Sn 189.925	78.9063	ppb	2.5670	3.3	52.2846
Sr 216.596	164.651	ppb	0.6307	0.4	1630.64
Ti 334.941	40.7996	ppb	0.0341	0.1	10533.3
Tl 190.794	16.4082	ppb	3.0906	18.8	2.9591
V 292.401	45.1670	ppb	0.0419	0.1	1201.23
Zn 206.200	61.4859	ppb	0.1252	0.2	8299507

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89216-d-1-a (Samp) **4/18/2013, 12:21:26 AM** **Rack 3, Tube 7**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.8293u	0.5896u	1.0628u
Al 308.215	4.5266	8.4486	10.8190
As 188.980	-2.8305u	-5.0326u	-4.6900u
B 249.678	85.4007	85.0327	86.0385
Ba 389.178	39.7166	40.3396	39.9874
Be 313.042	-0.5513u	-0.5459u	-0.5540u
Ca 370.602	63702	63386	63440
Cd 226.502	-0.3574u	-0.1570u	-0.3839u
Co 228.615	-1.1940u	-0.2692u	-1.0852u
Cr 267.716	-1.3954u	-0.8247u	-1.3525u
Cu 324.754	-0.8486u	-0.7059u	-0.9806u
Fe 271.441	81.3017	81.0583	87.7956
K 766.491	13886.1	13847.0	13822.9
Mg 279.078	42807.4	42609.5	42746.5
Mn 257.610	11.0225	10.9893	11.0473
Mo 202.032	2.3355	1.8336	1.7475
Na 330.237	346982x	350817x	349645x
Ni 231.604	0.3329	1.5571	0.0439
Pb 220.353	5.7281	3.8427	3.0167
Sb 206.834	-0.4400u	-1.7837u	0.5391
Se 196.026	7.4024	-4.6673u	1.6296
Sn 189.925	-4.0351u	-2.1662u	-5.2616u
Sr 216.596	17605.3x	17509.6x	17556.2x
Ti 334.941	-0.9829u	-1.0341u	-0.9923u
Tl 190.794	-2.7299u	-5.2030u	-0.3466u
V 292.401	-1.2890u	-1.4424u	-0.9759u
Zn 206.200	24.1484	22.9014	23.5377

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.8272b	ppb	0.2366	28.6	-705.951
Al 308.215	7.9314b	ppb	3.1779	40.1	-6.6233
As 188.980	-4.1844b	ppb	1.1850	28.3	-11.6122
B 249.678	85.4906b	ppb	0.5089	0.6	1181.73
Ba 389.178	40.0145b	ppb	0.3124	0.8	982.794
Be 313.042	-0.5504b	ppb	0.0041	0.7	-362.407
Ca 370.602	63509b	ppb	169.4	0.3	173988
Cd 226.502	-0.2994b	ppb	0.1241	41.4	32.1635
Co 228.615	-0.8495b	ppb	0.5054	59.5	-10.3494
Cr 267.716	-1.1909b	ppb	0.3178	26.7	-23.6084
Cu 324.754	-0.8450b	ppb	0.1374	16.3	166.994
Fe 271.441	83.3852b	ppb	3.8214	4.6	250.439
K 766.491	13852.0b	ppb	31.9029	0.2	440223
Mg 279.078	42721.1b	ppb	101.330	0.2	85259.6
Mn 257.610	11.0197b	ppb	0.0291	0.3	3227.27
Mo 202.032	1.9722b	ppb	0.3175	16.1	35.4815
Na 330.237	349148xb	ppb	1965.42	0.6	15281.8
Ni 231.604	0.6446b	ppb	0.8033	124.6	-2.9006
Pb 220.353	4.1958b	ppb	1.3897	33.1	35.0720
Sb 206.834	-0.5615b	ppb	1.1662	207.7	-3.5617
Se 196.026	1.4549b	ppb	6.0367	414.9	11.0650
Sn 189.925	-3.8210b	ppb	1.5588	40.8	-7.7651
Sr 216.596	17557.0xb	ppb	47.8945	0.3	168429
Ti 334.941	-1.0031b	ppb	0.0273	2.7	-14.7040
Tl 190.794	-2.7599b	ppb	2.4283	88.0	-15.0740
V 292.401	-1.2358b	ppb	0.2378	19.2	-18.6295
Zn 206.200	23.5292b	ppb	0.6236	2.7	342543

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680-89216-d-2-a (Samp) 4/18/2013, 12:27:02 AM Rack 3, Tube 8
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9766u	-0.8017u	-1.0436u
Al 308.215	-0.9343u	3.5484	-0.6092u
As 188.980	-0.0889	0.9410	1.9449
B 249.678	620.752	625.423	631.085
Ba 389.178	12.6010	12.4785	12.4930
Be 313.042	-0.5261u	-0.5138u	-0.5252u
Ca 370.602	28797	28820	28891
Cd 226.502	-0.3306u	-0.3689u	-0.6542u
Co 228.615	-0.7269u	-1.5928u	-0.0319u
Cr 267.716	-1.4625u	-0.9168u	-1.0754u
Cu 324.754	-0.5947u	-0.8122u	-0.8231u
Fe 271.441	-6.6984u	-6.7297u	-8.7846u
K 766.491	42570.0x	42638.9x	42477.9x
Mg 279.078	30205.1	30274.8	30383.0
Mn 257.610	4.5144	4.5129	4.6146
Mo 202.032	-0.8179u	-1.4699u	-1.3442u
Na 330.237	820280x	818148x	823317x
Ni 231.604	-0.5662u	-1.7194u	-0.3011u
Pb 220.353	1.5877	-0.3400u	-0.5411u
Sb 206.834	-2.1451u	2.0564	-0.6322u
Se 196.026	-5.9729u	-2.7747u	-3.0613u
Sn 189.925	-6.0579u	-6.9827u	-0.7057u
Sr 216.596	460.195	460.597	464.355
Ti 334.941	-0.7858u	-0.8116u	-0.8170u
Tl 190.794	-4.3561u	-3.2588u	-2.8685u
V 292.401	-0.5746u	-0.7230u	-1.0668u
Zn 206.200	-1.4872u	-1.1914u	-1.4736u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9406b	ppb	0.1249	13.3	-67.0234
Al 308.215	0.6683b	ppb	2.4995	374.0	-22.7547
As 188.980	0.9323b	ppb	1.0169	109.1	-8.7890
B 249.678	625.753b	ppb	5.1748	0.8	7431.89
Ba 389.178	12.5242b	ppb	0.0670	0.5	362.932
Be 313.042	-0.5217b	ppb	0.0068	1.3	-371.297
Ca 370.602	28836b	ppb	48.73	0.2	79010
Cd 226.502	-0.4512b	ppb	0.1769	39.2	24.4488
Co 228.615	-0.7839b	ppb	0.7820	99.8	-9.5992
Cr 267.716	-1.1516b	ppb	0.2807	24.4	-17.3982
Cu 324.754	-0.7433b	ppb	0.1289	17.3	172.172
Fe 271.441	-7.4042b	ppb	1.1955	16.1	102.176
K 766.491	42562.3xb	ppb	80.7698	0.2	1351676
Mg 279.078	30287.6b	ppb	89.6809	0.3	60455.9
Mn 257.610	4.5473b	ppb	0.0583	1.3	1652.93
Mo 202.032	-1.2107b	ppb	0.3459	28.6	12.8935
Na 330.237	820582xb	ppb	2597.80	0.3	35841.4
Ni 231.604	-0.8622b	ppb	0.7541	87.5	-6.7726
Pb 220.353	0.2355b	ppb	1.1753	499.0	28.3251
Sb 206.834	-0.2403b	ppb	2.1279	885.6	-3.2077
Se 196.026	-3.9363b	ppb	1.7695	45.0	8.5684
Sn 189.925	-4.5821b	ppb	3.3887	74.0	-8.1949
Sr 216.596	461.716b	ppb	2.2945	0.5	4479.32
Ti 334.941	-0.8048b	ppb	0.0167	2.1	-46.3239
Tl 190.794	-3.4945b	ppb	0.7713	22.1	-15.7644
V 292.401	-0.7881b	ppb	0.2525	32.0	-9.7892
Zn 206.200	-1.3840b	ppb	0.1670	12.1	-2.2134

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89216-d-3-a (Samp) 4/18/2013, 12:32:38 AM Rack 3, Tube 9

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3319u	-0.3101u	-0.4981u
Al 308.215	-1.6085u	-4.4398u	7.1438
As 188.980	-1.6531u	7.3319	4.3424
B 249.678	57.5488	56.8424	57.2382
Ba 389.178	116.969	118.454	118.413
Be 313.042	-0.5268u	-0.5270u	-0.5113u
Ca 370.602	39662	39669	39573
Cd 226.502	-0.7974u	-0.3384u	-0.3818u
Co 228.615	-0.5746u	-1.5476u	-0.2902u
Cr 267.716	-1.0729u	-0.6811u	-0.8574u
Cu 324.754	-0.7692u	-0.7094u	-0.3635u
Fe 271.441	61.5327	59.3379	62.2502
K 766.491	5651.13	5656.84	5652.43
Mg 279.078	21119.1	21142.8	21186.3
Mn 257.610	2.9309	3.1635	3.5093
Mo 202.032	27.0603	26.6847	25.8717
Na 330.237	82107.1	82314.0	81981.8
Ni 231.604	-0.2622u	-0.1127u	-0.2655u
Pb 220.353	1.6776	-0.2973u	3.2578
Sb 206.834	-2.8122u	0.5576	2.8028
Se 196.026	2.9012	-1.9936u	-0.2321u
Sn 189.925	-6.5983u	-6.6564u	-4.6552u
Sr 216.596	7660.02x	7649.62x	7647.33x
Ti 334.941	-0.5823u	-0.6354u	-0.4975u
Tl 190.794	-4.8692u	-4.7087u	-0.6482u
V 292.401	-0.7985u	-0.8316u	-0.4781u
Zn 206.200	6.4236	4.1915	5.5622

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3800b	ppb	0.1029	27.1	-349.429
Al 308.215	0.3652b	ppb	6.0388	1653.6	-22.0346
As 188.980	3.3404b	ppb	4.5756	137.0	-7.2381
B 249.678	57.2098b	ppb	0.3540	0.6	854.574
Ba 389.178	117.945b	ppb	0.8458	0.7	2602.63
Be 313.042	-0.5217b	ppb	0.0090	1.7	-295.988
Ca 370.602	39635b	ppb	53.64	0.1	108587
Cd 226.502	-0.5059b	ppb	0.2534	50.1	26.1356
Co 228.615	-0.8042b	ppb	0.6594	82.0	-10.6087
Cr 267.716	-0.8705b	ppb	0.1962	22.5	-16.6019
Cu 324.754	-0.6140b	ppb	0.2190	35.7	179.696
Fe 271.441	61.0403b	ppb	1.5173	2.5	213.989
K 766.491	5653.47b	ppb	2.9926	0.1	179948
Mg 279.078	21149.4b	ppb	34.0740	0.2	42225.8
Mn 257.610	3.2012b	ppb	0.2911	9.1	1292.23
Mo 202.032	26.5389b	ppb	0.6076	2.3	209.851
Na 330.237	82134.3b	ppb	167.772	0.2	3637.31
Ni 231.604	-0.2135b	ppb	0.0873	40.9	-5.1051
Pb 220.353	1.5460b	ppb	1.7812	115.2	30.5207
Sb 206.834	0.1827b	ppb	2.8262	1546.8	-3.1532
Se 196.026	0.2251b	ppb	2.4792	1101.2	10.4939
Sn 189.925	-5.9700b	ppb	1.1390	19.1	-9.4140
Sr 216.596	7652.32xb	ppb	6.7625	0.1	73438.4
Ti 334.941	-0.5717b	ppb	0.0696	12.2	24.6228
Tl 190.794	-3.4087b	ppb	2.3920	70.2	-15.6946
V 292.401	-0.7027b	ppb	0.1952	27.8	-7.5517
Zn 206.200	5.3924b	ppb	1.1257	20.9	10.9279

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

680-89269-e-1-a (Samp) 4/18/2013, 12:38:26 AM Rack 3, Tube 10

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3070u	-0.4629u	-0.5478u
Al 308.215	1.9634	-0.6193u	3.5954
As 188.980	-1.3647u	2.0642	1.0421
B 249.678	66.0872	67.0571	66.7634
Ba 389.178	43.8904	42.9616	43.7875
Be 313.042	-0.5481u	-0.5454u	-0.5497u
Ca 370.602	32459	32452	32328
Cd 226.502	-0.4319u	-0.1803u	-0.3536u
Co 228.615	-0.2349u	-0.6488u	-1.1882u
Cr 267.716	-0.8573u	-0.8975u	-1.2129u
Cu 324.754	-0.7832u	-0.9464u	-0.8489u
Fe 271.441	191.571	190.128	191.141
K 766.491	6132.97	6146.59	6107.80
Mg 279.078	26368.6	26333.5	26307.9
Mn 257.610	28.1670	28.4099	28.3204
Mo 202.032	17.1085	16.8971	16.6273
Na 330.237	97385.4x	97455.6x	97155.8x
Ni 231.604	0.7878	-0.8283u	-1.0698u
Pb 220.353	3.2133	-0.1146u	3.4521
Sb 206.834	0.5298	0.8139	-0.3880u
Se 196.026	-2.5393u	1.1107	2.0282
Sn 189.925	-2.1135u	-3.1704u	-1.2122u
Sr 216.596	9221.11x	9218.84x	9185.83x
Ti 334.941	-0.9021u	-0.8027u	-0.8446u
Tl 190.794	-0.2030u	-2.3668u	-5.7277u
V 292.401	-0.7260u	-0.9981u	-0.8150u
Zn 206.200	2.0065	4.5769	3.0252

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4392b	ppb	0.1221	27.8	-424.889
Al 308.215	1.6465b	ppb	2.1251	129.1	-19.6947
As 188.980	0.5805b	ppb	1.7605	303.3	-8.9784
B 249.678	66.6359b	ppb	0.4973	0.7	963.471
Ba 389.178	43.5465b	ppb	0.5091	1.2	1019.24
Be 313.042	-0.5477b	ppb	0.0022	0.4	-343.955
Ca 370.602	32413b	ppb	73.50	0.2	88796
Cd 226.502	-0.3219b	ppb	0.1288	40.0	32.6458
Co 228.615	-0.6906b	ppb	0.4781	69.2	-9.2132
Cr 267.716	-0.9893b	ppb	0.1948	19.7	-20.0145
Cu 324.754	-0.8595b	ppb	0.0821	9.6	166.705
Fe 271.441	190.947b	ppb	0.7408	0.4	426.285
K 766.491	6129.12b	ppb	19.6818	0.3	195048
Mg 279.078	26336.7b	ppb	30.4877	0.1	52573.7
Mn 257.610	28.2991b	ppb	0.1228	0.4	7134.88
Mo 202.032	16.8776b	ppb	0.2412	1.4	141.271
Na 330.237	97332.3xb	ppb	156.810	0.2	4300.09
Ni 231.604	-0.3701b	ppb	1.0100	272.9	-5.5048
Pb 220.353	2.1836b	ppb	1.9939	91.3	31.6259
Sb 206.834	0.3186b	ppb	0.6282	197.2	-2.8936
Se 196.026	0.1999b	ppb	2.4162	1208.8	10.4880
Sn 189.925	-2.1654b	ppb	0.9801	45.3	-6.6457
Sr 216.596	9208.59xb	ppb	19.7471	0.2	88362.9
Ti 334.941	-0.8498b	ppb	0.0499	5.9	-26.0746
Tl 190.794	-2.7658b	ppb	2.7839	100.7	-15.1147
V 292.401	-0.8464b	ppb	0.1387	16.4	-9.5860
Zn 206.200	3.2028b	ppb	1.2944	40.4	4571130

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89269-c-2-a (Samp) 4/18/2013, 12:44:03 AM Rack 3, Tube 11

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4766u	0.3506u	0.1070u
Al 308.215	-2.2561u	5.6124	-1.3815u
As 188.980	-5.1004u	0.0881	0.3587
B 249.678	85.5607	85.0285	85.5571
Ba 389.178	21.2177	19.7531	21.0654
Be 313.042	-0.5541u	-0.5450u	-0.5595u
Ca 370.602	46436	46445	46246
Cd 226.502	-0.4666u	-0.5789u	-0.3793u
Co 228.615	-0.7400u	-1.5263u	-0.7619u
Cr 267.716	-1.4244u	-0.8090u	-0.9587u
Cu 324.754	-1.0163u	-0.9700u	-0.9347u
Fe 271.441	-9.1347u	-10.2279u	-15.0699u
K 766.491	7998.46	8010.36	8010.34
Mg 279.078	39225.3	39178.6	39163.8
Mn 257.610	-2.5022u	-2.4172u	-2.4453u
Mo 202.032	5.0313	3.8923	4.2073
Na 330.237	156129x	155315x	155779x
Ni 231.604	-0.3172u	-1.0443u	-0.7223u
Pb 220.353	4.7915	2.5985	2.0942
Sb 206.834	-1.6475u	-1.9214u	3.9664
Se 196.026	1.8635	6.0786	-9.4250u
Sn 189.925	-4.9214u	-4.3960u	-6.7385u
Sr 216.596	13686.2x	13689.1x	13624.0x
Ti 334.941	-1.0296u	-1.0420u	-1.0878u
Tl 190.794	-0.7767u	-1.5317u	-2.0706u
V 292.401	-1.0373u	-1.0915u	-1.2419u
Zn 206.200	0.9168	3.2327	-0.2132u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3114b	ppb	0.1879	60.3	-572.937
Al 308.215	0.6583b	ppb	4.3127	655.2	-22.5066
As 188.980	-1.5512b	ppb	3.0767	198.3	-10.1517
B 249.678	85.3821b	ppb	0.3063	0.4	1180.57
Ba 389.178	20.6787b	ppb	0.8052	3.9	559.380
Be 313.042	-0.5529b	ppb	0.0073	1.3	-352.853
Ca 370.602	46376b	ppb	112.6	0.2	127058
Cd 226.502	-0.4749b	ppb	0.1000	21.1	26.8838
Co 228.615	-1.0094b	ppb	0.4478	44.4	-12.0165
Cr 267.716	-1.0640b	ppb	0.3210	30.2	-21.8129
Cu 324.754	-0.9736b	ppb	0.0409	4.2	160.351
Fe 271.441	-11.4775b	ppb	3.1587	27.5	95.4911
K 766.491	8006.38b	ppb	6.8608	0.1	254645
Mg 279.078	39189.2b	ppb	32.0783	0.1	78213.9
Mn 257.610	-2.4549b	ppb	0.0433	1.8	86.7077
Mo 202.032	4.3770b	ppb	0.5882	13.4	52.5543
Na 330.237	155741xb	ppb	408.264	0.3	6847.37
Ni 231.604	-0.6946b	ppb	0.3643	52.5	-6.3423
Pb 220.353	3.1614b	ppb	1.4341	45.4	33.3027
Sb 206.834	0.1325b	ppb	3.3231	2508.4	-2.9141
Se 196.026	-0.4943b	ppb	8.0162	1621.8	10.1598
Sn 189.925	-5.3520b	ppb	1.2291	23.0	-8.9408
Sr 216.596	13666.4xb	ppb	36.7849	0.3	131116
Ti 334.941	-1.0531b	ppb	0.0307	2.9	-29.1160
Tl 190.794	-1.4597b	ppb	0.6500	44.5	-13.8016
V 292.401	-1.1236b	ppb	0.1060	9.4	-14.8095
Zn 206.200	1.3121b	ppb	1.7567	133.8	4576814

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680-89269-c-3-a (Samp) 4/18/2013, 12:49:39 AM Rack 3, Tube 12

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.8009u	0.4899u	0.5847u
Al 308.215	-6.5959u	-4.8206u	-0.1022u
As 188.980	-1.0357u	-3.9684u	0.9423
B 249.678	66.0030	67.1973	67.4658
Ba 389.178	25.7132	24.6572	24.3954
Be 313.042	-0.5459u	-0.5527u	-0.5503u
Ca 370.602	47897	47715	47649
Cd 226.502	-0.6395u	-0.6374u	-0.3020u
Co 228.615	-0.5697u	-0.8162u	-1.2721u
Cr 267.716	-0.8166u	-0.9322u	-0.6844u
Cu 324.754	-1.4755u	-1.3445u	-0.7886u
Fe 271.441	-8.8943u	-10.5980u	-2.7300u
K 766.491	4876.67	4876.08	4883.82
Mg 279.078	36727.4	36772.3	36751.7
Mn 257.610	-2.3199u	-2.2645u	-1.6401u
Mo 202.032	2.9654	4.3514	3.5006
Na 330.237	91126.0	90689.3	91088.0
Ni 231.604	-0.2023u	0.6139	-0.2253u
Pb 220.353	2.1531	1.2962	0.4063
Sb 206.834	-1.2199u	-4.3921u	-2.1686u
Se 196.026	-4.7427u	-3.4429u	-5.8839u
Sn 189.925	-1.5699u	-0.6315u	-1.9976u
Sr 216.596	16110.4x	16029.1x	16017.1x
Ti 334.941	-1.0099u	-0.9620u	-1.0016u
Tl 190.794	-3.3619u	0.3644	-1.4500u
V 292.401	-1.7045u	-1.0571u	-1.1815u
Zn 206.200	-0.1972u	0.7153	2.0342

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6252b	ppb	0.1594	25.5	-651.988
Al 308.215	-3.8396b	ppb	3.3561	87.4	-32.4453
As 188.980	-1.3539b	ppb	2.4708	182.5	-10.0210
B 249.678	66.8887b	ppb	0.7787	1.2	966.622
Ba 389.178	24.9219b	ppb	0.6976	2.8	644.463
Be 313.042	-0.5497b	ppb	0.0034	0.6	-340.127
Ca 370.602	47754b	ppb	128.5	0.3	130833
Cd 226.502	-0.5263b	ppb	0.1942	36.9	25.4243
Co 228.615	-0.8860b	ppb	0.3564	40.2	-10.7693
Cr 267.716	-0.8111b	ppb	0.1240	15.3	-14.6968
Cu 324.754	-1.2029b	ppb	0.3647	30.3	148.415
Fe 271.441	-7.4074b	ppb	4.1394	55.9	102.139
K 766.491	4878.85b	ppb	4.3094	0.1	155357
Mg 279.078	36750.4b	ppb	22.4854	0.1	73348.7
Mn 257.610	-2.0748b	ppb	0.3775	18.2	160.766
Mo 202.032	3.6058b	ppb	0.6989	19.4	47.0808
Na 330.237	90967.8b	ppb	241.867	0.3	4022.59
Ni 231.604	0.0621b	ppb	0.4780	770.2	-4.3988
Pb 220.353	1.2852b	ppb	0.8734	68.0	30.1063
Sb 206.834	-2.5935b	ppb	1.6283	62.8	-5.5847
Se 196.026	-4.6898b	ppb	1.2214	26.0	8.2182
Sn 189.925	-1.3997b	ppb	0.6988	49.9	-6.0850
Sr 216.596	16052.2xb	ppb	50.7826	0.3	153996
Ti 334.941	-0.9912b	ppb	0.0256	2.6	-19.1458
Tl 190.794	-1.4825b	ppb	1.8633	125.7	-13.8239
V 292.401	-1.3144b	ppb	0.3435	26.1	-19.2921
Zn 206.200	0.8508b	ppb	1.1219	337.8	457.0877

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Cont Calib Verif (CCV) 4/18/2013, 12:55:16 AM Rack 3, Tube 13
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	494.857	489.052	483.525
Al 308.215	4902.68	4866.57	4846.80
As 188.980	483.670	481.182	481.940
B 249.678	504.738	505.804	508.530
Ba 389.178	5072.00	5053.45	5059.08
Be 313.042	518.773	512.333	515.472
Ca 370.602	4958	4935	4949
Cd 226.502	516.951	514.813	516.181
Co 228.615	521.339	519.414	520.185
Cr 267.716	5196.51	5165.93	5149.71
Cu 324.754	5148.25	5173.51	5205.14
Fe 271.441	4989.97	4948.05	4964.95
K 766.491	9819.78	9791.48	9823.05
Mg 279.078	5023.19	4996.74	5005.25
Mn 257.610	5251.32	5217.27	5223.91
Mo 202.032	490.505	489.307	490.347
Na 330.237	7490.01	7325.16	7328.58
Ni 231.604	2621.83	2611.56	2617.07
Pb 220.353	502.242	498.523	500.872
Sb 206.834	933.624	919.461	931.524
Se 196.026	4990.18	4968.61	5001.69
Sn 189.925	5008.18	4981.07	5003.79
Sr 216.596	2531.40	2517.95	2516.75
Ti 334.941	493.356	490.914	491.218
Tl 190.794	5017.62	5005.79	4991.49
V 292.401	4962.80	4947.76	4955.89
Zn 206.200	2608.64	2597.86	2604.74

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	489.145	ppb	5.6670	1.2	36814.5	97.82895
Al 308.215	4872.02	ppb	28.3318	0.6	10692.0	97.44032
As 188.980	482.264	ppb	1.2752	0.3	283.833	96.45287
B 249.678	506.357	ppb	1.9556	0.4	6044.76	20.25429Q
Ba 389.178	5061.51	ppb	9.5126	0.2	108632	101.23016
Be 313.042	515.526	ppb	3.2206	0.6	896875	103.10518
Ca 370.602	4947	ppb	11.26	0.2	13462	98.94929
Cd 226.502	515.982	ppb	1.0828	0.2	17549.2	103.19633
Co 228.615	520.313	ppb	0.9689	0.2	5188.18	104.06250
Cr 267.716	5170.72	ppb	23.7651	0.5	159462	103.41431
Cu 324.754	5175.63	ppb	28.5049	0.6	269232	103.51263
Fe 271.441	4967.66	ppb	21.0910	0.4	8353.13	99.35317
K 766.491	9811.44	ppb	17.3605	0.2	311949	98.11437
Mg 279.078	5008.39	ppb	13.5027	0.3	9946.04	100.16788
Mn 257.610	5230.83	ppb	18.0493	0.3	1211871	104.61664
Mo 202.032	490.053	ppb	0.6508	0.1	3490.40	98.01054
Na 330.237	7381.25	ppb	94.2007	1.3	356.434	98.41666
Ni 231.604	2616.82	ppb	5.1395	0.2	6716.66	104.67288
Pb 220.353	500.545	ppb	1.8811	0.4	880.951	100.10907
Sb 206.834	928.203	ppb	7.6430	0.8	959.423	92.82030
Se 196.026	4986.83	ppb	16.7910	0.3	2319.56	99.73650
Sn 189.925	4997.68	ppb	14.5476	0.3	3629.03	99.95358
Sr 216.596	2522.03	ppb	8.1329	0.3	24182.3	100.88139
Ti 334.941	491.829	ppb	1.3308	0.3	125561	98.36584
Tl 190.794	5004.97	ppb	13.0834	0.3	4792.04	100.09937
V 292.401	4955.48	ppb	7.5319	0.2	130695	99.10966
Zn 206.200	2603.75	ppb	5.4588	0.2	3339.49	104.14980

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

Cont Calib Blank (CCB) 4/18/2013, 1:00:52 AM Rack 3, Tube 14

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6677u	-1.0017u	-0.8303u
Al 308.215	-6.3048u	-0.6648u	-2.8304u
As 188.980	-1.2432u	-0.0819u	4.7155
B 249.678	2.4942	1.1403	0.3633
Ba 389.178	-1.5489u	-0.7429u	-0.3493u
Be 313.042	-0.5118u	-0.4757u	-0.4510u
Ca 370.602	-0.9813u	-5.742u	-7.028u
Cd 226.502	-0.4195u	-0.4307u	-0.4960u
Co 228.615	-0.4029u	-0.8719u	-0.1380u
Cr 267.716	-0.7885u	-0.2914u	-0.1703u
Cu 324.754	-1.0019u	0.0346	-0.3248u
Fe 271.441	-9.5363u	-13.7119u	-14.6493u
K 766.491	-6.1464u	-5.9569u	-4.8357u
Mg 279.078	4.9774	0.7433	2.2851
Mn 257.610	-1.1364u	-0.8085u	-0.5599u
Mo 202.032	-0.1953u	-0.5080u	-0.6477u
Na 330.237	-79.5384u	-156.292u	73.4945
Ni 231.604	0.3057	-1.3624u	-1.4238u
Pb 220.353	-0.3430u	0.0119	3.2826
Sb 206.834	5.1017	5.4973	2.2940
Se 196.026	4.2744	-5.7313u	-3.8848u
Sn 189.925	-0.8533u	-3.0618u	-6.3629u
Sr 216.596	-2.1264u	-1.3143u	-1.9024u
Ti 334.941	-0.4299u	-0.4338u	-0.4385u
Tl 190.794	-0.4770u	3.4389	3.2174
V 292.401	-0.2621u	-0.6925u	-0.0713u
Zn 206.200	-2.2720u	-1.1534u	-1.4768u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.8332	ppb	0.1670	20.0	-37.4804	-0.83323
Al 308.215	-3.2667	ppb	2.8452	87.1	-31.3901	-3.26667
As 188.980	1.1301	ppb	3.1588	279.5	-8.9115	1.13015
B 249.678	1.3326	ppb	1.0784	80.9	208.234	1.33262
Ba 389.178	-0.8803	ppb	0.6115	69.5	2.3453	-0.88034
Be 313.042	-0.4795	ppb	0.0306	6.4	-222.640	-0.47953
Ca 370.602	-4.584	ppb	3.186	69.5	5.471	-4.58389
Cd 226.502	-0.4487	ppb	0.0413	9.2	28.0587	-0.44873
Co 228.615	-0.4709	ppb	0.3717	78.9	-6.5220	-0.47090
Cr 267.716	-0.4167	ppb	0.3276	78.6	-3.5078	-0.41673
Cu 324.754	-0.4307	ppb	0.5263	122.2	188.432	-0.43072
Fe 271.441	-12.6325	ppb	2.7221	21.5	93.6342	-12.63248
K 766.491	-5.6464	ppb	0.7084	12.5	290.452	-5.64636
Mg 279.078	2.6686	ppb	2.1429	80.3	39.9521	2.66859
Mn 257.610	-0.8349	ppb	0.2891	34.6	234.262	-0.83491
Mo 202.032	-0.4503	ppb	0.2317	51.4	18.2896	-0.45033
Na 330.237	-54.1120	ppb	116.984	216.2	53.1076	-54.11201
Ni 231.604	-0.8268	ppb	0.9813	118.7	-6.6820	-0.82685
Pb 220.353	0.9839	ppb	1.9987	203.1	29.5982	0.98385
Sb 206.834	4.2977	ppb	1.7464	40.6	1.2570	4.29768
Se 196.026	-1.7805	ppb	5.3244	299.0	9.5647	-1.78054
Sn 189.925	-3.4260	ppb	2.7728	80.9	-7.6026	-3.42600
Sr 216.596	-1.7810	ppb	0.4194	23.5	31.6586	-1.78102
Ti 334.941	-0.4341	ppb	0.0043	1.0	-21.5158	-0.43408
Tl 190.794	2.0598	ppb	2.1997	106.8	-10.4179	2.05978
V 292.401	-0.3420	ppb	0.3182	93.1	7.3557	-0.34198
Zn 206.200	-1.6341	ppb	0.5756	35.2	45.78907	-1.63408

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89321-e-1-a (Samp) 4/18/2013, 1:06:28 AM Rack 3, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5185u	-0.3763u	-0.2124u
Al 308.215	5.3836	0.8670	-0.0280
As 188.980	6.8582	-4.4849u	4.2774
B 249.678	50.1651	50.2027	48.7586
Ba 389.178	116.126	116.399	116.695
Be 313.042	-0.5497u	-0.5600u	-0.5440u
Ca 370.602	39635	39649	39588
Cd 226.502	-0.2731u	-0.5266u	-0.6427u
Co 228.615	-0.5287u	-0.2436u	-0.2958u
Cr 267.716	-0.9468u	-0.8731u	-1.2762u
Cu 324.754	-0.3823u	-0.6891u	-0.6924u
Fe 271.441	252.159	263.322	259.091
K 766.491	5387.46	5399.59	5395.13
Mg 279.078	21250.1	21284.4	21199.7
Mn 257.610	2.5732	2.5275	2.5914
Mo 202.032	26.8859	26.3958	26.0245
Na 330.237	81163.9	81583.9	80929.9
Ni 231.604	0.0235	-0.5927u	-0.0320u
Pb 220.353	2.8565	3.9544	1.4749
Sb 206.834	-0.6792u	-0.5238u	-0.3579u
Se 196.026	-6.3431u	0.3482	5.6356
Sn 189.925	-4.1860u	-5.9476u	-5.4656u
Sr 216.596	7724.66x	7737.57x	7700.65x
Ti 334.941	-0.7937u	-0.7379u	-0.7448u
Tl 190.794	-2.3921u	-0.9407u	0.2079
V 292.401	-0.7456u	-0.8918u	-0.7045u
Zn 206.200	3.1246	3.1760	1.0455

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3691b	ppb	0.1532	41.5	-350.907
Al 308.215	2.0742b	ppb	2.9007	139.8	-18.2791
As 188.980	2.2169b	ppb	5.9457	268.2	-7.9243
B 249.678	49.7088b	ppb	0.8231	1.7	767.570
Ba 389.178	116.407b	ppb	0.2846	0.2	2570.07
Be 313.042	-0.5512b	ppb	0.0081	1.5	-347.289
Ca 370.602	39624b	ppb	32.20	0.1	108544
Cd 226.502	-0.4808b	ppb	0.1890	39.3	27.4297
Co 228.615	-0.3560b	ppb	0.1518	42.6	-6.1531
Cr 267.716	-1.0320b	ppb	0.2147	20.8	-21.5646
Cu 324.754	-0.5880b	ppb	0.1781	30.3	181.109
Fe 271.441	258.191b	ppb	5.6355	2.2	536.198
K 766.491	5394.06b	ppb	6.1379	0.1	171713
Mg 279.078	21244.7b	ppb	42.5969	0.2	42416.1
Mn 257.610	2.5640b	ppb	0.0329	1.3	1145.63
Mo 202.032	26.4354b	ppb	0.4321	1.6	209.107
Na 330.237	81225.9b	ppb	331.374	0.4	3597.67
Ni 231.604	-0.2004b	ppb	0.3409	170.1	-5.0674
Pb 220.353	2.7619b	ppb	1.2425	45.0	32.5928
Sb 206.834	-0.5203b	ppb	0.1607	30.9	-3.8421
Se 196.026	-0.1198b	ppb	6.0031	5010.6	10.3339
Sn 189.925	-5.1997b	ppb	0.9104	17.5	-8.8541
Sr 216.596	7720.96xb	ppb	18.7323	0.2	74096.7
Ti 334.941	-0.7588b	ppb	0.0305	4.0	-22.7232
Tl 190.794	-1.0416b	ppb	1.3030	125.1	-13.4285
V 292.401	-0.7806b	ppb	0.0984	12.6	-9.5614
Zn 206.200	2.4487b	ppb	1.2155	349.8	4571429

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680-89337-a-1-a (Samp) 4/18/2013, 1:12:15 AM Rack 3, Tube 16

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0439u	-0.7068u	-1.2945u
Al 308.215	0.6694	0.1419	-5.8910u
As 188.980	3.2401	-3.6953u	2.4167
B 249.678	5.9483	6.4478	5.8220
Ba 389.178	-1.9142u	-1.1649u	-0.9191u
Be 313.042	-0.5112u	-0.5130u	-0.5099u
Ca 370.602	129.0	130.1	133.8
Cd 226.502	-0.4349u	-0.3239u	-0.4184u
Co 228.615	-0.3044u	-1.3152u	-0.2696u
Cr 267.716	-0.9353u	-0.8953u	-0.8129u
Cu 324.754	-0.8147u	-0.5282u	-1.1408u
Fe 271.441	-3.7651u	-5.6063u	-9.9223u
K 766.491	3065.28	3091.53	3088.38
Mg 279.078	2987.89	3013.99	3007.32
Mn 257.610	-0.0961u	0.2163	0.4833
Mo 202.032	-0.9815u	-0.2847u	-1.3769u
Na 330.237	2551.11	2598.78	2823.03
Ni 231.604	0.3368	-1.6615u	0.1348
Pb 220.353	0.0324	2.1617	0.3219
Sb 206.834	-3.3497u	-3.3502u	3.0616
Se 196.026	-8.1081u	-1.4754u	-4.8071u
Sn 189.925	-2.9712u	-3.0509u	-4.0444u
Sr 216.596	2.0741	3.8072	4.6933
Ti 334.941	-0.4732u	-0.5008u	-0.5441u
Tl 190.794	3.7928	-5.7769u	-1.8795u
V 292.401	-0.8038u	-0.7233u	-0.5262u
Zn 206.200	4.3748	3.4479	5.6871

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0150	ppb	0.2949	29.1	-51.4711
Al 308.215	-1.6933	ppb	3.6449	215.3	-27.9391
As 188.980	0.6538	ppb	3.7889	579.5	-9.2003
B 249.678	6.0727	ppb	0.3310	5.4	263.069
Ba 389.178	-1.3327	ppb	0.5183	38.9	-0.1210
Be 313.042	-0.5114	ppb	0.0016	0.3	-278.400
Ca 370.602	131.0	ppb	2.543	1.9	376.4
Cd 226.502	-0.3924	ppb	0.0599	15.3	30.0046
Co 228.615	-0.6297	ppb	0.5939	94.3	-8.0956
Cr 267.716	-0.8812	ppb	0.0624	7.1	-17.7981
Cu 324.754	-0.8279	ppb	0.3065	37.0	167.782
Fe 271.441	-6.4312	ppb	3.1604	49.1	103.765
K 766.491	3081.73	ppb	14.3351	0.5	98304.0
Mg 279.078	3003.07	ppb	13.5589	0.5	6025.49
Mn 257.610	0.2012	ppb	0.2900	144.1	491.641
Mo 202.032	-0.8810	ppb	0.5530	62.8	15.2329
Na 330.237	2657.64	ppb	145.203	5.5	171.328
Ni 231.604	-0.3966	ppb	1.1000	277.4	-5.5768
Pb 220.353	0.8386	ppb	1.1549	137.7	29.3513
Sb 206.834	-1.2128	ppb	3.7017	305.2	-4.1661
Se 196.026	-4.7969	ppb	3.3164	69.1	8.1689
Sn 189.925	-3.3555	ppb	0.5979	17.8	-7.5505
Sr 216.596	3.5248	ppb	1.3322	37.8	82.5506
Ti 334.941	-0.5060	ppb	0.0358	7.1	-27.7596
Tl 190.794	-1.2878	ppb	4.8122	373.7	-13.6368
V 292.401	-0.6844	ppb	0.1428	20.9	-1.6122
Zn 206.200	4.5033	ppb	1.1251	25.0	97845

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680-89337-a-2-a (Samp) 4/18/2013, 1:17:52 AM Rack 3, Tube 17

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3215u	-0.6750u	-1.2020u
Al 308.215	-2.4219u	-3.8693u	-0.9914u
As 188.980	-2.6550u	-1.8804u	-0.7544u
B 249.678	50.1444	51.5467	50.8173
Ba 389.178	-2.7511u	-1.5282u	-2.2924u
Be 313.042	-0.5383u	-0.5304u	-0.5275u
Ca 370.602	364.2	368.8	375.9
Cd 226.502	-0.3059u	-0.3669u	-0.3796u
Co 228.615	-0.5068u	-0.2002u	-1.1393u
Cr 267.716	-0.9970u	-0.4732u	-0.6287u
Cu 324.754	-1.1594u	-1.2612u	-1.0858u
Fe 271.441	-17.0850u	-9.0793u	-7.7920u
K 766.491	3375.48	3413.18	3394.93
Mg 279.078	3458.47	3490.86	3471.43
Mn 257.610	-1.4162u	-1.3486u	-1.2769u
Mo 202.032	-1.4201u	-0.8107u	-0.7923u
Na 330.237	4472.31	4705.51	4647.44
Ni 231.604	-1.1300u	0.2905	0.4567
Pb 220.353	0.6910	2.1407	0.7008
Sb 206.834	0.8826	-1.9617u	-3.7713u
Se 196.026	-3.3491u	-7.5065u	-4.2304u
Sn 189.925	0.2890	-4.9958u	-5.5915u
Sr 216.596	-1.3294u	0.0419	-0.0176u
Ti 334.941	-0.5635u	-0.6485u	-0.6016u
Tl 190.794	-0.4197u	-3.3667u	2.2786
V 292.401	-0.5109u	-0.8874u	-0.7900u
Zn 206.200	0.3892	-0.2508u	0.3607

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7329	ppb	0.4431	60.5	-30.0393
Al 308.215	-2.4275	ppb	1.4390	59.3	-29.5761
As 188.980	-1.7633	ppb	0.9557	54.2	-10.6695
B 249.678	50.8361	ppb	0.7013	1.4	780.918
Ba 389.178	-2.1905	ppb	0.6178	28.2	-17.4029
Be 313.042	-0.5321	ppb	0.0056	1.0	-314.502
Ca 370.602	369.6	ppb	5.864	1.6	1031
Cd 226.502	-0.3508	ppb	0.0394	11.2	31.4004
Co 228.615	-0.6154	ppb	0.4789	77.8	-7.9423
Cr 267.716	-0.6996	ppb	0.2690	38.4	-12.1834
Cu 324.754	-1.1688	ppb	0.0881	7.5	150.048
Fe 271.441	-11.3188	ppb	5.0350	44.5	95.7484
K 766.491	3394.53	ppb	18.8503	0.6	108234
Mg 279.078	3473.59	ppb	16.3000	0.5	6964.15
Mn 257.610	-1.3472	ppb	0.0696	5.2	135.750
Mo 202.032	-1.0077	ppb	0.3573	35.5	14.3342
Na 330.237	4608.42	ppb	121.396	2.6	256.432
Ni 231.604	-0.1276	ppb	0.8721	683.2	-4.8861
Pb 220.353	1.1775	ppb	0.8342	70.8	29.9292
Sb 206.834	-1.6168	ppb	2.3461	145.1	-4.5581
Se 196.026	-5.0286	ppb	2.1906	43.6	8.0613
Sn 189.925	-3.4327	ppb	3.2369	94.3	-7.6060
Sr 216.596	-0.4350	ppb	0.7751	178.2	44.6036
Ti 334.941	-0.6046	ppb	0.0426	7.0	-51.0969
Tl 190.794	-0.5026	ppb	2.8236	561.8	-12.8797
V 292.401	-0.7294	ppb	0.1954	26.8	-2.7366
Zn 206.200	0.1664	ppb	0.3615	217.3	4.2068

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

mb 680-273372/1-b (Samp) 4/18/2013, 1:23:29 AM Rack 3, Tube 18

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9614u	-0.9380u	-0.6303u
Al 308.215	2.5045	-3.9145u	-6.1599u
As 188.980	0.8291	-3.5242u	2.1527
B 249.678	-4.7425u	-5.5877u	-5.4681u
Ba 389.178	-3.0262u	-2.4638u	-2.3989u
Be 313.042	-0.5460u	-0.5432u	-0.5424u
Ca 370.602	-6.057u	-2.050u	-0.2120
Cd 226.502	-0.7932u	-0.5399u	-0.5925u
Co 228.615	-0.9695u	-0.2586u	0.3533
Cr 267.716	-0.9425u	-1.2887u	-0.9346u
Cu 324.754	-0.8796u	-1.0509u	-0.7353u
Fe 271.441	-7.1912u	-9.5142u	-14.4315u
K 766.491	-8.6480u	-8.2311u	-9.8177u
Mg 279.078	0.2357	1.2090	3.4083
Mn 257.610	-1.7249u	-1.6318u	-1.6623u
Mo 202.032	-0.8285u	-1.2460u	-0.9836u
Na 330.237	-5.9743u	-47.7097u	210.383
Ni 231.604	-0.6521u	0.4205	-1.9226u
Pb 220.353	0.5984	-0.7726u	0.6971
Sb 206.834	-3.9705u	1.9097	0.0367
Se 196.026	-12.7018u	-3.7810u	-2.6919u
Sn 189.925	-6.4086u	-6.3605u	-6.8220u
Sr 216.596	-2.0436u	-2.6986u	-2.3307u
Ti 334.941	-0.6127u	-0.5592u	-0.5054u
Tl 190.794	-3.1546u	-7.2600u	-1.6049u
V 292.401	-1.0920u	-0.8170u	-1.1525u
Zn 206.200	-2.9155u	-2.1936u	-0.5429u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8432	ppb	0.1848	21.9	-38.2179
Al 308.215	-2.5233	ppb	4.4966	178.2	-29.7711
As 188.980	-0.1808	ppb	2.9701	1642.7	-9.7094
B 249.678	-5.2661	ppb	0.4574	8.7	131.896
Ba 389.178	-2.6296	ppb	0.3450	13.1	-35.1824
Be 313.042	-0.5438	ppb	0.0019	0.4	-334.390
Ca 370.602	-2.773	ppb	2.989	107.8	10.28
Cd 226.502	-0.6419	ppb	0.1336	20.8	21.5139
Co 228.615	-0.2916	ppb	0.6620	227.0	-4.7282
Cr 267.716	-1.0552	ppb	0.2022	19.2	-23.1966
Cu 324.754	-0.8886	ppb	0.1580	17.8	164.624
Fe 271.441	-10.3790	ppb	3.6968	35.6	97.3127
K 766.491	-8.8989	ppb	0.8225	9.2	187.195
Mg 279.078	1.6177	ppb	1.6253	100.5	37.8690
Mn 257.610	-1.6730	ppb	0.0475	2.8	40.1684
Mo 202.032	-1.0193	ppb	0.2110	20.7	14.2521
Na 330.237	52.2329	ppb	138.543	265.2	57.7475
Ni 231.604	-0.7180	ppb	1.1729	163.3	-6.4025
Pb 220.353	0.1743	ppb	0.8215	471.4	28.2190
Sb 206.834	-0.6747	ppb	3.0040	445.2	-3.6378
Se 196.026	-6.3916	ppb	5.4919	85.9	7.4304
Sn 189.925	-6.5304	ppb	0.2537	3.9	-9.8600
Sr 216.596	-2.3576	ppb	0.3283	13.9	26.1433
Ti 334.941	-0.5591	ppb	0.0536	9.6	-53.4088
Tl 190.794	-4.0065	ppb	2.9222	72.9	-16.2465
V 292.401	-1.0205	ppb	0.1788	17.5	-10.4766
Zn 206.200	-1.8840	ppb	1.2162	64.6	-15.5707

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ics 680-273372/2-b (Samp) 4/18/2013, 1:29:05 AM Rack 3, Tube 19
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	22.8320	23.2945	23.0791
Al 308.215	5174.79	5183.64	5177.17
As 188.980	102.780	101.957	109.428
B 249.678	190.762	192.839	194.386
Ba 389.178	101.537	101.294	100.757
Be 313.042	52.5182	52.6931	52.6666
Ca 370.602	4932	4928	4943
Cd 226.502	53.1380	53.7960	53.6273
Co 228.615	53.1704	53.7966	53.1593
Cr 267.716	105.871	106.157	106.517
Cu 324.754	104.187	105.329	105.449
Fe 271.441	5005.65	5019.45	5035.19
K 766.491	4896.69	4914.64	4931.32
Mg 279.078	5064.90	5090.19	5078.44
Mn 257.610	545.221	547.026	546.632
Mo 202.032	100.777	100.307	100.595
Na 330.237	5274.35	5262.10	5119.30
Ni 231.604	105.671	103.237	104.589
Pb 220.353	51.6572	52.7532	52.7597
Sb 206.834	47.9182	46.6167	48.1367
Se 196.026	104.595	87.6686	99.0232
Sn 189.925	195.740	200.178	200.710
Sr 216.596	101.410	101.831	101.266
Ti 334.941	98.4553	98.9439	98.8365
Tl 190.794	39.1125	40.9053	37.1854
V 292.401	101.052	101.184	101.646
Zn 206.200	102.858	103.383	106.265

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	23.0685	ppb	0.2314	1.0	1761.50
Al 308.215	5178.53	ppb	4.5782	0.1	11380.2
As 188.980	104.722	ppb	4.0966	3.9	54.1126
B 249.678	192.662	ppb	1.8186	0.9	2415.81
Ba 389.178	101.196	ppb	0.3991	0.4	2211.60
Be 313.042	52.6260	ppb	0.0943	0.2	92111.1
Ca 370.602	4934	ppb	7.760	0.2	13211
Cd 226.502	53.5204	ppb	0.3418	0.6	1869.10
Co 228.615	53.3754	ppb	0.3648	0.7	529.097
Cr 267.716	106.182	ppb	0.3239	0.3	3285.64
Cu 324.754	104.988	ppb	0.6962	0.7	5672.04
Fe 271.441	5020.10	ppb	14.7758	0.3	8325.71
K 766.491	4914.21	ppb	17.3198	0.4	156479
Mg 279.078	5077.84	ppb	12.6520	0.2	10155.7
Mn 257.610	546.293	ppb	0.9490	0.2	126986
Mo 202.032	100.560	ppb	0.2367	0.2	734.803
Na 330.237	5218.58	ppb	86.2037	1.7	280.449
Ni 231.604	104.499	ppb	1.2193	1.2	263.944
Pb 220.353	52.3900	ppb	0.6347	1.2	117.082
Sb 206.834	47.5572	ppb	0.8218	1.7	44.0996
Se 196.026	97.0956	ppb	8.6264	8.9	55.4479
Sn 189.925	198.876	ppb	2.7289	1.4	139.508
Sr 216.596	101.502	ppb	0.2937	0.3	1019.63
Ti 334.941	98.7452	ppb	0.2568	0.3	25297.4
Tl 190.794	39.0677	ppb	1.8603	4.8	24.1591
V 292.401	101.294	ppb	0.3119	0.3	2671.92
Zn 206.200	104.169	ppb	1.8342	1.8	137.690

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

ics 680-273372/3-b (Samp) 4/18/2013, 1:34:41 AM Rack 3, Tube 20
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	195.718	195.912	198.350
Al 308.215	2066.44	2055.53	2052.49
As 188.980	215.545	223.896	215.194
B 249.678	392.152	394.591	395.196
Ba 389.178	199.355	198.801	199.649
Be 313.042	210.241	209.570	210.175
Ca 370.602	19885	19817	19893
Cd 226.502	209.922	210.371	210.227
Co 228.615	210.578	209.907	209.052
Cr 267.716	209.653	207.978	209.353
Cu 324.754	209.952	210.044	209.751
Fe 271.441	20790.0	20727.6	20838.7
K 766.491	19941.2	19903.1	19970.1
Mg 279.078	20384.0	20340.2	20397.6
Mn 257.610	2171.43	2165.58	2171.53
Mo 202.032	199.300	198.008	199.360
Na 330.237	18357.5	18138.6	18466.1
Ni 231.604	208.047	208.475	206.751
Pb 220.353	203.205	201.958	205.167
Sb 206.834	193.744	186.759	195.618
Se 196.026	194.496	203.605	205.518
Sn 189.925	200.829	196.464	195.145
Sr 216.596	213.872	214.100	214.014
Ti 334.941	196.641	196.174	196.741
Tl 190.794	39.2177	41.0838	43.7570
V 292.401	202.635	202.070	203.190
Zn 206.200	200.848	199.170	196.343

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	196.660	ppb	1.4667	0.7	14841.2
Al 308.215	2058.15	ppb	7.3328	0.4	4515.25
As 188.980	218.212	ppb	4.9261	2.3	123.139
B 249.678	393.980	ppb	1.6113	0.4	4726.58
Ba 389.178	199.269	ppb	0.4306	0.2	4373.60
Be 313.042	209.996	ppb	0.3697	0.2	365761
Ca 370.602	19865	ppb	41.81	0.2	53063
Cd 226.502	210.173	ppb	0.2295	0.1	7215.49
Co 228.615	209.846	ppb	0.7648	0.4	2086.58
Cr 267.716	208.995	ppb	0.8935	0.4	6462.06
Cu 324.754	209.916	ppb	0.1500	0.1	11133.3
Fe 271.441	20785.4	ppb	55.6740	0.3	34109.4
K 766.491	19938.1	ppb	33.6159	0.2	633437
Mg 279.078	20374.0	ppb	30.0388	0.1	40649.1
Mn 257.610	2169.51	ppb	3.4052	0.2	503037
Mo 202.032	198.889	ppb	0.7637	0.4	1431.77
Na 330.237	18320.7	ppb	166.830	0.9	846.588
Ni 231.604	207.758	ppb	0.8976	0.4	529.475
Pb 220.353	203.443	ppb	1.6177	0.8	374.643
Sb 206.834	192.040	ppb	4.6689	2.4	187.584
Se 196.026	201.206	ppb	5.8892	2.9	103.993
Sn 189.925	197.479	ppb	2.9750	1.5	138.502
Sr 216.596	213.996	ppb	0.1150	0.1	2100.87
Ti 334.941	196.519	ppb	0.3028	0.2	50299.7
Tl 190.794	41.3528	ppb	2.2815	5.5	23.3749
V 292.401	202.631	ppb	0.5601	0.3	5329.38
Zn 206.200	198.787	ppb	2.2768	1.1	259.115

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

640-43094-h-1-b (Samp) 4/18/2013, 1:40:18 AM Rack 3, Tube 21

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9569u	-0.7524u	-0.7706u
Al 308.215	7.8058	5.5525	4.5888
As 188.980	-4.8431u	4.6444	-3.8726u
B 249.678	328.140	331.802	330.495
Ba 389.178	229.855	227.172	227.510
Be 313.042	-0.5691u	-0.5425u	-0.5340u
Ca 370.602	199258	199307	198306
Cd 226.502	-0.6259u	-0.3981u	-0.5033u
Co 228.615	-0.9029u	0.7652	-0.4209u
Cr 267.716	-1.0775u	-0.7586u	-0.9180u
Cu 324.754	-0.7051u	-1.1429u	-0.7761u
Fe 271.441	1578.29	1576.86	1583.90
K 766.491	21849.6	21870.5	21894.2
Mg 279.078	98215.6	98264.9	97965.0
Mn 257.610	546.220	545.818	546.200
Mo 202.032	0.3637	-1.1100u	-1.4336u
Na 330.237	423047x	423850x	423162x
Ni 231.604	1.1503	0.3057	0.2058
Pb 220.353	3.2252	3.4782	3.7070
Sb 206.834	-6.4723u	-2.5772u	-2.9234u
Se 196.026	1.6124	6.9194	-3.5610u
Sn 189.925	-6.2293u	-1.7094u	-5.7254u
Sr 216.596	1129.79	1125.27	1126.14
Ti 334.941	-1.7175u	-1.6376u	-1.6187u
Tl 190.794	-1.0539u	-5.1289u	-0.4685u
V 292.401	-1.8553u	-1.9278u	-1.1643u
Zn 206.200	-1.2055u	2.0461	-0.1410u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8266b	ppb	0.1131	13.7	-87.2188
Al 308.215	5.9823b	ppb	1.6510	27.6	-11.0380
As 188.980	-1.3571b	ppb	5.2200	384.6	-8.7650
B 249.678	330.146b	ppb	1.8557	0.6	4010.30
Ba 389.178	228.179b	ppb	1.4610	0.6	5154.39
Be 313.042	-0.5485b	ppb	0.0183	3.3	-324.801
Ca 370.602	198957b	ppb	564.6	0.3	544938
Cd 226.502	-0.5091b	ppb	0.1140	22.4	28.6361
Co 228.615	-0.1862b	ppb	0.8585	461.0	-3.7082
Cr 267.716	-0.9180b	ppb	0.1595	17.4	-12.6824
Cu 324.754	-0.8747b	ppb	0.2350	26.9	165.846
Fe 271.441	1579.68b	ppb	3.7203	0.2	2695.43
K 766.491	21871.4b	ppb	22.3212	0.1	694812
Mg 279.078	98148.5b	ppb	160.833	0.2	195825
Mn 257.610	546.079b	ppb	0.2262	0.0	127467
Mo 202.032	-0.7267b	ppb	0.9580	131.8	16.2528
Na 330.237	423353xb	ppb	434.548	0.1	18517.6
Ni 231.604	0.5539b	ppb	0.5189	93.7	-3.1033
Pb 220.353	3.4701b	ppb	0.2410	6.9	33.9573
Sb 206.834	-3.9910b	ppb	2.1558	54.0	-6.8692
Se 196.026	1.6569b	ppb	5.2403	316.3	11.2814
Sn 189.925	-4.5547b	ppb	2.4769	54.4	-8.2269
Sr 216.596	1127.07b	ppb	2.3987	0.2	10876.3
Ti 334.941	-1.6579b	ppb	0.0525	3.2	39.6583
Tl 190.794	-2.2171b	ppb	2.5386	114.5	-15.3813
V 292.401	-1.6491b	ppb	0.4215	25.6	-28.9842
Zn 206.200	0.2332b	ppb	1.6578	710.8	4.2938

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

640-43094-h-2-b (Samp) 4/18/2013, 1:45:54 AM Rack 3, Tube 22

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.1388u	-0.8197u	-1.1006u
Al 308.215	4.4937	0.5280	3.0936
As 188.980	-9.5376u	3.5256	-8.9161u
B 249.678	247.460	249.449	250.726
Ba 389.178	77.8714	78.0888	77.8767
Be 313.042	-0.5865u	-0.5922u	-0.5775u
Ca 370.602	177025	179358	177233
Cd 226.502	-0.3927u	-0.5527u	-0.4648u
Co 228.615	-0.0337u	-0.0617u	-0.3288u
Cr 267.716	-0.5238u	-0.7633u	-0.4574u
Cu 324.754	0.8450	1.1121	1.2184
Fe 271.441	719.692	720.611	716.554
K 766.491	13882.8	13873.1	13925.5
Mg 279.078	73992.7	73936.1	74020.8
Mn 257.610	577.097	575.911	576.708
Mo 202.032	0.4654	0.5993	0.3309
Na 330.237	331675x	331294x	332900x
Ni 231.604	1.3263	4.0634	3.5725
Pb 220.353	3.0390	2.6878	5.1040
Sb 206.834	0.9506	0.5123	-0.1826u
Se 196.026	-0.1313	5.7721	3.9533
Sn 189.925	-6.0490u	-3.4848u	-7.1013u
Sr 216.596	916.645	914.820	914.334
Ti 334.941	-1.3460u	-1.3852u	-1.4067u
Tl 190.794	-4.8483u	-0.2103u	-3.2851u
V 292.401	-0.1727u	-0.2721u	-0.1740u
Zn 206.200	1.4702	-0.3390u	-0.5713u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0197b	ppb	0.1742	17.1	-91.6822
Al 308.215	2.7051b	ppb	2.0112	74.3	-18.1969
As 188.980	-4.9760b	ppb	7.3692	148.1	-11.1339
B 249.678	249.211b	ppb	1.6459	0.7	3074.99
Ba 389.178	77.9456b	ppb	0.1240	0.2	1872.28
Be 313.042	-0.5854b	ppb	0.0074	1.3	-385.491
Ca 370.602	177872b	ppb	1291	0.7	487239
Cd 226.502	-0.4701b	ppb	0.0802	17.1	28.2191
Co 228.615	-0.1414b	ppb	0.1629	115.2	-3.2789
Cr 267.716	-0.5815b	ppb	0.1609	27.7	-3.3343
Cu 324.754	1.0585b	ppb	0.1924	18.2	266.100
Fe 271.441	718.952b	ppb	2.1271	0.3	1289.06
K 766.491	13893.8b	ppb	27.9182	0.2	441550
Mg 279.078	73983.2b	ppb	43.1450	0.1	147616
Mn 257.610	576.572b	ppb	0.6048	0.1	134387
Mo 202.032	0.4652b	ppb	0.1342	28.8	24.7519
Na 330.237	331957xb	ppb	839.175	0.3	14532.0
Ni 231.604	2.9874b	ppb	1.4593	48.9	3.1294
Pb 220.353	3.6102b	ppb	1.3055	36.2	34.2009
Sb 206.834	0.4268b	ppb	0.5714	133.9	-2.5530
Se 196.026	3.1980b	ppb	3.0233	94.5	12.0023
Sn 189.925	-5.5451b	ppb	1.8602	33.5	-8.9812
Sr 216.596	915.266b	ppb	1.2186	0.1	8842.83
Ti 334.941	-1.3793b	ppb	0.0308	2.2	17.8603
Tl 190.794	-2.7813b	ppb	2.3597	84.8	-15.9231
V 292.401	-0.2063b	ppb	0.0570	27.6	9.2784
Zn 206.200	0.1866b	ppb	1.1176	598.8	4.2327

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

640-43094-s-4-b (Samp) 4/18/2013, 1:51:30 AM Rack 3, Tube 23

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.1201u	-0.8203u	-1.0060u
Al 308.215	6.2773	2.9849	7.6297
As 188.980	-0.6884	4.4556	0.3673
B 249.678	2127.05	2125.83	2144.47
Ba 389.178	237.320	238.267	238.642
Be 313.042	-0.4873u	-0.4879u	-0.4915u
Ca 370.602	135752	136018	136186
Cd 226.502	-0.4253u	-0.2016u	-0.2647u
Co 228.615	-1.1685u	-0.6970u	0.5613
Cr 267.716	-1.6282u	-1.9364u	-1.0850u
Cu 324.754	-0.3406u	-0.5403u	-0.2397u
Fe 271.441	61.1270	59.0505	52.9591
K 766.491	107817x	107210x	107731x
Mg 279.078	239210	239371	239605
Mn 257.610	299.121	298.340	299.291
Mo 202.032	-0.9582u	-2.1799u	-1.0120u
Na 330.237	2064461x	2063089x	2072962x
Ni 231.604	1.6814	1.6078	2.0765
Pb 220.353	2.2588	3.1140	6.0614
Sb 206.834	0.8511	-6.3251u	-6.6556u
Se 196.026	-0.3120u	-2.1425u	0.4825
Sn 189.925	-10.1153u	-5.4441u	-3.1922u
Sr 216.596	1418.18	1422.38	1421.68
Ti 334.941	-3.7109u	-3.7565u	-3.7225u
Tl 190.794	-0.0221u	-7.0432u	-5.7442u
V 292.401	-0.6919u	-0.2609u	-0.5145u
Zn 206.200	2.3889	4.9352	2.6729

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9821b	ppb	0.1513	15.4	-115.703
Al 308.215	5.6306b	ppb	2.3889	42.4	-11.8377
As 188.980	1.3781b	ppb	2.7169	197.1	-7.6153
B 249.678	2132.45b	ppb	10.4261	0.5	24862.1
Ba 389.178	238.077b	ppb	0.6812	0.3	5704.82
Be 313.042	-0.4889b	ppb	0.0023	0.5	-413.887
Ca 370.602	135986b	ppb	218.9	0.2	372536
Cd 226.502	-0.2972b	ppb	0.1153	38.8	26.2829
Co 228.615	-0.4347b	ppb	0.8942	205.7	-6.0787
Cr 267.716	-1.5499b	ppb	0.4310	27.8	-15.5576
Cu 324.754	-0.3735b	ppb	0.1530	40.9	191.411
Fe 271.441	57.7122b	ppb	4.2452	7.4	208.686
K 766.491	107586xb	ppb	328.164	0.3	3415956
Mg 279.078	239395b	ppb	198.517	0.1	477604
Mn 257.610	298.917b	ppb	0.5070	0.2	71033.6
Mo 202.032	-1.3834b	ppb	0.6904	49.9	11.6649
Na 330.237	2066837xb	ppb	5348.41	0.3	90191.0
Ni 231.604	1.7886b	ppb	0.2520	14.1	0.0369
Pb 220.353	3.8114b	ppb	1.9949	52.3	34.4853
Sb 206.834	-4.0432b	ppb	4.2418	104.9	-6.9499
Se 196.026	-0.6574b	ppb	1.3461	204.8	10.1552
Sn 189.925	-6.2505b	ppb	3.5313	56.5	-9.0074
Sr 216.596	1420.75b	ppb	2.2474	0.2	13686.4
Ti 334.941	-3.7300b	ppb	0.0237	0.6	-20.0409
Tl 190.794	-4.2698b	ppb	3.7355	87.5	-16.9345
V 292.401	-0.4891b	ppb	0.2166	44.3	-8.2931
Zn 206.200	3.3323b	ppb	1.3954	41.9	8.2792

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

640-43094-j-6-b (Samp) 4/18/2013, 1:57:07 AM Rack 3, Tube 24
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.2125u	-1.1032u	-0.8327u
Al 308.215	6.2753	7.8005	3.7815
As 188.980	2.6454	-4.5767u	2.3470
B 249.678	1793.39	1798.07	1797.13
Ba 389.178	258.431	256.471	256.230
Be 313.042	-0.4965u	-0.5103u	-0.4956u
Ca 370.602	144478	144636	144093
Cd 226.502	-0.3923u	-0.2989u	-0.2668u
Co 228.615	0.2945	-0.3344u	-0.4379u
Cr 267.716	-1.9524u	-1.5760u	-1.3400u
Cu 324.754	-0.4530u	-0.5996u	-0.3529u
Fe 271.441	59.6481	47.0899	50.2000
K 766.491	93877.1x	93701.6x	93566.8x
Mg 279.078	190947	190915	190399
Mn 257.610	288.861	288.783	287.527
Mo 202.032	-0.0398u	-1.3913u	-0.6556u
Na 330.237	1692051x	1685675x	1685774x
Ni 231.604	-1.5798u	1.1298	0.9321
Pb 220.353	4.2916	2.6100	7.9898
Sb 206.834	1.9149	0.3594	-6.2508u
Se 196.026	-11.1868u	-9.2047u	10.1188
Sn 189.925	-5.5055u	-7.6133u	-12.0848u
Sr 216.596	1286.14	1286.72	1283.20
Ti 334.941	-3.0502u	-3.0587u	-3.0778u
Tl 190.794	-7.9019u	-7.0271u	-9.7740u
V 292.401	-0.2934u	-0.4821u	-0.2496u
Zn 206.200	2.3246	2.7752	-2.1271u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0494b	ppb	0.1955	18.6	-113.810
Al 308.215	5.9524b	ppb	2.0289	34.1	-11.1053
As 188.980	0.1385b	ppb	4.0862	2949.3	-8.2991
B 249.678	1796.19b	ppb	2.4740	0.1	20972.1
Ba 389.178	257.044b	ppb	1.2074	0.5	5994.47
Be 313.042	-0.5008b	ppb	0.0082	1.6	-392.012
Ca 370.602	144402b	ppb	279.5	0.2	395593
Cd 226.502	-0.3193b	ppb	0.0652	20.4	26.7542
Co 228.615	-0.1593b	ppb	0.3964	248.8	-3.3588
Cr 267.716	-1.6228b	ppb	0.3089	19.0	-21.8696
Cu 324.754	-0.4685b	ppb	0.1241	26.5	186.483
Fe 271.441	52.3127b	ppb	6.5402	12.5	199.808
K 766.491	93715.2xb	ppb	155.560	0.2	2975604
Mg 279.078	190754b	ppb	307.447	0.2	380568
Mn 257.610	288.390b	ppb	0.7487	0.3	68315.1
Mo 202.032	-0.6956b	ppb	0.6767	97.3	16.5466
Na 330.237	1687833xb	ppb	3652.72	0.2	73662.5
Ni 231.604	0.1607b	ppb	1.5105	940.0	-4.1443
Pb 220.353	4.9638b	ppb	2.7522	55.4	36.4460
Sb 206.834	-1.3255b	ppb	4.3358	327.1	-4.2832
Se 196.026	-3.4242b	ppb	11.7704	343.7	8.8720
Sn 189.925	-8.4012b	ppb	3.3597	40.0	-10.6776
Sr 216.596	1285.35b	ppb	1.8894	0.1	12388.7
Ti 334.941	-3.0622b	ppb	0.0141	0.5	-23.8786
Tl 190.794	-8.2343b	ppb	1.4033	17.0	-20.7277
V 292.401	-0.3417b	ppb	0.1235	36.2	-2.3567
Zn 206.200	0.9909b	ppb	2.7997	273.5	52.683

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

Cont Calib Verif (CCV) 4/18/2013, 2:02:43 AM Rack 3, Tube 25
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	489.747	488.424	487.312
Al 308.215	4850.25	4881.72	4768.13
As 188.980	484.712	488.266	487.924
B 249.678	545.794	546.448	541.004
Ba 389.178	5049.23	5078.34	4942.94
Be 313.042	516.134	519.523	506.347
Ca 370.602	5000	5043	4926
Cd 226.502	518.502	520.010	510.731
Co 228.615	522.212	524.635	511.754
Cr 267.716	5156.95	5200.92	5069.17
Cu 324.754	5194.76	5172.12	5104.16
Fe 271.441	4985.79	4999.75	4861.14
K 766.491	9820.29	9864.48	9653.89
Mg 279.078	5102.03	5164.06	5041.17
Mn 257.610	5257.13	5280.68	5148.05
Mo 202.032	490.034	495.016	484.415
Na 330.237	8204.28	8274.74	7949.06
Ni 231.604	2633.67	2646.83	2572.26
Pb 220.353	501.282	503.106	494.021
Sb 206.834	930.076	937.484	917.198
Se 196.026	5025.66	5039.15	4944.26
Sn 189.925	4978.50	5012.70	4926.86
Sr 216.596	2527.19	2538.99	2479.32
Ti 334.941	488.608	491.685	479.857
Tl 190.794	5022.70	5068.24	4949.53
V 292.401	4965.67	4982.22	4870.86
Zn 206.200	2624.31	2636.93	2580.83

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	488.494	ppb	1.2192	0.2	36765.4	97.69882
Al 308.215	4833.37	ppb	58.6477	1.2	10607.0	96.66734
As 188.980	486.967	ppb	1.9608	0.4	286.696	97.39343
B 249.678	544.415	ppb	2.9725	0.5	6485.06	21.77661Q
Ba 389.178	5023.50	ppb	71.2703	1.4	107817	100.47005
Be 313.042	514.001	ppb	6.8419	1.3	894225	102.80028
Ca 370.602	4990	ppb	59.10	1.2	13579	99.79295
Cd 226.502	516.414	ppb	4.9796	1.0	17563.8	103.28286
Co 228.615	519.533	ppb	6.8455	1.3	5180.43	103.90669
Cr 267.716	5142.35	ppb	67.0753	1.3	158587	102.84693
Cu 324.754	5157.01	ppb	47.1509	0.9	268265	103.14024
Fe 271.441	4948.89	ppb	76.3147	1.5	8322.38	98.97781
K 766.491	9779.55	ppb	111.048	1.1	310937	97.79551
Mg 279.078	5102.42	ppb	61.4445	1.2	10133.6	102.04838
Mn 257.610	5228.62	ppb	70.7609	1.4	1211359	104.57240
Mo 202.032	489.822	ppb	5.3039	1.1	3488.79	97.96437
Na 330.237	8142.69	ppb	171.347	2.1	389.600	108.56924
Ni 231.604	2617.58	ppb	39.8021	1.5	6718.61	104.70336
Pb 220.353	499.470	ppb	4.8063	1.0	879.120	99.89391
Sb 206.834	928.253	ppb	10.2652	1.1	959.577	92.82526
Se 196.026	5003.03	ppb	51.3390	1.0	2327.05	100.06051
Sn 189.925	4972.69	ppb	43.2180	0.9	3610.86	99.45376
Sr 216.596	2515.16	ppb	31.5996	1.3	24116.3	100.60658
Ti 334.941	486.717	ppb	6.1365	1.3	124258	97.34340
Tl 190.794	5013.49	ppb	59.8854	1.2	4800.22	100.26978
V 292.401	4939.58	ppb	60.0871	1.2	130274	98.79162
Zn 206.200	2614.03	ppb	29.4310	1.1	3352.68	104.56104

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

Cont Calib Blank (CCB) 4/18/2013, 2:08:20 AM Rack 3, Tube 26
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7511u	-0.9783u	-0.7553u
Al 308.215	-1.4818u	-0.0991u	1.0734
As 188.980	-0.8963u	0.1533	0.6853
B 249.678	17.2039	15.7562	14.5093
Ba 389.178	-1.7176u	-0.5503u	0.4040
Be 313.042	-0.4595u	-0.4257u	-0.3272u
Ca 370.602	-2.293u	4.578	23.14
Cd 226.502	-0.4209u	-0.3476u	-0.2652u
Co 228.615	-0.9883u	-0.8826u	-0.6551u
Cr 267.716	-0.4749u	0.3260	0.7366
Cu 324.754	-0.5536u	0.7851	1.1895
Fe 271.441	-17.2590u	-4.4497u	-7.9333u
K 766.491	-4.0121u	-2.1860u	2.5765
Mg 279.078	5.0980	10.2711	25.0524
Mn 257.610	-0.7126u	-0.2037u	0.9225
Mo 202.032	-0.7248u	-0.3962u	0.3249
Na 330.237	74.4045	36.6717	290.512
Ni 231.604	0.5740	-1.0017u	1.7914
Pb 220.353	2.5715	1.9987	2.2991
Sb 206.834	2.5747	6.8747	0.1166
Se 196.026	-2.0076u	-5.2511u	3.0976
Sn 189.925	-6.9313u	-1.1058u	-0.6426u
Sr 216.596	-2.4402u	-1.7232u	-1.5280u
Ti 334.941	-0.4605u	-0.3535u	-0.3488u
Tl 190.794	-0.9838u	0.6481	3.6930
V 292.401	-0.0749u	0.7232	1.6727
Zn 206.200	-1.9850u	-0.7435u	-2.0222u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.8282	ppb	0.1300	15.7	-37.0868	-0.82824
Al 308.215	-0.1691	ppb	1.2790	756.2	-24.5663	-0.16914
As 188.980	-0.0192	ppb	0.8048	4184.9	-9.6111	-0.01923
B 249.678	15.8231	ppb	1.3485	8.5	375.864	15.82310
Ba 389.178	-0.6213	ppb	1.0626	171.0	7.9356	-0.62131
Be 313.042	-0.4042	ppb	0.0687	17.0	-91.6585	-0.40416
Ca 370.602	8.475	ppb	13.16	155.2	41.13	8.47455
Cd 226.502	-0.3446	ppb	0.0779	22.6	31.5952	-0.34455
Co 228.615	-0.8420	ppb	0.1703	20.2	-10.2229	-0.84201
Cr 267.716	0.1959	ppb	0.6162	314.6	15.3819	0.19588
Cu 324.754	0.4737	ppb	0.9123	192.6	235.442	0.47365
Fe 271.441	-9.8807	ppb	6.6230	67.0	98.1124	-9.88066
K 766.491	-1.2072	ppb	3.4016	281.8	431.379	-1.20722
Mg 279.078	13.4738	ppb	10.3556	76.9	61.4953	13.47383
Mn 257.610	0.0021	ppb	0.8367	40601.1	428.166	0.00206
Mo 202.032	-0.2654	ppb	0.5369	202.3	19.6003	-0.26537
Na 330.237	133.863	ppb	136.968	102.3	61.3041	133.86284
Ni 231.604	0.4546	ppb	1.4004	308.1	-3.3907	0.45457
Pb 220.353	2.2898	ppb	0.2865	12.5	31.8236	2.28978
Sb 206.834	3.1887	ppb	3.4206	107.3	0.1708	3.18868
Se 196.026	-1.3870	ppb	4.2088	303.4	9.7470	-1.38702
Sn 189.925	-2.8932	ppb	3.5047	121.1	-7.2151	-2.89324
Sr 216.596	-1.8971	ppb	0.4803	25.3	30.5189	-1.89714
Ti 334.941	-0.3876	ppb	0.0631	16.3	-9.6184	-0.38760
Tl 190.794	1.1191	ppb	2.3737	212.1	-11.3229	1.11910
V 292.401	0.7737	ppb	0.8749	113.1	36.7714	0.77367
Zn 206.200	-1.5836	ppb	0.7278	46.0	45.9536	-1.58357

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

640-43129-d-1-d (Samp) 4/18/2013, 2:13:56 AM Rack 3, Tube 27

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7051u	-1.1324u	-1.0488u
Al 308.215	5.8088	3.6229	9.4178
As 188.980	2.8813	-2.4130	-0.4976
B 249.678	293.807	296.713	296.447
Ba 389.178	350.954	350.854	349.756
Be 313.042	-0.5798u	-0.5824u	-0.5776u
Ca 370.602	223721	224319	223903
Cd 226.502	-0.5968u	-0.4336u	-0.1089
Co 228.615	-0.2792u	0.2306	0.6889
Cr 267.716	-0.8938u	-0.9843u	-1.1768u
Cu 324.754	-0.5529u	-0.8278u	-0.5885u
Fe 271.441	3962.59	3981.99	3967.79
K 766.491	18344.1	18336.5	18354.8
Mg 279.078	91160.3	91311.8	90927.2
Mn 257.610	963.396	965.060	961.614
Mo 202.032	-0.0465u	-0.7120u	-0.0511u
Na 330.237	535189x	533630x	534255x
Ni 231.604	2.1336	2.6560	0.3647
Pb 220.353	4.3346	1.3588	2.5904
Sb 206.834	0.1807	1.7471	-4.0731u
Se 196.026	1.1973	-6.8386u	-1.5540u
Sn 189.925	-3.5711u	-6.0981u	-5.2680u
Sr 216.596	1312.04	1316.76	1312.77
Ti 334.941	-1.4580u	-1.5547u	-1.4415u
Tl 190.794	-1.2379u	-4.3850u	-1.2024u
V 292.401	-1.1611u	-0.6806u	-1.3532u
Zn 206.200	0.5750	0.2149	0.7143

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9621b	ppb	0.2264	23.5	-104.211
Al 308.215	6.2831b	ppb	2.9264	46.6	-10.3600
As 188.980	-0.0098b	ppb	2.6807	27426.0	-7.7516
B 249.678	295.656b	ppb	1.6064	0.5	3608.53
Ba 389.178	350.521b	ppb	0.6650	0.2	7765.28
Be 313.042	-0.5799b	ppb	0.0024	0.4	-381.849
Ca 370.602	223981b	ppb	306.8	0.1	613330
Cd 226.502	-0.3798b	ppb	0.2484	65.4	37.7250
Co 228.615	0.2134b	ppb	0.4843	226.9	0.1887
Cr 267.716	-1.0183b	ppb	0.1446	14.2	-13.0855
Cu 324.754	-0.6564b	ppb	0.1495	22.8	177.937
Fe 271.441	3970.79b	ppb	10.0418	0.3	6602.34
K 766.491	18345.1b	ppb	9.2141	0.1	582865
Mg 279.078	91133.1b	ppb	193.708	0.2	181824
Mn 257.610	963.357b	ppb	1.7235	0.2	224070
Mo 202.032	-0.2699b	ppb	0.3829	141.9	19.3760
Na 330.237	534358xb	ppb	784.678	0.1	23358.0
Ni 231.604	1.7181b	ppb	1.2008	69.9	-0.0645
Pb 220.353	2.7613b	ppb	1.4953	54.2	32.8411
Sb 206.834	-0.7151b	ppb	3.0117	421.2	-3.5939
Se 196.026	-2.3985b	ppb	4.0839	170.3	9.4989
Sn 189.925	-4.9790b	ppb	1.2880	25.9	-8.4941
Sr 216.596	1313.86b	ppb	2.5423	0.2	12670.9
Ti 334.941	-1.4847b	ppb	0.0611	4.1	48.3562
Tl 190.794	-2.2751b	ppb	1.8273	80.3	-16.1434
V 292.401	-1.0650b	ppb	0.3465	32.5	-14.4858
Zn 206.200	0.5014b	ppb	0.2577	51.4	4.6380

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

640-43129-d-1-dSD^5 (Samp) 4/18/2013, 2:19:33 AM Rack 3, Tube 28

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.2076u	-1.0824u	-0.7678u
Al 308.215	3.4184	6.7602	-2.6464u
As 188.980	-6.7937u	-2.8113u	-2.4503u
B 249.678	62.1388	61.1402	60.1049
Ba 389.178	68.8291	69.8215	69.7303
Be 313.042	-0.5459u	-0.5368u	-0.5265u
Ca 370.602	46254	46154	46143
Cd 226.502	-0.2744u	-0.3412u	-0.3787u
Co 228.615	-0.9662u	-0.5137u	-0.5864u
Cr 267.716	-1.3569u	-0.6859u	-0.8269u
Cu 324.754	-0.7766u	-0.7912u	-0.5621u
Fe 271.441	828.634	837.182	837.797
K 766.491	2871.81	2861.74	2859.06
Mg 279.078	18720.9	18667.6	18608.9
Mn 257.610	202.233	201.073	200.979
Mo 202.032	-1.2553u	-0.8449u	-1.2518u
Na 330.237	95183.4	94791.7	94852.8
Ni 231.604	1.3337	0.5603	2.0142
Pb 220.353	3.5792	3.1186	1.9582
Sb 206.834	5.5901	1.8012	0.6931
Se 196.026	0.9184	6.2901	4.9005
Sn 189.925	-7.7795u	-7.7905u	-4.0831u
Sr 216.596	273.632	275.526	274.517
Ti 334.941	-0.7186u	-0.7560u	-0.7403u
Tl 190.794	-3.1116u	-0.6491u	-1.9677u
V 292.401	-1.1210u	-1.1479u	-0.9722u
Zn 206.200	0.4684	-0.7836u	0.3301

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0193b	ppb	0.2266	22.2	-63.4501
Al 308.215	2.5107b	ppb	4.7685	189.9	-18.6933
As 188.980	-4.0184b	ppb	2.4102	60.0	-11.6625
B 249.678	61.1280b	ppb	1.0170	1.7	899.002
Ba 389.178	69.4603b	ppb	0.5485	0.8	1557.33
Be 313.042	-0.5364b	ppb	0.0097	1.8	-316.698
Ca 370.602	46184b	ppb	61.52	0.1	126478
Cd 226.502	-0.3314b	ppb	0.0528	15.9	33.6723
Co 228.615	-0.6887b	ppb	0.2430	35.3	-8.7024
Cr 267.716	-0.9566b	ppb	0.3538	37.0	-18.4525
Cu 324.754	-0.7100b	ppb	0.1283	18.1	174.168
Fe 271.441	834.537b	ppb	5.1220	0.6	1477.82
K 766.491	2864.20b	ppb	6.7224	0.2	91398.2
Mg 279.078	18665.8b	ppb	56.0067	0.3	37268.4
Mn 257.610	201.428b	ppb	0.6984	0.3	47186.8
Mo 202.032	-1.1174b	ppb	0.2359	21.1	13.5150
Na 330.237	94942.6b	ppb	210.751	0.2	4195.73
Ni 231.604	1.3027b	ppb	0.7275	55.8	-1.1951
Pb 220.353	2.8853b	ppb	0.8353	29.0	32.8844
Sb 206.834	2.6948b	ppb	2.5679	95.3	-0.2998
Se 196.026	4.0363b	ppb	2.7882	69.1	12.3030
Sn 189.925	-6.5511b	ppb	2.1373	32.6	-9.8304
Sr 216.596	274.558b	ppb	0.9479	0.3	2686.35
Ti 334.941	-0.7383b	ppb	0.0188	2.5	-28.9814
Tl 190.794	-1.9095b	ppb	1.2323	64.5	-14.5602
V 292.401	-1.0804b	ppb	0.0946	8.8	-12.5062
Zn 206.200	0.0049b	ppb	0.6864	1385.4	3.9997

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

640-43129-d-1-dPDS (Samp) 4/18/2013, 2:25:10 AM Rack 3, Tube 29**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.4765	51.4420	51.3253
Al 308.215	2140.60	2161.46	2173.02
As 188.980	2306.73	2297.12	2292.52
B 249.678	1346.32	1354.77	1357.37
Ba 389.178	2394.70	2390.30	2389.86
Be 313.042	51.8138	51.7842	51.8244
Ca 370.602	225055	226598	226493
Cd 226.502	51.6094	51.5958	52.0966
Co 228.615	525.127	523.141	524.344
Cr 267.716	204.720	205.909	206.848
Cu 324.754	272.281	272.693	271.785
Fe 271.441	4866.64	4852.37	4858.20
K 766.491	25596.6	25480.6	25480.0
Mg 279.078	95403.0	95418.6	95569.6
Mn 257.610	1494.48	1493.24	1492.08
Mo 202.032	507.455	508.977	507.907
Na 330.237	536966x	534760x	535993x
Ni 231.604	511.102	512.030	509.432
Pb 220.353	494.082	495.983	495.889
Sb 206.834	500.133	507.387	510.506
Se 196.026	2131.51	2147.51	2159.64
Sn 189.925	1007.39	1001.77	1011.94
Sr 216.596	1807.03	1807.55	1816.43
Ti 334.941	981.207	982.318	984.629
Tl 190.794	1959.58	1959.53	1955.11
V 292.401	502.720	501.074	500.428
Zn 206.200	522.952	520.751	519.658

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.4146b	ppb	0.0792	0.2	3824.12
Al 308.215	2158.36b	ppb	16.4304	0.8	4749.50
As 188.980	2298.79b	ppb	7.2466	0.3	1391.47
B 249.678	1352.82b	ppb	5.7761	0.4	15837.2
Ba 389.178	2391.62b	ppb	2.6766	0.1	51566.2
Be 313.042	51.8075b	ppb	0.0208	0.0	90629.5
Ca 370.602	226049b	ppb	862.0	0.4	619103
Cd 226.502	51.7673b	ppb	0.2853	0.6	1807.92
Co 228.615	524.204b	ppb	1.0004	0.2	5226.08
Cr 267.716	205.825b	ppb	1.0664	0.5	6365.64
Cu 324.754	272.253b	ppb	0.4548	0.2	14374.8
Fe 271.441	4859.07b	ppb	7.1727	0.1	8135.92
K 766.491	25519.1b	ppb	67.1312	0.3	810613
Mg 279.078	95463.8b	ppb	92.0328	0.1	190454
Mn 257.610	1493.27b	ppb	1.1989	0.1	346818
Mo 202.032	508.113b	ppb	0.7820	0.2	3626.80
Na 330.237	535906xb	ppb	1105.67	0.2	23415.5
Ni 231.604	510.855b	ppb	1.3164	0.3	1307.63
Pb 220.353	495.318b	ppb	1.0711	0.2	870.929
Sb 206.834	506.008b	ppb	5.3221	1.1	491.069
Se 196.026	2146.22b	ppb	14.1118	0.7	1004.02
Sn 189.925	1007.04b	ppb	5.0943	0.5	727.409
Sr 216.596	1810.33b	ppb	5.2823	0.3	17408.6
Ti 334.941	982.718b	ppb	1.7459	0.2	251108
Tl 190.794	1958.08b	ppb	2.5641	0.1	1867.20
V 292.401	501.407b	ppb	1.1817	0.2	13182.9
Zn 206.200	521.120b	ppb	1.6778	0.3	673.659

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

640-43129-d-1-e ms (Samp) **4/18/2013, 2:30:46 AM** **Rack 3, Tube 30****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	32.9161	32.8233	32.9534
Al 308.215	5568.60	5574.93	5615.60
As 188.980	100.987	106.410	118.432
B 249.678	517.034	518.088	518.854
Ba 389.178	456.753	456.148	454.793
Be 313.042	53.3682	53.3323	53.3411
Ca 370.602	228368	227794	229153
Cd 226.502	52.6471	53.0880	53.0720
Co 228.615	52.1436	52.6789	52.7543
Cr 267.716	105.082	104.805	105.132
Cu 324.754	109.235	109.359	108.202
Fe 271.441	8429.06	8424.73	8411.49
K 766.491	25372.6	25247.4	25193.3
Mg 279.078	95947.0	96036.6	96157.4
Mn 257.610	1549.13	1549.07	1548.65
Mo 202.032	99.6891	101.173	101.304
Na 330.237	532752x	530803x	529778x
Ni 231.604	104.698	104.837	101.686
Pb 220.353	52.9238	58.1979	48.7040
Sb 206.834	56.8647	53.4113	46.4883
Se 196.026	111.333	110.786	104.865
Sn 189.925	194.464	194.878	190.192
Sr 216.596	1412.41	1410.62	1416.13
Ti 334.941	98.4402	98.3319	98.2852
Tl 190.794	41.4824	33.9985	37.2672
V 292.401	101.974	102.240	102.062
Zn 206.200	103.663	105.341	102.514

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	32.8976b	ppb	0.0670	0.2	2445.12
Al 308.215	5586.38b	ppb	25.5085	0.5	12278.1
As 188.980	108.610b	ppb	8.9283	8.2	58.3377
B 249.678	517.992b	ppb	0.9141	0.2	6175.48
Ba 389.178	455.898b	ppb	1.0036	0.2	10044.2
Be 313.042	53.3472b	ppb	0.0187	0.0	93381.3
Ca 370.602	228438b	ppb	682.3	0.3	625259
Cd 226.502	52.9357b	ppb	0.2501	0.5	1855.35
Co 228.615	52.5256b	ppb	0.3329	0.6	520.558
Cr 267.716	105.006b	ppb	0.1764	0.2	3258.29
Cu 324.754	108.932b	ppb	0.6350	0.6	5878.12
Fe 271.441	8421.76b	ppb	9.1518	0.1	13883.7
K 766.491	25271.1b	ppb	91.9469	0.4	802740
Mg 279.078	96047.0b	ppb	105.596	0.1	191617
Mn 257.610	1548.95b	ppb	0.2631	0.0	359727
Mo 202.032	100.722b	ppb	0.8969	0.9	735.787
Na 330.237	531111xb	ppb	1510.68	0.3	23213.9
Ni 231.604	103.740b	ppb	1.7805	1.7	262.064
Pb 220.353	53.2752b	ppb	4.7567	8.9	118.809
Sb 206.834	52.2548b	ppb	5.2840	10.1	48.7965
Se 196.026	108.995b	ppb	3.5866	3.3	61.1845
Sn 189.925	193.178b	ppb	2.5945	1.3	135.600
Sr 216.596	1413.05b	ppb	2.8150	0.2	13619.4
Ti 334.941	98.3524b	ppb	0.0795	0.1	25534.9
Tl 190.794	37.5827b	ppb	3.7519	10.0	21.1466
V 292.401	102.092b	ppb	0.1354	0.1	2690.23
Zn 206.200	103.839b	ppb	1.4220	1.4	137.266

640-43129-d-1-f msd (Samp) 4/18/2013, 2:36:23 AM Rack 3, Tube 31

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	12.6341	13.1583	12.6781
Al 308.215	5632.53	5614.46	5644.06
As 188.980	112.893	119.496	115.895
B 249.678	499.820	500.860	504.243
Ba 389.178	408.689	407.667	406.726
Be 313.042	53.2598	53.2267	53.1445
Ca 370.602	225140	222564	225074
Cd 226.502	52.7853	53.2260	53.1689
Co 228.615	52.2442	51.8258	53.1485
Cr 267.716	105.502	104.950	105.809
Cu 324.754	110.173	109.515	108.706
Fe 271.441	8402.81	8416.10	8397.65
K 766.491	24648.8	24606.1	24542.8
Mg 279.078	93880.4	93993.6	94035.6
Mn 257.610	1531.43	1534.96	1532.81
Mo 202.032	100.055	99.7724	99.7937
Na 330.237	516012x	515655x	514709x
Ni 231.604	102.839	104.594	103.901
Pb 220.353	52.3252	55.3187	49.3188
Sb 206.834	54.7975	58.6363	51.6135
Se 196.026	109.131	112.319	107.686
Sn 189.925	192.013	199.723	193.286
Sr 216.596	1380.25	1384.28	1386.27
Ti 334.941	98.0892	97.8992	97.9182
Tl 190.794	34.6770	35.3816	42.5386
V 292.401	101.725	101.652	101.554
Zn 206.200	104.609	105.740	105.020

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	12.8235b	ppb	0.2908	2.3	934.562
Al 308.215	5630.35b	ppb	14.9190	0.3	12374.8
As 188.980	116.095b	ppb	3.3061	2.8	62.8553
B 249.678	501.641b	ppb	2.3125	0.5	5986.35
Ba 389.178	407.694b	ppb	0.9819	0.2	9004.99
Be 313.042	53.2104b	ppb	0.0594	0.1	93143.6
Ca 370.602	224259b	ppb	1469	0.7	613812
Cd 226.502	53.0600b	ppb	0.2397	0.5	1859.57
Co 228.615	52.4062b	ppb	0.6761	1.3	519.380
Cr 267.716	105.420b	ppb	0.4352	0.4	3270.86
Cu 324.754	109.465b	ppb	0.7349	0.7	5905.79
Fe 271.441	8405.52b	ppb	9.5206	0.1	13857.1
K 766.491	24599.2b	ppb	53.3793	0.2	781411
Mg 279.078	93969.9b	ppb	80.2863	0.1	187473
Mn 257.610	1533.06b	ppb	1.7803	0.1	356036
Mo 202.032	99.8737b	ppb	0.1573	0.2	729.767
Na 330.237	515459xb	ppb	673.305	0.1	22531.4
Ni 231.604	103.778b	ppb	0.8838	0.9	262.161
Pb 220.353	52.3209b	ppb	2.9999	5.7	117.180
Sb 206.834	55.0158b	ppb	3.5165	6.4	51.5171
Se 196.026	109.712b	ppb	2.3707	2.2	61.5130
Sn 189.925	195.007b	ppb	4.1335	2.1	136.924
Sr 216.596	1383.60b	ppb	3.0669	0.2	13336.6
Ti 334.941	97.9689b	ppb	0.1046	0.1	25429.4
Tl 190.794	37.5324b	ppb	4.3498	11.6	21.1217
V 292.401	101.644b	ppb	0.0856	0.1	2678.62
Zn 206.200	105.123b	ppb	0.5726	0.5	138.919

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

640-43129-d-2-b (Samp) 4/18/2013, 2:42:00 AM Rack 3, Tube 32

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7656u	-0.6514u	-0.6150u
Al 308.215	14.8928	21.1788	12.4504
As 188.980	-5.5608u	-7.2095u	2.8667
B 249.678	329.073	331.094	332.880
Ba 389.178	556.539	558.164	558.083
Be 313.042	-0.4101u	-0.3964u	-0.3495u
Ca 370.602	189968	190054	190501
Cd 226.502	-0.1946u	-0.0971u	-0.1701u
Co 228.615	-0.7164u	-0.4204u	-0.3663u
Cr 267.716	-0.0676	-0.0067	0.2892
Cu 324.754	0.3072	0.4571	0.4727
Fe 271.441	76.6276	96.0504	94.9467
K 766.491	16713.8	16932.5	17300.7
Mg 279.078	112980	113326	113744
Mn 257.610	453.515	455.695	457.949
Mo 202.032	0.0405	-0.6658u	-0.1492u
Na 330.237	328303x	332661x	328600x
Ni 231.604	1.9778	2.0357	2.4467
Pb 220.353	2.3701	2.3145	2.8796
Sb 206.834	5.7740	-4.3343u	1.8434
Se 196.026	3.9966	9.2041	1.1123
Sn 189.925	-2.6261u	-3.8399u	-4.5667u
Sr 216.596	1429.62	1431.03	1442.25
Ti 334.941	-1.6336	-1.5673	-1.5134
Tl 190.794	-5.2742u	-5.7266u	2.8370
V 292.401	-0.5302u	-0.1091u	0.0416
Zn 206.200	1.4412	0.5944	-0.9998u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6774b	ppb	0.0786	11.6	-90.5657
Al 308.215	16.1740b	ppb	4.5030	27.8	11.4258
As 188.980	-3.3012b	ppb	5.4048	163.7	-10.0007
B 249.678	331.016b	ppb	1.9046	0.6	4022.07
Ba 389.178	557.595b	ppb	0.9155	0.2	12255.8
Be 313.042	-0.3853b	ppb	0.0318	8.3	-34.7715
Ca 370.602	190175b	ppb	286.2	0.2	520982
Cd 226.502	-0.1539b	ppb	0.0507	33.0	38.0050
Co 228.615	-0.5010b	ppb	0.1884	37.6	-6.8129
Cr 267.716	0.0716b	ppb	0.1909	266.5	16.3542
Cu 324.754	0.4124b	ppb	0.0914	22.2	232.300
Fe 271.441	89.2082b	ppb	10.9091	12.2	260.027
K 766.491	16982.4b	ppb	296.590	1.7	539601
Mg 279.078	113350b	ppb	382.516	0.3	226152
Mn 257.610	455.720b	ppb	2.2173	0.5	106626
Mo 202.032	-0.2582b	ppb	0.3655	141.6	19.6485
Na 330.237	329855xb	ppb	2434.85	0.7	14440.5
Ni 231.604	2.1534b	ppb	0.2557	11.9	0.9747
Pb 220.353	2.5214b	ppb	0.3115	12.4	32.3194
Sb 206.834	1.0944b	ppb	5.0956	465.6	-1.8947
Se 196.026	4.7710b	ppb	4.1011	86.0	12.7031
Sn 189.925	-3.6776b	ppb	0.9805	26.7	-7.6191
Sr 216.596	1434.30b	ppb	6.9184	0.5	13821.4
Ti 334.941	-1.5714b	ppb	0.0602	3.8	130.010
Tl 190.794	-2.7213b	ppb	4.8189	177.1	-15.6653
V 292.401	-0.1993b	ppb	0.2964	148.7	10.0015
Zn 206.200	0.3453b	ppb	1.2394	359.0	474349

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640-43129-d-3-b (Samp) 4/18/2013, 2:47:36 AM Rack 3, Tube 33

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8596u	-1.1367u	-1.0181u
Al 308.215	3.4010	-4.3005u	1.5033
As 188.980	-7.5446u	-1.7336	-7.9805u
B 249.678	2005.72	2014.22	2017.32
Ba 389.178	185.364	185.008	183.309
Be 313.042	-0.4963u	-0.5060u	-0.4923u
Ca 370.602	141506	141091	140822
Cd 226.502	-0.2146u	-0.4109u	-0.4057u
Co 228.615	-0.1263u	0.1534	-0.9620u
Cr 267.716	-1.4324u	-1.6500u	-1.5996u
Cu 324.754	-0.3005u	-0.7797u	-0.2585u
Fe 271.441	62.0591	59.8293	55.2788
K 766.491	102806x	102576x	102053x
Mg 279.078	226089	226011	225748
Mn 257.610	376.415	376.315	375.707
Mo 202.032	-0.4526u	-0.9405u	-1.1237u
Na 330.237	1760674x	1748484x	1763142x
Ni 231.604	0.8765	0.8917	1.3687
Pb 220.353	3.9746	4.1547	7.4394
Sb 206.834	4.0710	-7.3154u	4.7170
Se 196.026	-2.1674u	2.2076	4.6149
Sn 189.925	-2.7078u	-1.1960u	-9.5750u
Sr 216.596	1396.16	1390.16	1389.15
Ti 334.941	-3.5190u	-3.5907u	-3.5598u
Tl 190.794	-4.3834u	-5.3885u	-3.5957u
V 292.401	-0.4571u	-0.8194u	-0.7903u
Zn 206.200	-0.4189u	1.6269	-0.7200u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0048b	ppb	0.1390	13.8	-115.367
Al 308.215	0.2013b	ppb	4.0125	1993.7	-23.7730
As 188.980	-5.7529b	ppb	3.4876	60.6	-11.9125
B 249.678	2012.42b	ppb	6.0061	0.3	23473.5
Ba 389.178	184.560b	ppb	1.0979	0.6	4524.22
Be 313.042	-0.4982b	ppb	0.0070	1.4	-397.041
Ca 370.602	141140b	ppb	344.8	0.2	386657
Cd 226.502	-0.3437b	ppb	0.1119	32.6	26.0109
Co 228.615	-0.3116b	ppb	0.5803	186.2	-4.8655
Cr 267.716	-1.5607b	ppb	0.1139	7.3	-18.9628
Cu 324.754	-0.4462b	ppb	0.2896	64.9	187.643
Fe 271.441	59.0557b	ppb	3.4557	5.9	210.805
K 766.491	102478xb	ppb	386.148	0.4	3253806
Mg 279.078	225949b	ppb	178.697	0.1	450779
Mn 257.610	376.146b	ppb	0.3833	0.1	88841.9
Mo 202.032	-0.8390b	ppb	0.3469	41.4	15.5291
Na 330.237	1757433xb	ppb	7847.50	0.4	76697.8
Ni 231.604	1.0456b	ppb	0.2799	26.8	-1.8713
Pb 220.353	5.1896b	ppb	1.9505	37.6	36.8507
Sb 206.834	0.4908b	ppb	6.7681	1378.9	-2.4914
Se 196.026	1.5517b	ppb	3.4384	221.6	11.1954
Sn 189.925	-4.4929b	ppb	4.4657	99.4	-7.8167
Sr 216.596	1391.82b	ppb	3.7860	0.3	13409.5
Ti 334.941	-3.5565b	ppb	0.0360	1.0	-10.7199
Tl 190.794	-4.4559b	ppb	0.8986	20.2	-17.2222
V 292.401	-0.6889b	ppb	0.2013	29.2	-11.5965
Zn 206.200	0.1627b	ppb	1.2770	785.1	4.2029

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640-43129-d-4-b (Samp) 4/18/2013, 2:53:13 AM Rack 3, Tube 34

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9910u	-1.3108u	-1.2666u
Al 308.215	6.2202	2.1172	7.7910
As 188.980	-14.1788u	-0.6013	-0.4184
B 249.678	2123.80	2124.07	2136.02
Ba 389.178	251.044	250.779	250.844
Be 313.042	-0.4835u	-0.4944u	-0.4957u
Ca 370.602	162029	161708	161353
Cd 226.502	-0.3255u	-0.2871u	-0.4671u
Co 228.615	0.3150	0.4360	0.1759
Cr 267.716	-1.7142u	-1.5911u	-1.9250u
Cu 324.754	-0.4532u	-0.2483u	-0.4955u
Fe 271.441	64.7343	71.9932	57.3339
K 766.491	106983x	106604x	106268x
Mg 279.078	251813	251296	251327
Mn 257.610	260.738	260.249	260.670
Mo 202.032	-0.5440u	-1.0345u	-1.3611u
Na 330.237	2032876x	2023212x	2029954x
Ni 231.604	-1.1525u	1.3340	1.5328
Pb 220.353	4.6403	1.8503	8.7271
Sb 206.834	0.8680	-1.1373u	-3.0781u
Se 196.026	-2.3131u	7.5086	2.9857
Sn 189.925	-3.4838u	-4.5807u	-6.1236u
Sr 216.596	1578.03	1571.90	1571.06
Ti 334.941	-3.9129u	-3.8976u	-3.9240u
Tl 190.794	-3.6345u	-2.4082u	-2.0369u
V 292.401	-0.2062u	-0.7950u	-0.8349u
Zn 206.200	0.6148	-1.6218u	-0.2914u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1895b	ppb	0.1733	14.6	-138.367
Al 308.215	5.3761b	ppb	2.9296	54.5	-12.3776
As 188.980	-5.0662b	ppb	7.8923	155.8	-11.3240
B 249.678	2127.96b	ppb	6.9795	0.3	24810.1
Ba 389.178	250.889b	ppb	0.1383	0.1	6008.69
Be 313.042	-0.4912b	ppb	0.0067	1.4	-406.438
Ca 370.602	161696b	ppb	338.2	0.2	442966
Cd 226.502	-0.3599b	ppb	0.0948	26.3	24.4837
Co 228.615	0.3089b	ppb	0.1302	42.1	1.3155
Cr 267.716	-1.7434b	ppb	0.1689	9.7	-22.0284
Cu 324.754	-0.3990b	ppb	0.1322	33.1	190.101
Fe 271.441	64.6871b	ppb	7.3297	11.3	220.064
K 766.491	106618xb	ppb	357.431	0.3	3385235
Mg 279.078	251479b	ppb	289.669	0.1	501710
Mn 257.610	260.552b	ppb	0.2651	0.1	62219.1
Mo 202.032	-0.9799b	ppb	0.4113	42.0	14.5287
Na 330.237	2028681xb	ppb	4956.41	0.2	88527.0
Ni 231.604	0.5714b	ppb	1.4963	261.9	-3.0892
Pb 220.353	5.0726b	ppb	3.4587	68.2	36.6256
Sb 206.834	-1.1158b	ppb	1.9732	176.8	-4.0757
Se 196.026	2.7270b	ppb	4.9160	180.3	11.7127
Sn 189.925	-4.7294b	ppb	1.3262	28.0	-7.9026
Sr 216.596	1573.66b	ppb	3.8035	0.2	15155.2
Ti 334.941	-3.9115b	ppb	0.0132	0.3	-14.6154
Tl 190.794	-2.6932b	ppb	0.8360	31.0	-15.3663
V 292.401	-0.6120b	ppb	0.3520	57.5	-11.2017
Zn 206.200	-0.4328b	ppb	1.1250	259.8	-3.4375

680-89241-c-1-b (Samp) 4/18/2013, 2:58:49 AM Rack 3, Tube 35

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6802u	-0.6600u	-0.7211u
Al 308.215	8.2913	6.4942	13.3740
As 188.980	-3.1584u	-1.0484u	3.3382
B 249.678	40.1543	36.9091	34.2992
Ba 389.178	163.420	163.963	164.334
Be 313.042	-0.5437u	-0.5587u	-0.5472u
Ca 370.602	58692	58551	58567
Cd 226.502	-0.3560u	-0.3511u	-0.5462u
Co 228.615	2.5763	2.5375	2.4029
Cr 267.716	1.6442	1.5123	1.2803
Cu 324.754	-1.1206u	-0.9854u	-0.8051u
Fe 271.441	179.315	183.712	186.913
K 766.491	8127.12	8122.73	8137.27
Mg 279.078	14782.4	14812.2	14896.2
Mn 257.610	13610.4	13586.3	13626.4
Mo 202.032	-0.8464u	-0.9356u	-0.8123u
Na 330.237	124933x	124953x	125811x
Ni 231.604	2.9244	3.0887	3.3256
Pb 220.353	1.3029	3.1676	5.1290
Sb 206.834	-2.8090u	-2.5575u	-4.5254u
Se 196.026	3.6563	-4.1634	8.4446
Sn 189.925	-4.2470u	-5.5212u	-0.1602u
Sr 216.596	517.437	512.991	514.182
Ti 334.941	-0.6204u	-0.6329u	-0.6793u
Tl 190.794	24.3718	25.1286	16.8485u
V 292.401	-1.1764u	-1.2402u	-1.5464u
Zn 206.200	1.9925	1.0639	2.0822

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6871b	ppb	0.0311	4.5	12.7123
Al 308.215	9.3865b	ppb	3.5683	38.0	-3.5485
As 188.980	-0.2895b	ppb	3.3141	1144.8	-9.2819
B 249.678	37.1209b	ppb	2.9333	7.9	622.041
Ba 389.178	163.906b	ppb	0.4600	0.3	3573.01
Be 313.042	-0.5499b	ppb	0.0078	1.4	-342.699
Ca 370.602	58603b	ppb	77.52	0.1	160870
Cd 226.502	-0.4178b	ppb	0.1113	26.6	29.1125
Co 228.615	2.5055b	ppb	0.0910	3.6	23.1286
Cr 267.716	1.4789b	ppb	0.1842	12.5	94.1396
Cu 324.754	-0.9704b	ppb	0.1583	16.3	160.435
Fe 271.441	183.313b	ppb	3.8148	2.1	414.260
K 766.491	8129.04b	ppb	7.4583	0.1	258539
Mg 279.078	14830.3b	ppb	59.0080	0.4	29413.3
Mn 257.610	13607.7b	ppb	20.1958	0.1	3151903
Mo 202.032	-0.8648b	ppb	0.0636	7.4	15.3403
Na 330.237	125232xb	ppb	501.466	0.4	5516.83
Ni 231.604	3.1129b	ppb	0.2017	6.5	3.4409
Pb 220.353	3.1999b	ppb	1.9133	59.8	36.3924
Sb 206.834	-3.2973b	ppb	1.0710	32.5	-6.2127
Se 196.026	2.6458b	ppb	6.3645	240.5	14.7658
Sn 189.925	-3.3094b	ppb	2.8008	84.6	-7.4598
Sr 216.596	514.870b	ppb	2.3014	0.4	4991.83
Ti 334.941	-0.6442b	ppb	0.0310	4.8	-23.1988
Tl 190.794	22.1163b	ppb	4.5777	20.7	-10.3461
V 292.401	-1.3210b	ppb	0.1978	15.0	-19.1688
Zn 206.200	1.7129b	ppb	0.5638	32.9	6.1957

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680-89241-c-2-b (Samp) 4/18/2013, 3:04:26 AM Rack 3, Tube 36

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6666u	-0.8103u	-0.7942u
Al 308.215	16.2430	8.0668	11.4473
As 188.980	-2.1020u	-3.0365u	-1.6523
B 249.678	23.8045	22.7365	22.6643
Ba 389.178	33.1683	32.0228	34.3674
Be 313.042	-0.5222u	-0.5198u	-0.4809u
Ca 370.602	121189	121103	121095
Cd 226.502	-0.4481u	-0.5718u	-0.6026u
Co 228.615	-0.5388u	0.3108	-0.2765u
Cr 267.716	1.8238	2.5029	2.3116
Cu 324.754	-0.5450u	-0.4147u	-0.3076u
Fe 271.441	15.4335	17.8860	27.0376
K 766.491	8179.20	8205.77	8235.77
Mg 279.078	32334.9	32362.4	32435.7
Mn 257.610	13093.1	13118.6	13114.7
Mo 202.032	-0.1051u	-0.6158u	-0.3573u
Na 330.237	75946.6	76410.8	76491.4
Ni 231.604	1.8027	2.4370	3.1371
Pb 220.353	1.9736	1.1706	1.1128
Sb 206.834	-4.2982u	-3.5348u	-4.0344u
Se 196.026	2.7919	10.9276	-0.9396
Sn 189.925	-5.7353u	-2.6876u	-1.6381u
Sr 216.596	646.978	648.514	649.647
Ti 334.941	-0.7069u	-0.7158u	-0.5392u
Tl 190.794	18.6263u	20.3929	17.7374u
V 292.401	-1.5482u	-1.3881u	-0.9264u
Zn 206.200	2.0041	1.8384	1.5176

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7570	ppb	0.0787	10.4	-1.2383
Al 308.215	11.9190	ppb	4.1085	34.5	2.0436
As 188.980	-2.2636	ppb	0.7061	31.2	-9.9515
B 249.678	23.0684	ppb	0.6385	2.8	459.665
Ba 389.178	33.1862	ppb	1.1724	3.5	810.803
Be 313.042	-0.5076	ppb	0.0232	4.6	-244.465
Ca 370.602	121129	ppb	52.02	0.0	332150
Cd 226.502	-0.5408	ppb	0.0818	15.1	25.0105
Co 228.615	-0.1682	ppb	0.4350	258.7	-3.4973
Cr 267.716	2.2128	ppb	0.3502	15.8	114.845
Cu 324.754	-0.4224	ppb	0.1189	28.1	188.880
Fe 271.441	20.1190	ppb	6.1159	30.4	147.240
K 766.491	8206.91	ppb	28.3028	0.3	261011
Mg 279.078	32377.7	ppb	52.1316	0.2	64426.4
Mn 257.610	13108.8	ppb	13.7553	0.1	3036465
Mo 202.032	-0.3594	ppb	0.2553	71.0	18.9351
Na 330.237	76282.9	ppb	294.048	0.4	3382.16
Ni 231.604	2.4589	ppb	0.6674	27.1	1.7579
Pb 220.353	1.4190	ppb	0.4812	33.9	33.2473
Sb 206.834	-3.9558	ppb	0.3877	9.8	-6.8651
Se 196.026	4.2600	ppb	6.0683	142.4	15.3976
Sn 189.925	-3.3537	ppb	2.1282	63.5	-7.4827
Sr 216.596	648.380	ppb	1.3394	0.2	6277.93
Ti 334.941	-0.6540	ppb	0.0995	15.2	49.2157
Tl 190.794	18.9189	ppb	1.3517	7.1	-12.7097
V 292.401	-1.2876	ppb	0.3229	25.1	-17.8185
Zn 206.200	1.7867	ppb	0.2473	13.8	622897

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Cont Calib Verif (CCV) 4/18/2013, 3:10:03 AM Rack 3, Tube 37

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	489.640	488.949	492.498
Al 308.215	4878.33	4911.41	4887.82
As 188.980	477.142	487.938	497.230
B 249.678	512.996	518.149	524.748
Ba 389.178	5023.23	5048.17	5068.86
Be 313.042	515.530	517.586	520.050
Ca 370.602	4973	5069	5172
Cd 226.502	515.455	516.338	519.717
Co 228.615	519.046	520.249	524.160
Cr 267.716	5169.22	5199.42	5182.38
Cu 324.754	5193.44	5212.22	5220.89
Fe 271.441	4953.51	4975.84	4995.69
K 766.491	9757.55	9820.03	9895.20
Mg 279.078	5022.28	5080.38	5143.35
Mn 257.610	5229.66	5262.36	5292.46
Mo 202.032	489.453	491.642	493.412
Na 330.237	7594.28	7528.67	7816.72
Ni 231.604	2613.86	2623.84	2626.49
Pb 220.353	496.079	500.751	502.537
Sb 206.834	935.144	934.993	934.868
Se 196.026	5010.91	5015.14	5048.87
Sn 189.925	4963.48	4967.13	5040.55
Sr 216.596	2516.00	2528.65	2533.03
Ti 334.941	488.458	491.115	492.292
Tl 190.794	4988.53	5004.29	5023.65
V 292.401	4935.66	4955.68	4991.27
Zn 206.200	2599.76	2616.43	2629.61

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	490.362	ppb	1.8815	0.4	36906.8	98.07244
Al 308.215	4892.52	ppb	17.0346	0.3	10737.1	97.85037
As 188.980	487.437	ppb	10.0535	2.1	286.983	97.48737
B 249.678	518.631	ppb	5.8907	1.1	6186.75	20.74524Q
Ba 389.178	5046.75	ppb	22.8439	0.5	108316	100.93507
Be 313.042	517.722	ppb	2.2632	0.4	900694	103.54436
Ca 370.602	5071	ppb	99.53	2.0	13802	101.42328
Cd 226.502	517.170	ppb	2.2497	0.4	17589.5	103.43398
Co 228.615	521.152	ppb	2.6737	0.5	5196.62	104.23036
Cr 267.716	5183.67	ppb	15.1416	0.3	159861	103.67345
Cu 324.754	5208.85	ppb	14.0321	0.3	270959	104.17700
Fe 271.441	4975.01	ppb	21.1035	0.4	8365.62	99.50027
K 766.491	9824.26	ppb	68.9198	0.7	312356	98.24261
Mg 279.078	5082.00	ppb	60.5509	1.2	10092.4	101.64009
Mn 257.610	5261.50	ppb	31.4079	0.6	1218973	105.22992
Mo 202.032	491.502	ppb	1.9831	0.4	3500.68	98.30049
Na 330.237	7646.56	ppb	150.973	2.0	367.931	101.95413
Ni 231.604	2621.40	ppb	6.6614	0.3	6728.41	104.85585
Pb 220.353	499.789	ppb	3.3351	0.7	879.669	99.95777
Sb 206.834	935.002	ppb	0.1385	0.0	966.424	93.50016
Se 196.026	5024.97	ppb	20.8049	0.4	2337.22	100.49948
Sn 189.925	4990.39	ppb	43.4832	0.9	3623.73	99.80775
Sr 216.596	2525.89	ppb	8.8461	0.4	24219.2	101.03574
Ti 334.941	490.622	ppb	1.9641	0.4	125254	98.12431
Tl 190.794	5005.49	ppb	17.5879	0.4	4792.49	100.10977
V 292.401	4960.87	ppb	28.1635	0.6	130836	99.21736
Zn 206.200	2615.27	ppb	14.9621	0.6	3354.23	104.61069

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Cont Calib Blank (CCB) 4/18/2013, 3:15:40 AM Rack 3, Tube 38
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0959u	-0.0241u	-0.5127u
Al 308.215	-0.8954u	-0.3209u	3.7012
As 188.980	-1.9263u	0.1471	3.4224
B 249.678	6.9464	5.7107	5.6441
Ba 389.178	-1.5222u	0.5963	2.3034
Be 313.042	-0.4411u	-0.3714u	-0.1605u
Ca 370.602	5.701	15.25	49.82
Cd 226.502	-0.1524u	-0.3003u	-0.1603u
Co 228.615	0.1526	0.0975	-0.1936u
Cr 267.716	-0.2510u	0.6006	2.4082
Cu 324.754	0.2674	0.1788	1.7136
Fe 271.441	-14.6377u	-13.0531u	-14.2556u
K 766.491	-1.6251u	-0.0083u	6.7357
Mg 279.078	7.3485	13.6302	32.6095
Mn 257.610	0.5440	1.8012	6.4544
Mo 202.032	-0.0498u	-0.8023u	-0.2567u
Na 330.237	-6.8621u	202.128	232.993
Ni 231.604	-2.3438u	-1.1384u	0.6312
Pb 220.353	1.3016	4.3595	1.5534
Sb 206.834	5.0552	3.6408	4.4600
Se 196.026	1.9875	3.1564	6.5361
Sn 189.925	-5.5723u	-3.1842u	0.3478
Sr 216.596	-2.2872u	-1.3050u	-0.1867u
Ti 334.941	-0.4304u	-0.3228u	-0.1328u
Tl 190.794	5.4755	-0.2092u	5.8181
V 292.401	0.0499	0.8442	2.8669
Zn 206.200	-1.9346u	-2.0699u	0.0462

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.2109	ppb	0.2638	125.1	9.4096	-0.21094
Al 308.215	0.8283	ppb	2.5045	302.4	-22.3818	0.82831
As 188.980	0.5477	ppb	2.6968	492.3	-9.2658	0.54774
B 249.678	6.1004	ppb	0.7334	12.0	263.391	6.10041
Ba 389.178	0.4591	ppb	1.9165	417.4	31.1199	0.45915
Be 313.042	-0.3243	ppb	0.1461	45.0	47.1428	-0.32435
Ca 370.602	23.59	ppb	23.21	98.4	82.80	23.58836
Cd 226.502	-0.2043	ppb	0.0832	40.7	36.3430	-0.20435
Co 228.615	0.0188	ppb	0.1860	987.1	-1.6426	0.01884
Cr 267.716	0.9193	ppb	1.3579	147.7	37.6969	0.91928
Cu 324.754	0.7199	ppb	0.8617	119.7	248.235	0.71993
Fe 271.441	-13.9821	ppb	0.8269	5.9	91.4875	-13.98213
K 766.491	1.7008	ppb	4.4346	260.7	523.698	1.70078
Mg 279.078	17.8627	ppb	13.1516	73.6	70.2058	17.86271
Mn 257.610	2.9332	ppb	3.1136	106.1	1107.00	2.93319
Mo 202.032	-0.3696	ppb	0.3887	105.2	18.8596	-0.36962
Na 330.237	142.753	ppb	130.486	91.4	61.6906	142.75298
Ni 231.604	-0.9503	ppb	1.4964	157.5	-6.9991	-0.95034
Pb 220.353	2.4048	ppb	1.6975	70.6	32.0204	2.40484
Sb 206.834	4.3854	ppb	0.7102	16.2	1.3573	4.38536
Se 196.026	3.8933	ppb	2.3622	60.7	12.1915	3.89331
Sn 189.925	-2.8029	ppb	2.9784	106.3	-7.1494	-2.80289
Sr 216.596	-1.2596	ppb	1.0510	83.4	36.6507	-1.25964
Ti 334.941	-0.2954	ppb	0.1507	51.0	13.9222	-0.29535
Tl 190.794	3.6948	ppb	3.3853	91.6	-8.8511	3.69481
V 292.401	1.2537	ppb	1.4525	115.9	49.4622	1.25366
Zn 206.200	-1.3195	ppb	1.1846	89.8	2.2918	-1.31945

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

680-89241-c-3-b (Samp) 4/18/2013, 3:21:17 AM Rack 3, Tube 39

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8969u	-0.7422u	-0.6978u
Al 308.215	6.8511	9.0795	10.6832
As 188.980	-8.4208u	-0.3689	-4.4566u
B 249.678	15.4399	16.0737	15.8936
Ba 389.178	321.094	319.159	322.132
Be 313.042	-0.4829u	-0.4994u	-0.4936u
Ca 370.602	117323	117335	117418
Cd 226.502	-0.6949u	-0.5642u	-0.5988u
Co 228.615	-0.5839u	-0.8705u	-0.2155u
Cr 267.716	1.8009	1.7719	1.3817
Cu 324.754	-0.8468u	-0.9033u	-0.9203u
Fe 271.441	51.7986	56.8050	62.9326
K 766.491	10645.6	10660.1	10689.2
Mg 279.078	34207.2	34228.1	34237.0
Mn 257.610	13325.6	13331.1	13382.3
Mo 202.032	-0.7937u	-1.0454u	-0.2706u
Na 330.237	77294.6	77156.2	77449.7
Ni 231.604	3.1486	3.4921	1.0266
Pb 220.353	1.5791	2.2578	0.7529
Sb 206.834	2.5794	3.0977	-5.2739u
Se 196.026	-4.7352	1.2508	2.4733
Sn 189.925	-3.0300u	-8.8615u	-6.4732u
Sr 216.596	924.264	926.077	923.485
Ti 334.941	-0.4217	-0.3897	-0.4476
Tl 190.794	22.1607	21.4124	14.3405u
V 292.401	0.2852	0.0351	0.5868
Zn 206.200	3.7918	3.1193	3.2330

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7790	ppb	0.1046	13.4	-14.1596
Al 308.215	8.8713	ppb	1.9245	21.7	-4.6999
As 188.980	-4.4154	ppb	4.0261	91.2	-11.2935
B 249.678	15.8024	ppb	0.3266	2.1	375.571
Ba 389.178	320.795	ppb	1.5091	0.5	6985.04
Be 313.042	-0.4920	ppb	0.0084	1.7	-218.883
Ca 370.602	117359	ppb	51.90	0.0	321825
Cd 226.502	-0.6193	ppb	0.0677	10.9	22.4458
Co 228.615	-0.5566	ppb	0.3284	59.0	-7.3477
Cr 267.716	1.6515	ppb	0.2341	14.2	98.2026
Cu 324.754	-0.8901	ppb	0.0385	4.3	164.548
Fe 271.441	57.1788	ppb	5.5764	9.8	207.694
K 766.491	10665.0	ppb	22.2124	0.2	339046
Mg 279.078	34224.1	ppb	15.2990	0.0	68106.3
Mn 257.610	13346.3	ppb	31.2588	0.2	3091484
Mo 202.032	-0.7032	ppb	0.3952	56.2	16.4900
Na 330.237	77300.2	ppb	146.809	0.2	3426.51
Ni 231.604	2.5558	ppb	1.3354	52.2	2.0074
Pb 220.353	1.5299	ppb	0.7536	49.3	33.4900
Sb 206.834	0.1344	ppb	4.6909	3489.9	-2.8353
Se 196.026	-0.3370	ppb	3.8577	1144.6	13.3253
Sn 189.925	-6.1216	ppb	2.9316	47.9	-9.4965
Sr 216.596	924.609	ppb	1.3301	0.1	8926.68
Ti 334.941	-0.4197	ppb	0.0290	6.9	116.367
Tl 190.794	19.3045	ppb	4.3152	22.4	-12.6768
V 292.401	0.3024	ppb	0.2763	91.4	24.3613
Zn 206.200	3.3814	ppb	0.3599	10.6	48.3415

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89241-c-4-b (Samp) 4/18/2013, 3:26:54 AM Rack 3, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.1010u	-0.9241u	-0.7741u
Al 308.215	9.1570	9.4345	5.2865
As 188.980	-7.1445u	-4.9284u	4.2358
B 249.678	8.1779	7.5567	7.6838
Ba 389.178	80.4804	81.5238	79.8255
Be 313.042	-0.5269u	-0.5368u	-0.5329u
Ca 370.602	135052	135038	134860
Cd 226.502	-0.2235u	-0.4193u	-0.8107u
Co 228.615	0.2061	-0.2693u	-0.2846u
Cr 267.716	1.6504	1.7471	2.2167
Cu 324.754	-0.6954u	-0.6157u	-0.8128u
Fe 271.441	17.3382	18.5964	17.8360
K 766.491	9040.66	9070.73	9051.76
Mg 279.078	36246.3	36275.6	36173.6
Mn 257.610	15500.8	15475.5	15451.6
Mo 202.032	0.3414	1.0520	0.4993
Na 330.237	81569.3	81519.8	81260.6
Ni 231.604	4.2223	2.5227	2.2354
Pb 220.353	-3.3016u	0.6005	4.2473
Sb 206.834	-1.5352u	-0.4165u	-7.3867u
Se 196.026	-1.8655	-6.9311	1.7072
Sn 189.925	-1.1998u	-3.3015u	-4.8412u
Sr 216.596	774.981	775.089	772.183
Ti 334.941	-0.7291u	-0.7817u	-0.7405u
Tl 190.794	19.5328u	26.5358	28.2994
V 292.401	-1.7402u	-1.3304u	-1.8586u
Zn 206.200	-2.0600u	-1.3751u	-1.0075u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9331	ppb	0.1637	17.5	-9.5322
Al 308.215	7.9593	ppb	2.3189	29.1	-6.6235
As 188.980	-2.6123	ppb	6.0333	231.0	-10.0457
B 249.678	7.8061	ppb	0.3281	4.2	283.109
Ba 389.178	80.6099	ppb	0.8565	1.1	1837.31
Be 313.042	-0.5322	ppb	0.0050	0.9	-284.089
Ca 370.602	134983	ppb	106.9	0.1	370159
Cd 226.502	-0.4845	ppb	0.2990	61.7	26.9348
Co 228.615	-0.1159	ppb	0.2790	240.7	-3.0047
Cr 267.716	1.8714	ppb	0.3029	16.2	110.953
Cu 324.754	-0.7080	ppb	0.0992	14.0	174.067
Fe 271.441	17.9235	ppb	0.6336	3.5	143.602
K 766.491	9054.38	ppb	15.2078	0.2	287915
Mg 279.078	36231.8	ppb	52.5184	0.1	72079.1
Mn 257.610	15476.0	ppb	24.6318	0.2	3584692
Mo 202.032	0.6309	ppb	0.3731	59.1	25.9649
Na 330.237	81449.9	ppb	165.804	0.2	3607.52
Ni 231.604	2.9935	ppb	1.0738	35.9	3.1308
Pb 220.353	0.5154	ppb	3.7752	732.5	32.2316
Sb 206.834	-3.1128	ppb	3.7434	120.3	-6.0513
Se 196.026	-2.3631	ppb	4.3406	183.7	12.8810
Sn 189.925	-3.1142	ppb	1.8279	58.7	-7.3018
Sr 216.596	774.084	ppb	1.6475	0.2	7484.71
Ti 334.941	-0.7504	ppb	0.0277	3.7	39.8544
Tl 190.794	24.7893	ppb	4.6369	18.7	-10.4092
V 292.401	-1.6431	ppb	0.2772	16.9	-27.3703
Zn 206.200	-1.4808	ppb	0.5342	36.1	-2.0882

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

680-89241-c-5-b (Samp) 4/18/2013, 3:32:31 AM Rack 3, Tube 41

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.4764	-0.7965	-0.3657
Al 308.215	23.2141	16.4749	22.3130
As 188.980	-6.3411u	-3.8972u	-2.0463
B 249.678	15.3608	16.0653	14.7746
Ba 389.178	321.207	321.096	323.594
Be 313.042	-0.5638u	-0.5631u	-0.5606u
Ca 370.602	167617	167428	167291
Cd 226.502	-0.5541u	-0.5870u	-0.5911u
Co 228.615	1.1943	0.1360	0.2649
Cr 267.716	4.7954	4.5088	4.5497
Cu 324.754	-0.9519u	-0.9485u	-0.8708u
Fe 271.441	42.4723	43.6292	40.6842
K 766.491	13783.4	13812.3	13803.9
Mg 279.078	54510.2	54512.2	54430.5
Mn 257.610	25488.6	25608.4	25444.8
Mo 202.032	2.5475	2.7430	2.5186
Na 330.237	141128x	141191x	141156x
Ni 231.604	5.4010	6.0941	5.5379
Pb 220.353	1.7766	2.1203	2.7294
Sb 206.834	0.4941	0.2762	3.9029
Se 196.026	5.4781	-1.7378	2.0944
Sn 189.925	-2.1097u	-3.5367u	-6.6999u
Sr 216.596	1050.84	1046.80	1045.63
Ti 334.941	-0.8248	-0.8724u	-0.9128u
Tl 190.794	45.4509	45.2016	43.3584
V 292.401	-1.5545u	-1.2314u	-1.4890u
Zn 206.200	5.8551	4.8771	6.3354

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5462b	ppb	0.2237	41.0	53.0997
Al 308.215	20.6673b	ppb	3.6586	17.7	21.4510
As 188.980	-4.0948b	ppb	2.1542	52.6	-10.6754
B 249.678	15.4002b	ppb	0.6463	4.2	370.944
Ba 389.178	321.966b	ppb	1.4114	0.4	7058.65
Be 313.042	-0.5625b	ppb	0.0017	0.3	-335.990
Ca 370.602	167445b	ppb	164.1	0.1	459326
Cd 226.502	-0.5774b	ppb	0.0203	3.5	23.7581
Co 228.615	0.5317b	ppb	0.5774	108.6	3.3955
Cr 267.716	4.6180b	ppb	0.1550	3.4	224.190
Cu 324.754	-0.9237b	ppb	0.0459	5.0	162.912
Fe 271.441	42.2619b	ppb	1.4837	3.5	183.501
K 766.491	13799.9b	ppb	14.9056	0.1	438568
Mg 279.078	54484.3b	ppb	46.6166	0.1	108339
Mn 257.610	25513.9b	ppb	84.7078	0.3	5909477
Mo 202.032	2.6030b	ppb	0.1221	4.7	39.9613
Na 330.237	141158xb	ppb	31.6058	0.0	6211.38
Ni 231.604	5.6777b	ppb	0.3670	6.5	10.0255
Pb 220.353	2.2088b	ppb	0.4825	21.8	37.3405
Sb 206.834	1.5577b	ppb	2.0339	130.6	-1.4742
Se 196.026	1.9449b	ppb	3.6103	185.6	17.2001
Sn 189.925	-4.1154b	ppb	2.3492	57.1	-8.0006
Sr 216.596	1047.76b	ppb	2.7326	0.3	10112.2
Ti 334.941	-0.8700b	ppb	0.0441	5.1	79.6647
Tl 190.794	44.6703b	ppb	1.1429	2.6	-5.4620
V 292.401	-1.4250b	ppb	0.1708	12.0	-22.2230
Zn 206.200	5.6892b	ppb	0.7432	13.1	45.3079

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680-89241-c-6-b (Samp) 4/18/2013, 3:38:08 AM Rack 3, Tube 42

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8519	-0.2724	-0.2732
Al 308.215	36.8289	35.4572	35.5994
As 188.980	0.2311	-0.6831	-0.5177
B 249.678	2.5831	1.4335	2.9917
Ba 389.178	185.617	184.676	184.887
Be 313.042	-0.4753u	-0.4702u	-0.4587u
Ca 370.602	99164	99062	99077
Cd 226.502	-0.1610	-0.4224u	-0.4389u
Co 228.615	8.2973	8.0516	7.9434
Cr 267.716	8.0976	8.0396	7.9130
Cu 324.754	-0.4524u	-0.4768u	-0.4646u
Fe 271.441	4856.98	4836.17	4847.44
K 766.491	20380.8	20392.7	20445.4
Mg 279.078	20094.0	20025.3	20049.8
Mn 257.610	38054.3x	37864.1x	37966.6x
Mo 202.032	5.7442	5.3986	5.1760
Na 330.237	121156x	120760x	120663x
Ni 231.604	3.7436	6.0492	6.6767
Pb 220.353	-0.2768	-0.8522	0.9970
Sb 206.834	1.9125	-1.5955u	0.6910
Se 196.026	2.5210	7.3610	5.1499
Sn 189.925	-5.4745u	-5.4845u	-6.5937u
Sr 216.596	616.597	617.350	615.512
Ti 334.941	2.8610	2.7771	2.7519
Tl 190.794	63.9071	63.7145	67.7795
V 292.401	1.9916	2.5221	2.5823
Zn 206.200	-0.3909u	-0.1813u	-0.9549u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4658b	ppb	0.3344	71.8	136.622
Al 308.215	35.9618b	ppb	0.7543	2.1	55.2324
As 188.980	-0.3232b	ppb	0.4871	150.7	-9.0051
B 249.678	2.3361b	ppb	0.8080	34.6	214.291
Ba 389.178	185.060b	ppb	0.4938	0.3	4045.02
Be 313.042	-0.4680b	ppb	0.0085	1.8	-194.786
Ca 370.602	99101b	ppb	54.79	0.1	272071
Cd 226.502	-0.3408b	ppb	0.1559	45.7	42.0870
Co 228.615	8.0974b	ppb	0.1813	2.2	78.5975
Cr 267.716	8.0167b	ppb	0.0944	1.2	364.090
Cu 324.754	-0.4646b	ppb	0.0122	2.6	188.296
Fe 271.441	4846.86b	ppb	10.4157	0.2	8035.00
K 766.491	20406.3b	ppb	34.4004	0.2	648299
Mg 279.078	20056.4b	ppb	34.8105	0.2	39470.0
Mn 257.610	37961.7xb	ppb	95.1725	0.3	8792043
Mo 202.032	5.4396b	ppb	0.2863	5.3	59.8523
Na 330.237	120860xb	ppb	261.305	0.2	5324.95
Ni 231.604	5.4898b	ppb	1.5445	28.1	9.6404
Pb 220.353	-0.0440b	ppb	0.9463	2150.3	36.2540
Sb 206.834	0.3360b	ppb	1.7807	529.9	-2.5988
Se 196.026	5.0106b	ppb	2.4230	48.4	21.4982
Sn 189.925	-5.8509b	ppb	0.6433	11.0	-9.2940
Sr 216.596	616.486b	ppb	0.9239	0.1	5971.55
Ti 334.941	2.7967b	ppb	0.0571	2.0	875.744
Tl 190.794	65.1337b	ppb	2.2933	3.5	-3.5847
V 292.401	2.3653b	ppb	0.3250	13.7	77.2718
Zn 206.200	-0.5090b	ppb	0.4901	78.6	3.3348

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680-89241-c-7-b (Samp) 4/18/2013, 3:43:45 AM Rack 3, Tube 43

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7011u	-0.9280u	-0.9717u
Al 308.215	5.4857	14.3895	11.5322
As 188.980	-1.5571	-5.2274u	-4.0359u
B 249.678	9.7714	10.5724	10.5514
Ba 389.178	529.899	529.938	530.092
Be 313.042	-0.5438u	-0.5515u	-0.5542u
Ca 370.602	141600	141528	141719
Cd 226.502	-0.6541u	-0.4916u	-0.5983u
Co 228.615	-0.7361u	-0.4111u	-0.8884u
Cr 267.716	2.2619	2.1378	2.0567
Cu 324.754	-1.1645u	-1.1445u	-0.6174u
Fe 271.441	201.057	214.394	201.501
K 766.491	12893.5	12910.2	12959.6
Mg 279.078	42828.8	42801.8	42935.8
Mn 257.610	16749.9	16711.8	16723.3
Mo 202.032	-1.6211u	-0.8104u	-0.7782u
Na 330.237	90713.9	90653.9	90647.2
Ni 231.604	5.6087	5.0439	3.9312
Pb 220.353	3.0691	-0.0770	-0.1593
Sb 206.834	2.5797	6.2299	-1.9272u
Se 196.026	6.3268	4.5991	-3.7607
Sn 189.925	-4.1134u	-3.3071u	-2.8174u
Sr 216.596	949.325	948.234	950.325
Ti 334.941	-0.7469u	-0.7233u	-0.6505
Tl 190.794	22.7600u	21.2119u	26.6818
V 292.401	-0.9847u	-0.9966u	-0.8328u
Zn 206.200	-1.0261u	-2.3376u	-1.3975u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8670	ppb	0.1453	16.8	-6.7313
Al 308.215	10.4691	ppb	4.5461	43.4	-1.1788
As 188.980	-3.6068	ppb	1.8724	51.9	-10.5948
B 249.678	10.2984	ppb	0.4565	4.4	311.732
Ba 389.178	529.976	ppb	0.1017	0.0	11493.3
Be 313.042	-0.5498	ppb	0.0054	1.0	-314.124
Ca 370.602	141616	ppb	96.57	0.1	388345
Cd 226.502	-0.5814	ppb	0.0826	14.2	24.0955
Co 228.615	-0.6785	ppb	0.2438	35.9	-8.5654
Cr 267.716	2.1522	ppb	0.1034	4.8	123.215
Cu 324.754	-0.9755	ppb	0.3103	31.8	160.167
Fe 271.441	205.651	ppb	7.5757	3.7	450.197
K 766.491	12921.1	ppb	34.3738	0.3	410671
Mg 279.078	42855.5	ppb	70.8485	0.2	85273.8
Mn 257.610	16728.3	ppb	19.5236	0.1	3874763
Mo 202.032	-1.0699	ppb	0.4776	44.6	13.8827
Na 330.237	90671.7	ppb	36.7229	0.0	4009.64
Ni 231.604	4.8612	ppb	0.8535	17.6	7.9318
Pb 220.353	0.9443	ppb	1.8407	194.9	33.2425
Sb 206.834	2.2941	ppb	4.0861	178.1	-0.7041
Se 196.026	2.3884	ppb	5.3949	225.9	15.3701
Sn 189.925	-3.4126	ppb	0.6544	19.2	-7.5136
Sr 216.596	949.294	ppb	1.0459	0.1	9165.72
Ti 334.941	-0.7069	ppb	0.0503	7.1	77.3624
Tl 190.794	23.5512	ppb	2.8194	12.0	-13.3744
V 292.401	-0.9381	ppb	0.0913	9.7	-8.4304
Zn 206.200	-1.5871	ppb	0.6760	42.6	-1.9515

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680-89241-c-8-b (Samp) 4/18/2013, 3:49:33 AM Rack 3, Tube 44

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7338u	-0.6323u	-0.7124u
Al 308.215	7.3834	14.0003	13.7488
As 188.980	-2.5845u	6.5346	2.4646
B 249.678	11.7445	12.2620	13.0102
Ba 389.178	269.490	268.234	269.340
Be 313.042	-0.5555u	-0.5548u	-0.5496u
Ca 370.602	110040	109969	110047
Cd 226.502	-0.6173u	-0.5142u	-0.4835u
Co 228.615	-0.0516u	0.5706	-0.0620u
Cr 267.716	3.0041	2.7641	2.8416
Cu 324.754	-1.1805u	-0.9987u	-1.1991u
Fe 271.441	181.924	174.943	185.229
K 766.491	20604.4	20676.1	20728.8
Mg 279.078	31425.0	31351.3	31453.6
Mn 257.610	18997.1	18945.4	18999.1
Mo 202.032	0.3212	0.0270	-0.2534u
Na 330.237	72844.1	73264.8	73431.4
Ni 231.604	5.1184	4.5800	4.9261
Pb 220.353	0.7725	0.3942	3.7660
Sb 206.834	0.5119	-0.2970u	0.0756
Se 196.026	-8.3122	-2.0598	-7.2971
Sn 189.925	-0.9476u	-5.5443u	-3.5560u
Sr 216.596	1151.02	1148.74	1151.34
Ti 334.941	0.1651	0.1172	0.1144
Tl 190.794	27.8103u	30.2080	28.3948
V 292.401	-1.1088u	-1.4457u	-1.4538u
Zn 206.200	0.6263	1.9179	-1.2620u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6928	ppb	0.0535	7.7	7.9526
Al 308.215	11.7108	ppb	3.7498	32.0	1.6130
As 188.980	2.1383	ppb	4.5683	213.6	-7.3646
B 249.678	12.3389	ppb	0.6363	5.2	335.382
Ba 389.178	269.021	ppb	0.6858	0.3	5867.69
Be 313.042	-0.5533	ppb	0.0032	0.6	-329.277
Ca 370.602	110019	ppb	43.17	0.0	301845
Cd 226.502	-0.5383	ppb	0.0701	13.0	25.4523
Co 228.615	0.1523	ppb	0.3623	237.8	-0.3002
Cr 267.716	2.8699	ppb	0.1225	4.3	151.421
Cu 324.754	-1.1261	ppb	0.1107	9.8	152.365
Fe 271.441	180.699	ppb	5.2512	2.9	409.630
K 766.491	20669.8	ppb	62.4687	0.3	656664
Mg 279.078	31410.0	ppb	52.7605	0.2	62406.8
Mn 257.610	18980.5	ppb	30.4265	0.2	4396280
Mo 202.032	0.0316	ppb	0.2873	909.9	21.7025
Na 330.237	73180.1	ppb	302.662	0.4	3246.81
Ni 231.604	4.8748	ppb	0.2728	5.6	7.9663
Pb 220.353	1.6442	ppb	1.8472	112.3	34.9325
Sb 206.834	0.0969	ppb	0.4048	418.0	-2.8799
Se 196.026	-5.8897	ppb	3.3554	57.0	12.0606
Sn 189.925	-3.3493	ppb	2.3053	68.8	-7.4844
Sr 216.596	1150.37	ppb	1.4152	0.1	11091.1
Ti 334.941	0.1322	ppb	0.0285	21.5	245.778
Tl 190.794	28.8044	ppb	1.2502	4.3	-11.5007
V 292.401	-1.3361	ppb	0.1969	14.7	-19.1796
Zn 206.200	0.4274	ppb	1.5993	374.2	4.5416

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680-89241-c-9-b (Samp) 4/18/2013, 3:55:11 AM Rack 3, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9291u	-0.6781	-0.7661u
Al 308.215	14.3103	12.9473	8.8423
As 188.980	-3.5557u	2.2344	0.2833
B 249.678	10.8773	10.6348	10.3575
Ba 389.178	519.003	519.833	520.140
Be 313.042	-0.5577u	-0.5663u	-0.5552u
Ca 370.602	97700	97536	97625
Cd 226.502	-0.4414u	-0.1706u	-0.4437u
Co 228.615	-0.4730u	-0.4360u	-0.5113u
Cr 267.716	3.3030	3.1535	2.7078
Cu 324.754	-1.0178u	-1.0856u	-1.0473u
Fe 271.441	49.3562	47.7076	47.2804
K 766.491	11293.8	11295.5	11331.1
Mg 279.078	31483.3	31431.7	31431.9
Mn 257.610	20124.5	20128.0	20132.7
Mo 202.032	-0.7309u	-1.0305u	-1.0275u
Na 330.237	127675x	127620x	127688x
Ni 231.604	7.9051	4.2060	5.4716
Pb 220.353	3.6757	-0.8707	1.0448
Sb 206.834	-0.0198u	5.2593	3.8686
Se 196.026	8.3928	-0.3199	-5.0997
Sn 189.925	-1.9975u	-5.2486u	-3.2728u
Sr 216.596	777.330	775.806	776.095
Ti 334.941	-0.7028u	-0.6625u	-0.6864u
Tl 190.794	32.2694	33.9301	33.8183
V 292.401	-0.8876u	-1.1670u	-0.9377u
Zn 206.200	1.5155	-0.3433u	-1.4026u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7911b	ppb	0.1274	16.1	22.7085
Al 308.215	12.0333b	ppb	2.8462	23.7	2.2843
As 188.980	-0.3460b	ppb	2.9459	851.4	-8.9827
B 249.678	10.6232b	ppb	0.2601	2.4	315.667
Ba 389.178	519.659b	ppb	0.5883	0.1	11244.3
Be 313.042	-0.5597b	ppb	0.0059	1.0	-349.900
Ca 370.602	97620b	ppb	81.86	0.1	267918
Cd 226.502	-0.3519b	ppb	0.1570	44.6	31.2227
Co 228.615	-0.4734b	ppb	0.0377	8.0	-6.5315
Cr 267.716	3.0548b	ppb	0.3096	10.1	160.870
Cu 324.754	-1.0502b	ppb	0.0340	3.2	156.244
Fe 271.441	48.1148b	ppb	1.0962	2.3	192.808
K 766.491	11306.8b	ppb	21.0654	0.2	359422
Mg 279.078	31449.0b	ppb	29.7478	0.1	62467.1
Mn 257.610	20128.4b	ppb	4.1193	0.0	4662109
Mo 202.032	-0.9297b	ppb	0.1721	18.5	14.8858
Na 330.237	127661xb	ppb	35.8751	0.0	5622.79
Ni 231.604	5.8609b	ppb	1.8800	32.1	10.4962
Pb 220.353	1.2833b	ppb	2.2826	177.9	34.5739
Sb 206.834	3.0360b	ppb	2.7362	90.1	0.0202
Se 196.026	0.9910b	ppb	6.8411	690.3	15.5111
Sn 189.925	-3.5063b	ppb	1.6381	46.7	-7.5876
Sr 216.596	776.411b	ppb	0.8093	0.1	7503.57
Ti 334.941	-0.6839b	ppb	0.0202	3.0	34.1028
Tl 190.794	33.3392b	ppb	0.9282	2.8	-8.7559
V 292.401	-0.9974b	ppb	0.1490	14.9	-10.4912
Zn 206.200	-0.0768b	ppb	1.4772	376.8	457.8929

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680-89241-c-10-b (Samp) 4/18/2013, 4:00:48 AM Rack 3, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7111	-0.6277	-0.7835
Al 308.215	15.7770	19.0906	14.4308
As 188.980	1.5738	2.9880	3.4619
B 249.678	-7.9980u	-8.9363u	-7.4983u
Ba 389.178	217.890	217.675	217.482
Be 313.042	-0.5410u	-0.5264u	-0.5285u
Ca 370.602	67440	67170	66881
Cd 226.502	-0.4294u	-0.4524u	-0.6237u
Co 228.615	19.1803	18.9173	19.3443
Cr 267.716	3.7623	3.6958	4.0050
Cu 324.754	-0.9964u	-0.5942u	-0.6512u
Fe 271.441	1524.72	1515.58	1515.28
K 766.491	8592.42	8532.12	8527.35
Mg 279.078	14553.3	14501.7	14434.9
Mn 257.610	24956.9	24129.0	24751.5
Mo 202.032	-0.6265u	-0.1928u	-0.4166u
Na 330.237	110031x	109468x	108845x
Ni 231.604	1.6596	0.4108	-0.1496u
Pb 220.353	0.3841	4.8019	-2.1060
Sb 206.834	0.4493	-1.0633u	0.8882
Se 196.026	0.5998	-8.5575	-0.4976
Sn 189.925	-5.9393u	-6.0119u	-5.7231u
Sr 216.596	879.239	875.969	872.362
Ti 334.941	-0.6200u	-0.5880u	-0.5924u
Tl 190.794	38.5855	40.7643	44.5273
V 292.401	-2.2984u	-1.8375u	-2.0252u
Zn 206.200	-1.2445u	-1.0733u	-1.6000u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7074b	ppb	0.0780	11.0	45.6862
Al 308.215	16.4328b	ppb	2.3981	14.6	11.9834
As 188.980	2.6746b	ppb	0.9823	36.7	-7.4180
B 249.678	-8.1442b	ppb	0.7301	9.0	96.8586
Ba 389.178	217.682b	ppb	0.2042	0.1	4727.33
Be 313.042	-0.5320b	ppb	0.0079	1.5	-310.094
Ca 370.602	67163b	ppb	279.6	0.4	184491
Cd 226.502	-0.5018b	ppb	0.1062	21.2	29.2776
Co 228.615	19.1473b	ppb	0.2154	1.1	188.815
Cr 267.716	3.8210b	ppb	0.1628	4.3	197.004
Cu 324.754	-0.7473b	ppb	0.2177	29.1	172.461
Fe 271.441	1518.53b	ppb	5.3632	0.4	2598.36
K 766.491	8550.63b	ppb	36.2688	0.4	271923
Mg 279.078	14496.6b	ppb	59.3646	0.4	28580.8
Mn 257.610	24612.5b	ppb	431.115	1.8	5700478
Mo 202.032	-0.4120b	ppb	0.2169	52.6	18.4902
Na 330.237	109448xb	ppb	593.073	0.5	4828.15
Ni 231.604	0.6403b	ppb	0.9262	144.7	-2.8828
Pb 220.353	1.0267b	ppb	3.4985	340.8	35.1246
Sb 206.834	0.0914b	ppb	1.0238	1120.6	-2.8493
Se 196.026	-2.8185b	ppb	5.0004	177.4	14.7861
Sn 189.925	-5.8914b	ppb	0.1502	2.6	-9.3387
Sr 216.596	875.857b	ppb	3.4397	0.4	8455.05
Ti 334.941	-0.6001b	ppb	0.0173	2.9	-12.5537
Tl 190.794	41.2924b	ppb	3.0059	7.3	-7.5034
V 292.401	-2.0537b	ppb	0.2318	11.3	-38.5119
Zn 206.200	-1.3059b	ppb	0.2687	20.6	-2.3127

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89241-c-11-b (Samp) 4/18/2013, 4:06:36 AM Rack 3, Tube 47

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5144	-0.6292	-0.3899
Al 308.215	32.6011	28.7079	33.1013
As 188.980	-3.4485u	-2.3130u	-2.5509u
B 249.678	0.3887	0.6375	0.2961
Ba 389.178	178.826	178.448	179.850
Be 313.042	-0.4941u	-0.4862u	-0.4864u
Ca 370.602	97179	97344	97357
Cd 226.502	-0.2898u	-0.4519u	-0.3428u
Co 228.615	7.2094	8.0619	7.3527
Cr 267.716	8.2059	7.7865	7.5355
Cu 324.754	0.0342	-0.7607u	-0.4089u
Fe 271.441	2717.81	2713.27	2712.09
K 766.491	19910.2	19987.5	19921.6
Mg 279.078	19636.5	19682.1	19682.4
Mn 257.610	37236.9x	37403.9x	37256.1x
Mo 202.032	4.6704	4.9049	4.3991
Na 330.237	118173x	118012x	117946x
Ni 231.604	4.9564	3.0093	3.9965
Pb 220.353	1.8774	0.6003	1.3745
Sb 206.834	-2.5024u	-5.3523u	-2.1671u
Se 196.026	0.2372	-1.4543	-3.7345
Sn 189.925	-5.4919u	-3.5078u	-2.7217u
Sr 216.596	602.016	605.004	604.149
Ti 334.941	2.2468	2.2631	2.2452
Tl 190.794	58.4336	64.3769	60.2891
V 292.401	0.7455	1.0997	0.6359
Zn 206.200	0.4103	0.2940	-1.4931u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5112b	ppb	0.1197	23.4	130.771
Al 308.215	31.4701b	ppb	2.4052	7.6	45.3242
As 188.980	-2.7708b	ppb	0.5988	21.6	-10.4905
B 249.678	0.4407b	ppb	0.1766	40.1	194.820
Ba 389.178	179.041b	ppb	0.7252	0.4	3912.16
Be 313.042	-0.4889b	ppb	0.0045	0.9	-231.025
Ca 370.602	97293b	ppb	99.61	0.1	267251
Cd 226.502	-0.3615b	ppb	0.0827	22.9	36.6887
Co 228.615	7.5413b	ppb	0.4565	6.1	73.1267
Cr 267.716	7.8426b	ppb	0.3387	4.3	356.546
Cu 324.754	-0.3785b	ppb	0.3983	105.3	192.117
Fe 271.441	2714.39b	ppb	3.0181	0.1	4550.62
K 766.491	19939.8b	ppb	41.7190	0.2	633488
Mg 279.078	19667.0b	ppb	26.4160	0.1	38702.9
Mn 257.610	37299.0xb	ppb	91.3897	0.2	8638561
Mo 202.032	4.6582b	ppb	0.2531	5.4	54.4129
Na 330.237	118044xb	ppb	116.719	0.1	5202.68
Ni 231.604	3.9874b	ppb	0.9736	24.4	5.7382
Pb 220.353	1.2841b	ppb	0.6433	50.1	38.3725
Sb 206.834	-3.3406b	ppb	1.7502	52.4	-6.2573
Se 196.026	-1.6505b	ppb	1.9931	120.8	18.2647
Sn 189.925	-3.9072b	ppb	1.4276	36.5	-7.8821
Sr 216.596	603.723b	ppb	1.5385	0.3	5848.24
Ti 334.941	2.2517b	ppb	0.0099	0.4	735.080
Tl 190.794	61.0332b	ppb	3.0407	5.0	-6.4918
V 292.401	0.8270b	ppb	0.2424	29.3	36.7013
Zn 206.200	-0.2629b	ppb	1.0670	405.8	3.6512

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

640-43151-h-1-b (Samp) 4/18/2013, 4:12:14 AM Rack 3, Tube 48

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8226u	-1.0126u	-0.8672u
Al 308.215	7.8976	3.0118	4.8699
As 188.980	-3.2120	-9.9191u	-0.7846
B 249.678	344.072	345.428	346.554
Ba 389.178	977.846	976.731	979.574
Be 313.042	-0.5816u	-0.5823u	-0.5847u
Ca 370.602	266030	265532	265118
Cd 226.502	-0.2238u	-0.3424u	-0.2827u
Co 228.615	2.5783	2.5111	2.2607
Cr 267.716	0.2777	-0.3045	-0.0088
Cu 324.754	-0.0729u	-0.5091u	-0.6325u
Fe 271.441	193.573	192.735	189.937
K 766.491	86347.9x	86380.0x	86530.1x
Mg 279.078	105907	105918	105935
Mn 257.610	1468.08	1466.63	1471.49
Mo 202.032	13.2843	12.7507	12.3627
Na 330.237	825898x	822930x	820436x
Ni 231.604	47.2796	48.3250	48.0996
Pb 220.353	2.8449	4.7629	1.4386
Sb 206.834	0.1351u	-8.4215u	3.3935
Se 196.026	-12.9565u	0.7508	-9.7451u
Sn 189.925	-8.9861u	-1.6595u	-3.0197u
Sr 216.596	2957.30	2955.04	2953.79
Ti 334.941	-1.6997u	-1.6844u	-1.7122u
Tl 190.794	-2.7335u	-1.4987u	-3.7837u
V 292.401	-0.4109u	-0.9333u	-0.7203u
Zn 206.200	0.0463	-0.6608u	-0.0637u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9008b	ppb	0.0994	11.0	-170.949
Al 308.215	5.2598b	ppb	2.4661	46.9	-11.9458
As 188.980	-4.6386b	ppb	4.7314	102.0	-10.1900
B 249.678	345.351b	ppb	1.2426	0.4	4187.93
Ba 389.178	978.050b	ppb	1.4324	0.1	21257.2
Be 313.042	-0.5829b	ppb	0.0016	0.3	-408.308
Ca 370.602	265560b	ppb	456.6	0.2	727508
Cd 226.502	-0.2829b	ppb	0.0593	21.0	31.4394
Co 228.615	2.4500b	ppb	0.1674	6.8	22.2368
Cr 267.716	-0.0118b	ppb	0.2911	2457.4	21.8691
Cu 324.754	-0.4048b	ppb	0.2940	72.6	190.224
Fe 271.441	192.082b	ppb	1.9043	1.0	428.508
K 766.491	86419.3xb	ppb	97.2581	0.1	2743987
Mg 279.078	105920b	ppb	14.0342	0.0	211314
Mn 257.610	1468.73b	ppb	2.4979	0.2	341182
Mo 202.032	12.7992b	ppb	0.4627	3.6	112.323
Na 330.237	823088xb	ppb	2734.47	0.3	35950.6
Ni 231.604	47.9014b	ppb	0.5501	1.1	118.477
Pb 220.353	3.0155b	ppb	1.6687	55.3	33.3680
Sb 206.834	-1.6310b	ppb	6.1023	374.1	-4.7460
Se 196.026	-7.3169b	ppb	7.1690	98.0	7.3432
Sn 189.925	-4.5551b	ppb	3.8972	85.6	-8.0868
Sr 216.596	2955.38b	ppb	1.7765	0.1	28414.5
Ti 334.941	-1.6988b	ppb	0.0139	0.8	33.6660
Tl 190.794	-2.6720b	ppb	1.1437	42.8	-17.0563
V 292.401	-0.6881b	ppb	0.2627	38.2	-8.9629
Zn 206.200	-0.2261b	ppb	0.3895	168.3	3.6995

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

Cont Calib Verif (CCV) 4/18/2013, 4:17:51 AM Rack 3, Tube 49
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	496.151	492.848	495.238
Al 308.215	4877.19	4881.87	4867.49
As 188.980	495.437	498.253	488.966
B 249.678	519.403	523.538	526.658
Ba 389.178	5051.03	5062.72	5079.44
Be 313.042	520.133	521.316	522.939
Ca 370.602	5088	5137	5228
Cd 226.502	523.327	524.221	524.805
Co 228.615	523.856	523.823	528.033
Cr 267.716	5196.63	5206.66	5202.71
Cu 324.754	5192.42	5139.53	5200.58
Fe 271.441	5006.67	5018.76	5043.44
K 766.491	9824.10	9877.88	9892.74
Mg 279.078	5123.61	5163.80	5185.94
Mn 257.610	5295.07	5328.82	5324.17
Mo 202.032	495.113	496.343	498.385
Na 330.237	8068.77	7814.28	7887.88
Ni 231.604	2650.26	2651.51	2656.66
Pb 220.353	509.205	510.070	503.875
Sb 206.834	940.941	945.609	947.236
Se 196.026	5092.35	5115.36	5121.47
Sn 189.925	5058.23	5085.91	5018.89
Sr 216.596	2542.11	2544.71	2542.89
Ti 334.941	489.868	491.171	491.746
Tl 190.794	5066.23	5075.55	5083.56
V 292.401	4985.63	5008.45	5016.71
Zn 206.200	2655.79	2660.99	2665.30

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	494.746	ppb	1.7056	0.3	37235.9	98.94913
Al 308.215	4875.51	ppb	7.3345	0.2	10699.6	97.51028
As 188.980	494.219	ppb	4.7619	1.0	291.110	98.84371
B 249.678	523.199	ppb	3.6396	0.7	6239.56	20.92798Q
Ba 389.178	5064.39	ppb	14.2813	0.3	108694	101.28789
Be 313.042	521.463	ppb	1.4086	0.3	907198	104.29259
Ca 370.602	5151	ppb	70.86	1.4	14021	103.02590
Cd 226.502	524.117	ppb	0.7445	0.1	17825.2	104.82349
Co 228.615	525.238	ppb	2.4210	0.5	5237.31	105.04751
Cr 267.716	5202.00	ppb	5.0528	0.1	160426	104.03993
Cu 324.754	5177.51	ppb	33.1454	0.6	269330	103.55022
Fe 271.441	5022.96	ppb	18.7383	0.4	8444.98	100.45916
K 766.491	9864.91	ppb	36.1119	0.4	313647	98.64906
Mg 279.078	5157.78	ppb	31.5996	0.6	10242.7	103.15567
Mn 257.610	5316.02	ppb	18.2935	0.3	1231601	106.32039
Mo 202.032	496.614	ppb	1.6525	0.3	3536.88	99.32273
Na 330.237	7923.64	ppb	130.964	1.7	379.696	105.64857
Ni 231.604	2652.81	ppb	3.3909	0.1	6809.09	106.11245
Pb 220.353	507.717	ppb	3.3549	0.7	893.181	101.54336
Sb 206.834	944.595	ppb	3.2679	0.3	976.253	94.45952
Se 196.026	5109.72	ppb	15.3570	0.3	2376.45	102.19448
Sn 189.925	5054.34	ppb	33.6768	0.7	3670.24	101.08687
Sr 216.596	2543.24	ppb	1.3339	0.1	24384.8	101.72949
Ti 334.941	490.928	ppb	0.9625	0.2	125332	98.18565
Tl 190.794	5075.12	ppb	8.6733	0.2	4859.35	101.50235
V 292.401	5003.60	ppb	16.1022	0.3	131963	100.07192
Zn 206.200	2660.70	ppb	4.7612	0.2	3412.55	106.42784

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

Cont Calib Blank (CCB) 4/18/2013, 4:23:28 AM Rack 3, Tube 50
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8369u	-0.6054u	-0.4510u
Al 308.215	2.3139	0.8835	-2.1024u
As 188.980	1.4641	-0.2624u	-0.2714u
B 249.678	4.0721	1.8487	1.0616
Ba 389.178	0.7648	-0.0355u	-0.0610u
Be 313.042	-0.4489u	-0.4186u	-0.3637u
Ca 370.602	2.025	13.73	22.03
Cd 226.502	-0.4070u	-0.2425u	-0.2289u
Co 228.615	-0.5532u	-0.4756u	-0.1981u
Cr 267.716	0.2465	0.4265	0.4685
Cu 324.754	-0.4561u	0.5185	1.0600
Fe 271.441	-15.8188u	-18.0521u	-13.6027u
K 766.491	-2.3094u	0.5819	1.2357
Mg 279.078	1.5249	7.3261	9.2255
Mn 257.610	0.3108	1.1990	2.2540
Mo 202.032	-0.6592u	-0.4463u	0.0084
Na 330.237	41.8465	38.8335	99.1883
Ni 231.604	-0.7520u	1.6346	-0.9225u
Pb 220.353	-0.2358u	0.2330	0.8539
Sb 206.834	0.1903	1.7336	1.3471
Se 196.026	-1.6611u	5.5279	3.0521
Sn 189.925	-1.8156u	-1.1267u	-0.8701u
Sr 216.596	-2.2481u	-1.3636u	-1.2627u
Ti 334.941	-0.4112u	-0.3551u	-0.2895u
Tl 190.794	-0.1653u	0.5255	1.3067
V 292.401	0.1990	0.4851	0.7115
Zn 206.200	-1.5353u	-2.0991u	-2.1959u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.6311	ppb	0.1942	30.8	-22.2413	-0.63110
Al 308.215	0.3650	ppb	2.2534	617.4	-23.3953	0.36499
As 188.980	0.3101	ppb	0.9994	322.3	-9.4105	0.31012
B 249.678	2.3274	ppb	1.5613	67.1	219.747	2.32744
Ba 389.178	0.2228	ppb	0.4696	210.8	26.0153	0.22277
Be 313.042	-0.4104	ppb	0.0432	10.5	-102.532	-0.41044
Ca 370.602	12.60	ppb	10.05	79.8	52.84	12.59602
Cd 226.502	-0.2928	ppb	0.0992	33.9	33.3375	-0.29281
Co 228.615	-0.4089	ppb	0.1867	45.7	-5.9056	-0.40892
Cr 267.716	0.3805	ppb	0.1179	31.0	21.0797	0.38051
Cu 324.754	0.3741	ppb	0.7683	205.4	230.265	0.37410
Fe 271.441	-15.8245	ppb	2.2247	14.1	88.4638	-15.82454
K 766.491	-0.1639	ppb	1.8866	1150.9	464.500	-0.16393
Mg 279.078	6.0255	ppb	4.0116	66.6	46.6167	6.02550
Mn 257.610	1.2546	ppb	0.9728	77.5	718.178	1.25460
Mo 202.032	-0.3657	ppb	0.3410	93.3	18.8892	-0.36568
Na 330.237	59.9561	ppb	34.0095	56.7	58.0848	59.95607
Ni 231.604	-0.0133	ppb	1.4297	10745.2	-4.5925	-0.01331
Pb 220.353	0.2837	ppb	0.5466	192.7	28.4052	0.28369
Sb 206.834	1.0904	ppb	0.8031	73.7	-1.8951	1.09035
Se 196.026	2.3063	ppb	3.6521	158.3	11.4566	2.30632
Sn 189.925	-1.2708	ppb	0.4889	38.5	-6.0354	-1.27079
Sr 216.596	-1.6248	ppb	0.5421	33.4	33.1340	-1.62480
Ti 334.941	-0.3519	ppb	0.0609	17.3	-0.5523	-0.35194
Tl 190.794	0.5556	ppb	0.7365	132.5	-11.8657	0.55562
V 292.401	0.4652	ppb	0.2568	55.2	28.6522	0.46520
Zn 206.200	-1.9434	ppb	0.3567	18.4	-17.4914	-1.94344

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

mb 680-273045/1-a (Samp) **4/18/2013, 4:29:05 AM** **Rack 3, Tube 51**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.7036u	-0.5680u	-0.6908u
Al 308.215	7.6384	5.6637	11.4847
As 188.980	-2.0215u	-2.9910u	-7.1994u
B 249.678	-4.6536u	-4.2676u	-4.6279u
Ba 389.178	-2.7001u	-1.6923u	-2.6191u
Be 313.042	-0.5482u	-0.5522u	-0.5520u
Ca 370.602	14.51	19.08	12.60
Cd 226.502	-0.3036u	-0.4682u	-0.4982u
Co 228.615	-0.1122u	-0.9211u	-0.2247u
Cr 267.716	-0.8586u	-0.8021u	-0.9487u
Cu 324.754	-0.6782u	-0.9188u	-0.6281u
Fe 271.441	14.9681	8.4044	16.5841
K 766.491	0.3143	0.4721	0.5758
Mg 279.078	10.2198	8.0304	11.2779
Mn 257.610	-1.0981u	-1.1193u	-1.0614u
Mo 202.032	-0.7468u	-0.1856u	-0.8605u
Na 330.237	129.825	171.535	115.166
Ni 231.604	0.7710	-0.0586u	-1.1462u
Pb 220.353	2.4374	4.1985	1.8789
Sb 206.834	1.9520	0.5747	1.0314
Se 196.026	-5.4296u	1.5721	-2.5892u
Sn 189.925	7.3334	9.5709	10.1910
Sr 216.596	-2.1952u	-2.4130u	-2.7137u
Ti 334.941	-0.2895u	-0.2258u	-0.2438u
Tl 190.794	-0.6417u	-5.4958u	-4.6770u
V 292.401	-1.0643u	-1.1219u	-1.1184u
Zn 206.200	-0.7857u	-1.8152u	-0.8466u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6542	ppb	0.0749	11.4	-23.9533
Al 308.215	8.2622	ppb	2.9602	35.8	-6.0166
As 188.980	-4.0706	ppb	2.7526	67.6	-12.0774
B 249.678	-4.5164	ppb	0.2158	4.8	140.544
Ba 389.178	-2.3372	ppb	0.5599	24.0	-28.8593
Be 313.042	-0.5508	ppb	0.0023	0.4	-346.529
Ca 370.602	15.40	ppb	3.328	21.6	58.56
Cd 226.502	-0.4233	ppb	0.1048	24.8	28.9718
Co 228.615	-0.4194	ppb	0.4382	104.5	-6.0080
Cr 267.716	-0.8698	ppb	0.0739	8.5	-17.4722
Cu 324.754	-0.7417	ppb	0.1554	21.0	172.275
Fe 271.441	13.3189	ppb	4.3321	32.5	136.042
K 766.491	0.4541	ppb	0.1317	29.0	484.120
Mg 279.078	9.8427	ppb	1.6562	16.8	54.2692
Mn 257.610	-1.0929	ppb	0.0293	2.7	174.622
Mo 202.032	-0.5976	ppb	0.3614	60.5	17.2445
Na 330.237	138.842	ppb	29.2463	21.1	61.5125
Ni 231.604	-0.1446	ppb	0.9615	665.0	-4.9291
Pb 220.353	2.8383	ppb	1.2107	42.7	32.7585
Sb 206.834	1.1860	ppb	0.7016	59.2	-1.8036
Se 196.026	-2.1489	ppb	3.5215	163.9	9.3941
Sn 189.925	9.0318	ppb	1.5031	16.6	1.4563
Sr 216.596	-2.4406	ppb	0.2604	10.7	25.3388
Ti 334.941	-0.2531	ppb	0.0328	13.0	24.6860
Tl 190.794	-3.6048	ppb	2.5986	72.1	-15.8625
V 292.401	-1.1015	ppb	0.0323	2.9	-12.6682
Zn 206.200	-1.1492	ppb	0.5776	50.3	-2.5152

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

Ics 680-273045/2-a (Samp) 4/18/2013, 4:34:42 AM Rack 3, Tube 52

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	9.1854	9.2742	9.4947
Al 308.215	5171.95	5180.33	5227.87
As 188.980	105.578	104.478	108.829
B 249.678	191.622	191.746	193.913
Ba 389.178	102.538	101.818	103.060
Be 313.042	53.3115	53.3232	53.6393
Ca 370.602	4979	4982	5013
Cd 226.502	53.4825	53.7232	54.4631
Co 228.615	54.0727	53.2801	53.1419
Cr 267.716	107.573	107.809	108.945
Cu 324.754	105.544	106.865	107.839
Fe 271.441	5102.37	5114.38	5145.38
K 766.491	4811.06	4810.87	4850.74
Mg 279.078	5121.42	5118.31	5152.06
Mn 257.610	555.573	555.209	557.870
Mo 202.032	100.684	101.388	100.981
Na 330.237	5276.52	5348.45	5334.69
Ni 231.604	105.318	103.852	106.173
Pb 220.353	55.2525	54.0013	55.2110
Sb 206.834	46.5232	49.9602	46.8149
Se 196.026	95.2751	98.2357	88.2916
Sn 189.925	216.530	211.214	208.806
Sr 216.596	101.934	102.442	101.606
Ti 334.941	99.4870	99.5910	100.213
Tl 190.794	39.0677	37.3883	39.0799
V 292.401	101.812	101.787	102.795
Zn 206.200	107.637	107.289	109.343

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.3181	ppb	0.1593	1.7	725.701
Al 308.215	5193.38	ppb	30.1546	0.6	11412.9
As 188.980	106.295	ppb	2.2622	2.1	55.0700
B 249.678	192.427	ppb	1.2885	0.7	2413.01
Ba 389.178	102.472	ppb	0.6234	0.6	2239.15
Be 313.042	53.4247	ppb	0.1860	0.3	93500.1
Ca 370.602	4991	ppb	18.50	0.4	13364
Cd 226.502	53.8896	ppb	0.5110	0.9	1881.77
Co 228.615	53.4983	ppb	0.5023	0.9	530.344
Cr 267.716	108.109	ppb	0.7333	0.7	3345.11
Cu 324.754	106.749	ppb	1.1521	1.1	5763.60
Fe 271.441	5120.71	ppb	22.1943	0.4	8490.24
K 766.491	4824.22	ppb	22.9689	0.5	153622
Mg 279.078	5130.60	ppb	18.6506	0.4	10260.8
Mn 257.610	556.218	ppb	1.4429	0.3	129285
Mo 202.032	101.018	ppb	0.3535	0.3	738.050
Na 330.237	5319.89	ppb	38.1778	0.7	284.817
Ni 231.604	105.114	ppb	1.1736	1.1	265.526
Pb 220.353	54.8216	ppb	0.7107	1.3	121.227
Sb 206.834	47.7661	ppb	1.9057	4.0	44.3317
Se 196.026	93.9341	ppb	5.1059	5.4	53.9870
Sn 189.925	212.184	ppb	3.9522	1.9	149.184
Sr 216.596	101.994	ppb	0.4211	0.4	1024.36
Ti 334.941	99.7638	ppb	0.3927	0.4	25557.4
Tl 190.794	38.5120	ppb	0.9731	2.5	23.6082
V 292.401	102.131	ppb	0.5751	0.6	2694.00
Zn 206.200	108.090	ppb	1.0992	1.0	142.729

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

ics 680-273045/3-a (Samp) 4/18/2013, 4:40:19 AM Rack 3, Tube 53
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	201.842	206.048	203.356
Al 308.215	2223.09	2243.39	2242.68
As 188.980	221.002	219.936	218.840
B 249.678	391.903	394.467	395.215
Ba 389.178	199.407	199.666	199.940
Be 313.042	211.611	212.108	212.206
Ca 370.602	19896	19934	19966
Cd 226.502	209.873	210.073	210.481
Co 228.615	209.924	209.516	208.996
Cr 267.716	212.625	213.334	212.480
Cu 324.754	213.759	216.031	213.932
Fe 271.441	20939.4	20965.1	20962.7
K 766.491	19406.6	19438.1	19423.6
Mg 279.078	20411.1	20412.6	20410.0
Mn 257.610	2195.95	2196.98	2196.54
Mo 202.032	202.612	202.835	203.395
Na 330.237	18135.0	18341.9	18120.7
Ni 231.604	211.601	211.109	209.569
Pb 220.353	201.742	205.084	201.633
Sb 206.834	187.682	200.847	198.861
Se 196.026	198.674	202.232	189.541
Sn 189.925	213.282	211.310	212.699
Sr 216.596	214.790	215.765	217.255
Ti 334.941	198.689	199.511	199.498
Tl 190.794	43.7350	41.6462	39.5100
V 292.401	204.819	204.970	205.913
Zn 206.200	202.381	202.346	200.497

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	203.749	ppb	2.1303	1.0	15375.3
Al 308.215	2236.39	ppb	11.5189	0.5	4907.76
As 188.980	219.926	ppb	1.0810	0.5	124.182
B 249.678	393.861	ppb	1.7370	0.4	4725.13
Ba 389.178	199.671	ppb	0.2665	0.1	4382.30
Be 313.042	211.975	ppb	0.3189	0.2	369203
Ca 370.602	19932	ppb	35.08	0.2	53245
Cd 226.502	210.142	ppb	0.3100	0.1	7214.59
Co 228.615	209.479	ppb	0.4653	0.2	2082.90
Cr 267.716	212.813	ppb	0.4574	0.2	6579.89
Cu 324.754	214.574	ppb	1.2645	0.6	11375.6
Fe 271.441	20955.7	ppb	14.2013	0.1	34387.9
K 766.491	19422.8	ppb	15.7364	0.1	617076
Mg 279.078	20411.2	ppb	1.2860	0.0	40723.0
Mn 257.610	2196.49	ppb	0.5208	0.0	509285
Mo 202.032	202.947	ppb	0.4038	0.2	1460.56
Na 330.237	18199.2	ppb	123.810	0.7	841.231
Ni 231.604	210.760	ppb	1.0597	0.5	537.187
Pb 220.353	202.820	ppb	1.9619	1.0	373.579
Sb 206.834	195.797	ppb	7.0972	3.6	191.298
Se 196.026	196.816	ppb	6.5467	3.3	101.967
Sn 189.925	212.430	ppb	1.0132	0.5	149.373
Sr 216.596	215.937	ppb	1.2415	0.6	2119.36
Ti 334.941	199.233	ppb	0.4710	0.2	50991.9
Tl 190.794	41.6304	ppb	2.1126	5.1	23.6016
V 292.401	205.234	ppb	0.5929	0.3	5397.43
Zn 206.200	201.741	ppb	1.0780	0.5	262.905

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89260-b-1-b (Samp) **4/18/2013, 4:45:56 AM** **Rack 3, Tube 54****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-2.1954u	-2.4980u	-2.0725u
Al 308.215	129400	128974	129830
As 188.980	110.762	99.4140	101.891
B 249.678	-5.4189u	-5.9559u	-7.3728u
Ba 389.178	649.259	643.320	645.781
Be 313.042	7.1980	7.1974	7.3269
Ca 370.602	965.3u	999.5u	991.3u
Cd 226.502	3.1469	3.2171	3.3895
Co 228.615	83.1076	82.9441	83.3492
Cr 267.716	251.253	251.849	252.456
Cu 324.754	208.862	207.319	206.727
Fe 271.441	318253	315351	316459
K 766.491	14474.6	14313.0	14383.1
Mg 279.078	19964.2	19807.0	19858.5
Mn 257.610	3029.48	3001.25	3011.46
Mo 202.032	8.2051	7.9745	8.2263
Na 330.237	722.167u	524.045u	575.061u
Ni 231.604	151.705	150.713	151.228
Pb 220.353	160.993	158.643	159.868
Sb 206.834	-3.7095	6.9204	3.5522
Se 196.026	-10.3242u	-16.8488u	-5.9558u
Sn 189.925	15.5567	20.2953	16.1979
Sr 216.596	94.8013	92.9537	94.3961
Ti 334.941	2117.50	2103.70	2112.08
Tl 190.794	2.6275u	5.3582u	4.4176u
V 292.401	343.197	339.390	341.257
Zn 206.200	470.750	469.197	474.210

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.2553	ppb	0.2190	9.7	-133.848
Al 308.215	129401	ppb	427.778	0.3	284839
As 188.980	104.022	ppb	5.9670	5.7	50.5415
B 249.678	-6.2492	ppb	1.0095	16.2	-243.204
Ba 389.178	646.120	ppb	2.9840	0.5	14344.3
Be 313.042	7.2408	ppb	0.0746	1.0	13193.2
Ca 370.602	985.4	ppb	17.83	1.8	-18949
Cd 226.502	3.2511	ppb	0.1248	3.8	850.426
Co 228.615	83.1336	ppb	0.2038	0.2	864.883
Cr 267.716	251.853	ppb	0.6015	0.2	7834.21
Cu 324.754	207.636	ppb	1.1018	0.5	11098.6
Fe 271.441	316688	ppb	1464.39	0.5	517575
K 766.491	14390.2	ppb	81.0260	0.6	457310
Mg 279.078	19876.6	ppb	80.1451	0.4	39660.5
Mn 257.610	3014.06	ppb	14.2961	0.5	699430
Mo 202.032	8.1353	ppb	0.1397	1.7	63.1279
Na 330.237	607.091	ppb	102.871	16.9	-15.1465
Ni 231.604	151.215	ppb	0.4966	0.3	390.268
Pb 220.353	159.835	ppb	1.1754	0.7	298.933
Sb 206.834	2.2544	ppb	5.4325	241.0	8.7319
Se 196.026	-11.0429	ppb	5.4819	49.6	5.6889
Sn 189.925	17.3499	ppb	2.5708	14.8	7.4978
Sr 216.596	94.0504	ppb	0.9711	1.0	1062.95
Ti 334.941	2111.09	ppb	6.9514	0.3	538688
Tl 190.794	4.1344	ppb	1.3872	33.6	-28.0314
V 292.401	341.281	ppb	1.9038	0.6	9058.57
Zn 206.200	471.385	ppb	2.5661	0.5	609.583

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89260-b-2-b (Samp) 4/18/2013, 4:51:33 AM Rack 3, Tube 55

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.9695u	-2.3360u	-2.6440u
Al 308.215	59007.8	59383.4	59260.9
As 188.980	41.7610	36.6731	41.3534
B 249.678	14.1135	14.8072	14.1229
Ba 389.178	601.910	601.467	598.957
Be 313.042	3.9846	3.9822	4.0221
Ca 370.602	8221	8232	8218
Cd 226.502	2.5546	2.8013	2.5544
Co 228.615	84.4884	83.7146	85.4634
Cr 267.716	75.5516	76.6346	75.6949
Cu 324.754	105.995	107.832	106.550
Fe 271.441	80181.0	80156.6	80060.3
K 766.491	3597.89	3594.91	3597.57
Mg 279.078	5672.12	5674.88	5668.91
Mn 257.610	9449.95	9441.37	9382.53
Mo 202.032	5.0460	4.7497	5.2219
Na 330.237	-12.8342u	239.477u	382.274u
Ni 231.604	57.8890	57.6425	58.2001
Pb 220.353	158.421	160.277	158.948
Sb 206.834	1.6331	0.2250	-2.4055
Se 196.026	7.2712	-4.8072u	-1.0659
Sn 189.925	11.1538	12.9009	8.0245
Sr 216.596	55.4894	55.4791	55.2250
Ti 334.941	597.002	598.863	597.994
Tl 190.794	13.3738u	13.7636u	9.2733u
V 292.401	122.618	122.292	122.403
Zn 206.200	241.432	241.444	239.129

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.3165	ppb	0.3377	14.6	-107.783
Al 308.215	59217.4	ppb	191.574	0.3	130337
As 188.980	39.9292	ppb	2.8272	7.1	13.9702
B 249.678	14.3479	ppb	0.3978	2.8	266.775
Ba 389.178	600.778	ppb	1.5926	0.3	13027.6
Be 313.042	3.9963	ppb	0.0224	0.6	7559.24
Ca 370.602	8223	ppb	7.511	0.1	17283
Cd 226.502	2.6368	ppb	0.1425	5.4	309.008
Co 228.615	84.5554	ppb	0.8764	1.0	851.449
Cr 267.716	75.9604	ppb	0.5883	0.8	2390.65
Cu 324.754	106.793	ppb	0.9422	0.9	5785.89
Fe 271.441	80132.6	ppb	63.8053	0.1	131059
K 766.491	3596.79	ppb	1.6372	0.0	114655
Mg 279.078	5671.97	ppb	2.9872	0.1	11204.4
Mn 257.610	9424.62	ppb	36.6971	0.4	2183312
Mo 202.032	5.0059	ppb	0.2386	4.8	52.8760
Na 330.237	202.972	ppb	200.067	98.6	38.5546
Ni 231.604	57.9105	ppb	0.2794	0.5	145.820
Pb 220.353	159.215	ppb	0.9565	0.6	300.590
Sb 206.834	-0.1824	ppb	2.0499	1123.6	-0.6594
Se 196.026	0.4660	ppb	6.1833	1326.8	12.7146
Sn 189.925	10.6931	ppb	2.4706	23.1	2.6656
Sr 216.596	55.3978	ppb	0.1497	0.3	608.763
Ti 334.941	597.953	ppb	0.9311	0.2	152644
Tl 190.794	12.1369	ppb	2.4876	20.5	-17.8591
V 292.401	122.438	ppb	0.1656	0.1	3258.34
Zn 206.200	240.668	ppb	1.3332	0.6	213.316

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89260-b-3-b (Samp) 4/18/2013, 4:57:11 AM Rack 3, Tube 56

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.5589u	-3.2188u	-2.3097u
Al 308.215	93203.7	92996.8	93803.4
As 188.980	155.785	161.344	162.197
B 249.678	-1.2994u	-2.2422u	-2.6841u
Ba 389.178	691.799	690.428	692.118
Be 313.042	8.2577	8.2028	8.2297
Ca 370.602	7795u	7788u	7765u
Cd 226.502	3.7257	3.8411	3.7793
Co 228.615	124.665	124.537	124.494
Cr 267.716	213.219	213.298	214.853
Cu 324.754	111.143	111.740	109.423
Fe 271.441	320248	318397	320060
K 766.491	16612.6	16479.1	16527.7
Mg 279.078	19355.4	19308.5	19330.1
Mn 257.610	6482.46	6442.28	6462.17
Mo 202.032	11.4382	11.7891	11.5301
Na 330.237	763.438u	755.498u	654.851u
Ni 231.604	198.676	199.770	198.993
Pb 220.353	173.301	173.861	174.215
Sb 206.834	-5.4437	-2.5849	2.8034
Se 196.026	-3.6954u	3.5821	-1.8879
Sn 189.925	15.0390	18.2062	12.7085
Sr 216.596	117.435	118.606	118.017
Ti 334.941	2173.75	2165.93	2178.34
Tl 190.794	1.9086u	10.3099u	9.2414u
V 292.401	361.476	359.131	360.700
Zn 206.200	495.591	497.228	493.979

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.6958	ppb	0.4698	17.4	-152.361
Al 308.215	93334.6	ppb	418.950	0.4	205441
As 188.980	159.775	ppb	3.4816	2.2	84.5063
B 249.678	-2.0752	ppb	0.7073	34.1	-198.493
Ba 389.178	691.448	ppb	0.8981	0.1	15319.6
Be 313.042	8.2301	ppb	0.0275	0.3	14910.8
Ca 370.602	7783	ppb	15.66	0.2	-451.2
Cd 226.502	3.7820	ppb	0.0577	1.5	875.275
Co 228.615	124.566	ppb	0.0891	0.1	1278.71
Cr 267.716	213.790	ppb	0.9216	0.4	6670.11
Cu 324.754	110.769	ppb	1.2028	1.1	6063.75
Fe 271.441	319568	ppb	1018.75	0.3	522288
K 766.491	16539.8	ppb	67.5623	0.4	525550
Mg 279.078	19331.3	ppb	23.4460	0.1	38530.2
Mn 257.610	6462.30	ppb	20.0899	0.3	1498008
Mo 202.032	11.5858	ppb	0.1819	1.6	87.4310
Na 330.237	724.596	ppb	60.5311	8.4	-11.4041
Ni 231.604	199.146	ppb	0.5633	0.3	513.427
Pb 220.353	173.792	ppb	0.4609	0.3	323.649
Sb 206.834	-1.7417	ppb	4.1877	240.4	4.4711
Se 196.026	-0.6671	ppb	3.7892	568.0	11.2866
Sn 189.925	15.3179	ppb	2.7595	18.0	6.0227
Sr 216.596	118.020	ppb	0.5855	0.5	1293.74
Ti 334.941	2172.68	ppb	6.2738	0.3	554393
Tl 190.794	7.1533	ppb	4.5734	63.9	-30.1156
V 292.401	360.436	ppb	1.1946	0.3	9568.04
Zn 206.200	495.599	ppb	1.6246	0.3	640.818

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89275-a-26-a (Samp) 4/18/2013, 5:02:48 AM Rack 3, Tube 57

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	3.8331	2.5349	3.6114
Al 308.215	146083	146664	147548
As 188.980	485.534	501.352	499.572
B 249.678	60.6387u	58.7708u	58.9050u
Ba 389.178	4754.70	4755.25	4744.37
Be 313.042	21.1780	21.1659	21.1811
Ca 370.602	120923	120941	121174
Cd 226.502	34.2379	34.0263	33.0845
Co 228.615	162.360	165.787	163.723
Cr 267.716	816.128	818.778	825.146
Cu 324.754	834.214	837.586	838.501
Fe 271.441	738387	738186	737542
K 766.491	13509.9	13475.0	13448.5
Mg 279.078	32813.1	32825.7	32852.8
Mn 257.610	17505.0	17512.1	17479.3
Mo 202.032	34.2335	32.5148	32.8460
Na 330.237	46.3843u	-108.803u	-60.9805u
Ni 231.604	184.147	184.263	184.463
Pb 220.353	3713.23	3727.51	3722.42
Sb 206.834	23.4379	26.2419	20.9222
Se 196.026	-7.6579u	20.1817	14.6497
Sn 189.925	200.517	197.761	211.115
Sr 216.596	1231.68	1239.28	1240.24
Ti 334.941	2140.33	2143.21	2150.62
Tl 190.794	17.6176u	21.5413u	24.0555u
V 292.401	1045.90	1046.53	1044.93
Zn 206.200	9204.42	9221.11	9219.35

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	3.3265	ppb	0.6944	20.9	304.108
Al 308.215	146765	ppb	737.287	0.5	323059
As 188.980	495.486	ppb	8.6643	1.7	285.593
B 249.678	59.4381	ppb	1.0418	1.8	32.1548
Ba 389.178	4751.44	ppb	6.1314	0.1	102996
Be 313.042	21.1750	ppb	0.0080	0.0	37424.4
Ca 370.602	121013	ppb	139.8	0.1	280801
Cd 226.502	33.7829	ppb	0.6140	1.8	2813.85
Co 228.615	163.957	ppb	1.7251	1.1	1659.15
Cr 267.716	820.017	ppb	4.6348	0.6	25456.4
Cu 324.754	836.767	ppb	2.2580	0.3	43926.9
Fe 271.441	738038	ppb	441.381	0.1	1206047
K 766.491	13477.8	ppb	30.8250	0.2	428344
Mg 279.078	32830.5	ppb	20.2537	0.1	65350.2
Mn 257.610	17498.8	ppb	17.2613	0.1	4055155
Mo 202.032	33.1981	ppb	0.9118	2.7	219.115
Na 330.237	-41.1329	ppb	79.4745	193.2	-205.669
Ni 231.604	184.291	ppb	0.1596	0.1	483.757
Pb 220.353	3721.05	ppb	7.2338	0.2	6370.90
Sb 206.834	23.5340	ppb	2.6611	11.3	44.4548
Se 196.026	9.0578	ppb	14.7382	162.7	17.9585
Sn 189.925	203.131	ppb	7.0505	3.5	142.626
Sr 216.596	1237.07	ppb	4.6927	0.4	12187.2
Ti 334.941	2144.72	ppb	5.3097	0.2	547363
Tl 190.794	21.0715	ppb	3.2446	15.4	-52.5105
V 292.401	1045.79	ppb	0.8051	0.1	27655.0
Zn 206.200	9214.96	ppb	9.1695	0.1	41853.0

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

680-89275-a-27-a (Samp) **4/18/2013, 5:08:25 AM** **Rack 3, Tube 58****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	2.9460	3.0311	2.8616
Al 308.215	102397	102006	102460
As 188.980	249.597	257.907	265.440
B 249.678	86.8907	88.0765	87.7100
Ba 389.178	5417.31	5420.77	5414.45
Be 313.042	10.6573	10.6594	10.6809
Ca 370.602	144248	144162	144234
Cd 226.502	39.2939	39.5905	39.2311
Co 228.615	158.009	159.303	157.501
Cr 267.716	525.838	525.313	525.706
Cu 324.754	1464.81	1453.90	1452.07
Fe 271.441	292148	292844	292462
K 766.491	9756.34	9722.37	9724.57
Mg 279.078	20282.8	20291.0	20354.3
Mn 257.610	11070.4	11091.5	11099.0
Mo 202.032	23.6623	23.0083	24.9566
Na 330.237	267.269u	91.7585u	88.4277u
Ni 231.604	213.700	211.974	210.142
Pb 220.353	4839.89	4841.73	4868.48
Sb 206.834	23.8416	18.8094	24.5360
Se 196.026	1.9774	4.9386	1.9709
Sn 189.925	180.154	191.410	185.137
Sr 216.596	892.380	895.294	896.745
Ti 334.941	1721.31	1716.71	1718.80
Tl 190.794	14.3011u	17.2266u	13.4476u
V 292.401	327.001	326.810	326.823
Zn 206.200	12674.1	12726.0	12730.0

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	2.9462	ppb	0.0848	2.9	258.780
Al 308.215	102288	ppb	245.824	0.2	225151
As 188.980	257.648	ppb	7.9248	3.1	145.516
B 249.678	87.5591	ppb	0.6071	0.7	869.755
Ba 389.178	5417.51	ppb	3.1634	0.1	116670
Be 313.042	10.6659	ppb	0.0130	0.1	19188.9
Ca 370.602	144215	ppb	46.06	0.0	375227
Cd 226.502	39.3718	ppb	0.1919	0.5	2022.04
Co 228.615	158.271	ppb	0.9291	0.6	1605.37
Cr 267.716	525.619	ppb	0.2732	0.1	16295.3
Cu 324.754	1456.92	ppb	6.8865	0.5	76036.6
Fe 271.441	292485	ppb	348.945	0.1	478040
K 766.491	9734.43	ppb	19.0084	0.2	309504
Mg 279.078	20309.4	ppb	39.1310	0.2	40404.4
Mn 257.610	11087.0	ppb	14.8387	0.1	2568962
Mo 202.032	23.8757	ppb	0.9915	4.2	176.058
Na 330.237	149.152	ppb	102.306	68.6	-103.791
Ni 231.604	211.939	ppb	1.7794	0.8	545.746
Pb 220.353	4850.03	ppb	16.0007	0.3	8293.98
Sb 206.834	22.3957	ppb	3.1251	14.0	30.5297
Se 196.026	2.9623	ppb	1.7115	57.8	14.0588
Sn 189.925	185.567	ppb	5.6407	3.0	129.874
Sr 216.596	894.807	ppb	2.2230	0.2	8745.42
Ti 334.941	1718.94	ppb	2.3001	0.1	438659
Tl 190.794	14.9917	ppb	1.9819	13.2	-27.7511
V 292.401	326.878	ppb	0.1067	0.0	8652.58
Zn 206.200	12710.1	ppb	31.2189	0.2	16248.7

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

680-89275-a-28-a (Samp) 4/18/2013, 5:14:02 AM Rack 3, Tube 59

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	4.0307	5.2511	5.0406
Al 308.215	141372	141062	141205
As 188.980	528.759	526.185	530.874
B 249.678	206.416	209.466	210.836
Ba 389.178	8533.00	8536.72	8533.38
Be 313.042	16.6902	16.6918	16.7163
Ca 370.602	166873	167339	167654
Cd 226.502	27.7704	28.3383	27.7145
Co 228.615	124.343	124.802	124.574
Cr 267.716	464.345	462.114	462.771
Cu 324.754	1669.60	1692.87	1634.63
Fe 271.441	334560	334657	334874
K 766.491	19904.8	19835.3	19820.1
Mg 279.078	17647.3	17697.5	17723.5
Mn 257.610	6660.20	6699.54	6713.88
Mo 202.032	43.6595	43.6741	43.8773
Na 330.237	2832.67u	3031.34u	2895.75u
Ni 231.604	274.782	272.811	273.877
Pb 220.353	3348.72	3368.75	3373.01
Sb 206.834	26.8792	33.3282	32.4369
Se 196.026	6.3755	3.2736	-13.4174u
Sn 189.925	683.847	691.800	700.748
Sr 216.596	2585.91	2581.57	2593.18
Ti 334.941	3002.64	2998.64	3000.26
Tl 190.794	11.3550u	14.7131u	14.6607u
V 292.401	471.238	471.856	471.080
Zn 206.200	9955.50	10024.8	10040.2

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	4.7741	ppb	0.6524	13.7	301.052
Al 308.215	141213	ppb	155.088	0.1	310842
As 188.980	528.606	ppb	2.3485	0.4	310.222
B 249.678	208.906	ppb	2.2627	1.1	2224.93
Ba 389.178	8534.36	ppb	2.0470	0.0	183583
Be 313.042	16.6994	ppb	0.0146	0.1	29683.5
Ca 370.602	167289	ppb	393.1	0.2	435584
Cd 226.502	27.9411	ppb	0.3452	1.2	1727.57
Co 228.615	124.573	ppb	0.2293	0.2	1296.63
Cr 267.716	463.077	ppb	1.1466	0.2	14361.7
Cu 324.754	1665.70	ppb	29.3119	1.8	86902.0
Fe 271.441	334697	ppb	160.816	0.0	547008
K 766.491	19853.4	ppb	45.1387	0.2	630747
Mg 279.078	17689.4	ppb	38.7405	0.2	35241.0
Mn 257.610	6691.21	ppb	27.7923	0.4	1551053
Mo 202.032	43.7370	ppb	0.1217	0.3	314.692
Na 330.237	2919.92	ppb	101.517	3.5	14.8679
Ni 231.604	273.823	ppb	0.9864	0.4	705.560
Pb 220.353	3363.49	ppb	12.9681	0.4	5758.69
Sb 206.834	30.8814	ppb	3.4946	11.3	39.1298
Se 196.026	-1.2561	ppb	10.6455	847.5	11.0508
Sn 189.925	692.132	ppb	8.4552	1.2	498.238
Sr 216.596	2586.89	ppb	5.8656	0.2	24988.6
Ti 334.941	3000.51	ppb	2.0092	0.1	765547
Tl 190.794	13.5763	ppb	1.9239	14.2	-24.9556
V 292.401	471.391	ppb	0.4101	0.1	12494.3
Zn 206.200	10006.8	ppb	45.1277	0.5	12872.3

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89280-c-1-a (Samp) **4/18/2013, 5:19:39 AM** **Rack 3, Tube 60****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2878u	-0.7157u	-0.8075u
Al 308.215	70560.9	70112.5	70503.7
As 188.980	93.5906	97.2959	101.770
B 249.678	177.178	179.565	179.057
Ba 389.178	972.800	972.958	972.486
Be 313.042	0.8929	0.8802	0.8908
Ca 370.602	153680	153411	153824
Cd 226.502	3.8112	3.8150	4.1108
Co 228.615	15.2530	15.4560	15.3033
Cr 267.716	204.956	204.172	204.892
Cu 324.754	339.881	337.398	337.516
Fe 271.441	49803.4	49827.9	49854.5
K 766.491	28671.2	28619.6	28484.2
Mg 279.078	26677.7	26688.6	26719.3
Mn 257.610	3499.48	3508.57	3505.25
Mo 202.032	6.6016	7.4703	6.7516
Na 330.237	18299.8	18133.0	18309.4
Ni 231.604	76.0560	73.9166	73.7203
Pb 220.353	121.325	119.402	124.862
Sb 206.834	12.2459	-2.3721	0.7017
Se 196.026	-15.8026u	-4.8075u	-1.9455u
Sn 189.925	25.4752	21.4670	25.1503
Sr 216.596	765.430	763.238	765.421
Ti 334.941	2543.09	2531.60	2537.33
Tl 190.794	4.5228u	6.3447u	1.6814u
V 292.401	98.5614	99.2274	99.0036
Zn 206.200	655.107	654.786	654.465

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6037	ppb	0.2774	45.9	-38.4834
Al 308.215	70392.3	ppb	244.067	0.3	154938
As 188.980	97.5521	ppb	4.0956	4.2	50.5908
B 249.678	178.600	ppb	1.2574	0.7	2201.71
Ba 389.178	972.748	ppb	0.2404	0.0	21018.3
Be 313.042	0.8880	ppb	0.0069	0.8	2201.47
Ca 370.602	153638	ppb	209.5	0.1	417906
Cd 226.502	3.9123	ppb	0.1719	4.4	285.857
Co 228.615	15.3374	ppb	0.1057	0.7	207.272
Cr 267.716	204.673	ppb	0.4354	0.2	6342.05
Cu 324.754	338.265	ppb	1.4007	0.4	17810.1
Fe 271.441	49828.6	ppb	25.5648	0.1	81534.8
K 766.491	28591.7	ppb	96.5837	0.3	908157
Mg 279.078	26695.2	ppb	21.6045	0.1	53225.5
Mn 257.610	3504.43	ppb	4.6003	0.1	812306
Mo 202.032	6.9412	ppb	0.4643	6.7	68.1320
Na 330.237	18247.4	ppb	99.1995	0.5	817.617
Ni 231.604	74.5643	ppb	1.2956	1.7	187.987
Pb 220.353	121.863	ppb	2.7695	2.3	234.476
Sb 206.834	3.5252	ppb	7.7072	218.6	3.5326
Se 196.026	-7.5185	ppb	7.3155	97.3	7.6747
Sn 189.925	24.0308	ppb	2.2263	9.3	12.4248
Sr 216.596	764.696	ppb	1.2631	0.2	7413.25
Ti 334.941	2537.34	ppb	5.7460	0.2	647409
Tl 190.794	4.1830	ppb	2.3501	56.2	-15.7092
V 292.401	98.9308	ppb	0.3389	0.3	2658.24
Zn 206.200	654.786	ppb	0.3208	0.0	845.569

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

Cont Calib Verif (CCV) 4/18/2013, 5:25:16 AM Rack 4, Tube 1
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	492.928	494.948	487.044
Al 308.215	5012.26	4984.36	4969.24
As 188.980	500.114	491.138	491.942
B 249.678	525.735	525.976	526.224
Ba 389.178	5072.67	5033.74	5015.17
Be 313.042	526.856	522.901	520.839
Ca 370.602	5241	5219	5213
Cd 226.502	527.631	524.646	523.949
Co 228.615	528.560	525.638	526.416
Cr 267.716	5256.72	5201.04	5179.96
Cu 324.754	5237.22	5213.68	5276.09
Fe 271.441	5302.77	5320.35	5329.66
K 766.491	9954.03	9890.38	9813.72
Mg 279.078	5183.48	5166.36	5154.94
Mn 257.610	5352.73	5332.46	5310.59
Mo 202.032	495.988	494.044	494.469
Na 330.237	7331.84	7507.92	7726.66
Ni 231.604	2673.33	2652.64	2658.30
Pb 220.353	513.851	503.221	506.796
Sb 206.834	940.493	932.223	932.524
Se 196.026	5121.06	5153.53	5105.21
Sn 189.925	5122.80	5037.58	5018.39
Sr 216.596	2560.80	2539.95	2535.76
Ti 334.941	497.734	493.294	490.291
Tl 190.794	5089.47	5058.85	5038.15
V 292.401	5028.18	5006.11	4978.68
Zn 206.200	2696.24	2682.77	2682.29

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	491.640	ppb	4.1061	0.8	37001.7	98.32799
Al 308.215	4988.62	ppb	21.8251	0.4	10948.6	99.77246
As 188.980	494.398	ppb	4.9662	1.0	291.218	98.87965
B 249.678	525.978	ppb	0.2449	0.0	6271.38	21.03913Q
Ba 389.178	5040.53	ppb	29.3443	0.6	108183	100.81051
Be 313.042	523.532	ppb	3.0578	0.6	910796	104.70638
Ca 370.602	5224	ppb	14.81	0.3	14202	104.48374
Cd 226.502	525.409	ppb	1.9559	0.4	17869.6	105.08181
Co 228.615	526.871	ppb	1.5128	0.3	5253.73	105.37424
Cr 267.716	5212.57	ppb	39.6567	0.8	160753	104.25144
Cu 324.754	5242.33	ppb	31.5153	0.6	272699	104.84658
Fe 271.441	5317.60	ppb	13.6552	0.3	8926.70	106.35192
K 766.491	9886.04	ppb	70.2550	0.7	314318	98.86043
Mg 279.078	5168.26	ppb	14.3666	0.3	10263.5	103.36519
Mn 257.610	5331.93	ppb	21.0793	0.4	1235286	106.63857
Mo 202.032	494.834	ppb	1.0219	0.2	3524.23	98.96673
Na 330.237	7522.14	ppb	197.795	2.6	361.928	100.29521
Ni 231.604	2661.42	ppb	10.6929	0.4	6831.21	106.45679
Pb 220.353	507.956	ppb	5.4091	1.1	893.589	101.59126
Sb 206.834	935.080	ppb	4.6903	0.5	967.086	93.50801
Se 196.026	5126.60	ppb	24.6312	0.5	2384.27	102.53209
Sn 189.925	5059.59	ppb	55.5772	1.1	3674.05	101.19183
Sr 216.596	2545.50	ppb	13.4111	0.5	24406.6	101.82018
Ti 334.941	493.773	ppb	3.7443	0.8	126058	98.75465
Tl 190.794	5062.16	ppb	25.8198	0.5	4846.87	101.24316
V 292.401	5004.32	ppb	24.8017	0.5	131982	100.08649
Zn 206.200	2687.10	ppb	7.9169	0.3	3446.47	107.48393

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

Cont Calib Blank (CCB) 4/18/2013, 5:30:54 AM Rack 4, Tube 2

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9274u	-0.4249u	-1.2593u
Al 308.215	-1.5636u	0.8257	7.0459
As 188.980	-2.3559u	2.9953	-3.7140u
B 249.678	2.8640	2.5093	1.8704
Ba 389.178	-0.5139u	0.4428	0.2030
Be 313.042	-0.4940u	-0.4436u	-0.4114u
Ca 370.602	4.122	2.629	9.978
Cd 226.502	-0.4844u	-0.4544u	-0.3464u
Co 228.615	-0.0028u	-0.7377u	-0.3039u
Cr 267.716	-0.4268u	-0.1930u	0.2900
Cu 324.754	-0.7769u	0.3817	0.7036
Fe 271.441	-3.4334u	-4.0774u	-0.7678u
K 766.491	-5.1492u	-4.4281u	-2.8652u
Mg 279.078	3.5722	2.9044	1.2446
Mn 257.610	-0.5697u	0.0108	0.5208
Mo 202.032	-0.5858u	0.0737	-0.2720u
Na 330.237	54.6833	-258.168u	-28.3803u
Ni 231.604	0.5679	1.1081	0.3976
Pb 220.353	-0.2317u	2.2581	0.4489
Sb 206.834	1.5133	5.8016	2.6230
Se 196.026	-0.0208u	-1.4431u	2.9610
Sn 189.925	-3.3791u	-1.8491u	-2.6232u
Sr 216.596	-2.4389u	-1.7396u	-1.2873u
Ti 334.941	-0.2527u	-0.1482u	-0.0855u
Tl 190.794	1.3975	4.4554	5.8112
V 292.401	0.3722	0.2488	0.3440
Zn 206.200	-4.0580u	-1.8359u	-2.2288u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.8705	ppb	0.4201	48.3	-40.2812	-0.87051
Al 308.215	2.1027	ppb	4.4445	211.4	-19.5720	2.10267
As 188.980	-1.0248	ppb	3.5472	346.1	-10.2233	-1.02485
B 249.678	2.4146	ppb	0.5035	20.9	220.739	2.41457
Ba 389.178	0.0439	ppb	0.4978	1132.8	22.1891	0.04394
Be 313.042	-0.4497	ppb	0.0416	9.3	-170.709	-0.44965
Ca 370.602	5.576	ppb	3.885	69.7	32.64	5.57648
Cd 226.502	-0.4284	ppb	0.0726	17.0	28.7716	-0.42838
Co 228.615	-0.3481	ppb	0.3694	106.1	-5.2949	-0.34813
Cr 267.716	-0.1099	ppb	0.3656	332.6	5.9549	-0.10991
Cu 324.754	0.1028	ppb	0.7786	757.3	216.166	0.10281
Fe 271.441	-2.7595	ppb	1.7547	63.6	109.717	-2.75955
K 766.491	-4.1475	ppb	1.1676	28.2	338.035	-4.14751
Mg 279.078	2.5738	ppb	1.1985	46.6	39.7513	2.57377
Mn 257.610	-0.0127	ppb	0.5457	4298.5	424.708	-0.01269
Mo 202.032	-0.2614	ppb	0.3299	126.2	19.6290	-0.26138
Na 330.237	-77.2882	ppb	162.058	209.7	52.0995	-77.28824
Ni 231.604	0.6912	ppb	0.3710	53.7	-2.7827	0.69123
Pb 220.353	0.8251	ppb	1.2868	156.0	29.3277	0.82512
Sb 206.834	3.3127	ppb	2.2258	67.2	0.2902	3.31265
Se 196.026	0.4990	ppb	2.2476	450.4	10.6199	0.49903
Sn 189.925	-2.6171	ppb	0.7650	29.2	-7.0144	-2.61715
Sr 216.596	-1.8219	ppb	0.5802	31.8	31.2465	-1.82195
Ti 334.941	-0.1621	ppb	0.0845	52.1	47.8538	-0.16213
Tl 190.794	3.8880	ppb	2.2609	58.2	-8.6626	3.88803
V 292.401	0.3217	ppb	0.0646	20.1	24.8879	0.32167
Zn 206.200	-2.7076	ppb	1.1859	43.8	40.5094	-2.70758

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

680-89300-a-1-a (Samp) 4/18/2013, 5:36:32 AM Rack 4, Tube 3
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.6573u	-2.8000u	-2.6185u
Al 308.215	66160.3	65590.9	65221.2
As 188.980	26.2782	19.9064	19.7740
B 249.678	0.5617u	-0.0286u	-0.5171u
Ba 389.178	603.009	601.411	598.949
Be 313.042	2.1321	2.1228	2.1132
Ca 370.602	14084	14042	13985
Cd 226.502	1.5190	1.6741	1.7403
Co 228.615	20.5556	20.9261	20.0368
Cr 267.716	106.086	105.046	104.529
Cu 324.754	98.6695	98.1582	96.2619
Fe 271.441	72828.5	72660.9	72398.0
K 766.491	3001.03	3002.98	2990.26
Mg 279.078	4950.03	4936.62	4931.29
Mn 257.610	4115.51	4116.78	4098.84
Mo 202.032	4.5115	3.6645	3.9188
Na 330.237	213.305u	60.3302u	202.648u
Ni 231.604	31.5714	33.0089	33.4328
Pb 220.353	1088.45	1095.90	1089.88
Sb 206.834	3.9711	1.6974	3.4343
Se 196.026	-4.1356u	-14.0537u	-5.9116u
Sn 189.925	26.6594	27.2189	27.6179
Sr 216.596	51.2356	50.3035	50.6371
Ti 334.941	1153.74	1150.17	1143.66
Tl 190.794	2.9954u	0.7655u	-0.8421u
V 292.401	194.974	194.261	193.519
Zn 206.200	606.717	607.714	611.498

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.6920	ppb	0.0956	3.6	-159.853
Al 308.215	65657.5	ppb	473.100	0.7	144513
As 188.980	21.9862	ppb	3.7175	16.9	3.1730
B 249.678	0.0053	ppb	0.5402	10118.6	109.453
Ba 389.178	601.123	ppb	2.0448	0.3	13023.8
Be 313.042	2.1227	ppb	0.0095	0.4	4302.69
Ca 370.602	14037	ppb	49.47	0.4	33691
Cd 226.502	1.6445	ppb	0.1136	6.9	258.900
Co 228.615	20.5062	ppb	0.4467	2.2	226.391
Cr 267.716	105.220	ppb	0.7931	0.8	3277.44
Cu 324.754	97.6965	ppb	1.2685	1.3	5309.98
Fe 271.441	72629.1	ppb	216.990	0.3	118790
K 766.491	2998.09	ppb	6.8531	0.2	95648.7
Mg 279.078	4939.31	ppb	9.6537	0.2	9820.37
Mn 257.610	4110.38	ppb	10.0104	0.2	952571
Mo 202.032	4.0316	ppb	0.4346	10.8	46.1935
Na 330.237	158.761	ppb	85.4100	53.8	32.5299
Ni 231.604	32.6710	ppb	0.9756	3.0	80.8457
Pb 220.353	1091.41	ppb	3.9537	0.4	1887.71
Sb 206.834	3.0343	ppb	1.1885	39.2	2.6301
Se 196.026	-8.0337	ppb	5.2886	65.8	7.5568
Sn 189.925	27.1654	ppb	0.4815	1.8	14.6460
Sr 216.596	50.7254	ppb	0.4723	0.9	562.173
Ti 334.941	1149.19	ppb	5.1120	0.4	293244
Tl 190.794	0.9730	ppb	1.9272	198.1	-20.7242
V 292.401	194.251	ppb	0.7274	0.4	5164.50
Zn 206.200	608.643	ppb	2.5221	0.4	786.481

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89300-a-2-a (Samp) 4/18/2013, 5:42:10 AM Rack 4, Tube 4

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5035u	0.1403	-0.2665u
Al 308.215	75814.1	75433.1	75209.0
As 188.980	89.1928	94.3654	92.2718
B 249.678	14.7717	14.2663u	15.3941
Ba 389.178	1879.22	1877.64	1876.05
Be 313.042	3.7709	3.7763	3.7635
Ca 370.602	41095	41001	41002
Cd 226.502	15.3544	15.3481	15.2181
Co 228.615	29.8163	30.2358	30.3007
Cr 267.716	143.942	143.689	143.340
Cu 324.754	464.170	462.499	459.986
Fe 271.441	146574	146003	146252
K 766.491	5475.75	5478.27	5464.42
Mg 279.078	9192.24	9184.14	9207.10
Mn 257.610	2589.10	2598.84	2592.46
Mo 202.032	7.6338	7.2059	6.9374
Na 330.237	-908.365u	-986.769u	-830.914u
Ni 231.604	83.6096	83.4808	82.5768
Pb 220.353	3280.81	3288.76	3292.37
Sb 206.834	13.1217	21.7730	20.4433
Se 196.026	0.0243	5.4402	3.7207
Sn 189.925	134.051	130.972	129.662
Sr 216.596	237.010	236.993	237.027
Ti 334.941	1961.11	1955.66	1953.92
Tl 190.794	-2.1659u	2.2352u	1.8888u
V 292.401	245.760	246.057	245.605
Zn 206.200	7565.72	7564.52	7607.14

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2099	ppb	0.3256	155.2	11.8262
Al 308.215	75485.4	ppb	305.915	0.4	166148
As 188.980	91.9433	ppb	2.6019	2.8	45.2464
B 249.678	14.8107	ppb	0.5649	3.8	196.140
Ba 389.178	1877.64	ppb	1.5869	0.1	40514.3
Be 313.042	3.7702	ppb	0.0064	0.2	7173.52
Ca 370.602	41033	ppb	53.97	0.1	102602
Cd 226.502	15.3069	ppb	0.0770	0.5	884.234
Co 228.615	30.1176	ppb	0.2629	0.9	338.118
Cr 267.716	143.657	ppb	0.3025	0.2	4470.34
Cu 324.754	462.219	ppb	2.1058	0.5	24281.9
Fe 271.441	146276	ppb	286.373	0.2	239126
K 766.491	5472.81	ppb	7.3772	0.1	174213
Mg 279.078	9194.49	ppb	11.6427	0.1	18342.1
Mn 257.610	2593.47	ppb	4.9466	0.2	601498
Mo 202.032	7.2590	ppb	0.3512	4.8	65.4078
Na 330.237	-908.683	ppb	77.9282	8.6	-82.0726
Ni 231.604	83.2224	ppb	0.5628	0.7	212.180
Pb 220.353	3287.31	ppb	5.9143	0.2	5629.06
Sb 206.834	18.4460	ppb	4.6586	25.3	19.8198
Se 196.026	3.0617	ppb	2.7675	90.4	12.2737
Sn 189.925	131.562	ppb	2.2532	1.7	90.5674
Sr 216.596	237.010	ppb	0.0170	0.0	2377.01
Ti 334.941	1956.90	ppb	3.7496	0.2	499294
Tl 190.794	0.6527	ppb	2.4471	374.9	-22.4827
V 292.401	245.808	ppb	0.2295	0.1	6537.68
Zn 206.200	7579.13	ppb	24.2690	0.3	9750.91

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680-89300-a-3-a (Samp) 4/18/2013, 5:47:48 AM Rack 4, Tube 5

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.7394u	-1.8778u	-2.2887u
Al 308.215	87620.8	87213.9	86639.8
As 188.980	21.9881	26.2116	19.3932
B 249.678	9.7471	9.6015	10.1220
Ba 389.178	640.589	638.723	637.985
Be 313.042	2.1511	2.1348	2.1294
Ca 370.602	9658	9595	9591
Cd 226.502	0.8295	0.8458	1.3133
Co 228.615	23.0157	23.5319	21.5975
Cr 267.716	90.4488	90.2928	89.8286
Cu 324.754	144.810	145.146	145.789
Fe 271.441	89636.9	89361.6	89475.5
K 766.491	16620.5	16570.4	16600.5
Mg 279.078	11319.3	11279.2	11275.1
Mn 257.610	698.218	695.527	697.463
Mo 202.032	9.2272	9.3327	10.4376
Na 330.237	436.913u	868.526u	751.096u
Ni 231.604	40.4321	39.1199	41.9079
Pb 220.353	350.636	352.865	350.490
Sb 206.834	-0.8412	3.0397	6.2290
Se 196.026	-9.8041u	-11.6351u	-4.9988u
Sn 189.925	35.7157	34.0753	33.3756
Sr 216.596	177.196	176.459	176.087
Ti 334.941	4245.68	4232.82	4221.97
Tl 190.794	-2.7756u	-1.2775u	0.6816u
V 292.401	153.282	152.098	152.890
Zn 206.200	341.592	342.408	344.830

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.9687	ppb	0.2857	14.5	-126.949
Al 308.215	87158.2	ppb	492.857	0.6	191846
As 188.980	22.5310	ppb	3.4415	15.3	3.2943
B 249.678	9.8235	ppb	0.2685	2.7	203.664
Ba 389.178	639.099	ppb	1.3422	0.2	13875.8
Be 313.042	2.1385	ppb	0.0113	0.5	4330.79
Ca 370.602	9615	ppb	37.52	0.4	20812
Cd 226.502	0.9962	ppb	0.2747	27.6	274.133
Co 228.615	22.7150	ppb	1.0017	4.4	317.430
Cr 267.716	90.1901	ppb	0.3226	0.4	2811.19
Cu 324.754	145.248	ppb	0.4973	0.3	7787.71
Fe 271.441	89491.3	ppb	138.315	0.2	146343
K 766.491	16597.1	ppb	25.2560	0.2	527372
Mg 279.078	11291.2	ppb	24.4461	0.2	22540.6
Mn 257.610	697.069	ppb	1.3879	0.2	162171
Mo 202.032	9.6659	ppb	0.6705	6.9	85.4324
Na 330.237	685.512	ppb	223.155	32.6	32.4386
Ni 231.604	40.4866	ppb	1.3948	3.4	101.268
Pb 220.353	351.330	ppb	1.3310	0.4	623.847
Sb 206.834	2.8092	ppb	3.5408	126.0	2.5721
Se 196.026	-8.8127	ppb	3.4275	38.9	6.3905
Sn 189.925	34.3889	ppb	1.2011	3.5	19.8965
Sr 216.596	176.580	ppb	0.5645	0.3	1774.55
Ti 334.941	4233.49	ppb	11.8680	0.3	1079990
Tl 190.794	-1.1238	ppb	1.7337	154.3	-18.7731
V 292.401	152.757	ppb	0.6033	0.4	4114.09
Zn 206.200	342.943	ppb	1.6843	0.5	444.810

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680-89328-b-8-a (Samp) **4/18/2013, 5:53:26 AM** **Rack 4, Tube 6**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-10.7628u	-11.1877u	-11.2573u
Al 308.215	128446	127605	126828
As 188.980	367.929	360.280	363.068
B 249.678	-14.5629u	-13.1953u	-13.4361u
Ba 389.178	5980.57	5963.50	5963.98
Be 313.042	20.1830	20.1323	20.1137
Ca 370.602	114827	114490	114417
Cd 226.502	40.0950	39.9665	41.0863
Co 228.615	269.800	269.117	272.232
Cr 267.716	812.549	807.720	804.707
Cu 324.754	1342.66	1339.76	1339.35
Fe 271.441	653459	649313	651056
K 766.491	9875.05	9890.85	9899.49
Mg 279.078	13382.7	13357.4	13365.4
Mn 257.610	38235.9x	38171.5x	38174.8x
Mo 202.032	24.5031	23.7005	23.4920
Na 330.237	-1292.03u	-1734.03u	-1806.90u
Ni 231.604	241.162	241.520	238.989
Pb 220.353	3440.01	3430.52	3433.06
Sb 206.834	50.9852	50.0416	47.5957
Se 196.026	-17.2263	-6.3904	5.0812
Sn 189.925	93.5219	95.7354	97.9086
Sr 216.596	344.083	342.689	341.542
Ti 334.941	1699.72	1695.07	1690.37
Tl 190.794	59.5346u	57.3855u	54.5938u
V 292.401	680.553	679.744	680.504
Zn 206.200	12339.1	12305.0	12331.8

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-11.0693b	ppb	0.2677	2.4	-646.789
Al 308.215	127626b	ppb	809.079	0.6	280929
As 188.980	363.759b	ppb	3.8711	1.1	206.233
B 249.678	-13.7314b	ppb	0.7300	5.3	-715.224
Ba 389.178	5969.35b	ppb	9.7212	0.2	128962
Be 313.042	20.1430b	ppb	0.0359	0.2	35637.0
Ca 370.602	114578b	ppb	218.6	0.2	269613
Cd 226.502	40.3826b	ppb	0.6128	1.5	2847.62
Co 228.615	270.383b	ppb	1.6373	0.6	2711.74
Cr 267.716	808.325b	ppb	3.9557	0.5	25141.8
Cu 324.754	1340.59b	ppb	1.8052	0.1	70095.4
Fe 271.441	651276b	ppb	2081.82	0.3	1064298
K 766.491	9888.46b	ppb	12.3918	0.1	314394
Mg 279.078	13368.5b	ppb	12.9234	0.1	26200.9
Mn 257.610	38194.1xb	ppb	36.2671	0.1	8847591
Mo 202.032	23.8985b	ppb	0.5339	2.2	157.997
Na 330.237	-1610.99b	ppb	278.615	17.3	-269.035
Ni 231.604	240.557b	ppb	1.3695	0.6	626.526
Pb 220.353	3434.53b	ppb	4.9123	0.1	5887.54
Sb 206.834	49.5408b	ppb	1.7494	3.5	68.0963
Se 196.026	-6.1785b	ppb	11.1552	180.5	15.7801
Sn 189.925	95.7220b	ppb	2.1934	2.3	64.5212
Sr 216.596	342.771b	ppb	1.2725	0.4	3578.43
Ti 334.941	1695.06b	ppb	4.6729	0.3	432576
Tl 190.794	57.1713b	ppb	2.4774	4.3	-42.8902
V 292.401	680.267b	ppb	0.4532	0.1	17982.6
Zn 206.200	12325.3b	ppb	17.9555	0.1	15853.1

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680-89328-b-8-aSD^5 (Samp) **4/18/2013, 5:59:04 AM** **Rack 4, Tube 7****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-3.2043u	-2.5172u	-3.5113u
Al 308.215	27867.0	27441.1	26812.7
As 188.980	78.6012	70.3720	75.9806
B 249.678	-10.8450u	-9.7987u	-8.6462u
Ba 389.178	1326.91	1311.16	1294.88
Be 313.042	4.0632	3.9960	3.9384
Ca 370.602	25221	24932	24659
Cd 226.502	8.1333	7.6118	7.4957
Co 228.615	61.0020	59.1616	59.6372
Cr 267.716	181.291	177.622	174.924
Cu 324.754	283.987	279.149	273.281
Fe 271.441	148992	146979	144861
K 766.491	1860.95	1846.17	1829.62
Mg 279.078	3043.44	3014.90	2970.95
Mn 257.610	9615.20	9462.72	9344.39
Mo 202.032	4.4010	4.5942	5.0003
Na 330.237	-262.429u	-490.663u	-278.938u
Ni 231.604	56.3722	54.0219	53.9849
Pb 220.353	777.197	766.866	759.306
Sb 206.834	9.4202	12.5365	10.1060
Se 196.026	-3.8624	2.5164	-6.6155u
Sn 189.925	18.1470	22.4219	20.2259
Sr 216.596	76.0181	74.1550	72.7949
Ti 334.941	373.343	368.228	361.917
Tl 190.794	14.7524u	17.0503u	16.2522u
V 292.401	150.742	148.045	146.723
Zn 206.200	2803.57	2768.66	2744.24

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.0776	ppb	0.5090	16.5	-166.013
Al 308.215	27373.6	ppb	530.392	1.9	60235.4
As 188.980	74.9846	ppb	4.2040	5.6	34.7811
B 249.678	-9.7633	ppb	1.0998	11.3	-88.9608
Ba 389.178	1310.98	ppb	16.0133	1.2	28344.1
Be 313.042	3.9992	ppb	0.0625	1.6	7564.92
Ca 370.602	24938	ppb	281.0	1.1	58372
Cd 226.502	7.7469	ppb	0.3396	4.4	629.352
Co 228.615	59.9336	ppb	0.9553	1.6	599.397
Cr 267.716	177.946	ppb	3.1959	1.8	5545.52
Cu 324.754	278.806	ppb	5.3612	1.9	14748.3
Fe 271.441	146944	ppb	2065.61	1.4	240220
K 766.491	1845.58	ppb	15.6721	0.8	59060.6
Mg 279.078	3009.76	ppb	36.5158	1.2	5912.77
Mn 257.610	9474.10	ppb	135.765	1.4	2194939
Mo 202.032	4.6652	ppb	0.3059	6.6	47.1441
Na 330.237	-344.010	ppb	127.273	37.0	-16.7057
Ni 231.604	54.7930	ppb	1.3678	2.5	139.155
Pb 220.353	767.789	ppb	8.9811	1.2	1338.06
Sb 206.834	10.6876	ppb	1.6375	15.3	12.5268
Se 196.026	-2.6538	ppb	4.6843	176.5	11.2212
Sn 189.925	20.2649	ppb	2.1377	10.5	9.6306
Sr 216.596	74.3227	ppb	1.6181	2.2	816.104
Ti 334.941	367.829	ppb	5.7233	1.6	93940.3
Tl 190.794	16.0183	ppb	1.1667	7.3	-17.4850
V 292.401	148.503	ppb	2.0479	1.4	3938.42
Zn 206.200	2772.16	ppb	29.8206	1.1	2568.72

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89328-b-8-aPDS (Samp) **4/18/2013, 6:04:41 AM** **Rack 4, Tube 8****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	37.7407	38.4439	37.5506
Al 308.215	128247	128263	127753
As 188.980	2526.95	2513.11	2537.90
B 249.678	977.291	982.141	990.895
Ba 389.178	7782.97	7764.83	7766.17
Be 313.042	70.0837	70.1043	70.0141
Ca 370.602	117262	117321	117165
Cd 226.502	88.0750	88.4420	88.8411
Co 228.615	763.800	761.418	763.421
Cr 267.716	1000.90	998.997	993.582
Cu 324.754	1566.52	1585.48	1576.50
Fe 271.441	640910	638487	638217
K 766.491	15629.6	15607.3	15628.3
Mg 279.078	18026.8	17992.3	17993.4
Mn 257.610	37994.6x	37999.2x	38005.7x
Mo 202.032	506.496	505.768	506.739
Na 330.237	3821.73u	3705.05u	3929.04u
Ni 231.604	730.755	733.019	737.811
Pb 220.353	3845.16	3849.39	3841.69
Sb 206.834	519.550	507.950	510.680
Se 196.026	2001.04	2009.56	2026.67
Sn 189.925	1051.38	1064.46	1052.62
Sr 216.596	824.642	824.849	822.553
Ti 334.941	2542.48	2536.12	2533.52
Tl 190.794	1909.78	1930.44	1917.40
V 292.401	1152.47	1151.96	1153.99
Zn 206.200	12593.1	12559.3	12580.0

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	37.9118b	ppb	0.4705	1.2	3023.68
Al 308.215	128088b	ppb	289.843	0.2	281967
As 188.980	2525.99b	ppb	12.4226	0.5	1522.47
B 249.678	983.442b	ppb	6.8950	0.7	10835.1
Ba 389.178	7771.33b	ppb	10.1067	0.1	167616
Be 313.042	70.0674b	ppb	0.0473	0.1	122370
Ca 370.602	117249b	ppb	78.49	0.1	277949
Cd 226.502	88.4527b	ppb	0.3831	0.4	4449.61
Co 228.615	762.880b	ppb	1.2800	0.2	7621.94
Cr 267.716	997.828b	ppb	3.7986	0.4	30981.7
Cu 324.754	1576.16b	ppb	9.4835	0.6	82346.8
Fe 271.441	639205b	ppb	1482.77	0.2	1044652
K 766.491	15621.7b	ppb	12.5090	0.1	496406
Mg 279.078	18004.2b	ppb	19.6271	0.1	35449.5
Mn 257.610	37999.8xb	ppb	5.5918	0.0	8802600
Mo 202.032	506.334b	ppb	0.5056	0.1	3581.97
Na 330.237	3818.60b	ppb	112.026	2.9	-36.2047
Ni 231.604	733.861b	ppb	3.6025	0.5	1893.28
Pb 220.353	3845.41b	ppb	3.8522	0.1	6586.42
Sb 206.834	512.727b	ppb	6.0651	1.2	519.734
Se 196.026	2012.42b	ppb	13.0498	0.6	949.980
Sn 189.925	1056.16b	ppb	7.2218	0.7	762.918
Sr 216.596	824.015b	ppb	1.2700	0.2	8166.36
Ti 334.941	2537.37b	ppb	4.6129	0.2	647445
Tl 190.794	1919.21b	ppb	10.4493	0.5	1747.64
V 292.401	1152.81b	ppb	1.0539	0.1	30392.9
Zn 206.200	12577.5b	ppb	17.0393	0.1	16177.0

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89328-b-8-b ms (Samp) 4/18/2013, 6:10:19 AM Rack 4, Tube 9

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	6.3805	6.5694	6.4212
Al 308.215	134701	134239	134026
As 188.980	402.818	393.806	400.168
B 249.678	175.701	174.397	174.765
Ba 389.178	5431.74	5430.40	5438.48
Be 313.042	70.1227	70.1220	70.3001
Ca 370.602	124754	124510	124572
Cd 226.502	90.8231	91.2528	91.4401
Co 228.615	368.251	373.500	370.439
Cr 267.716	1035.21	1030.66	1030.35
Cu 324.754	1622.57	1570.30	1597.86
Fe 271.441	559004	558121	559286
K 766.491	15458.9	15487.0	15556.4
Mg 279.078	17480.3	17485.9	17478.4
Mn 257.610	40013.8x	39808.0x	39991.7x
Mo 202.032	123.722	124.205	123.862
Na 330.237	4095.75u	4077.27u	4221.08u
Ni 231.604	341.958	339.998	343.905
Pb 220.353	3279.94	3281.00	3269.69
Sb 206.834	306.245	307.993	309.673
Se 196.026	92.2934	92.6858	94.7827
Sn 189.925	407.569	407.421	426.980
Sr 216.596	496.702	496.523	492.900
Ti 334.941	1825.43	1825.23	1826.38
Tl 190.794	107.078	103.255	102.720
V 292.401	718.313	717.687	719.206
Zn 206.200	10882.0	10898.6	10885.4

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	6.4571b	ppb	0.0994	1.5	675.271
Al 308.215	134322b	ppb	345.086	0.3	295673
As 188.980	398.931b	ppb	4.6316	1.2	228.644
B 249.678	174.954b	ppb	0.6725	0.4	1574.32
Ba 389.178	5433.54b	ppb	4.3251	0.1	117357
Be 313.042	70.1816b	ppb	0.1026	0.1	122643
Ca 370.602	124612b	ppb	126.3	0.1	303643
Cd 226.502	91.1720b	ppb	0.3163	0.3	4365.26
Co 228.615	370.730b	ppb	2.6364	0.7	3714.38
Cr 267.716	1032.08b	ppb	2.7203	0.3	32033.0
Cu 324.754	1596.91b	ppb	26.1456	1.6	83394.4
Fe 271.441	558804b	ppb	608.228	0.1	913221
K 766.491	15500.8b	ppb	50.2223	0.3	492565
Mg 279.078	17481.5b	ppb	3.9154	0.0	34361.8
Mn 257.610	39937.8xb	ppb	112.966	0.3	9251199
Mo 202.032	123.930b	ppb	0.2484	0.2	872.468
Na 330.237	4131.37b	ppb	78.2423	1.9	13.1113
Ni 231.604	341.954b	ppb	1.9539	0.6	885.080
Pb 220.353	3276.88b	ppb	6.2500	0.2	5618.97
Sb 206.834	307.970b	ppb	1.7140	0.6	321.731
Se 196.026	93.2540b	ppb	1.3384	1.4	62.2870
Sn 189.925	413.990b	ppb	11.2498	2.7	295.963
Sr 216.596	495.375b	ppb	2.1457	0.4	5004.50
Ti 334.941	1825.68b	ppb	0.6125	0.0	465902
Tl 190.794	104.351b	ppb	2.3767	2.3	4.5825
V 292.401	718.402b	ppb	0.7634	0.1	18960.9
Zn 206.200	10888.7b	ppb	8.7944	0.1	14904.9

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89328-b-8-c msd (Samp) 4/18/2013, 6:15:57 AM Rack 4, Tube 10

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	9.7245	8.5731	9.4422
Al 308.215	133840	133466	132569
As 188.980	507.012	521.678	517.620
B 249.678	139.509	141.046	144.117
Ba 389.178	5349.47	5349.48	5343.02
Be 313.042	69.4584	69.4254	69.3353
Ca 370.602	104853	104880	104788
Cd 226.502	94.7754	96.1072	96.4762
Co 228.615	354.189	356.891	353.111
Cr 267.716	1359.09	1355.92	1346.34
Cu 324.754	9759.91	9663.42	9783.55
Fe 271.441	1020907x	1014788x	1015179x
K 766.491	15452.9	15438.0	15486.4
Mg 279.078	16859.4	16862.4	16817.3
Mn 257.610	28642.9	28543.9	28634.4
Mo 202.032	125.535	125.944	125.213
Na 330.237	4357.78u	4465.21u	4510.08u
Ni 231.604	381.628	382.791	382.905
Pb 220.353	4469.50	4479.29	4457.25
Sb 206.834	94.5911	96.1132	99.8413
Se 196.026	90.8640	93.9272	107.928
Sn 189.925	1374.11	1367.60	1346.93
Sr 216.596	445.732	446.910	441.608
Ti 334.941	1837.29	1836.66	1830.69
Tl 190.794	67.9213u	71.1957u	69.6635u
V 292.401	740.244	739.530	739.648
Zn 206.200	11206.7	11224.9	11203.5

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.2466b	ppb	0.6001	6.5	833.845
Al 308.215	133292b	ppb	653.469	0.5	293406
As 188.980	515.437b	ppb	7.5726	1.5	294.760
B 249.678	141.557b	ppb	2.3464	1.7	660.576
Ba 389.178	5347.32b	ppb	3.7275	0.1	116106
Be 313.042	69.4064b	ppb	0.0637	0.1	121282
Ca 370.602	104840b	ppb	46.95	0.0	217197
Cd 226.502	95.7863b	ppb	0.8946	0.9	5531.83
Co 228.615	354.730b	ppb	1.9471	0.5	3542.22
Cr 267.716	1353.78b	ppb	6.6383	0.5	41992.5
Cu 324.754	9735.63b	ppb	63.6427	0.7	506630
Fe 271.441	1016958xb	ppb	3425.39	0.3	1661809
K 766.491	15459.1b	ppb	24.7968	0.2	491243
Mg 279.078	16846.4b	ppb	25.1964	0.1	33345.2
Mn 257.610	28607.1b	ppb	54.8927	0.2	6628374
Mo 202.032	125.564b	ppb	0.3664	0.3	861.601
Na 330.237	4444.36b	ppb	78.2665	1.8	-91.5374
Ni 231.604	382.441b	ppb	0.7066	0.2	998.344
Pb 220.353	4468.68b	ppb	11.0436	0.2	7647.51
Sb 206.834	96.8485b	ppb	2.7012	2.8	127.526
Se 196.026	97.5731b	ppb	9.0976	9.3	61.2461
Sn 189.925	1362.88b	ppb	14.1903	1.0	985.944
Sr 216.596	444.750b	ppb	2.7838	0.6	4682.73
Ti 334.941	1834.88b	ppb	3.6426	0.2	468295
Tl 190.794	69.5935b	ppb	1.6383	2.4	-35.4103
V 292.401	739.807b	ppb	0.3823	0.1	19507.9
Zn 206.200	11211.7b	ppb	11.5218	0.1	14419.6

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89328-b-10-a (Samp) **4/18/2013, 6:21:35 AM** **Rack 4, Tube 11**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	2.6377	1.7040	1.8943
Al 308.215	81603.2	81836.8	81179.5
As 188.980	458.673	452.224	454.478
B 249.678	30.0021u	29.4839u	30.2721u
Ba 389.178	2865.93	2868.03	2871.87
Be 313.042	9.5866	9.6901	9.8014
Ca 370.602	123198	123329	122979
Cd 226.502	24.9649	25.0715	25.6072
Co 228.615	107.474	107.331	108.763
Cr 267.716	278.365	280.556	279.379
Cu 324.754	3144.06	3128.99	3202.51
Fe 271.441	440036	441017	440478
K 766.491	14015.2	14040.9	14093.3
Mg 279.078	41498.5	41431.4	41413.4
Mn 257.610	9895.24	9935.10	9965.06
Mo 202.032	24.6712	25.8605	24.1841
Na 330.237	1035.31u	1177.72u	1379.63u
Ni 231.604	226.323	225.149	226.741
Pb 220.353	3003.96	2994.37	3001.74
Sb 206.834	21.1508	23.2847	12.7884
Se 196.026	10.0185	10.5587	18.9407
Sn 189.925	1721.33	1726.09	1718.17
Sr 216.596	436.373	435.678	434.394
Ti 334.941	759.259	761.296	760.908
Tl 190.794	17.3675u	8.3963u	15.4483u
V 292.401	246.469	247.419	249.067
Zn 206.200	8185.58	8166.88	8206.41

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	2.0786	ppb	0.4934	23.7	207.062
Al 308.215	81539.8	ppb	333.204	0.4	179477
As 188.980	455.125	ppb	3.2730	0.7	264.058
B 249.678	29.9194	ppb	0.4006	1.3	32.1399
Ba 389.178	2868.61	ppb	3.0133	0.1	62236.0
Be 313.042	9.6927	ppb	0.1074	1.1	17488.7
Ca 370.602	123169	ppb	176.7	0.1	307024
Cd 226.502	25.2145	ppb	0.3442	1.4	1869.41
Co 228.615	107.856	ppb	0.7888	0.7	1075.74
Cr 267.716	279.434	ppb	1.0967	0.4	8721.30
Cu 324.754	3158.52	ppb	38.8362	1.2	164541
Fe 271.441	440510	ppb	491.424	0.1	719894
K 766.491	14049.8	ppb	39.8223	0.3	446503
Mg 279.078	41447.8	ppb	44.8445	0.1	82621.6
Mn 257.610	9931.80	ppb	35.0251	0.4	2301965
Mo 202.032	24.9053	ppb	0.8624	3.5	176.248
Na 330.237	1197.55	ppb	173.011	14.4	-60.8063
Ni 231.604	226.071	ppb	0.8254	0.4	585.038
Pb 220.353	3000.02	ppb	5.0226	0.2	5141.66
Sb 206.834	19.0746	ppb	5.5476	29.1	28.4917
Se 196.026	13.1727	ppb	5.0026	38.0	18.3847
Sn 189.925	1721.86	ppb	3.9866	0.2	1247.00
Sr 216.596	435.481	ppb	1.0040	0.2	4392.19
Ti 334.941	760.488	ppb	1.0816	0.1	194286
Tl 190.794	13.7373	ppb	4.7240	34.4	-34.7175
V 292.401	247.652	ppb	1.3147	0.5	6557.28
Zn 206.200	8186.29	ppb	19.7791	0.2	10531.4

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89328-b-15-a (Samp) 4/18/2013, 6:27:13 AM Rack 4, Tube 12

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.6861u	-2.2630u	-2.2408u
Al 308.215	153695	153654	153698
As 188.980	345.292	335.130	348.158
B 249.678	-20.0538u	-17.1642u	-15.8374u
Ba 389.178	2686.47	2692.86	2688.83
Be 313.042	20.4129	20.4289	20.4331
Ca 370.602	70395	70373	70336
Cd 226.502	30.8120	31.0366	30.7453
Co 228.615	227.376	221.212	229.240
Cr 267.716	796.816	793.966	790.291
Cu 324.754	496.851	495.816	494.062
Fe 271.441	721883	719674	721008
K 766.491	12364.1	12384.7	12403.0
Mg 279.078	31246.2	31219.9	31234.0
Mn 257.610	23422.1	23609.4	23304.1
Mo 202.032	18.9642	18.5851	19.6480
Na 330.237	722.688u	996.076u	474.135u
Ni 231.604	222.743	226.114	228.562
Pb 220.353	2437.30	2445.28	2441.72
Sb 206.834	3.4432	5.7498	11.8155
Se 196.026	-16.2459u	-3.6444	-5.9130
Sn 189.925	76.7622	84.5163	77.6947
Sr 216.596	271.217	269.754	270.604
Ti 334.941	1201.02	1201.77	1202.08
Tl 190.794	32.0814u	28.1777u	32.6394u
V 292.401	1058.31	1059.54	1060.33
Zn 206.200	4917.97	4909.55	4924.13

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.0633	ppb	0.3269	15.8	-31.0167
Al 308.215	153682	ppb	24.2949	0.0	338286
As 188.980	342.860	ppb	6.8460	2.0	192.434
B 249.678	-17.6851	ppb	2.1559	12.2	-841.300
Ba 389.178	2689.39	ppb	3.2323	0.1	58735.5
Be 313.042	20.4250	ppb	0.0107	0.1	36105.7
Ca 370.602	70368	ppb	29.61	0.0	143197
Cd 226.502	30.8647	ppb	0.1526	0.5	2678.97
Co 228.615	225.943	ppb	4.2013	1.9	2256.24
Cr 267.716	793.691	ppb	3.2710	0.4	24657.5
Cu 324.754	495.576	ppb	1.4102	0.3	26184.4
Fe 271.441	720855	ppb	1112.80	0.2	1177981
K 766.491	12383.9	ppb	19.4935	0.2	393617
Mg 279.078	31233.4	ppb	13.1155	0.0	62068.1
Mn 257.610	23445.2	ppb	153.974	0.7	5432218
Mo 202.032	19.0657	ppb	0.5387	2.8	119.579
Na 330.237	730.967	ppb	261.069	35.7	-134.524
Ni 231.604	225.806	ppb	2.9217	1.3	590.056
Pb 220.353	2441.43	ppb	3.9968	0.2	4191.97
Sb 206.834	7.0029	ppb	4.3245	61.8	27.7806
Se 196.026	-8.6011	ppb	6.7170	78.1	11.1812
Sn 189.925	79.6577	ppb	4.2334	5.3	52.8222
Sr 216.596	270.525	ppb	0.7345	0.3	2907.23
Ti 334.941	1201.62	ppb	0.5461	0.0	306797
Tl 190.794	30.9662	ppb	2.4309	7.9	-50.5612
V 292.401	1059.39	ppb	1.0161	0.1	28004.2
Zn 206.200	4917.22	ppb	7.3189	0.1	6325.83

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

Cont Calib Verif (CCV) 4/18/2013, 6:32:51 AM Rack 4, Tube 13
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	489.489	495.371	496.057
Al 308.215	5022.16	5087.54	5064.43
As 188.980	503.610	503.330	503.572
B 249.678	530.340	538.198	540.986
Ba 389.178	4948.89	4995.81	4994.47
Be 313.042	528.159	533.096	534.047
Ca 370.602	5088	5143	5119
Cd 226.502	524.279	530.680	530.654
Co 228.615	525.113	531.755	532.215
Cr 267.716	5174.46	5216.03	5184.01
Cu 324.754	5192.82	5267.02	5290.45
Fe 271.441	6345.20	6477.27	6480.39
K 766.491	9898.11	9936.99	9972.80
Mg 279.078	5221.53	5269.89	5275.04
Mn 257.610	5346.84	5417.92	5406.49
Mo 202.032	490.147	494.995	494.770
Na 330.237	7660.89	7807.87	7665.92
Ni 231.604	2661.28	2675.34	2679.34
Pb 220.353	508.594	508.892	512.576
Sb 206.834	931.494	952.505	943.910
Se 196.026	5185.48	5218.69	5242.49
Sn 189.925	4982.97	5091.97	5034.75
Sr 216.596	2525.00	2549.11	2534.71
Ti 334.941	485.823	491.052	489.545
Tl 190.794	5022.37	5057.85	5043.67
V 292.401	4968.80	5029.64	5033.02
Zn 206.200	2726.29	2753.99	2751.58

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	493.639	ppb	3.6106	0.7	37152.4	98.72781
Al 308.215	5058.04	ppb	33.1567	0.7	11101.4	101.16085
As 188.980	503.504	ppb	0.1518	0.0	296.749	100.70084
B 249.678	536.508	ppb	5.5204	1.0	6391.89	21.46032Q
Ba 389.178	4979.72	ppb	26.7082	0.5	106880	99.59446
Be 313.042	531.767	ppb	3.1607	0.6	925116	106.35342
Ca 370.602	5117	ppb	27.58	0.5	13830	102.33310
Cd 226.502	528.538	ppb	3.6882	0.7	17978.1	105.70753
Co 228.615	529.694	ppb	3.9747	0.8	5281.83	105.93888
Cr 267.716	5191.50	ppb	21.7728	0.4	160103	103.82994
Cu 324.754	5250.10	ppb	50.9681	1.0	273103	105.00193
Fe 271.441	6434.29	ppb	77.1704	1.2	10752.1	128.68575Q
K 766.491	9935.97	ppb	37.3567	0.4	315903	99.35966
Mg 279.078	5255.48	ppb	29.5166	0.6	10436.7	105.10969
Mn 257.610	5390.42	ppb	38.1695	0.7	1248835	107.80835
Mo 202.032	493.304	ppb	2.7366	0.6	3513.31	98.66084
Na 330.237	7711.56	ppb	83.4492	1.1	369.551	102.82079
Ni 231.604	2671.98	ppb	9.4845	0.4	6858.37	106.87936
Pb 220.353	510.021	ppb	2.2181	0.4	897.118	102.00414
Sb 206.834	942.636	ppb	10.5634	1.1	974.865	94.26363
Se 196.026	5215.55	ppb	28.6341	0.5	2425.45	104.31110
Sn 189.925	5036.56	ppb	54.5238	1.1	3657.31	100.73123
Sr 216.596	2536.27	ppb	12.1327	0.5	24318.2	101.45090
Ti 334.941	488.806	ppb	2.6915	0.6	124791	97.76127
Tl 190.794	5041.30	ppb	17.8576	0.4	4826.68	100.82594
V 292.401	5010.48	ppb	36.1416	0.7	132143	100.20966
Zn 206.200	2743.95	ppb	15.3439	0.6	3519.52	109.75816

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

Cont Calib Blank (CCB) 4/18/2013, 6:38:29 AM Rack 4, Tube 14

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0760u	-1.2049u	-0.5369u
Al 308.215	5.8255	5.1583	12.5814
As 188.980	2.5405	-4.6236u	-1.5387u
B 249.678	4.1166	2.8062	1.2215
Ba 389.178	0.0906	-0.3041u	0.9876
Be 313.042	-0.4467u	-0.4108u	-0.3792u
Ca 370.602	2.923	7.927	5.483
Cd 226.502	-0.3526u	-0.4190u	-0.1462u
Co 228.615	-0.0391u	-0.8438u	-0.3449u
Cr 267.716	-0.2931u	0.1863	0.7808
Cu 324.754	1.0828	0.6517	1.1616
Fe 271.441	25.3526	37.3141	69.2286
K 766.491	-3.7796u	-2.8537u	-1.9481u
Mg 279.078	6.3430	0.9257	6.8322
Mn 257.610	1.2066	2.1414	3.5293
Mo 202.032	-0.1742u	0.0443	-0.1267u
Na 330.237	38.8138	-17.5846u	-34.4498u
Ni 231.604	-0.9650u	0.9610	0.6630
Pb 220.353	3.0940	3.6733	6.2682
Sb 206.834	3.1318	-0.0609u	2.8849
Se 196.026	7.9165	3.4606	-1.0803u
Sn 189.925	-0.4049u	-6.2180u	-0.1680u
Sr 216.596	-2.7143u	-1.6165u	-0.7851u
Ti 334.941	-0.2465u	-0.1366u	-0.0472u
Tl 190.794	1.8899	2.7838	-0.6828u
V 292.401	0.4350	0.5672	0.5469
Zn 206.200	9.0721	8.5844	9.2434

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.9393	ppb	0.3544	37.7	-45.4558	-0.93927
Al 308.215	7.8551	ppb	4.1067	52.3	-6.8918	7.85508
As 188.980	-1.2073	ppb	3.5935	297.7	-10.3350	-1.20726
B 249.678	2.7147	ppb	1.4497	53.4	224.158	2.71473
Ba 389.178	0.2581	ppb	0.6619	256.5	26.8511	0.25806
Be 313.042	-0.4122	ppb	0.0338	8.2	-105.640	-0.41221
Ca 370.602	5.445	ppb	2.502	46.0	29.09	5.44465
Cd 226.502	-0.3060	ppb	0.1423	46.5	33.0260	-0.30595
Co 228.615	-0.4093	ppb	0.4062	99.2	-5.9131	-0.40927
Cr 267.716	0.2247	ppb	0.5380	239.4	16.2842	0.22469
Cu 324.754	0.9654	ppb	0.2745	28.4	261.029	0.96538
Fe 271.441	43.9651	ppb	22.6815	51.6	186.145	43.96513Z
K 766.491	-2.8605	ppb	0.9158	32.0	378.893	-2.86050
Mg 279.078	4.7003	ppb	3.2780	69.7	43.9633	4.70028
Mn 257.610	2.2924	ppb	1.1687	51.0	958.690	2.29243
Mo 202.032	-0.0855	ppb	0.1149	134.3	20.8745	-0.08555
Na 330.237	-4.4069	ppb	38.3683	870.6	55.1920	-4.40689
Ni 231.604	0.2197	ppb	1.0367	471.9	-3.9928	0.21969
Pb 220.353	4.3452	ppb	1.6904	38.9	35.3263	4.34518
Sb 206.834	1.9853	ppb	1.7763	89.5	-1.0156	1.98528
Se 196.026	3.4322	ppb	4.4985	131.1	11.9779	3.43224
Sn 189.925	-2.2636	ppb	3.4266	151.4	-6.7574	-2.26362
Sr 216.596	-1.7053	ppb	0.9676	56.7	32.3689	-1.70530
Ti 334.941	-0.1434	ppb	0.0998	69.6	52.6538	-0.14341
Tl 190.794	1.3303	ppb	1.7998	135.3	-11.1259	1.33029
V 292.401	0.5164	ppb	0.0712	13.8	29.9447	0.51641
Zn 206.200	8.9666	ppb	0.3419	3.8	15.5220	8.96664

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89328-a-33-a (Samp) 4/18/2013, 6:44:07 AM Rack 4, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	4.6480	4.9480	4.8152
Al 308.215	143608	143618	142119
As 188.980	266.251	269.034	266.730
B 249.678	14.4935u	17.2432u	15.4375u
Ba 389.178	2918.48	2916.07	2910.39
Be 313.042	16.4135	16.4035	16.3604
Ca 370.602	92004	91860	91671
Cd 226.502	24.0899	24.3524	24.8232
Co 228.615	158.114	157.214	155.778
Cr 267.716	604.032	603.145	598.503
Cu 324.754	497.897	501.529	498.520
Fe 271.441	516540	516410	513666
K 766.491	13558.1	13586.2	13586.3
Mg 279.078	38902.2	38875.8	38840.6
Mn 257.610	17971.6	17933.4	17924.8
Mo 202.032	16.6070	16.1543	15.7688
Na 330.237	151.011u	535.882u	556.065u
Ni 231.604	219.337	220.895	220.336
Pb 220.353	2890.12	2897.66	2900.07
Sb 206.834	10.8167	2.0956	12.6380
Se 196.026	6.7079	1.2330	3.3094
Sn 189.925	102.141	106.017	107.676
Sr 216.596	304.466	304.313	301.103
Ti 334.941	1118.76	1119.29	1114.05
Tl 190.794	21.7261u	14.3920u	27.6459u
V 292.401	707.192	705.465	705.577
Zn 206.200	5509.15	5494.10	5502.34

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	4.8037	ppb	0.1504	3.1	458.041
Al 308.215	143115	ppb	862.976	0.6	315026
As 188.980	267.338	ppb	1.4876	0.6	148.725
B 249.678	15.7247	ppb	1.3972	8.9	-218.411
Ba 389.178	2914.98	ppb	4.1521	0.1	63323.6
Be 313.042	16.3924	ppb	0.0282	0.2	29116.8
Ca 370.602	91845	ppb	167.0	0.2	216230
Cd 226.502	24.4218	ppb	0.3715	1.5	2007.87
Co 228.615	157.035	ppb	1.1784	0.8	1573.67
Cr 267.716	601.893	ppb	2.9693	0.5	18697.9
Cu 324.754	499.315	ppb	1.9419	0.4	26319.3
Fe 271.441	515539	ppb	1622.84	0.3	842496
K 766.491	13576.8	ppb	16.2473	0.1	431488
Mg 279.078	38872.9	ppb	30.9377	0.1	77359.4
Mn 257.610	17943.3	ppb	24.8736	0.1	4157519
Mo 202.032	16.1767	ppb	0.4195	2.6	109.777
Na 330.237	414.320	ppb	228.255	55.1	-99.4063
Ni 231.604	220.189	ppb	0.7892	0.4	571.469
Pb 220.353	2895.95	ppb	5.1874	0.2	4965.47
Sb 206.834	8.5168	ppb	5.6349	66.2	22.8153
Se 196.026	3.7501	ppb	2.7639	73.7	15.8104
Sn 189.925	105.278	ppb	2.8409	2.7	71.4657
Sr 216.596	303.294	ppb	1.8989	0.6	3149.17
Ti 334.941	1117.37	ppb	2.8813	0.3	285316
Tl 190.794	21.2547	ppb	6.6395	31.2	-42.2295
V 292.401	706.078	ppb	0.9659	0.1	18669.9
Zn 206.200	5501.86	ppb	7.5352	0.1	45078.21

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

680-89328-a-34-a (Samp) 4/18/2013, 6:49:44 AM Rack 4, Tube 16

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-3.2857u	-2.4889u	-2.5726u
Al 308.215	128112	128180	127189
As 188.980	312.686	316.795	309.712
B 249.678	0.6022u	0.0087u	0.3560u
Ba 389.178	4959.97	4961.27	4960.84
Be 313.042	17.8665	17.9137	17.8663
Ca 370.602	146353	146220	145977
Cd 226.502	46.4538	45.8434	46.5451
Co 228.615	230.221	228.833	229.009
Cr 267.716	870.254	870.072	864.996
Cu 324.754	1371.77	1372.08	1358.07
Fe 271.441	626833	628328	628572
K 766.491	11372.4	11394.9	11382.6
Mg 279.078	14439.6	14456.4	14426.2
Mn 257.610	27957.9	27836.8	28132.9
Mo 202.032	24.0250	23.3296	23.0091
Na 330.237	-1166.44u	-1079.49u	-1221.61u
Ni 231.604	225.552	226.154	227.406
Pb 220.353	4140.62	4137.16	4123.68
Sb 206.834	57.8433	71.8539	61.3776
Se 196.026	6.5726	4.1273	-12.7445
Sn 189.925	95.6680	111.147	98.7233
Sr 216.596	433.111	433.135	430.359
Ti 334.941	1784.96	1787.71	1780.05
Tl 190.794	44.6350u	43.1975u	35.8448u
V 292.401	624.698	626.074	624.249
Zn 206.200	13353.1	13350.8	13338.6

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.7824	ppb	0.4379	15.7	-73.8011
Al 308.215	127827	ppb	553.730	0.4	281371
As 188.980	313.064	ppb	3.5567	1.1	175.897
B 249.678	0.3223	ppb	0.2982	92.5	-525.337
Ba 389.178	4960.70	ppb	0.6628	0.0	107296
Be 313.042	17.8822	ppb	0.0273	0.2	31721.5
Ca 370.602	146183	ppb	190.9	0.1	357616
Cd 226.502	46.2808	ppb	0.3815	0.8	2995.33
Co 228.615	229.354	ppb	0.7557	0.3	2306.08
Cr 267.716	868.441	ppb	2.9848	0.3	26964.3
Cu 324.754	1367.31	ppb	7.9992	0.6	71477.7
Fe 271.441	627911	ppb	941.350	0.1	1026115
K 766.491	11383.3	ppb	11.3032	0.1	361850
Mg 279.078	14440.7	ppb	15.1052	0.1	28490.2
Mn 257.610	27975.9	ppb	148.885	0.5	6481118
Mo 202.032	23.4546	ppb	0.5193	2.2	156.109
Na 330.237	-1155.85	ppb	71.6524	6.2	-250.235
Ni 231.604	226.371	ppb	0.9461	0.4	589.611
Pb 220.353	4133.82	ppb	8.9498	0.2	7076.95
Sb 206.834	63.6916	ppb	7.2863	11.4	82.0990
Se 196.026	-0.6815	ppb	10.5181	1543.3	15.9848
Sn 189.925	101.846	ppb	8.1987	8.1	68.9879
Sr 216.596	432.202	ppb	1.5955	0.4	4430.80
Ti 334.941	1784.24	ppb	3.8807	0.2	455326
Tl 190.794	41.2258	ppb	4.7152	11.4	-42.7183
V 292.401	625.007	ppb	0.9508	0.2	16518.7
Zn 206.200	13347.5	ppb	7.7600	0.1	17167.6

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

680-89328-a-35-a (Samp) 4/18/2013, 6:55:22 AM Rack 4, Tube 17

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	3.5572	3.4234	2.5153
Al 308.215	78071.7	77960.9	77284.9
As 188.980	430.894	446.216	428.273
B 249.678	163.067	162.974	165.087
Ba 389.178	2429.12	2428.27	2430.38
Be 313.042	9.1582	9.1628	9.1384
Ca 370.602	165440	165235	164927
Cd 226.502	24.5838	24.5046	25.1297
Co 228.615	98.3055	98.7921	98.9837
Cr 267.716	268.690	268.256	266.138
Cu 324.754	1294.48	1301.07	1282.80
Fe 271.441	524298	523766	525226
K 766.491	13421.9	13441.4	13413.2
Mg 279.078	71334.8	71276.7	71280.7
Mn 257.610	9520.14	9500.66	9534.92
Mo 202.032	20.2981	22.0077	21.9942
Na 330.237	2565.61u	2886.50u	2752.18u
Ni 231.604	184.157	181.373	185.976
Pb 220.353	3350.95	3335.05	3348.62
Sb 206.834	47.0830	50.0101	51.7727
Se 196.026	-5.6118u	13.0311	-9.5811u
Sn 189.925	2235.60	2219.79	2200.42
Sr 216.596	397.987	399.459	397.377
Ti 334.941	792.844	793.080	789.106
Tl 190.794	10.6415u	12.2124u	10.0946u
V 292.401	263.116	261.973	262.139
Zn 206.200	8278.43	8267.17	8301.99

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	3.1653	ppb	0.5669	17.9	287.831
Al 308.215	77772.5	ppb	425.882	0.5	171184
As 188.980	435.127	ppb	9.6915	2.2	251.404
B 249.678	163.709	ppb	1.1941	0.7	1482.89
Ba 389.178	2429.26	ppb	1.0593	0.0	52993.4
Be 313.042	9.1531	ppb	0.0129	0.1	16561.5
Ca 370.602	165201	ppb	258.0	0.2	416274
Cd 226.502	24.7394	ppb	0.3404	1.4	2039.39
Co 228.615	98.6938	ppb	0.3496	0.4	982.567
Cr 267.716	267.695	ppb	1.3655	0.5	8370.84
Cu 324.754	1292.78	ppb	9.2547	0.7	67575.8
Fe 271.441	524430	ppb	738.793	0.1	857012
K 766.491	13425.5	ppb	14.4091	0.1	426683
Mg 279.078	71297.4	ppb	32.4370	0.0	142190
Mn 257.610	9518.57	ppb	17.1809	0.2	2206672
Mo 202.032	21.4334	ppb	0.9832	4.6	147.453
Na 330.237	2734.77	ppb	161.150	5.9	-15.9635
Ni 231.604	183.836	ppb	2.3185	1.3	478.263
Pb 220.353	3344.88	ppb	8.5854	0.3	5729.27
Sb 206.834	49.6219	ppb	2.3688	4.8	60.4950
Se 196.026	-0.7206	ppb	12.0735	1675.5	11.7841
Sn 189.925	2218.60	ppb	17.6228	0.8	1608.23
Sr 216.596	398.274	ppb	1.0704	0.3	4070.73
Ti 334.941	791.677	ppb	2.2296	0.3	202373
Tl 190.794	10.9828	ppb	1.0994	10.0	-40.9374
V 292.401	262.410	ppb	0.6174	0.2	6949.79
Zn 206.200	8282.53	ppb	17.7677	0.2	10655.2

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89282-a-1-a (Samp) 4/18/2013, 7:01:00 AM Rack 4, Tube 18

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	9.0283	9.0459	8.8254
Al 308.215	15666.1	15748.9	15480.5
As 188.980	7.7910	3.2209	0.1527u
B 249.678	46.0604	47.0817	46.9672
Ba 389.178	626.538	630.284	626.908
Be 313.042	-0.1210u	-0.1330u	-0.1281u
Ca 370.602	13675	13803	13686
Cd 226.502	162.638	163.337	162.686
Co 228.615	5.3155	5.8156	6.2835
Cr 267.716	283.599	284.732	280.562
Cu 324.754	217.384	216.204	218.017
Fe 271.441	21291.6	21438.8	21425.8
K 766.491	3552.99	3586.00	3562.78
Mg 279.078	2958.12	2987.30	2982.83
Mn 257.610	9323.85	9375.96	9296.68
Mo 202.032	44.1527	44.7123	43.7813
Na 330.237	2569.31	2645.33	2757.47
Ni 231.604	48.9002	51.2284	49.2454
Pb 220.353	29.9516	33.2062	29.2546
Sb 206.834	-0.7152	-4.7307u	1.3286
Se 196.026	4.6135	2.9095	2.0613
Sn 189.925	27.5691	23.1723	24.8797
Sr 216.596	111.156	113.370	112.640
Ti 334.941	231.752	233.063	230.828
Tl 190.794	12.2524u	16.9035	15.8389
V 292.401	29.4249	29.1300	29.0514
Zn 206.200	431.647	438.844	436.862

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	8.9665	ppb	0.1225	1.4	738.644
Al 308.215	15631.8	ppb	137.447	0.9	34389.8
As 188.980	3.7216	ppb	3.8437	103.3	-7.4414
B 249.678	46.7031	ppb	0.5595	1.2	708.500
Ba 389.178	627.910	ppb	2.0644	0.3	13526.5
Be 313.042	-0.1273	ppb	0.0060	4.8	385.007
Ca 370.602	13721	ppb	70.97	0.5	36375
Cd 226.502	162.887	ppb	0.3906	0.2	5613.24
Co 228.615	5.8049	ppb	0.4841	8.3	60.1423
Cr 267.716	282.964	ppb	2.1566	0.8	8764.64
Cu 324.754	217.202	ppb	0.9197	0.4	11509.7
Fe 271.441	21385.4	ppb	81.4741	0.4	35058.3
K 766.491	3567.26	ppb	16.9527	0.5	113718
Mg 279.078	2976.08	ppb	15.7200	0.5	5829.33
Mn 257.610	9332.16	ppb	40.2879	0.4	2161724
Mo 202.032	44.2154	ppb	0.4687	1.1	334.218
Na 330.237	2657.37	ppb	94.6589	3.6	161.625
Ni 231.604	49.7913	ppb	1.2564	2.5	123.766
Pb 220.353	30.8041	ppb	2.1092	6.8	82.1913
Sb 206.834	-1.3724	ppb	3.0827	224.6	-1.6517
Se 196.026	3.1948	ppb	1.2998	40.7	14.0104
Sn 189.925	25.2071	ppb	2.2166	8.8	13.2239
Sr 216.596	112.388	ppb	1.1283	1.0	1133.43
Ti 334.941	231.881	ppb	1.1231	0.5	59250.0
Tl 190.794	14.9983	ppb	2.4368	16.2	-12.2038
V 292.401	29.2021	ppb	0.1969	0.7	766.926
Zn 206.200	435.784	ppb	3.7177	0.8	563.715

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

mb 680-273045/23-a (Samp) 4/18/2013, 7:06:38 AM Rack 4, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5995u	-1.2540u	-0.8874u
Al 308.215	4.8139	4.2477	5.1418
As 188.980	-5.0532u	-2.3940u	2.0742
B 249.678	-5.3171u	-5.9783u	-6.0434u
Ba 389.178	-1.6135u	-1.3907u	-1.6433u
Be 313.042	-0.5541u	-0.5426u	-0.5368u
Ca 370.602	15.45	13.44	17.49
Cd 226.502	-0.4950u	-0.4404u	-0.3484u
Co 228.615	-0.4994u	-0.2191u	-0.1704u
Cr 267.716	-0.9416u	-0.7521u	-0.9004u
Cu 324.754	-1.1228u	-1.2480u	-0.2922u
Fe 271.441	42.2515	21.3361	21.8230
K 766.491	2.8013	2.0183	1.8908
Mg 279.078	6.5488	10.5484	8.4066
Mn 257.610	0.5419	0.4981	0.4672
Mo 202.032	-0.6096u	-0.8992u	-0.4285u
Na 330.237	196.105	-9.5830u	-141.910u
Ni 231.604	-0.0361u	0.9789	-0.3401u
Pb 220.353	1.2577	1.9928	0.2474
Sb 206.834	-6.4606u	-0.1510u	-5.0439u
Se 196.026	-3.2469u	-11.5729u	-3.3417u
Sn 189.925	7.0852	6.1668	11.1367
Sr 216.596	-3.0408u	-1.6200u	-2.1986u
Ti 334.941	-0.0700u	-0.0413u	-0.0843u
Tl 190.794	-3.8317u	-6.2285u	-4.5813u
V 292.401	-0.6234u	-1.0573u	-0.7139u
Zn 206.200	-1.8004u	0.0662	-1.4429u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9137	ppb	0.3280	35.9	-43.5110
Al 308.215	4.7345	ppb	0.4523	9.6	-13.7887
As 188.980	-1.7910	ppb	3.6018	201.1	-10.6899
B 249.678	-5.7796	ppb	0.4019	7.0	125.908
Ba 389.178	-1.5492	ppb	0.1380	8.9	-11.9343
Be 313.042	-0.5445	ppb	0.0088	1.6	-335.550
Ca 370.602	15.46	ppb	2.028	13.1	57.49
Cd 226.502	-0.4280	ppb	0.0741	17.3	28.8564
Co 228.615	-0.2963	ppb	0.1775	59.9	-4.7767
Cr 267.716	-0.8647	ppb	0.0997	11.5	-17.3105
Cu 324.754	-0.8877	ppb	0.5195	58.5	164.685
Fe 271.441	28.4702	ppb	11.9374	41.9	160.785
K 766.491	2.2368	ppb	0.4930	22.0	540.716
Mg 279.078	8.5013	ppb	2.0015	23.5	51.5714
Mn 257.610	0.5024	ppb	0.0375	7.5	544.123
Mo 202.032	-0.6457	ppb	0.2374	36.8	16.9013
Na 330.237	14.8704	ppb	170.329	1145.4	56.0995
Ni 231.604	0.2009	ppb	0.6907	343.8	-4.0414
Pb 220.353	1.1660	ppb	0.8763	75.2	29.9090
Sb 206.834	-3.8852	ppb	3.3105	85.2	-6.7933
Se 196.026	-6.0538	ppb	4.7799	79.0	7.5872
Sn 189.925	8.1296	ppb	2.6444	32.5	0.8002
Sr 216.596	-2.2865	ppb	0.7145	31.2	26.8122
Ti 334.941	-0.0652	ppb	0.0219	33.6	72.5993
Tl 190.794	-4.8805	ppb	1.2261	25.1	-17.0914
V 292.401	-0.7982	ppb	0.2289	28.7	-4.6332
Zn 206.200	-1.0590	ppb	0.9908	93.6	-2.6308

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

190-451-a-1-a (Samp) 4/18/2013, 7:12:16 AM Rack 4, Tube 20

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0770u	-0.7996u	-0.5731u
Al 308.215	182.471	178.444	180.648
As 188.980	4.3204	1.2267	-1.1925u
B 249.678	-6.9555u	-6.6374u	-6.8128u
Ba 389.178	-2.4488u	-2.0457u	-1.8235u
Be 313.042	-0.5552u	-0.5521u	-0.5542u
Ca 370.602	116.4	119.1	118.6
Cd 226.502	-0.2154u	0.0704	-0.1568u
Co 228.615	-1.0056u	-0.5650u	-0.5513u
Cr 267.716	-0.1276u	-0.4850u	-0.2271u
Cu 324.754	43.3900	43.5357	45.1747
Fe 271.441	96.1867	93.9471	99.5595
K 766.491	15.0782	14.7269	14.6199
Mg 279.078	28.5271	34.1586	33.3691
Mn 257.610	1.4062	1.3900	1.4022
Mo 202.032	-0.9029u	-0.5632u	-0.3834u
Na 330.237	194.439	181.546	169.760
Ni 231.604	-1.1358u	-0.1701u	0.2317
Pb 220.353	5.2821	3.8706	6.1272
Sb 206.834	-2.7972u	0.5852	-2.6204u
Se 196.026	8.7831	-3.5355u	5.9541
Sn 189.925	24.9290	25.1127	22.0671
Sr 216.596	-2.3618u	-2.0638u	-1.8911u
Ti 334.941	1.3175	1.3236	1.4171
Tl 190.794	-6.2282u	-2.8808u	-6.1416u
V 292.401	-1.0193u	-1.1423u	-1.2668u
Zn 206.200	69.8232	66.8370	69.1334

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8166	ppb	0.2523	30.9	-36.2174
Al 308.215	180.521	ppb	2.0164	1.1	373.184
As 188.980	1.4515	ppb	2.7633	190.4	-8.7158
B 249.678	-6.8019	ppb	0.1593	2.3	114.005
Ba 389.178	-2.1060	ppb	0.3170	15.1	-23.7353
Be 313.042	-0.5538	ppb	0.0016	0.3	-351.695
Ca 370.602	118.0	ppb	1.436	1.2	334.0
Cd 226.502	-0.1006	ppb	0.1510	150.0	40.1022
Co 228.615	-0.7073	ppb	0.2584	36.5	-8.8403
Cr 267.716	-0.2799	ppb	0.1844	65.9	0.7427
Cu 324.754	44.0335	ppb	0.9910	2.3	2499.95
Fe 271.441	96.5644	ppb	2.8252	2.9	272.060
K 766.491	14.8084	ppb	0.2397	1.6	939.819
Mg 279.078	32.0183	ppb	3.0491	9.5	98.4354
Mn 257.610	1.3995	ppb	0.0085	0.6	752.195
Mo 202.032	-0.6165	ppb	0.2638	42.8	17.1065
Na 330.237	181.915	ppb	12.3435	6.8	62.9173
Ni 231.604	-0.3581	ppb	0.7029	196.3	-5.4756
Pb 220.353	5.0933	ppb	1.1401	22.4	36.6002
Sb 206.834	-1.6108	ppb	1.9038	118.2	-4.5449
Se 196.026	3.7339	ppb	6.4525	172.8	12.1172
Sn 189.925	24.0363	ppb	1.7078	7.1	12.3671
Sr 216.596	-2.1055	ppb	0.2381	11.3	28.5944
Ti 334.941	1.3528	ppb	0.0558	4.1	434.384
Tl 190.794	-5.0836	ppb	1.9081	37.5	-17.2912
V 292.401	-1.1428	ppb	0.1237	10.8	-13.7298
Zn 206.200	68.5979	ppb	1.5635	2.3	69.2133

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

mb 680-273342/1-a (Samp) **4/18/2013, 7:17:54 AM** **Rack 4, Tube 21**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.0653u	-0.8970u	-1.0042u
Al 308.215	7.0490	0.9371	7.5480
As 188.980	-3.0595u	-5.2136u	-2.2764u
B 249.678	-8.4901u	-8.2349u	-8.5190u
Ba 389.178	-1.7530u	-1.9098u	-1.4679u
Be 313.042	-0.5456u	-0.5454u	-0.5357u
Ca 370.602	8.585	8.272	9.576
Cd 226.502	-0.4357u	0.0425	-0.3335u
Co 228.615	-0.1995u	-0.5769u	0.4347
Cr 267.716	-0.8659u	-1.1576u	-0.9360u
Cu 324.754	-0.7020u	-0.2391u	-1.3642u
Fe 271.441	9.6586	12.8513	11.9040
K 766.491	0.3151	0.0094	1.2496
Mg 279.078	13.3805	8.8380	7.2314
Mn 257.610	-1.4113u	-1.3225u	-1.1180u
Mo 202.032	-1.2232u	-0.8743u	-1.2210u
Na 330.237	-129.764u	32.6736	42.3004
Ni 231.604	-0.5334u	-1.3659u	-0.9200u
Pb 220.353	1.2485	6.8265	4.5535
Sb 206.834	1.5258	-2.2554u	-2.1734u
Se 196.026	4.9390	1.2755	6.3707
Sn 189.925	2.2724	8.4044	5.5234
Sr 216.596	-2.1668u	-2.4105u	-2.5404u
Ti 334.941	-0.2395u	-0.2138u	-0.2574u
Tl 190.794	-1.0725u	-3.8057u	-7.0707u
V 292.401	-1.0307u	-1.3226u	-1.1464u
Zn 206.200	3.1220	2.8467	2.2518

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9888	ppb	0.0852	8.6	-49.1711
Al 308.215	5.1780	ppb	3.6812	71.1	-12.8260
As 188.980	-3.5165	ppb	1.5210	43.3	-11.7400
B 249.678	-8.4147	ppb	0.1564	1.9	95.4459
Ba 389.178	-1.7102	ppb	0.2240	13.1	-15.4125
Be 313.042	-0.5423	ppb	0.0057	1.0	-331.588
Ca 370.602	8.811	ppb	0.6806	7.7	40.49
Cd 226.502	-0.2422	ppb	0.2518	104.0	35.1142
Co 228.615	-0.1139	ppb	0.5112	448.8	-2.9523
Cr 267.716	-0.9865	ppb	0.1522	15.4	-21.0740
Cu 324.754	-0.7684	ppb	0.5655	73.6	170.874
Fe 271.441	11.4713	ppb	1.6397	14.3	133.082
K 766.491	0.5247	ppb	0.6461	123.1	486.361
Mg 279.078	9.8166	ppb	3.1892	32.5	54.2197
Mn 257.610	-1.2839	ppb	0.1504	11.7	130.385
Mo 202.032	-1.1062	ppb	0.2008	18.2	13.6349
Na 330.237	-18.2633	ppb	96.6824	529.4	54.6363
Ni 231.604	-0.9398	ppb	0.4166	44.3	-6.9715
Pb 220.353	4.2095	ppb	2.8049	66.6	35.0957
Sb 206.834	-0.9677	ppb	2.1598	223.2	-3.9202
Se 196.026	4.1950	ppb	2.6278	62.6	12.3301
Sn 189.925	5.4001	ppb	3.0679	56.8	-1.1846
Sr 216.596	-2.3725	ppb	0.1896	8.0	26.0043
Ti 334.941	-0.2369	ppb	0.0219	9.2	28.8121
Tl 190.794	-3.9830	ppb	3.0030	75.4	-16.2253
V 292.401	-1.1665	ppb	0.1470	12.6	-14.3064
Zn 206.200	2.7402	ppb	0.4448	16.2	45.5174

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Ics 680-273342/2-a (Samp) 4/18/2013, 7:23:32 AM Rack 4, Tube 22

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	9.2764	8.5879	9.1572
Al 308.215	5162.09	5164.27	5164.78
As 188.980	104.861	110.551	113.330
B 249.678	200.593	204.554	204.437
Ba 389.178	99.0132	99.6781	100.309
Be 313.042	55.7123	56.0539	55.9729
Ca 370.602	4965	4989	4993
Cd 226.502	55.5494	55.4837	55.5875
Co 228.615	54.8282	54.7349	55.3478
Cr 267.716	108.545	107.645	108.046
Cu 324.754	108.906	110.129	108.621
Fe 271.441	5215.87	5257.57	5247.14
K 766.491	4948.56	4983.72	4975.06
Mg 279.078	5335.22	5366.44	5369.79
Mn 257.610	562.171	566.723	566.551
Mo 202.032	100.369	102.098	101.338
Na 330.237	5411.04	5803.37	5723.98
Ni 231.604	108.152	108.526	108.173
Pb 220.353	57.2203	54.9379	55.5258
Sb 206.834	45.4367	47.6708	52.2098
Se 196.026	101.805	112.706	108.883
Sn 189.925	209.456	215.591	212.397
Sr 216.596	103.121	102.352	103.367
Ti 334.941	99.6645	99.4379	99.9370
Tl 190.794	39.4591	40.9020	37.8000
V 292.401	103.248	104.039	103.936
Zn 206.200	114.501	114.596	114.746

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	9.0071	ppb	0.3680	4.1	702.259
Al 308.215	5163.71	ppb	1.4269	0.0	11347.6
As 188.980	109.581	ppb	4.3171	3.9	57.0695
B 249.678	203.195	ppb	2.2539	1.1	2537.43
Ba 389.178	99.6668	ppb	0.6480	0.7	2179.75
Be 313.042	55.9130	ppb	0.1785	0.3	97827.1
Ca 370.602	4982	ppb	14.88	0.3	13330
Cd 226.502	55.5402	ppb	0.0525	0.1	1938.03
Co 228.615	54.9703	ppb	0.3302	0.6	544.997
Cr 267.716	108.079	ppb	0.4513	0.4	3344.20
Cu 324.754	109.219	ppb	0.8012	0.7	5892.03
Fe 271.441	5240.20	ppb	21.7002	0.4	8685.74
K 766.491	4969.11	ppb	18.3206	0.4	158222
Mg 279.078	5357.15	ppb	19.0665	0.4	10712.6
Mn 257.610	565.149	ppb	2.5797	0.5	131355
Mo 202.032	101.269	ppb	0.8666	0.9	739.820
Na 330.237	5646.13	ppb	207.425	3.7	298.962
Ni 231.604	108.284	ppb	0.2099	0.2	273.669
Pb 220.353	55.8947	ppb	1.1850	2.1	123.054
Sb 206.834	48.4391	ppb	3.4513	7.1	45.0264
Se 196.026	107.798	ppb	5.5308	5.1	60.4053
Sn 189.925	212.481	ppb	3.0682	1.4	149.401
Sr 216.596	102.947	ppb	0.5298	0.5	1033.48
Ti 334.941	99.6798	ppb	0.2499	0.3	25537.0
Tl 190.794	39.3870	ppb	1.5523	3.9	24.4312
V 292.401	103.741	ppb	0.4302	0.4	2736.24
Zn 206.200	114.614	ppb	0.1236	0.1	151.114

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

ics 680-273342/3-a (Samp) 4/18/2013, 7:29:10 AM Rack 4, Tube 23
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	204.304	203.863	202.593
Al 308.215	2173.24	2154.06	2165.37
As 188.980	232.459	223.569	233.258
B 249.678	408.581	413.261	414.968
Ba 389.178	196.154	194.226	195.389
Be 313.042	220.078	220.123	219.469
Ca 370.602	19794	19750	19711
Cd 226.502	213.083	214.520	213.996
Co 228.615	211.630	211.699	212.758
Cr 267.716	213.010	211.349	210.937
Cu 324.754	214.530	215.188	214.274
Fe 271.441	21290.7	21318.4	21302.0
K 766.491	19949.6	19993.8	19833.3
Mg 279.078	21104.3	21145.1	21078.9
Mn 257.610	2211.92	2218.41	2215.48
Mo 202.032	201.385	201.408	200.432
Na 330.237	19240.2	19062.5	18960.9
Ni 231.604	214.024	210.904	214.743
Pb 220.353	199.665	207.264	200.140
Sb 206.834	186.883	186.979	191.802
Se 196.026	216.220	201.145	216.935
Sn 189.925	214.620	213.228	206.391
Sr 216.596	217.005	216.188	215.635
Ti 334.941	197.302	197.029	196.668
Tl 190.794	42.0100	44.5226	39.2009
V 292.401	205.751	206.816	205.234
Zn 206.200	214.875	215.459	217.943

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	203.587	ppb	0.8883	0.4	15363.1
Al 308.215	2164.22	ppb	9.6394	0.4	4748.87
As 188.980	229.762	ppb	5.3784	2.3	130.168
B 249.678	412.270	ppb	3.3069	0.8	4937.63
Ba 389.178	195.256	ppb	0.9708	0.5	4290.01
Be 313.042	219.890	ppb	0.3650	0.2	382967
Ca 370.602	19752	ppb	41.30	0.2	52723
Cd 226.502	213.867	ppb	0.7272	0.3	7341.74
Co 228.615	212.029	ppb	0.6321	0.3	2108.30
Cr 267.716	211.766	ppb	1.0974	0.5	6547.68
Cu 324.754	214.664	ppb	0.4714	0.2	11380.4
Fe 271.441	21303.7	ppb	13.9623	0.1	34957.0
K 766.491	19925.6	ppb	82.9003	0.4	633038
Mg 279.078	21109.5	ppb	33.3974	0.2	42115.7
Mn 257.610	2215.27	ppb	3.2539	0.1	513640
Mo 202.032	201.075	ppb	0.5573	0.3	1447.25
Na 330.237	19087.9	ppb	141.391	0.7	879.799
Ni 231.604	213.224	ppb	2.0412	1.0	543.523
Pb 220.353	202.356	ppb	4.2564	2.1	372.793
Sb 206.834	188.555	ppb	2.8127	1.5	184.275
Se 196.026	211.433	ppb	8.9173	4.2	108.737
Sn 189.925	211.413	ppb	4.4046	2.1	148.634
Sr 216.596	216.276	ppb	0.6890	0.3	2122.76
Ti 334.941	197.000	ppb	0.3184	0.2	50425.5
Tl 190.794	41.9112	ppb	2.6622	6.4	23.8263
V 292.401	205.934	ppb	0.8068	0.4	5415.91
Zn 206.200	216.092	ppb	1.6295	0.8	481.356

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89368-c-1-b (Samp) 4/18/2013, 7:34:47 AM Rack 4, Tube 24

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.5326u	-1.4275u	-0.7051u
Al 308.215	17473.2	17400.6	17258.2
As 188.980	-2.8956u	6.1913	-7.2262u
B 249.678	3.2470	3.0049	1.3917
Ba 389.178	48.1854	48.7706	48.5357
Be 313.042	-0.0214u	0.0845	0.0871
Ca 370.602	291.7	317.8	309.5
Cd 226.502	0.1933	-0.0070	0.0692
Co 228.615	0.6847	-0.0859	0.6151
Cr 267.716	20.5794	21.1055	20.9906
Cu 324.754	5.6844	6.3703	5.9011
Fe 271.441	2496.33	2558.92	2535.46
K 766.491	415.246	423.870	410.031
Mg 279.078	488.197	496.981	497.245
Mn 257.610	31.5291	35.1625	34.6541
Mo 202.032	1.6148	1.5691	2.0756
Na 330.237	29.7587u	527.877	196.608
Ni 231.604	2.9149	3.2462	3.3284
Pb 220.353	16.9242	13.9920	14.0222
Sb 206.834	-2.2939u	-2.3244u	4.2829
Se 196.026	1.9539	2.4487	6.2381
Sn 189.925	12.3082	10.4611	8.3213
Sr 216.596	51.5778	51.2424	51.7360
Ti 334.941	415.302	414.585	409.619
Tl 190.794	-1.0998u	0.5637	-1.2966u
V 292.401	28.1429	29.2086	28.0676
Zn 206.200	12.8747	13.1347	15.8264

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.2218	ppb	0.4505	36.9	-68.7510
Al 308.215	17377.3	ppb	109.369	0.6	38230.3
As 188.980	-1.3102	ppb	6.8478	522.7	-10.4204
B 249.678	2.5479	ppb	1.0086	39.6	219.370
Ba 389.178	48.4972	ppb	0.2945	0.6	1066.17
Be 313.042	0.0500	ppb	0.0619	123.7	698.530
Ca 370.602	306.3	ppb	13.35	4.4	747.4
Cd 226.502	0.0852	ppb	0.1011	118.7	51.7659
Co 228.615	0.4046	ppb	0.4263	105.4	11.5028
Cr 267.716	20.8918	ppb	0.2766	1.3	654.592
Cu 324.754	5.9853	ppb	0.3506	5.9	522.500
Fe 271.441	2530.23	ppb	31.6212	1.2	4249.08
K 766.491	416.382	ppb	6.9895	1.7	13688.4
Mg 279.078	494.141	ppb	5.1493	1.0	1015.56
Mn 257.610	33.7819	ppb	1.9675	5.8	8260.91
Mo 202.032	1.7532	ppb	0.2802	16.0	33.7518
Na 330.237	251.415	ppb	253.542	100.8	62.9362
Ni 231.604	3.1632	ppb	0.2189	6.9	3.6236
Pb 220.353	14.9794	ppb	1.6843	11.2	53.1076
Sb 206.834	-0.1118	ppb	3.8059	3403.5	-2.8323
Se 196.026	3.5469	ppb	2.3438	66.1	12.0360
Sn 189.925	10.3635	ppb	1.9953	19.3	2.4248
Sr 216.596	51.5187	ppb	0.2521	0.5	543.631
Ti 334.941	413.169	ppb	3.0951	0.7	105480
Tl 190.794	-0.6109	ppb	1.0220	167.3	-13.1439
V 292.401	28.4730	ppb	0.6382	2.2	774.113
Zn 206.200	13.9453	ppb	1.6343	11.7	21.8713

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Cont Calib Verif (CCV) 4/18/2013, 7:40:26 AM Rack 4, Tube 25

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	507.916	508.935	506.610
Al 308.215	5016.36	4975.41	5000.19
As 188.980	530.111	514.898	515.222
B 249.678	560.174	562.967	563.427
Ba 389.178	5061.70	5056.54	5042.46
Be 313.042	555.748	555.820	555.686
Ca 370.602	5080	5072	5065
Cd 226.502	545.616	546.307	545.904
Co 228.615	544.585	546.982	543.619
Cr 267.716	5383.39	5337.81	5353.49
Cu 324.754	5390.56	5378.80	5391.65
Fe 271.441	5293.80	5303.14	5285.99
K 766.491	10232.6	10204.3	10155.5
Mg 279.078	5416.71	5405.92	5400.85
Mn 257.610	5511.79	5508.22	5494.55
Mo 202.032	506.349	506.605	505.894
Na 330.237	8027.07	7788.62	7890.37
Ni 231.604	2760.25	2761.36	2759.03
Pb 220.353	518.825	520.426	517.442
Sb 206.834	975.562	976.403	975.448
Se 196.026	5442.53	5424.16	5443.10
Sn 189.925	5231.69	5215.99	5173.30
Sr 216.596	2614.03	2604.47	2608.94
Ti 334.941	502.198	500.037	498.859
Tl 190.794	5139.34	5156.98	5134.17
V 292.401	5152.99	5155.14	5144.25
Zn 206.200	2852.38	2850.88	2846.82

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	507.820	ppb	1.1658	0.2	38219.6	101.56404
Al 308.215	4997.32	ppb	20.6261	0.4	10967.4	99.94643
As 188.980	520.077	ppb	8.6913	1.7	306.845	104.01537
B 249.678	562.189	ppb	1.7607	0.3	6690.29	22.48758Q
Ba 389.178	5053.57	ppb	9.9619	0.2	108464	101.07135
Be 313.042	555.751	ppb	0.0669	0.0	966819	111.15025Q
Ca 370.602	5072	ppb	7.792	0.2	13793	101.44279
Cd 226.502	545.942	ppb	0.3470	0.1	18565.8	109.18840
Co 228.615	545.062	ppb	1.7316	0.3	5435.16	109.01241
Cr 267.716	5358.23	ppb	23.1546	0.4	165244	107.16457
Cu 324.754	5387.00	ppb	7.1284	0.1	280219	107.74006
Fe 271.441	5294.31	ppb	8.5849	0.2	8893.49	105.88622
K 766.491	10197.4	ppb	38.9798	0.4	324204	101.97448
Mg 279.078	5407.83	ppb	8.1011	0.1	10738.6	108.15652
Mn 257.610	5504.85	ppb	9.0968	0.2	1275334	110.09706Q
Mo 202.032	506.283	ppb	0.3603	0.1	3605.23	101.25654
Na 330.237	7902.02	ppb	119.651	1.5	377.414	105.36031
Ni 231.604	2760.21	ppb	1.1628	0.0	7084.95	110.40845Q
Pb 220.353	518.898	ppb	1.4932	0.3	912.246	103.77958
Sb 206.834	975.805	ppb	0.5215	0.1	1009.11	97.58046
Se 196.026	5436.60	ppb	10.7763	0.2	2527.78	108.73190
Sn 189.925	5206.99	ppb	30.2158	0.6	3781.24	104.13985
Sr 216.596	2609.15	ppb	4.7837	0.2	25015.0	104.36593
Ti 334.941	500.365	ppb	1.6934	0.3	127740	100.07292
Tl 190.794	5143.49	ppb	11.9588	0.2	4924.85	102.86987
V 292.401	5150.79	ppb	5.7681	0.1	135842	103.01586
Zn 206.200	2850.03	ppb	2.8759	0.1	2655.53	114.00119Q

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

Cont Calib Blank (CCB) 4/18/2013, 7:46:04 AM Rack 4, Tube 26
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6552u	-0.0395u	-0.1195u
Al 308.215	4.1732	12.1460	14.2325
As 188.980	0.2781	-2.6887u	-4.8868u
B 249.678	4.0516	3.3852	1.6620
Ba 389.178	1.2774	4.3662	4.2620
Be 313.042	-0.3134u	-0.0675u	-0.0316u
Ca 370.602	8.272	16.72	18.31
Cd 226.502	-0.0055u	0.0746	0.2569
Co 228.615	-0.0324u	-0.0397u	0.5413
Cr 267.716	1.0314	3.5573	3.6178
Cu 324.754	0.3277	3.9317	4.9628
Fe 271.441	9.3146	38.9783	35.0644
K 766.491	-0.3320u	7.8049	7.8056
Mg 279.078	7.6330	13.3394	17.7245
Mn 257.610	2.1562	5.7529	6.2067
Mo 202.032	0.2288	0.2811	0.4405
Na 330.237	28.5885	-106.457u	210.036
Ni 231.604	1.2114	2.4495	2.7076
Pb 220.353	2.0081	2.3464	5.1580
Sb 206.834	-0.2627u	3.0427	3.6589
Se 196.026	-7.2863u	3.4984	8.6560
Sn 189.925	-0.7469u	0.6628	-2.1899u
Sr 216.596	-0.9972u	-0.6845u	1.2300
Ti 334.941	-0.0968u	0.3518	0.3087
Tl 190.794	1.8343	5.0221	7.6935
V 292.401	1.5130	3.5965	4.0968
Zn 206.200	-1.6423u	-0.2550u	1.0684

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.2714	ppb	0.3348	123.3	4.8026	-0.27140
Al 308.215	10.1839	ppb	5.3089	52.1	-1.7611	10.18390
As 188.980	-2.4325	ppb	2.5920	106.6	-11.0806	-2.43248
B 249.678	3.0329	ppb	1.2332	40.7	227.860	3.03294
Ba 389.178	3.3019	ppb	1.7540	53.1	92.1489	3.30185
Be 313.042	-0.1375	ppb	0.1534	111.6	371.951	-0.13748
Ca 370.602	14.44	ppb	5.397	37.4	55.12	14.43596
Cd 226.502	0.1086	ppb	0.1345	123.8	47.0422	0.10865
Co 228.615	0.1564	ppb	0.3334	213.2	-0.2794	0.15638
Cr 267.716	2.7355	ppb	1.4761	54.0	93.7093	2.73551
Cu 324.754	3.0741	ppb	2.4337	79.2	370.631	3.07408
Fe 271.441	27.7858	ppb	16.1158	58.0	159.769	27.78576Z
K 766.491	5.0928	ppb	4.6980	92.2	631.384	5.09283
Mg 279.078	12.8990	ppb	5.0602	39.2	60.2787	12.89897
Mn 257.610	4.7053	ppb	2.2192	47.2	1517.47	4.70526
Mo 202.032	0.3168	ppb	0.1103	34.8	23.7264	0.31680
Na 330.237	44.0559	ppb	158.812	360.5	57.3666	44.05591
Ni 231.604	2.1228	ppb	0.7998	37.7	0.8949	2.12284
Pb 220.353	3.1708	ppb	1.7292	54.5	33.3247	3.17083
Sb 206.834	2.1463	ppb	2.1089	98.3	-0.8359	2.14632
Se 196.026	1.6227	ppb	8.1350	501.3	11.1410	1.62267
Sn 189.925	-0.7580	ppb	1.4264	188.2	-5.6625	-0.75802
Sr 216.596	-0.1505	ppb	1.2058	800.9	47.2392	-0.15055
Ti 334.941	0.1879	ppb	0.2475	131.7	137.177	0.18791
Tl 190.794	4.8499	ppb	2.9334	60.5	-7.7449	4.84995
V 292.401	3.0688	ppb	1.3704	44.7	97.2240	3.06878
Zn 206.200	-0.2763	ppb	1.3555	490.6	457.6284	-0.27629

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

680-89368-c-1-bSD^5 (Samp) 4/18/2013, 7:51:42 AM Rack 4, Tube 27

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.9321u	-1.0499u	-1.6739u
Al 308.215	3727.91	3603.16	3554.36
As 188.980	1.8859	-6.3166u	2.1734
B 249.678	-3.9897u	-3.7914u	-3.8686u
Ba 389.178	8.3724	8.1566	9.1205
Be 313.042	-0.4980u	-0.4946u	-0.4850u
Ca 370.602	50.63	48.44	47.96
Cd 226.502	-0.2865u	-0.2867u	-0.4092u
Co 228.615	-1.0109u	-0.5077u	-0.3915u
Cr 267.716	3.3857	3.5025	3.1469
Cu 324.754	0.6825	0.9218	0.3470
Fe 271.441	484.239	476.654	459.913
K 766.491	72.7293	70.2096	69.2504
Mg 279.078	95.7829	94.4698	94.3560
Mn 257.610	3.7441	3.5728	3.4945
Mo 202.032	0.0204	-0.5487u	-0.5575u
Na 330.237	19.1082	-9.1954u	152.565
Ni 231.604	-0.3680u	0.2420	0.1579
Pb 220.353	5.3935	8.4560	5.8726
Sb 206.834	-0.7781u	-1.5903u	5.9717
Se 196.026	2.8472	1.5154	-10.3948u
Sn 189.925	-1.1327u	3.2652	-2.2035u
Sr 216.596	8.6809	8.8382	8.2010
Ti 334.941	87.3168	84.6782	83.0867
Tl 190.794	-4.6422u	-1.8147u	-3.5262u
V 292.401	4.7969	5.1861	5.2332
Zn 206.200	0.9986	1.1856	-0.0168u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.2187	ppb	0.3987	32.7	-66.9108
Al 308.215	3628.48	ppb	89.5035	2.5	7963.52
As 188.980	-0.7525	ppb	4.8208	640.7	-10.0620
B 249.678	-3.8833	ppb	0.1000	2.6	147.333
Ba 389.178	8.5498	ppb	0.5058	5.9	205.516
Be 313.042	-0.4925	ppb	0.0067	1.4	-245.151
Ca 370.602	49.01	ppb	1.427	2.9	132.1
Cd 226.502	-0.3274	ppb	0.0708	21.6	33.2492
Co 228.615	-0.6367	ppb	0.3292	51.7	-6.2441
Cr 267.716	3.3450	ppb	0.1813	5.4	112.688
Cu 324.754	0.6504	ppb	0.2887	44.4	244.732
Fe 271.441	473.602	ppb	12.4473	2.6	888.144
K 766.491	70.7298	ppb	1.7968	2.5	2715.13
Mg 279.078	94.8696	ppb	0.7930	0.8	222.910
Mn 257.610	3.6038	ppb	0.1277	3.5	1264.10
Mo 202.032	-0.3619	ppb	0.3311	91.5	18.8832
Na 330.237	54.1594	ppb	86.3891	159.5	57.1221
Ni 231.604	0.0107	ppb	0.3306	3103.6	-4.5197
Pb 220.353	6.5740	ppb	1.6474	25.1	39.0539
Sb 206.834	1.2011	ppb	4.1514	345.6	-1.7452
Se 196.026	-2.0107	ppb	7.2913	362.6	9.4587
Sn 189.925	-0.0237	ppb	2.8982	12244.3	-5.1285
Sr 216.596	8.5734	ppb	0.3319	3.9	131.113
Ti 334.941	85.0272	ppb	2.1365	2.5	21777.8
Tl 190.794	-3.3277	ppb	1.4241	42.8	-15.6229
V 292.401	5.0721	ppb	0.2395	4.7	151.603
Zn 206.200	0.7225	ppb	0.6471	89.6	4.9118

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89368-c-1-bPDS (Samp) **4/18/2013, 7:57:32 AM** **Rack 4, Tube 28****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	48.4838	48.0169	47.0003
Al 308.215	18893.8	18861.4	19040.7
As 188.980	2278.80	2264.27	2265.41
B 249.678	1080.37	1079.55	1085.64
Ba 389.178	2044.22	2032.14	2036.26
Be 313.042	54.4829	54.1268	54.3051
Ca 370.602	5226	5196	5222
Cd 226.502	53.8874	53.1259	53.5973
Co 228.615	545.530	540.974	537.753
Cr 267.716	230.559	230.462	232.657
Cu 324.754	275.581	271.317	273.005
Fe 271.441	3323.01	3285.39	3301.12
K 766.491	5462.10	5403.98	5407.62
Mg 279.078	5806.38	5782.21	5796.53
Mn 257.610	576.484	573.127	573.115
Mo 202.032	514.706	512.929	514.326
Na 330.237	5708.25	5538.04	5297.68
Ni 231.604	537.457	533.752	537.231
Pb 220.353	517.511	514.000	520.096
Sb 206.834	482.950	476.372	487.521
Se 196.026	2117.05	2101.01	2104.14
Sn 189.925	1055.07	1050.98	1040.00
Sr 216.596	573.419	572.440	578.210
Ti 334.941	1389.69	1383.08	1387.83
Tl 190.794	2034.95	2030.95	2035.34
V 292.401	535.073	530.663	530.637
Zn 206.200	567.047	558.902	559.696

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	47.8337	ppb	0.7585	1.6	3608.81
Al 308.215	18932.0	ppb	95.5235	0.5	41675.0
As 188.980	2269.49	ppb	8.0790	0.4	1371.79
B 249.678	1081.85	ppb	3.3044	0.3	12704.3
Ba 389.178	2037.54	ppb	6.1381	0.3	43752.5
Be 313.042	54.3049	ppb	0.1781	0.3	94957.6
Ca 370.602	5215	ppb	16.08	0.3	14310
Cd 226.502	53.5368	ppb	0.3843	0.7	1865.94
Co 228.615	541.419	ppb	3.9074	0.7	5406.73
Cr 267.716	231.226	ppb	1.2399	0.5	7140.99
Cu 324.754	273.301	ppb	2.1471	0.8	14428.6
Fe 271.441	3303.17	ppb	18.8929	0.6	5598.24
K 766.491	5424.57	ppb	32.5557	0.6	172681
Mg 279.078	5795.04	ppb	12.1506	0.2	11581.9
Mn 257.610	574.242	ppb	1.9414	0.3	133458
Mo 202.032	513.987	ppb	0.9359	0.2	3668.51
Na 330.237	5514.66	ppb	206.284	3.7	282.306
Ni 231.604	536.147	ppb	2.0774	0.4	1372.57
Pb 220.353	517.202	ppb	3.0598	0.6	907.666
Sb 206.834	482.281	ppb	5.6045	1.2	467.901
Se 196.026	2107.40	ppb	8.5047	0.4	985.848
Sn 189.925	1048.68	ppb	7.7884	0.7	757.458
Sr 216.596	574.690	ppb	3.0878	0.5	5537.15
Ti 334.941	1386.87	ppb	3.4111	0.2	353864
Tl 190.794	2033.75	ppb	2.4300	0.1	1941.32
V 292.401	532.125	ppb	2.5536	0.5	14002.0
Zn 206.200	561.882	ppb	4.4911	0.8	726.016

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89368-c-1-c ms (Samp) 4/18/2013, 8:03:10 AM Rack 4, Tube 29

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	8.5912	8.6744	8.6036
Al 308.215	24966.5	24945.0	25201.4
As 188.980	113.938	110.166	115.649
B 249.678	224.317	222.789	222.293
Ba 389.178	151.988	152.159	151.888
Be 313.042	56.9537	56.6066	56.8771
Ca 370.602	5226	5219	5237
Cd 226.502	55.6815	55.9530	55.7730
Co 228.615	56.3407	54.4009	53.8972
Cr 267.716	131.915	131.896	132.681
Cu 324.754	116.060	115.384	116.086
Fe 271.441	8054.39	8008.15	8051.68
K 766.491	5473.96	5416.16	5434.58
Mg 279.078	5981.42	5939.72	5956.32
Mn 257.610	590.371	587.051	589.293
Mo 202.032	103.987	102.984	104.222
Na 330.237	5527.02	5543.81	5759.42
Ni 231.604	112.888	109.981	111.310
Pb 220.353	63.0465	64.0211	71.2358
Sb 206.834	37.1900	40.0104	45.6499
Se 196.026	110.729	102.070	115.773
Sn 189.925	210.322	215.593	211.985
Sr 216.596	155.916	155.779	156.392
Ti 334.941	440.657	439.639	441.498
Tl 190.794	39.6002	39.9046	36.7436
V 292.401	134.901	133.704	134.515
Zn 206.200	125.759	125.103	124.377

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	8.6231	ppb	0.0449	0.5	671.304
Al 308.215	25037.6	ppb	142.188	0.6	55098.1
As 188.980	113.251	ppb	2.8054	2.5	59.2771
B 249.678	223.133	ppb	1.0550	0.5	2764.86
Ba 389.178	152.011	ppb	0.1370	0.1	3307.83
Be 313.042	56.8125	ppb	0.1823	0.3	99391.6
Ca 370.602	5227	ppb	9.303	0.2	13862
Cd 226.502	55.8025	ppb	0.1381	0.2	1953.09
Co 228.615	54.8796	ppb	1.2902	2.4	551.786
Cr 267.716	132.164	ppb	0.4479	0.3	4087.85
Cu 324.754	115.843	ppb	0.3978	0.3	6237.01
Fe 271.441	8038.07	ppb	25.9523	0.3	13257.8
K 766.491	5441.57	ppb	29.5272	0.5	173221
Mg 279.078	5959.15	ppb	20.9960	0.4	11908.2
Mn 257.610	588.905	ppb	1.6937	0.3	136868
Mo 202.032	103.731	ppb	0.6575	0.6	757.105
Na 330.237	5610.08	ppb	129.603	2.3	294.336
Ni 231.604	111.393	ppb	1.4552	1.3	281.718
Pb 220.353	66.1012	ppb	4.4734	6.8	140.127
Sb 206.834	40.9501	ppb	4.3075	10.5	37.9341
Se 196.026	109.524	ppb	6.9302	6.3	61.2071
Sn 189.925	212.633	ppb	2.6946	1.3	149.512
Sr 216.596	156.029	ppb	0.3214	0.2	1543.46
Ti 334.941	440.598	ppb	0.9306	0.2	112499
Tl 190.794	38.7495	ppb	1.7438	4.5	23.6621
V 292.401	134.373	ppb	0.6108	0.5	3549.75
Zn 206.200	125.080	ppb	0.6915	0.6	164.511

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89368-c-1-d msd (Samp) 4/18/2013, 8:08:49 AM Rack 4, Tube 30**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	8.5485	8.1816	8.4269
Al 308.215	23263.0	23412.2	23323.0
As 188.980	107.258	109.266	110.637
B 249.678	209.424	211.218	209.707
Ba 389.178	146.228	146.067	143.593
Be 313.042	55.8595	56.0905	55.7571
Ca 370.602	5098	5137	5102
Cd 226.502	54.7188	55.3124	54.8200
Co 228.615	54.3886	54.4308	54.4718
Cr 267.716	128.966	130.574	129.190
Cu 324.754	111.712	113.872	111.830
Fe 271.441	7723.95	7733.42	7691.06
K 766.491	5337.42	5346.39	5312.33
Mg 279.078	5829.66	5866.67	5821.96
Mn 257.610	579.631	581.418	577.835
Mo 202.032	101.146	101.904	100.780
Na 330.237	5482.10	5572.54	5590.99
Ni 231.604	110.086	110.708	109.115
Pb 220.353	67.3604	64.6907	66.2634
Sb 206.834	39.1152	37.2990	34.6574
Se 196.026	109.871	100.434	110.219
Sn 189.925	214.725	204.176	205.929
Sr 216.596	148.432	150.879	148.956
Ti 334.941	439.023	440.894	438.894
Tl 190.794	36.5454	34.3316	39.6792
V 292.401	131.509	131.472	130.623
Zn 206.200	117.335	119.431	117.586

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	8.3856	ppb	0.1869	2.2	653.679
Al 308.215	23332.7	ppb	75.0969	0.3	51344.8
As 188.980	109.054	ppb	1.6992	1.6	56.7250
B 249.678	210.116	ppb	0.9646	0.5	2614.65
Ba 389.178	145.296	ppb	1.4769	1.0	3163.04
Be 313.042	55.9024	ppb	0.1708	0.3	97809.2
Ca 370.602	5112	ppb	21.45	0.4	13568
Cd 226.502	54.9504	ppb	0.3175	0.6	1923.48
Co 228.615	54.4304	ppb	0.0416	0.1	547.350
Cr 267.716	129.577	ppb	0.8709	0.7	4008.01
Cu 324.754	112.471	ppb	1.2144	1.1	6061.57
Fe 271.441	7716.14	ppb	22.2318	0.3	12731.7
K 766.491	5332.05	ppb	17.6539	0.3	169744
Mg 279.078	5839.43	ppb	23.9032	0.4	11669.9
Mn 257.610	579.628	ppb	1.7914	0.3	134718
Mo 202.032	101.277	ppb	0.5734	0.6	739.706
Na 330.237	5548.54	ppb	58.2735	1.1	291.789
Ni 231.604	109.970	ppb	0.8030	0.7	278.055
Pb 220.353	66.1048	ppb	1.3419	2.0	140.147
Sb 206.834	37.0239	ppb	2.2416	6.1	34.0544
Se 196.026	106.841	ppb	5.5516	5.2	59.9637
Sn 189.925	208.277	ppb	5.6529	2.7	146.344
Sr 216.596	149.422	ppb	1.2881	0.9	1480.06
Ti 334.941	439.604	ppb	1.1194	0.3	112245
Tl 190.794	36.8521	ppb	2.6869	7.3	21.8671
V 292.401	131.201	ppb	0.5015	0.4	3466.48
Zn 206.200	118.117	ppb	1.1449	1.0	155.565

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89368-c-2-b (Samp) 4/18/2013, 8:14:27 AM Rack 4, Tube 31

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.6377u	-1.0998u	-1.3331u
Al 308.215	20494.2	20533.7	20814.0
As 188.980	1.1647	0.2467	4.0160
B 249.678	2.5831	2.1318	2.2051
Ba 389.178	39.1376	40.0698	40.4684
Be 313.042	-0.1569u	-0.1353u	-0.0902u
Ca 370.602	349.3	342.9	353.3
Cd 226.502	0.1082	-0.0568	-0.2067u
Co 228.615	-0.0370	-0.1844	0.0917
Cr 267.716	21.3775	21.5305	21.7891
Cu 324.754	2.3264	2.1735	2.8034
Fe 271.441	2147.13	2142.17	2173.69
K 766.491	323.970	327.789	330.900
Mg 279.078	415.702	409.084	424.310
Mn 257.610	27.5354	27.8154	28.3911
Mo 202.032	0.7356	0.9691	0.1630
Na 330.237	243.952	-38.9459u	326.281
Ni 231.604	2.8998	0.2621	2.2291
Pb 220.353	16.8168	19.8766	18.9876
Sb 206.834	-1.8107u	-2.5994u	-0.7743u
Se 196.026	-10.2455u	10.8716	5.9573
Sn 189.925	8.7640	4.1085	8.6664
Sr 216.596	45.6013	45.3440	45.4767
Ti 334.941	554.291	554.245	558.465
Tl 190.794	-6.4978u	1.1046	-9.2376u
V 292.401	17.8333	17.6209	18.1256
Zn 206.200	8.0198	10.1686	7.2099

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.3568	ppb	0.2697	19.9	-78.7195
Al 308.215	20614.0	ppb	174.371	0.8	45355.5
As 188.980	1.8092	ppb	1.9656	108.6	-8.5173
B 249.678	2.3067	ppb	0.2422	10.5	217.015
Ba 389.178	39.8919	ppb	0.6830	1.7	880.863
Be 313.042	-0.1274	ppb	0.0340	26.7	390.647
Ca 370.602	348.5	ppb	5.246	1.5	912.1
Cd 226.502	-0.0518	ppb	0.1575	304.3	46.2881
Co 228.615	-0.0432	ppb	0.1382	319.5	10.3051
Cr 267.716	21.5657	ppb	0.2080	1.0	675.565
Cu 324.754	2.4344	ppb	0.3285	13.5	337.886
Fe 271.441	2154.33	ppb	16.9483	0.8	3634.73
K 766.491	327.553	ppb	3.4709	1.1	10868.4
Mg 279.078	416.365	ppb	7.6348	1.8	859.537
Mn 257.610	27.9140	ppb	0.4363	1.6	6900.48
Mo 202.032	0.6226	ppb	0.4148	66.6	25.7651
Na 330.237	177.096	ppb	191.572	108.2	58.8771
Ni 231.604	1.7970	ppb	1.3709	76.3	0.1083
Pb 220.353	18.5603	ppb	1.5740	8.5	59.1083
Sb 206.834	-1.7281	ppb	0.9154	53.0	-4.4224
Se 196.026	2.1944	ppb	11.0500	503.5	11.4090
Sn 189.925	7.1796	ppb	2.6601	37.1	0.1096
Sr 216.596	45.4740	ppb	0.1286	0.3	485.575
Ti 334.941	555.667	ppb	2.4231	0.4	141827
Tl 190.794	-4.8769	ppb	5.3583	109.9	-17.2216
V 292.401	17.8600	ppb	0.2534	1.4	495.669
Zn 206.200	8.4661	ppb	1.5290	18.1	148238

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89300-a-5-b (Samp) 4/18/2013, 8:20:05 AM Rack 4, Tube 32

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.2325u	-1.8464u	-1.4101u
Al 308.215	53774.3	53942.7	54121.1
As 188.980	17.6984	22.8669	27.2402
B 249.678	-1.4147u	-1.0526u	-0.9387u
Ba 389.178	337.461	337.019	337.876
Be 313.042	0.5243	0.5423	0.5542
Ca 370.602	22931	22918	22955
Cd 226.502	1.8451	1.4929	1.8500
Co 228.615	7.5320	7.0408	8.0620
Cr 267.716	120.629	122.046	121.619
Cu 324.754	74.3352	75.3932	74.8049
Fe 271.441	81653.3	81585.2	81707.6
K 766.491	1314.18	1309.71	1314.80
Mg 279.078	1937.33	1931.23	1926.78
Mn 257.610	674.171	673.939	674.514
Mo 202.032	4.7479	4.4576	5.0323
Na 330.237	191.431u	136.420u	-79.9849u
Ni 231.604	22.0187	19.3484	19.9124
Pb 220.353	1312.51	1305.93	1312.98
Sb 206.834	-2.8946	-5.3773u	-3.5915u
Se 196.026	-5.3508u	-7.9485u	-3.1802u
Sn 189.925	9.1581	14.8919	13.6495
Sr 216.596	61.0921	61.8284	61.9471
Ti 334.941	725.541	726.222	727.103
Tl 190.794	-3.1897u	-3.5675u	0.2844u
V 292.401	253.471	254.287	253.491
Zn 206.200	1422.40	1417.32	1418.99

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.4963	ppb	0.3159	21.1	-85.7451
Al 308.215	53946.1	ppb	173.430	0.3	118731
As 188.980	22.6018	ppb	4.7764	21.1	3.5357
B 249.678	-1.1353	ppb	0.2486	21.9	85.8573
Ba 389.178	337.452	ppb	0.4287	0.1	7372.26
Be 313.042	0.5403	ppb	0.0150	2.8	1551.83
Ca 370.602	22935	ppb	18.94	0.1	57285
Cd 226.502	1.7293	ppb	0.2048	11.8	281.658
Co 228.615	7.5449	ppb	0.5107	6.8	87.6049
Cr 267.716	121.432	ppb	0.7272	0.6	3768.28
Cu 324.754	74.8444	ppb	0.5301	0.7	4124.18
Fe 271.441	81648.7	ppb	61.3288	0.1	133526
K 766.491	1312.90	ppb	2.7762	0.2	42149.7
Mg 279.078	1931.78	ppb	5.2965	0.3	3877.20
Mn 257.610	674.208	ppb	0.2892	0.0	156801
Mo 202.032	4.7459	ppb	0.2874	6.1	50.7125
Na 330.237	82.6221	ppb	143.483	173.7	24.5742
Ni 231.604	20.4265	ppb	1.4074	6.9	49.5762
Pb 220.353	1310.47	ppb	3.9441	0.3	2260.58
Sb 206.834	-3.9545	ppb	1.2806	32.4	-3.9027
Se 196.026	-5.4932	ppb	2.3874	43.5	7.9287
Sn 189.925	12.5665	ppb	3.0164	24.0	4.0335
Sr 216.596	61.6225	ppb	0.4632	0.8	670.988
Ti 334.941	726.289	ppb	0.7835	0.1	185363
Tl 190.794	-2.1576	ppb	2.1232	98.4	-19.3120
V 292.401	253.750	ppb	0.4652	0.2	6730.63
Zn 206.200	1419.57	ppb	2.5876	0.2	1829.34

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89300-a-6-b (Samp) 4/18/2013, 8:25:43 AM Rack 4, Tube 33

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.4781u	-0.7908u	-1.5366u
Al 308.215	120334	120566	120697
As 188.980	79.2298	75.5283	74.2118
B 249.678	-10.3620u	-9.0615u	-8.9874u
Ba 389.178	196.902	197.645	195.533
Be 313.042	1.2523	1.2529	1.2557
Ca 370.602	11275	11260	11251
Cd 226.502	5.7268	5.8194	5.4407
Co 228.615	9.9064	9.0443	8.4471
Cr 267.716	359.500	361.264	359.896
Cu 324.754	126.029	127.259	125.453
Fe 271.441	400811	400820	399909
K 766.491	3652.52	3650.10	3652.09
Mg 279.078	2323.53	2315.75	2321.32
Mn 257.610	282.323	282.868	281.910
Mo 202.032	14.6537	14.4535	14.8077
Na 330.237	1066.05u	1145.66u	1141.65u
Ni 231.604	19.8691	22.3722	22.3319
Pb 220.353	308.357	306.495	321.194
Sb 206.834	1.5938	-0.1885	0.4616
Se 196.026	6.9724	13.7356	4.4720
Sn 189.925	18.9818	17.5656	12.3501
Sr 216.596	67.6144	66.8068	66.8789
Ti 334.941	1022.46	1024.14	1024.85
Tl 190.794	-8.3141u	-2.8217u	-3.6135u
V 292.401	829.321	829.968	828.691
Zn 206.200	649.578	655.285	652.978

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.2685	ppb	0.4147	32.7	-68.1430
Al 308.215	120532	ppb	183.836	0.2	265311
As 188.980	76.3233	ppb	2.6018	3.4	32.9248
B 249.678	-9.4703	ppb	0.7731	8.2	-376.808
Ba 389.178	196.693	ppb	1.0712	0.5	4771.80
Be 313.042	1.2536	ppb	0.0018	0.1	2767.90
Ca 370.602	11262	ppb	12.12	0.1	3122
Cd 226.502	5.6623	ppb	0.1974	3.5	1116.46
Co 228.615	9.1326	ppb	0.7336	8.0	101.276
Cr 267.716	360.220	ppb	0.9255	0.3	11177.1
Cu 324.754	126.247	ppb	0.9227	0.7	6888.36
Fe 271.441	400513	ppb	523.232	0.1	654531
K 766.491	3651.57	ppb	1.2886	0.0	116395
Mg 279.078	2320.20	ppb	4.0085	0.2	4694.05
Mn 257.610	282.367	ppb	0.4808	0.2	66928.3
Mo 202.032	14.6383	ppb	0.1776	1.2	104.291
Na 330.237	1117.79	ppb	44.8491	4.0	-8.0966
Ni 231.604	21.5244	ppb	1.4337	6.7	58.8599
Pb 220.353	312.015	ppb	8.0033	2.6	558.323
Sb 206.834	0.6223	ppb	0.9020	144.9	9.9694
Se 196.026	8.3933	ppb	4.7925	57.1	13.9755
Sn 189.925	16.2991	ppb	3.4926	21.4	6.7358
Sr 216.596	67.1000	ppb	0.4469	0.7	837.636
Ti 334.941	1023.82	ppb	1.2253	0.1	261292
Tl 190.794	-4.9164	ppb	2.9690	60.4	-36.8065
V 292.401	829.327	ppb	0.6386	0.1	21942.7
Zn 206.200	652.614	ppb	2.8708	0.4	842.367

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89300-a-10-d (Samp) **4/18/2013, 8:31:21 AM** **Rack 4, Tube 34****Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-2.9466u	-2.5093u	-2.4061u
Al 308.215	113625	113801	114658
As 188.980	39.4072	26.9946	30.6427
B 249.678	81.1406	81.3069	80.9845
Ba 389.178	1494.78	1495.15	1499.62
Be 313.042	11.3299	11.3573	11.3623
Ca 370.602	226701	225843	227522
Cd 226.502	2.5717	2.7621	2.3670
Co 228.615	10.7679	11.2888	11.3536
Cr 267.716	122.552	122.659	123.746
Cu 324.754	213.846	213.770	215.216
Fe 271.441	91295.3	91168.2	91467.5
K 766.491	15199.5	15188.2	15246.4
Mg 279.078	30874.1	30860.1	30914.8
Mn 257.610	6019.27	6033.24	6054.31
Mo 202.032	3.5744	4.8637	4.6494
Na 330.237	1223.25	1254.02	1318.02
Ni 231.604	30.4551	30.9876	28.6858
Pb 220.353	1448.85	1440.81	1448.53
Sb 206.834	9.3270	-1.2477	12.6426
Se 196.026	-1.0283	-15.2687u	-15.5742u
Sn 189.925	50.9850	46.8576	49.8714
Sr 216.596	433.498	432.896	435.151
Ti 334.941	1481.58	1483.23	1487.20
Tl 190.794	4.1389u	2.5191u	2.6859u
V 292.401	273.421	273.262	273.574
Zn 206.200	817.318	817.564	815.873

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.6207	ppb	0.2869	10.9	-163.074
Al 308.215	114028	ppb	552.841	0.5	250996
As 188.980	32.3482	ppb	6.3796	19.7	11.1379
B 249.678	81.1440	ppb	0.1612	0.2	1026.60
Ba 389.178	1496.52	ppb	2.6955	0.2	32318.9
Be 313.042	11.3498	ppb	0.0174	0.2	20418.5
Ca 370.602	226689	ppb	839.6	0.4	615022
Cd 226.502	2.5670	ppb	0.1976	7.7	331.688
Co 228.615	11.1367	ppb	0.3211	2.9	140.443
Cr 267.716	122.986	ppb	0.6609	0.5	3833.78
Cu 324.754	214.278	ppb	0.8137	0.4	11375.4
Fe 271.441	91310.4	ppb	150.186	0.2	149313
K 766.491	15211.4	ppb	30.8699	0.2	483379
Mg 279.078	30883.0	ppb	28.4364	0.1	61536.3
Mn 257.610	6035.60	ppb	17.6401	0.3	1398636
Mo 202.032	4.3625	ppb	0.6909	15.8	47.4807
Na 330.237	1265.10	ppb	48.3487	3.8	72.4094
Ni 231.604	30.0428	ppb	1.2050	4.0	74.4915
Pb 220.353	1446.06	ppb	4.5535	0.3	2492.00
Sb 206.834	6.9073	ppb	7.2544	105.0	7.1163
Se 196.026	-10.6237	ppb	8.3113	78.2	6.7869
Sn 189.925	49.2380	ppb	2.1353	4.3	30.7777
Sr 216.596	433.848	ppb	1.1677	0.3	4263.33
Ti 334.941	1484.00	ppb	2.8892	0.2	378756
Tl 190.794	3.1146	ppb	0.8910	28.6	-22.2678
V 292.401	273.419	ppb	0.1560	0.1	7262.63
Zn 206.200	816.918	ppb	0.9139	0.1	1054.29

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

mb 680-273342/11-a (Samp) 4/18/2013, 8:37:00 AM Rack 4, Tube 35

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6108u	-1.1266u	-1.0871u
Al 308.215	6.2091	10.1585	10.1026
As 188.980	-2.2987u	-7.3490u	-3.8116u
B 249.678	-5.8679u	-4.8139u	-4.9661u
Ba 389.178	-1.3874u	-2.0501u	-1.8810u
Be 313.042	-0.5592u	-0.5644u	-0.5646u
Ca 370.602	14.88	22.49	32.03
Cd 226.502	-0.1743u	-0.0160u	-0.2099u
Co 228.615	0.0065	-0.6972u	-0.0999u
Cr 267.716	-0.7922u	-0.3393u	-0.3495u
Cu 324.754	-0.0882u	-0.4782u	-0.6880u
Fe 271.441	27.2900	27.1223	33.9095
K 766.491	8.3843	7.8524	9.3126
Mg 279.078	6.3030	3.2846	7.0375
Mn 257.610	-1.4128u	-1.3626u	-1.2435u
Mo 202.032	-0.1094u	-1.0199u	-0.6479u
Na 330.237	56.6171	328.980	351.050
Ni 231.604	-1.5734u	-0.3688u	-0.9815u
Pb 220.353	2.1103	4.7301	6.5611
Sb 206.834	-0.4924u	-3.5963u	0.6965
Se 196.026	-0.3898u	-7.2916u	2.6806
Sn 189.925	19.3178	16.3349	20.7351
Sr 216.596	-2.4111u	-1.9500u	-2.9252u
Ti 334.941	0.2952	0.2371	0.3263
Tl 190.794	-5.2818u	-6.7873u	-6.5702u
V 292.401	-0.9022u	-0.9890u	-1.3663u
Zn 206.200	0.5625	-1.6671u	0.5220

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9415	ppb	0.2871	30.5	-45.6246
Al 308.215	8.8234	ppb	2.2642	25.7	-4.7789
As 188.980	-4.4864	ppb	2.5919	57.8	-12.3306
B 249.678	-5.2160	ppb	0.5697	10.9	132.431
Ba 389.178	-1.7728	ppb	0.3444	19.4	-16.7395
Be 313.042	-0.5627	ppb	0.0031	0.5	-367.270
Ca 370.602	23.14	ppb	8.593	37.1	78.64
Cd 226.502	-0.1334	ppb	0.1032	77.4	38.8393
Co 228.615	-0.2635	ppb	0.3793	144.0	-4.4488
Cr 267.716	-0.4937	ppb	0.2586	52.4	-5.8693
Cu 324.754	-0.4181	ppb	0.3044	72.8	189.102
Fe 271.441	29.4406	ppb	3.8711	13.1	162.405
K 766.491	8.5164	ppb	0.7390	8.7	740.072
Mg 279.078	5.5417	ppb	1.9889	35.9	45.6939
Mn 257.610	-1.3396	ppb	0.0870	6.5	117.507
Mo 202.032	-0.5924	ppb	0.4578	77.3	17.2806
Na 330.237	245.549	ppb	163.991	66.8	66.1522
Ni 231.604	-0.9746	ppb	0.6023	61.8	-7.0605
Pb 220.353	4.4672	ppb	2.2370	50.1	35.5340
Sb 206.834	-1.1307	ppb	2.2164	196.0	-4.0783
Se 196.026	-1.6669	ppb	5.1073	306.4	9.6171
Sn 189.925	18.7959	ppb	2.2461	11.9	8.5565
Sr 216.596	-2.4288	ppb	0.4878	20.1	25.4635
Ti 334.941	0.2862	ppb	0.0453	15.8	162.213
Tl 190.794	-6.2131	ppb	0.8138	13.1	-18.3694
V 292.401	-1.0858	ppb	0.2467	22.7	-12.2869
Zn 206.200	-0.1942	ppb	1.2757	656.8	457.419

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89288-a-1-c (Samp) 4/18/2013, 8:42:38 AM Rack 4, Tube 36

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7379u	-1.3721u	-1.0646u
Al 308.215	25.4012	32.2907	27.7905
As 188.980	-3.5727u	2.5444	3.7034
B 249.678	13.6745	13.2217	13.6721
Ba 389.178	1.2892	2.3069	1.3599
Be 313.042	-0.5507u	-0.5527u	-0.5622u
Ca 370.602	2097	2115	2138
Cd 226.502	0.2609	0.1023	0.2116
Co 228.615	0.8469	0.7545	0.3954u
Cr 267.716	1.8720	1.6336	1.8704
Cu 324.754	420.317	423.204	427.336
Fe 271.441	5966.74	5968.40	6043.79
K 766.491	49.6537	51.0632	51.5767
Mg 279.078	78.2705	80.8995	84.1967
Mn 257.610	9.8399	9.7408	9.9370
Mo 202.032	240.433	239.956	243.267
Na 330.237	60.3480u	189.968	142.105
Ni 231.604	11.5388	13.3580	11.0733
Pb 220.353	22.9451	26.1195	26.2532
Sb 206.834	3.7496	-2.5421u	2.8113u
Se 196.026	4.3991	4.6536	1.1923
Sn 189.925	29.7185	24.1840	23.6558
Sr 216.596	196.132	196.570	198.512
Ti 334.941	3.9592	3.9210	3.9254
Tl 190.794	-0.6316u	-0.4849u	-3.4384u
V 292.401	-0.3689u	-0.5902u	-0.7798u
Zn 206.200	593.782	591.482	594.406

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0582	ppb	0.3172	30.0	-63.3619
Al 308.215	28.4941	ppb	3.4983	12.3	50.6696
As 188.980	0.8917	ppb	3.9095	438.4	-9.1610
B 249.678	13.5227	ppb	0.2608	1.9	342.368
Ba 389.178	1.6520	ppb	0.5682	34.4	65.8146
Be 313.042	-0.5552	ppb	0.0062	1.1	-387.649
Ca 370.602	2116	ppb	20.39	1.0	5399
Cd 226.502	0.1916	ppb	0.0811	42.3	62.9613
Co 228.615	0.6656	ppb	0.2385	35.8	-2.1972
Cr 267.716	1.7920	ppb	0.1372	7.7	65.5552
Cu 324.754	423.619	ppb	3.5280	0.8	22241.5
Fe 271.441	5992.98	ppb	44.0120	0.7	9906.81
K 766.491	50.7645	ppb	0.9957	2.0	2081.30
Mg 279.078	81.1222	ppb	2.9693	3.7	197.312
Mn 257.610	9.8393	ppb	0.0981	1.0	2723.14
Mo 202.032	241.219	ppb	1.7900	0.7	1733.32
Na 330.237	130.807	ppb	65.5443	50.1	55.8660
Ni 231.604	11.9901	ppb	1.2073	10.1	26.3589
Pb 220.353	25.1060	ppb	1.8725	7.5	70.3797
Sb 206.834	1.3396	ppb	3.3942	253.4	-4.6952
Se 196.026	3.4150	ppb	1.9292	56.5	11.9663
Sn 189.925	25.8527	ppb	3.3582	13.0	13.6886
Sr 216.596	197.071	ppb	1.2666	0.6	1933.14
Ti 334.941	3.9352	ppb	0.0209	0.5	1093.91
Tl 190.794	-1.5183	ppb	1.6645	109.6	-14.2660
V 292.401	-0.5797	ppb	0.2057	35.5	-44.1276
Zn 206.200	593.223	ppb	1.5396	0.3	766.912

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

Cont Calib Verif (CCV) 4/18/2013, 8:48:27 AM Rack 4, Tube 37
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	501.630	501.104	499.366
Al 308.215	4921.90	4886.17	4906.31
As 188.980	545.982	537.642	534.225
B 249.678	562.058	564.964	570.063
Ba 389.178	4959.64	4937.04	4947.56
Be 313.042	554.144	552.975	555.117
Ca 370.602	5051	5010	5016
Cd 226.502	543.107	541.601	542.394
Co 228.615	540.067	539.595	541.095
Cr 267.716	5318.50	5298.01	5313.25
Cu 324.754	5364.66	5314.24	5406.55
Fe 271.441	5280.38	5288.17	5288.90
K 766.491	10137.5	10135.0	10161.9
Mg 279.078	5407.85	5406.11	5409.89
Mn 257.610	5478.75	5459.63	5469.77
Mo 202.032	501.130	500.375	499.821
Na 330.237	7921.24	7912.43	7958.88
Ni 231.604	2748.45	2741.22	2742.65
Pb 220.353	514.718	515.818	516.107
Sb 206.834	981.995	971.825	975.013
Se 196.026	5463.56	5446.55	5463.46
Sn 189.925	5183.07	5137.39	5171.37
Sr 216.596	2587.65	2579.84	2584.04
Ti 334.941	491.319	489.709	491.816
Tl 190.794	5065.37	5092.08	5081.69
V 292.401	5100.41	5088.26	5101.63
Zn 206.200	2866.24	2831.59	2847.41

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	500.700	ppb	1.1845	0.2	37683.9	100.14002
Al 308.215	4904.80	ppb	17.9135	0.4	10763.7	98.09595
As 188.980	539.283	ppb	6.0477	1.1	318.538	107.85658
B 249.678	565.695	ppb	4.0524	0.7	6730.88	22.62781Q
Ba 389.178	4948.08	ppb	11.3074	0.2	106200	98.96160
Be 313.042	554.079	ppb	1.0722	0.2	963913	110.81572Q
Ca 370.602	5026	ppb	22.12	0.4	13664	100.51290
Cd 226.502	542.367	ppb	0.7531	0.1	18444.5	108.47346
Co 228.615	540.252	ppb	0.7668	0.1	5387.13	108.05045
Cr 267.716	5309.92	ppb	10.6418	0.2	163755	106.19839
Cu 324.754	5361.82	ppb	46.2206	0.9	278910	107.23640
Fe 271.441	5285.82	ppb	4.7257	0.1	8878.59	105.71634
K 766.491	10144.8	ppb	14.8713	0.1	322531	101.44773
Mg 279.078	5407.95	ppb	1.8954	0.0	10739.6	108.15900
Mn 257.610	5469.38	ppb	9.5654	0.2	1267119	109.38762
Mo 202.032	500.442	ppb	0.6567	0.1	3563.88	100.08843
Na 330.237	7930.85	ppb	24.6690	0.3	378.745	105.74465
Ni 231.604	2744.11	ppb	3.8307	0.1	7043.59	109.76429
Pb 220.353	515.548	ppb	0.7330	0.1	906.541	103.10952
Sb 206.834	976.278	ppb	5.2013	0.5	1009.10	97.62776
Se 196.026	5457.86	ppb	9.7949	0.2	2537.61	109.15720
Sn 189.925	5163.94	ppb	23.7308	0.5	3749.93	103.27884
Sr 216.596	2583.84	ppb	3.9085	0.2	24772.7	103.35380
Ti 334.941	490.948	ppb	1.1016	0.2	125338	98.18964
Tl 190.794	5079.71	ppb	13.4637	0.3	4863.60	101.59428
V 292.401	5096.77	ppb	7.3927	0.1	134418	101.93538
Zn 206.200	2848.41	ppb	17.3480	0.6	2653.59	113.93645Q

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Cont Calib Blank (CCB) 4/18/2013, 8:54:06 AM Rack 4, Tube 38

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6377u	-0.7990u	-0.6091u
Al 308.215	1.4118	0.5824	4.6873
As 188.980	0.4617	-0.0762u	-0.2493u
B 249.678	3.1020	2.4650	2.1108
Ba 389.178	1.4082	2.2128	2.4307
Be 313.042	-0.3394u	-0.2659u	-0.1638u
Ca 370.602	0.3167	2.007	11.68
Cd 226.502	-0.1424u	0.0114	0.0203
Co 228.615	0.1823	-0.3217u	0.5297
Cr 267.716	0.6942	1.4283	2.6117
Cu 324.754	1.0364	2.4217	2.9977
Fe 271.441	0.7880	8.9776	13.2179
K 766.491	-2.1858u	-0.6947u	3.3459
Mg 279.078	4.0479	9.8904	7.3854
Mn 257.610	1.1118	2.0263	3.2134
Mo 202.032	0.3510	0.1671	0.4424
Na 330.237	-42.9850u	5.0930	47.8188
Ni 231.604	2.6626	0.8649	1.2866
Pb 220.353	2.3867	3.8658	4.3544
Sb 206.834	4.8089	2.5264	-0.9348u
Se 196.026	-7.7775u	4.8736	11.8749
Sn 189.925	-4.0637u	-3.0655u	0.7552
Sr 216.596	-1.1432u	-0.7013u	-0.4878u
Ti 334.941	-0.1461u	-0.0793u	0.0627
Tl 190.794	3.3508	3.7024	3.2202
V 292.401	1.3535	2.0059	3.2473
Zn 206.200	-2.4424u	-1.3103u	0.1218

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.6819	ppb	0.1024	15.0	-26.0986	-0.68193
Al 308.215	2.2272	ppb	2.1705	97.5	-19.2814	2.22716
As 188.980	0.0454	ppb	0.3708	817.1	-9.5721	0.04538
B 249.678	2.5593	ppb	0.5023	19.6	222.402	2.55927
Ba 389.178	2.0172	ppb	0.5386	26.7	64.5519	2.01723
Be 313.042	-0.2564	ppb	0.0882	34.4	165.230	-0.25639
Ca 370.602	4.668	ppb	6.131	131.3	29.54	4.66767
Cd 226.502	-0.0369	ppb	0.0914	247.8	42.0675	-0.03689
Co 228.615	0.1301	ppb	0.4281	329.1	-0.5427	0.13010
Cr 267.716	1.5781	ppb	0.9675	61.3	58.0067	1.57806
Cu 324.754	2.1519	ppb	1.0081	46.8	322.691	2.15195
Fe 271.441	7.6612	ppb	6.3187	82.5	126.856	7.66118
K 766.491	0.1552	ppb	2.8621	1844.5	474.631	0.15517
Mg 279.078	7.1079	ppb	2.9311	41.2	48.7632	7.10789
Mn 257.610	2.1172	ppb	1.0537	49.8	918.021	2.11719
Mo 202.032	0.3202	ppb	0.1402	43.8	23.7527	0.32016
Na 330.237	3.3089	ppb	45.4282	1372.9	55.6016	3.30892
Ni 231.604	1.6047	ppb	0.9401	58.6	-0.4363	1.60471
Pb 220.353	3.5356	ppb	1.0246	29.0	33.9462	3.53561
Sb 206.834	2.1335	ppb	2.8919	135.5	-0.8567	2.13351
Se 196.026	2.9904	ppb	9.9606	333.1	11.7734	2.99035
Sn 189.925	-2.1247	ppb	2.5435	119.7	-6.6563	-2.12469
Sr 216.596	-0.7774	ppb	0.3342	43.0	41.2304	-0.77741
Ti 334.941	-0.0542	ppb	0.1067	196.7	75.4029	-0.05422
Tl 190.794	3.4245	ppb	0.2494	7.3	-9.1106	3.42446
V 292.401	2.2022	ppb	0.9620	43.7	74.3965	2.20222
Zn 206.200	-1.2103	ppb	1.2850	106.2	2.4297	-1.21030

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89288-a-2-c (Samp) 4/18/2013, 8:59:45 AM Rack 4, Tube 39

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8633u	-1.2063u	-1.1074u
Al 308.215	49.8726	48.5966	53.8699
As 188.980	-2.1589u	-5.4203u	-6.2162u
B 249.678	50.4066	50.6239	50.6895
Ba 389.178	7.0801	7.9989	9.0195
Be 313.042	-0.5642u	-0.5731u	-0.5656u
Ca 370.602	2364	2360	2356
Cd 226.502	0.2992	0.2242	-0.0118
Co 228.615	0.0715u	-0.7366u	0.1043u
Cr 267.716	3.3815	3.6276	3.6763
Cu 324.754	277.075	274.972	274.352
Fe 271.441	11954.7	11914.7	11927.2
K 766.491	292.660	292.381	291.782
Mg 279.078	101.172	99.3617	102.329
Mn 257.610	46.6829	46.6387	46.5818
Mo 202.032	110.947	110.927	111.170
Na 330.237	-42.1007u	231.142u	308.263
Ni 231.604	3.1854	3.9209	5.3158
Pb 220.353	83.8319	87.6708	83.6377
Sb 206.834	7.4400	12.8922	11.4488
Se 196.026	-2.6371u	3.8855	1.4749
Sn 189.925	22.0137	25.2240	25.4540
Sr 216.596	0.6111	0.6626	0.5330
Ti 334.941	1.9930	1.9246	2.0000
Tl 190.794	-6.1310u	-4.0594u	-0.3812u
V 292.401	-0.6861u	-0.2829u	-0.6309u
Zn 206.200	1582.23	1573.04	1585.65

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0590	ppb	0.1766	16.7	-54.4462
Al 308.215	50.7797	ppb	2.7512	5.4	93.1895
As 188.980	-4.5985	ppb	2.1499	46.8	-12.5267
B 249.678	50.5733	ppb	0.1481	0.3	764.182
Ba 389.178	8.0328	ppb	0.9701	12.1	209.893
Be 313.042	-0.5676	ppb	0.0048	0.8	-390.930
Ca 370.602	2360	ppb	3.887	0.2	5654
Cd 226.502	0.1705	ppb	0.1623	95.2	75.2790
Co 228.615	-0.1869	ppb	0.4763	254.8	-7.1817
Cr 267.716	3.5618	ppb	0.1580	4.4	121.116
Cu 324.754	275.467	ppb	1.4272	0.5	14537.9
Fe 271.441	11932.2	ppb	20.4403	0.2	19610.7
K 766.491	292.274	ppb	0.4485	0.2	9748.41
Mg 279.078	100.954	ppb	1.4956	1.5	237.321
Mn 257.610	46.6345	ppb	0.0507	0.1	11260.8
Mo 202.032	111.014	ppb	0.1351	0.1	808.861
Na 330.237	165.768	ppb	184.103	111.1	49.6769
Ni 231.604	4.1407	ppb	1.0821	26.1	6.3192
Pb 220.353	85.0468	ppb	2.2746	2.7	172.715
Sb 206.834	10.5936	ppb	2.8249	26.7	6.2878
Se 196.026	0.9078	ppb	3.2981	363.3	10.8090
Sn 189.925	24.2306	ppb	1.9233	7.9	12.5090
Sr 216.596	0.6022	ppb	0.0653	10.8	55.4170
Ti 334.941	1.9725	ppb	0.0417	2.1	593.980
Tl 190.794	-3.5239	ppb	2.9121	82.6	-16.4828
V 292.401	-0.5333	ppb	0.2186	41.0	-18.7351
Zn 206.200	1580.31	ppb	6.5238	0.4	2076.36

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

680-89289-a-3-c (Samp) 4/18/2013, 9:05:24 AM Rack 4, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0083u	-0.5198u	-1.2702u
Al 308.215	7.6741	8.7980	7.3691
As 188.980	-3.9430u	-3.8562u	-7.9356u
B 249.678	-4.1641u	-4.7868u	-4.5001u
Ba 389.178	-1.7318u	-1.8859u	-1.2107u
Be 313.042	-0.5661u	-0.5706u	-0.5662u
Ca 370.602	20.01	16.34	18.53
Cd 226.502	-0.1833u	0.0607	-0.1353u
Co 228.615	-1.0870u	-0.0480u	-0.4854u
Cr 267.716	-0.4984u	-0.7148u	-0.6014u
Cu 324.754	0.9116	0.1739	0.0683
Fe 271.441	380.474	378.096	385.448
K 766.491	7.4509	7.8824	8.0043
Mg 279.078	6.2760	0.4230	3.3765
Mn 257.610	-0.1787u	-0.1293u	-0.1061u
Mo 202.032	0.3540	-0.6659u	0.1198
Na 330.237	588.462	292.911	137.330
Ni 231.604	-1.8880u	-0.2219u	-0.7141u
Pb 220.353	4.4714	5.5314	4.0138
Sb 206.834	-1.3546u	3.1175	3.7898
Se 196.026	12.8111	-0.9009u	2.4613
Sn 189.925	16.8861	24.0861	23.0060
Sr 216.596	-2.0684u	-1.8546u	-2.4811u
Ti 334.941	0.0006	0.0372	0.0855
Tl 190.794	1.9835	-5.5941u	-1.8480u
V 292.401	-0.9607u	-1.4457u	-1.1248u
Zn 206.200	6.4947	7.5102	6.8457

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9328	ppb	0.3809	40.8	-44.9551
Al 308.215	7.9471	ppb	0.7525	9.5	-6.6941
As 188.980	-5.2450	ppb	2.3306	44.4	-12.7960
B 249.678	-4.4837	ppb	0.3117	7.0	140.497
Ba 389.178	-1.6095	ppb	0.3538	22.0	-12.7774
Be 313.042	-0.5676	ppb	0.0026	0.5	-375.890
Ca 370.602	18.29	ppb	1.848	10.1	40.77
Cd 226.502	-0.0860	ppb	0.1292	150.3	41.2228
Co 228.615	-0.5401	ppb	0.5217	96.6	-7.2301
Cr 267.716	-0.6049	ppb	0.1082	17.9	-9.2411
Cu 324.754	0.3846	ppb	0.4595	119.5	230.948
Fe 271.441	381.339	ppb	3.7515	1.0	737.359
K 766.491	7.7792	ppb	0.2908	3.7	716.667
Mg 279.078	3.3585	ppb	2.9265	87.1	41.3786
Mn 257.610	-0.1380	ppb	0.0371	26.9	396.740
Mo 202.032	-0.0640	ppb	0.5343	834.4	21.0138
Na 330.237	339.568	ppb	229.156	67.5	70.1196
Ni 231.604	-0.9413	ppb	0.8560	90.9	-6.9680
Pb 220.353	4.6722	ppb	0.7784	16.7	35.8834
Sb 206.834	1.8509	ppb	2.7963	151.1	-1.1402
Se 196.026	4.7905	ppb	7.1466	149.2	12.6056
Sn 189.925	21.3260	ppb	3.8829	18.2	10.3964
Sr 216.596	-2.1347	ppb	0.3185	14.9	28.3960
Ti 334.941	0.0411	ppb	0.0426	103.6	99.7096
Tl 190.794	-1.8195	ppb	3.7889	208.2	-14.1666
V 292.401	-1.1771	ppb	0.2467	21.0	-14.7459
Zn 206.200	6.9502	ppb	0.5157	7.4	12.9306

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

680-89344-a-1-b (Samp) 4/18/2013, 9:11:02 AM Rack 4, Tube 41

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0332u	-0.9317u	-0.8726u
Al 308.215	13712.7	13712.2	13693.2
As 188.980	18.3632	26.0757	19.9393
B 249.678	129.801	129.082	129.493
Ba 389.178	69809.3x	69762.5x	69672.3x
Be 313.042	-0.4051u	-0.3956u	-0.3910u
Ca 370.602	58247	58233	58245
Cd 226.502	4.6643	4.6644	4.5358
Co 228.615	17.5457	16.9603	18.1464
Cr 267.716	381.490	382.141	381.628
Cu 324.754	11.8566	11.4898	12.0377
Fe 271.441	22715.1	22666.9	22738.5
K 766.491	1385.40	1386.38	1389.34
Mg 279.078	1652.66	1655.23	1649.74
Mn 257.610	99.3201	99.1963	99.3528
Mo 202.032	81.3417	83.2285	81.9502
Na 330.237	-10831.2u	-11433.4u	-11461.3u
Ni 231.604	4.2787	4.3542	4.4279
Pb 220.353	17.4435	16.7160	20.5674
Sb 206.834	6.1976	11.1438	9.8240
Se 196.026	8.1724	-7.2702u	-2.7931u
Sn 189.925	36.8579	37.7316	33.4338
Sr 216.596	1068.39	1067.16	1064.03
Ti 334.941	483.217	482.148	482.855
Tl 190.794	-1.0497u	0.6779u	0.8092u
V 292.401	2.7588	3.2929	3.4726
Zn 206.200	67790.8x	67641.1x	67650.6x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9458b	ppb	0.0812	8.6	-93.9372
Al 308.215	13706.0b	ppb	11.1320	0.1	30152.5
As 188.980	21.4594b	ppb	4.0748	19.0	3.7238
B 249.678	129.459b	ppb	0.3605	0.3	1664.40
Ba 389.178	69748.0xb	ppb	69.6504	0.1	1496295
Be 313.042	-0.3972b	ppb	0.0072	1.8	-92.5605
Ca 370.602	58242b	ppb	7.224	0.0	158063
Cd 226.502	4.6215b	ppb	0.0742	1.6	249.927
Co 228.615	17.5508b	ppb	0.5931	3.4	182.031
Cr 267.716	381.753b	ppb	0.3433	0.1	11786.5
Cu 324.754	11.7947b	ppb	0.2791	2.4	833.237
Fe 271.441	22706.8b	ppb	36.4993	0.2	37218.1
K 766.491	1387.04b	ppb	2.0524	0.1	44503.5
Mg 279.078	1652.54b	ppb	2.7463	0.2	3329.84
Mn 257.610	99.2898b	ppb	0.0825	0.1	23494.4
Mo 202.032	82.1735b	ppb	0.9630	1.2	603.623
Na 330.237	-11242.0b	ppb	356.002	3.2	-871.499
Ni 231.604	4.3536b	ppb	0.0746	1.7	7.1500
Pb 220.353	18.2423b	ppb	2.0462	11.2	58.5521
Sb 206.834	9.0551b	ppb	2.5612	28.3	9.1251
Se 196.026	-0.6303b	ppb	7.9452	1260.6	10.0920
Sn 189.925	36.0078b	ppb	2.2716	6.3	21.0921
Sr 216.596	1066.53b	ppb	2.2467	0.2	10287.9
Ti 334.941	482.740b	ppb	0.5439	0.1	123233
Tl 190.794	0.1458b	ppb	1.0374	711.6	-13.5399
V 292.401	3.1748b	ppb	0.3713	11.7	69.3440
Zn 206.200	67694.1xb	ppb	83.8192	0.1	87062.3

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700-75993-a-1-a (Samp) 4/18/2013, 9:16:41 AM Rack 4, Tube 42

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8714u	-0.8493u	-1.2885u
Al 308.215	31.4743	25.9991	30.6524
As 188.980	-3.4464u	-1.8594u	0.7915
B 249.678	-5.0425u	-5.5334u	-4.4363u
Ba 389.178	-1.0125u	-0.6517u	-0.3944u
Be 313.042	-0.5455u	-0.5597u	-0.5509u
Ca 370.602	24.36	29.35	27.72
Cd 226.502	-0.1443u	-0.0222u	-0.1699u
Co 228.615	-0.3375u	-0.3947u	-0.0478u
Cr 267.716	-0.6783u	-0.9188u	-0.5659u
Cu 324.754	1.4435	2.2747	2.3606
Fe 271.441	38.5126	28.3006	28.9041
K 766.491	10.7818	10.7516	11.0785
Mg 279.078	12.7588	17.5433	10.4064
Mn 257.610	-0.9928u	-0.9403u	-0.9615u
Mo 202.032	-0.4928u	-0.7916u	-0.4136u
Na 330.237	1780.95	1778.67	1842.07
Ni 231.604	0.7300	0.4831	0.2189
Pb 220.353	5.2280	2.6186	4.6193
Sb 206.834	-3.1212u	0.1987	-4.7801u
Se 196.026	14.3740	3.3427	-0.9937u
Sn 189.925	23.9275	26.0610	21.5854
Sr 216.596	-1.9990u	-2.5606u	-2.1213u
Ti 334.941	3.0912	2.9885	3.0312
Tl 190.794	-2.0731u	-4.9327u	-0.7644u
V 292.401	-0.9858u	-1.4764u	-0.8823u
Zn 206.200	9.2782	6.7893	7.0510

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0031	ppb	0.2474	24.7	-50.2601
Al 308.215	29.3753	ppb	2.9526	10.1	40.4641
As 188.980	-1.5048	ppb	2.1411	142.3	-10.5155
B 249.678	-5.0041	ppb	0.5496	11.0	134.879
Ba 389.178	-0.6862	ppb	0.3105	45.2	6.5918
Be 313.042	-0.5521	ppb	0.0072	1.3	-348.869
Ca 370.602	27.14	ppb	2.543	9.4	89.92
Cd 226.502	-0.1121	ppb	0.0790	70.4	39.5584
Co 228.615	-0.2600	ppb	0.1860	71.5	-4.3551
Cr 267.716	-0.7210	ppb	0.1803	25.0	-12.8597
Cu 324.754	2.0262	ppb	0.5065	25.0	316.174
Fe 271.441	31.9058	ppb	5.7296	18.0	166.461
K 766.491	10.8706	ppb	0.1806	1.7	814.810
Mg 279.078	13.5695	ppb	3.6368	26.8	61.6961
Mn 257.610	-0.9649	ppb	0.0264	2.7	204.339
Mo 202.032	-0.5660	ppb	0.1993	35.2	17.4679
Na 330.237	1800.56	ppb	35.9617	2.0	133.898
Ni 231.604	0.4773	ppb	0.2556	53.5	-3.3314
Pb 220.353	4.1553	ppb	1.3652	32.9	35.0007
Sb 206.834	-2.5675	ppb	2.5352	98.7	-5.4922
Se 196.026	5.5743	ppb	7.9231	142.1	12.9685
Sn 189.925	23.8580	ppb	2.2386	9.4	12.2379
Sr 216.596	-2.2269	ppb	0.2953	13.3	27.3744
Ti 334.941	3.0370	ppb	0.0516	1.7	863.784
Tl 190.794	-2.5901	ppb	2.1317	82.3	-14.8883
V 292.401	-1.1148	ppb	0.3174	28.5	-13.0174
Zn 206.200	7.7062	ppb	1.3677	17.7	13.9026

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

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Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5589u	-1.1913u	-1.1200u
Al 308.215	24.5886	24.0048	24.8731
As 188.980	-3.1198u	2.9289	-0.0588u
B 249.678	-6.5690u	-6.1032u	-6.5555u
Ba 389.178	-1.8203u	-2.5645u	-1.4996u
Be 313.042	-0.5625u	-0.5573u	-0.5460u
Ca 370.602	26.33	27.72	26.68
Cd 226.502	-0.0641u	-0.0568u	0.0273
Co 228.615	-0.2477u	-0.6190u	-1.5176u
Cr 267.716	-0.8122u	-0.5769u	-0.9227u
Cu 324.754	0.9344	0.6158	0.8840
Fe 271.441	16.7818	25.2516	18.9642
K 766.491	9.1044	9.3952	9.3925
Mg 279.078	13.2865	12.7257	9.8469
Mn 257.610	-1.3422u	-1.3705u	-1.2871u
Mo 202.032	-1.3477u	-0.6486u	-0.1650u
Na 330.237	2045.22	2101.88	2146.37
Ni 231.604	-0.1262u	-1.6672u	1.6032
Pb 220.353	4.1331	3.4338	1.5118
Sb 206.834	1.4692	-1.0711u	-7.0646u
Se 196.026	0.2441	16.1339	2.1946
Sn 189.925	25.8012	20.7449	24.5527
Sr 216.596	-2.0471u	-2.5968u	-1.7283u
Ti 334.941	3.2520	3.2130	3.2682
Tl 190.794	0.4978	-9.0910u	2.0741
V 292.401	-0.7462u	-1.2340u	-0.9429u
Zn 206.200	6.0632	6.7126	4.7593

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9567	ppb	0.3464	36.2	-46.7661
Al 308.215	24.4888	ppb	0.4427	1.8	29.6942
As 188.980	-0.0833	ppb	3.0244	3632.6	-9.6501
B 249.678	-6.4092	ppb	0.2651	4.1	118.635
Ba 389.178	-1.9615	ppb	0.5463	27.9	-20.7831
Be 313.042	-0.5552	ppb	0.0084	1.5	-354.423
Ca 370.602	26.91	ppb	0.7229	2.7	89.95
Cd 226.502	-0.0312	ppb	0.0508	162.9	42.2806
Co 228.615	-0.7947	ppb	0.6529	82.2	-9.6696
Cr 267.716	-0.7706	ppb	0.1766	22.9	-14.3907
Cu 324.754	0.8114	ppb	0.1713	21.1	253.009
Fe 271.441	20.3325	ppb	4.3975	21.6	147.532
K 766.491	9.2974	ppb	0.1671	1.8	764.864
Mg 279.078	11.9531	ppb	1.8454	15.4	58.4765
Mn 257.610	-1.3333	ppb	0.0424	3.2	118.989
Mo 202.032	-0.7204	ppb	0.5947	82.5	16.3719
Na 330.237	2097.82	ppb	50.6959	2.4	146.874
Ni 231.604	-0.0634	ppb	1.6361	2581.9	-4.7203
Pb 220.353	3.0262	ppb	1.3573	44.9	33.0768
Sb 206.834	-2.2222	ppb	4.3818	197.2	-5.1513
Se 196.026	6.1909	ppb	8.6660	140.0	13.2538
Sn 189.925	23.6996	ppb	2.6339	11.1	12.1228
Sr 216.596	-2.1241	ppb	0.4393	20.7	28.3788
Ti 334.941	3.2444	ppb	0.0284	0.9	916.667
Tl 190.794	-2.1730	ppb	6.0427	278.1	-14.4865
V 292.401	-0.9744	ppb	0.2454	25.2	-9.2445
Zn 206.200	5.8450	ppb	0.9947	17.0	45.5095

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mb 680-273398/1-a (Samp) 4/18/2013, 9:28:10 AM Rack 4, Tube 44

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6521u	-0.9703u	-1.4203u
Al 308.215	-8.2561u	-3.7933u	-4.2316u
As 188.980	-3.4695u	-1.2787u	-0.3938u
B 249.678	-5.7783u	-6.1369u	-6.7636u
Ba 389.178	2.1125	0.7360	-0.1149u
Be 313.042	-0.5640u	-0.5776u	-0.5703u
Ca 370.602	-7.873u	-11.80u	-7.597u
Cd 226.502	-0.1949u	-0.2943u	-0.2535u
Co 228.615	-0.3231u	-0.5955u	0.6907
Cr 267.716	-1.5397u	-1.3463u	-0.8063u
Cu 324.754	-0.7221u	-0.4260u	-0.2628u
Fe 271.441	-9.1176u	-3.1892u	-3.6220u
K 766.491	-8.2912u	-8.3273u	-8.5122u
Mg 279.078	3.1531	2.7517	3.9830
Mn 257.610	-1.5792u	-1.5816u	-1.6242u
Mo 202.032	-0.6103u	-1.0402u	-1.0693u
Na 330.237	417.836	153.636	102.390
Ni 231.604	-0.4552u	-1.0885u	-0.8837u
Pb 220.353	5.7586	4.3269	6.2565
Sb 206.834	-0.2938u	0.6105	-2.6832u
Se 196.026	4.1926	-12.2470u	4.4551
Sn 189.925	-8.9516u	-5.7077u	-6.7554u
Sr 216.596	-2.3190u	-2.6033u	-2.7861u
Ti 334.941	-0.4815u	-0.4339u	-0.4468u
Tl 190.794	-1.2202u	-6.5455u	-0.7260u
V 292.401	-1.3753u	-0.9489u	-0.5307u
Zn 206.200	0.7938	0.1506	-0.5669u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0143	ppb	0.3860	38.1	-51.0902
Al 308.215	-5.4270	ppb	2.4599	45.3	-36.1716
As 188.980	-1.7140	ppb	1.5833	92.4	-10.6427
B 249.678	-6.2263	ppb	0.4987	8.0	120.780
Ba 389.178	0.9112	ppb	1.1240	123.4	40.7890
Be 313.042	-0.5706	ppb	0.0068	1.2	-380.933
Ca 370.602	-9.091	ppb	2.352	25.9	-7.506
Cd 226.502	-0.2476	ppb	0.0500	20.2	34.8975
Co 228.615	-0.0760	ppb	0.6778	892.1	-2.5735
Cr 267.716	-1.2308	ppb	0.3801	30.9	-28.6100
Cu 324.754	-0.4703	ppb	0.2328	49.5	186.367
Fe 271.441	-5.3096	ppb	3.3049	62.2	105.644
K 766.491	-8.3769	ppb	0.1186	1.4	203.767
Mg 279.078	3.2959	ppb	0.6279	19.1	41.2146
Mn 257.610	-1.5950	ppb	0.0253	1.6	58.2622
Mo 202.032	-0.9066	ppb	0.2570	28.3	15.0517
Na 330.237	224.621	ppb	169.280	75.4	65.2505
Ni 231.604	-0.8091	ppb	0.3232	39.9	-6.6363
Pb 220.353	5.4473	ppb	1.0018	18.4	37.2052
Sb 206.834	-0.7889	ppb	1.7017	215.7	-3.7500
Se 196.026	-1.1998	ppb	9.5681	797.5	9.8333
Sn 189.925	-7.1383	ppb	1.6555	23.2	-10.3019
Sr 216.596	-2.5695	ppb	0.2354	9.2	24.1156
Ti 334.941	-0.4541	ppb	0.0246	5.4	-26.6178
Tl 190.794	-2.8306	ppb	3.2267	114.0	-15.1166
V 292.401	-0.9516	ppb	0.4223	44.4	-8.6227
Zn 206.200	0.1258	ppb	0.6897	540.8	41.557

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Ics 680-273398/2-a (Samp) 4/18/2013, 9:33:48 AM Rack 4, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	38.6790	38.6190	38.4430
Al 308.215	5242.58	5281.71	5274.97
As 188.980	122.182	117.714	118.475
B 249.678	217.818	220.520	221.618
Ba 389.178	101.262	101.703	101.594
Be 313.042	57.3887	57.6690	57.6530
Ca 370.602	5027	5060	5050
Cd 226.502	57.4366	57.2023	57.0369
Co 228.615	56.5268	56.3313	55.4806
Cr 267.716	109.283	110.194	110.296
Cu 324.754	111.600	110.957	111.795
Fe 271.441	5349.67	5370.75	5366.76
K 766.491	5174.20	5207.30	5219.22
Mg 279.078	5580.68	5592.82	5578.63
Mn 257.610	575.990	578.389	577.089
Mo 202.032	102.619	103.552	102.807
Na 330.237	6002.16	5625.13	5830.23
Ni 231.604	110.148	111.483	112.134
Pb 220.353	58.7065	58.5764	59.1050
Sb 206.834	51.7373	54.7956	56.0395
Se 196.026	117.212	120.798	107.937
Sn 189.925	201.996	206.380	207.258
Sr 216.596	104.520	104.477	104.058
Ti 334.941	99.6982	100.251	100.271
Tl 190.794	41.7156	40.3180	40.5721
V 292.401	105.847	105.764	105.421
Zn 206.200	118.700	118.370	117.172

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	38.5803	ppb	0.1227	0.3	2930.02
Al 308.215	5266.42	ppb	20.9172	0.4	11573.8
As 188.980	119.457	ppb	2.3907	2.0	63.0807
B 249.678	219.985	ppb	1.9555	0.9	2731.54
Ba 389.178	101.520	ppb	0.2296	0.2	2220.21
Be 313.042	57.5702	ppb	0.1574	0.3	100709
Ca 370.602	5046	ppb	17.14	0.3	13496
Cd 226.502	57.2253	ppb	0.2008	0.4	1995.40
Co 228.615	56.1129	ppb	0.5563	1.0	556.355
Cr 267.716	109.924	ppb	0.5576	0.5	3401.15
Cu 324.754	111.451	ppb	0.4385	0.4	6008.13
Fe 271.441	5362.39	ppb	11.1994	0.2	8885.61
K 766.491	5200.24	ppb	23.3286	0.4	165559
Mg 279.078	5584.04	ppb	7.6661	0.1	11165.0
Mn 257.610	577.156	ppb	1.2008	0.2	134137
Mo 202.032	102.993	ppb	0.4933	0.5	752.049
Na 330.237	5819.17	ppb	188.759	3.2	306.454
Ni 231.604	111.255	ppb	1.0123	0.9	281.303
Pb 220.353	58.7960	ppb	0.2754	0.5	127.997
Sb 206.834	54.1908	ppb	2.2139	4.1	50.6982
Se 196.026	115.316	ppb	6.6367	5.8	63.8870
Sn 189.925	205.211	ppb	2.8189	1.4	144.115
Sr 216.596	104.352	ppb	0.2555	0.2	1046.88
Ti 334.941	100.073	ppb	0.3250	0.3	25638.3
Tl 190.794	40.8686	ppb	0.7445	1.8	25.8349
V 292.401	105.677	ppb	0.2255	0.2	2787.04
Zn 206.200	118.081	ppb	0.8937	0.7	155.567

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

ics 680-273398/3-a (Samp) 4/18/2013, 9:39:27 AM Rack 4, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	199.969	200.332	202.043
Al 308.215	2093.62	2097.44	2104.99
As 188.980	233.601	236.495	243.638
B 249.678	443.893	445.430	449.803
Ba 389.178	195.350	196.687	196.117
Be 313.042	228.383	228.860	229.603
Ca 370.602	20187	20224	20324
Cd 226.502	222.657	223.520	224.042
Co 228.615	219.656	218.987	220.415
Cr 267.716	214.789	215.696	216.498
Cu 324.754	222.199	222.519	223.717
Fe 271.441	22054.8	22085.0	22140.5
K 766.491	21151.8	21169.4	21213.4
Mg 279.078	22255.2	22278.2	22347.9
Mn 257.610	2284.08	2289.56	2292.87
Mo 202.032	204.457	204.337	205.990
Na 330.237	20518.5	20068.6	20481.0
Ni 231.604	217.184	218.115	223.826
Pb 220.353	209.284	205.145	208.880
Sb 206.834	194.088	207.421	201.924
Se 196.026	223.040	221.035	224.350
Sn 189.925	198.285	206.007	205.779
Sr 216.596	220.654	221.520	221.850
Ti 334.941	197.594	198.111	198.790
Tl 190.794	40.0654	41.8483	37.0663
V 292.401	209.693	211.224	210.830
Zn 206.200	219.135	217.561	219.493

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	200.782	ppb	1.1077	0.6	15151.8
Al 308.215	2098.68	ppb	5.7869	0.3	4604.75
As 188.980	237.911	ppb	5.1664	2.2	135.126
B 249.678	446.375	ppb	3.0666	0.7	5331.36
Ba 389.178	196.051	ppb	0.6710	0.3	4310.92
Be 313.042	228.949	ppb	0.6151	0.3	398719
Ca 370.602	20245	ppb	70.89	0.4	54027
Cd 226.502	223.406	ppb	0.6993	0.3	7666.76
Co 228.615	219.686	ppb	0.7146	0.3	2184.50
Cr 267.716	215.661	ppb	0.8549	0.4	6668.04
Cu 324.754	222.812	ppb	0.8005	0.4	11804.2
Fe 271.441	22093.4	ppb	43.4479	0.2	36248.7
K 766.491	21178.2	ppb	31.7108	0.1	672804
Mg 279.078	22293.8	ppb	48.2904	0.2	44477.4
Mn 257.610	2288.84	ppb	4.4370	0.2	530686
Mo 202.032	204.928	ppb	0.9217	0.4	1474.56
Na 330.237	20356.0	ppb	249.648	1.2	934.892
Ni 231.604	219.708	ppb	3.5961	1.6	560.192
Pb 220.353	207.770	ppb	2.2818	1.1	382.024
Sb 206.834	201.144	ppb	6.7006	3.3	196.748
Se 196.026	222.808	ppb	1.6693	0.7	114.016
Sn 189.925	203.357	ppb	4.3942	2.2	142.776
Sr 216.596	221.341	ppb	0.6178	0.3	2171.42
Ti 334.941	198.165	ppb	0.5999	0.3	50727.6
Tl 190.794	39.6600	ppb	2.4166	6.1	21.5371
V 292.401	210.582	ppb	0.7949	0.4	5537.95
Zn 206.200	218.730	ppb	1.0277	0.5	284.737

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

660-53767-a-2-b (Samp) 4/18/2013, 9:45:06 AM Rack 4, Tube 47

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7649u	-1.0294u	-1.2887u
Al 308.215	-2.2548u	0.3071	1.9066
As 188.980	-3.9350u	-0.0113u	-2.1238u
B 249.678	13.1612	12.2345	11.4589
Ba 389.178	-1.2491	-2.6092	-2.4293
Be 313.042	-0.5692u	-0.5601u	-0.5731u
Ca 370.602	-2.167u	-4.015u	0.3045u
Cd 226.502	-0.1276u	-0.2457u	-0.0743u
Co 228.615	-0.6689u	-0.7276u	-1.5131u
Cr 267.716	1.9601	2.1330	1.8597
Cu 324.754	0.0034	-0.5327u	-0.0315u
Fe 271.441	16.3958	8.5336	14.5445
K 766.491	71647.0x	71538.3x	72658.5x
Mg 279.078	55509.6	55395.1	56017.4
Mn 257.610	-2.4761u	-2.5997u	-2.4907u
Mo 202.032	0.1995	0.3470	-0.2676u
Na 330.237	36560.8	36655.2	37439.3
Ni 231.604	0.8191	1.8875	1.8894
Pb 220.353	3.9570	5.2365	4.1957
Sb 206.834	1.3265	2.3743	1.5456
Se 196.026	5.4436	12.8434	0.1319
Sn 189.925	-11.0092u	-1.0251u	-0.9860u
Sr 216.596	-1.9521u	-1.9987u	-1.2896u
Ti 334.941	-1.3704u	-1.3047u	-1.3822u
Tl 190.794	-7.1518u	-4.5860u	-5.4622u
V 292.401	-1.2840u	-1.5128u	-0.8102u
Zn 206.200	-0.9449u	-0.7506u	0.3356

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0277b	ppb	0.2619	25.5	-52.9945
Al 308.215	-0.0137b	ppb	2.0992	15284.6	-24.1978
As 188.980	-2.0234b	ppb	1.9638	97.1	-10.8315
B 249.678	12.2849b	ppb	0.8522	6.9	335.052
Ba 389.178	-2.0959b	ppb	0.7389	35.3	110.597
Be 313.042	-0.5675b	ppb	0.0067	1.2	-384.536
Ca 370.602	-1.959b	ppb	2.167	110.6	10.83
Cd 226.502	-0.1492b	ppb	0.0877	58.8	38.7319
Co 228.615	-0.9698b	ppb	0.4714	48.6	-11.4525
Cr 267.716	1.9843b	ppb	0.1383	7.0	70.9378
Cu 324.754	-0.1869b	ppb	0.2999	160.4	201.136
Fe 271.441	13.1580b	ppb	4.1104	31.2	135.781
K 766.491	71947.9xb	ppb	617.746	0.9	2284569
Mg 279.078	55640.7b	ppb	331.238	0.6	111033
Mn 257.610	-2.5222b	ppb	0.0675	2.7	167.007
Mo 202.032	0.0930b	ppb	0.3209	345.0	22.1464
Na 330.237	36885.1b	ppb	482.248	1.3	1664.03
Ni 231.604	1.5320b	ppb	0.6174	40.3	-0.6229
Pb 220.353	4.4631b	ppb	0.6804	15.2	35.5265
Sb 206.834	1.7488b	ppb	0.5526	31.6	-1.2296
Se 196.026	6.1396b	ppb	6.3842	104.0	13.2301
Sn 189.925	-4.3401b	ppb	5.7756	133.1	-8.2567
Sr 216.596	-1.7468b	ppb	0.3966	22.7	31.9222
Ti 334.941	-1.3524b	ppb	0.0418	3.1	-30.0629
Tl 190.794	-5.7333b	ppb	1.3042	22.7	-17.9083
V 292.401	-1.2023b	ppb	0.3583	29.8	-15.3014
Zn 206.200	-0.4533b	ppb	0.6990	152.3	-3.4011

640-43112-d-4-c (Samp) 4/18/2013, 9:50:44 AM Rack 4, Tube 48
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.0024u	-1.0169u	-0.8866u
Al 308.215	276.923	297.235	287.768
As 188.980	-0.8785u	-6.1200u	-8.0220u
B 249.678	6.3040	7.0611	5.9407
Ba 389.178	6.7612	8.0369	7.7861
Be 313.042	-0.4926u	-0.4777u	-0.4750u
Ca 370.602	384.2	394.4	392.6
Cd 226.502	-0.3879u	-0.1154u	-0.3985u
Co 228.615	-1.0073u	-0.1989u	-0.3394u
Cr 267.716	-0.6128u	0.0315	-0.2578u
Cu 324.754	-0.1236u	0.6698	0.3059
Fe 271.441	37.9616	54.6028	55.5439
K 766.491	291.273	322.716	309.680
Mg 279.078	396.810	417.748	424.067
Mn 257.610	1.9483	2.6965	2.9521
Mo 202.032	-0.7571u	-0.4280u	-0.0005u
Na 330.237	3384.51	3354.45	3219.39
Ni 231.604	-0.3459u	1.1321	0.7304
Pb 220.353	5.6554	4.1482	1.6720
Sb 206.834	-5.5870u	-2.3232u	-6.2792u
Se 196.026	12.1655	-3.1257u	-3.9210u
Sn 189.925	-6.9979u	-0.2977u	-4.8779u
Sr 216.596	0.6814	2.5567	1.0509
Ti 334.941	5.5779	5.3186	5.0857
Tl 190.794	-1.2192u	-3.1351u	-0.4857u
V 292.401	-1.0236u	-0.5995u	-0.6030u
Zn 206.200	1.6523	0.7468	4.2805

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9686	ppb	0.0714	7.4	-47.8003
Al 308.215	287.309	ppb	10.1636	3.5	608.284
As 188.980	-5.0069	ppb	3.6996	73.9	-12.6444
B 249.678	6.4353	ppb	0.5716	8.9	267.196
Ba 389.178	7.5281	ppb	0.6758	9.0	183.789
Be 313.042	-0.4817	ppb	0.0095	2.0	-226.655
Ca 370.602	390.4	ppb	5.450	1.4	1084
Cd 226.502	-0.3006	ppb	0.1605	53.4	33.2015
Co 228.615	-0.5152	ppb	0.4319	83.8	-6.8326
Cr 267.716	-0.2797	ppb	0.3227	115.4	0.7818
Cu 324.754	0.2840	ppb	0.3972	139.8	225.610
Fe 271.441	49.3694	ppb	9.8907	20.0	194.981
K 766.491	307.890	ppb	15.7979	5.1	10244.2
Mg 279.078	412.875	ppb	14.2669	3.5	858.156
Mn 257.610	2.5323	ppb	0.5216	20.6	1016.60
Mo 202.032	-0.3952	ppb	0.3794	96.0	18.6786
Na 330.237	3319.45	ppb	87.9487	2.6	200.152
Ni 231.604	0.5055	ppb	0.7642	151.2	-3.2586
Pb 220.353	3.8252	ppb	2.0112	52.6	34.4358
Sb 206.834	-4.7298	ppb	2.1127	44.7	-7.6260
Se 196.026	1.7063	ppb	9.0667	531.4	11.1792
Sn 189.925	-4.0578	ppb	3.4246	84.4	-8.0609
Sr 216.596	1.4296	ppb	0.9934	69.5	62.4804
Ti 334.941	5.3274	ppb	0.2462	4.6	1449.56
Tl 190.794	-1.6133	ppb	1.3680	84.8	-13.9554
V 292.401	-0.7420	ppb	0.2439	32.9	-3.1585
Zn 206.200	2.2265	ppb	1.8355	82.4	6.8551

E04172013.wvq. All Data Report 4/18/2013, 10:20:41 AM

Cont Calib Verif (CCV) 4/18/2013, 9:56:23 AM Rack 4, Tube 49
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	504.606	502.987	511.430
Al 308.215	4908.35	4942.12	4954.56
As 188.980	542.767	544.330	544.966
B 249.678	575.936	578.553	581.684
Ba 389.178	4962.41	4966.19	4976.72
Be 313.042	564.585	566.681	568.344
Ca 370.602	5035	5057	5067
Cd 226.502	552.694	550.894	552.404
Co 228.615	547.931	548.053	546.014
Cr 267.716	5342.49	5379.32	5389.91
Cu 324.754	5425.14	5462.38	5436.98
Fe 271.441	5291.64	5291.77	5311.55
K 766.491	10306.1	10288.8	10330.6
Mg 279.078	5521.04	5511.65	5533.96
Mn 257.610	5542.11	5535.39	5559.70
Mo 202.032	504.421	505.434	508.483
Na 330.237	8454.37	8324.30	8311.77
Ni 231.604	2782.56	2781.56	2797.99
Pb 220.353	520.593	523.019	522.760
Sb 206.834	993.385	980.732	998.265
Se 196.026	5632.81	5597.55	5635.79
Sn 189.925	5182.84	5239.45	5229.72
Sr 216.596	2599.49	2598.22	2605.93
Ti 334.941	494.903	495.521	497.384
Tl 190.794	5149.67	5124.25	5143.32
V 292.401	5181.76	5169.56	5170.77
Zn 206.200	2919.48	2914.43	2914.76

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	506.341	ppb	4.4809	0.9	38108.5	101.26824
Al 308.215	4935.01	ppb	23.9108	0.5	10830.0	98.70012
As 188.980	544.021	ppb	1.1320	0.2	321.421	108.80424
B 249.678	578.724	ppb	2.8781	0.5	6881.59	23.14897Q
Ba 389.178	4968.44	ppb	7.4178	0.1	106638	99.36883
Be 313.042	566.537	ppb	1.8837	0.3	985574	113.30733Q
Ca 370.602	5053	ppb	16.32	0.3	13742	101.06205
Cd 226.502	551.998	ppb	0.9668	0.2	18771.0	110.39951Q
Co 228.615	547.333	ppb	1.1438	0.2	5457.76	109.46651
Cr 267.716	5370.57	ppb	24.8931	0.5	165625	107.41147
Cu 324.754	5441.50	ppb	19.0285	0.3	283052	108.83000
Fe 271.441	5298.32	ppb	11.4595	0.2	8900.92	105.96640
K 766.491	10308.5	ppb	20.9874	0.2	327729	103.08495
Mg 279.078	5522.22	ppb	11.2016	0.2	10966.3	110.44438Q
Mn 257.610	5545.73	ppb	12.5552	0.2	1284803	110.91466Q
Mo 202.032	506.113	ppb	2.1139	0.4	3603.99	101.22256
Na 330.237	8363.48	ppb	78.9628	0.9	397.141	111.51305Q
Ni 231.604	2787.37	ppb	9.2102	0.3	7154.71	111.49487Q
Pb 220.353	522.124	ppb	1.3326	0.3	917.752	104.42480
Sb 206.834	990.794	ppb	9.0491	0.9	1024.22	99.07939
Se 196.026	5622.05	ppb	21.2684	0.4	2613.62	112.44098Q
Sn 189.925	5217.34	ppb	30.2665	0.6	3788.76	104.34671
Sr 216.596	2601.22	ppb	4.1354	0.2	24938.4	104.04861
Ti 334.941	495.936	ppb	1.2915	0.3	126611	99.18721
Tl 190.794	5139.08	ppb	13.2277	0.3	4920.57	102.78159
V 292.401	5174.03	ppb	6.7191	0.1	136455	103.48058
Zn 206.200	2916.22	ppb	2.8264	0.1	3740.59	116.64885Q

E04172013.vvq. All Data Report 4/18/2013, 10:20:41 AM

Cont Calib Blank (CCB) 4/18/2013, 10:02:02 AM Rack 4, Tube 50
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8306u	-0.9382u	-1.0493u
Al 308.215	-7.8408u	-6.7905u	2.5761
As 188.980	-0.1906u	-2.8043u	1.5190
B 249.678	4.2069	3.2647	2.5869
Ba 389.178	-1.2765u	-0.6901u	-0.7845u
Be 313.042	-0.4987u	-0.4735u	-0.4484u
Ca 370.602	-3.376u	-7.289u	-0.6108u
Cd 226.502	-0.2415u	-0.5082u	-0.1673u
Co 228.615	-0.7035u	-1.1559u	-1.0735u
Cr 267.716	-0.8682u	-0.4389u	0.3333
Cu 324.754	0.3597	0.4031	0.5993
Fe 271.441	-11.6320u	-9.7460u	-7.6791u
K 766.491	-4.4407u	-4.0708u	-4.4167u
Mg 279.078	4.2498	2.0962	5.9272
Mn 257.610	-0.8485u	-0.5081u	-0.2134u
Mo 202.032	-0.5323u	0.1579	-0.3107u
Na 330.237	357.956	126.102	38.0545
Ni 231.604	1.0122	0.4418	0.4541
Pb 220.353	2.1005	1.4500	0.9422
Sb 206.834	2.1158	6.0523	2.3771
Se 196.026	1.8736	5.3095	12.3628
Sn 189.925	-7.2684u	-7.2058u	-1.9920u
Sr 216.596	-2.3869u	-2.2202u	-2.0284u
Ti 334.941	-0.4235u	-0.4326u	-0.3240u
Tl 190.794	2.8041	-2.7173u	-3.7630u
V 292.401	-0.4992u	-0.0553u	0.3369
Zn 206.200	-0.4501u	0.4928	0.0232

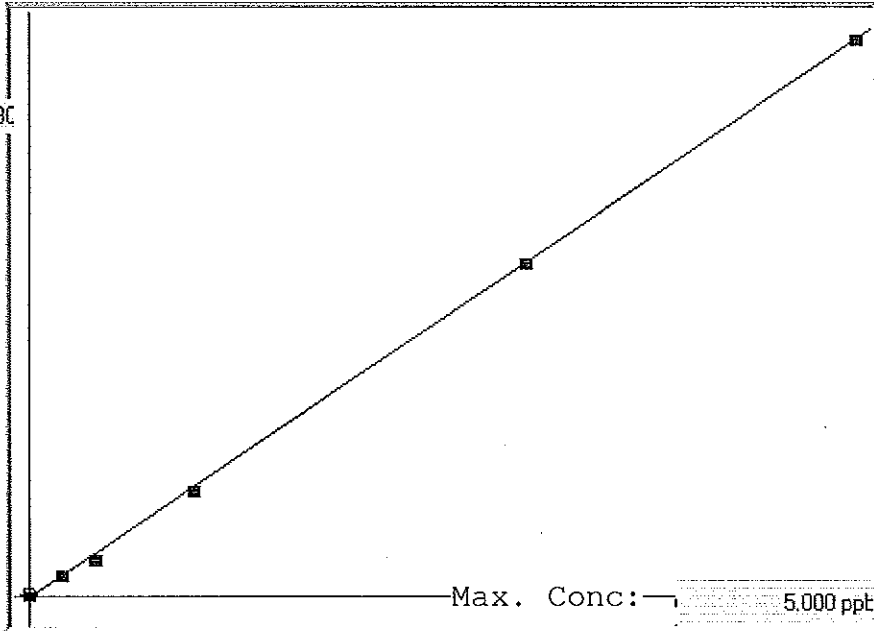
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.9394	ppb	0.1093	11.6	-45.4573	-0.93937
Al 308.215	-4.0184	ppb	5.7351	142.7	-33.0455	-4.01841
As 188.980	-0.4920	ppb	2.1774	442.6	-9.8990	-0.49197
B 249.678	3.3528	ppb	0.8136	24.3	231.602	3.35282
Ba 389.178	-0.9171	ppb	0.3148	34.3	1.5649	-0.91705
Be 313.042	-0.4735	ppb	0.0252	5.3	-212.170	-0.47350
Ca 370.602	-3.759	ppb	3.356	89.3	7.588	-3.75875
Cd 226.502	-0.3057	ppb	0.1793	58.6	32.9141	-0.30566
Co 228.615	-0.9776	ppb	0.2409	24.6	-11.5690	-0.97765
Cr 267.716	-0.3246	ppb	0.6088	187.6	-0.6670	-0.32460
Cu 324.754	0.4540	ppb	0.1277	28.1	234.426	0.45405
Fe 271.441	-9.6857	ppb	1.9771	20.4	98.4928	-9.68567
K 766.491	-4.3094	ppb	0.2070	4.8	332.896	-4.30940
Mg 279.078	4.0911	ppb	1.9204	46.9	42.7835	4.09106
Mn 257.610	-0.5233	ppb	0.3178	60.7	306.431	-0.52334
Mo 202.032	-0.2284	ppb	0.3524	154.3	19.8643	-0.22839
Na 330.237	174.037	ppb	165.250	95.0	63.0463	174.03749
Ni 231.604	0.6360	ppb	0.3259	51.2	-2.9246	0.63603
Pb 220.353	1.4976	ppb	0.5806	38.8	30.4735	1.49758
Sb 206.834	3.5151	ppb	2.2012	62.6	0.4880	3.51508
Se 196.026	6.5153	ppb	5.3476	82.1	13.4042	6.51529
Sn 189.925	-5.4887	ppb	3.0284	55.2	-9.1025	-5.48871
Sr 216.596	-2.2118	ppb	0.1794	8.1	27.5032	-2.21185
Ti 334.941	-0.3934	ppb	0.0603	15.3	-11.1246	-0.39335
Tl 190.794	-1.2254	ppb	3.5286	288.0	-13.5752	-1.22538
V 292.401	-0.0725	ppb	0.4183	576.8	14.4639	-0.07253
Zn 206.200	0.0220	ppb	0.4715	2144.3	4.40199	0.02199

Hg Norm2

Linear

μ Abs.:

23190



A= 0.0000e+000

B= 2.1499e-004

C= 1.6276e-002

Rho= 0.9998170

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
blank	0.000	0.051	0.051	160	1.247	160	159	162		
0.2	0.200	0.223	0.023	962	0.7 %	972	957	958		
0.4	0.400	0.345	-0.055	1528	0.4 %	1536	1523	1526		
1.0	1.000	0.969	-0.031	4429	0.9 %	4485	4420	4384		
3.0	3.000	3.011	0.011	13929	0.3 %	13862	13958	13967		
5.0	5.000	5.002	0.002	23190	0.2 %	23270	23147	23153		

C04162013

Method: Hg Norm2

Operator: Admin

Date of Analysis: 16 Apr 2013 17:20:42

Sample ID	Extended ID	Mean	RSD	Date
blank		160	0.7779	16 Apr 2013 17:25:44
0.2		962	0.7116	16 Apr 2013 17:28:09
0.4		1528	0.3636	16 Apr 2013 17:30:37
1.0		4430	0.9435	16 Apr 2013 17:33:04
3.0		13929	0.3411	16 Apr 2013 17:35:31
5.0		23190	0.2442	16 Apr 2013 17:37:57
ICV		3.0688	0.7999	16 Apr 2013 17:40:25
ICB		0.0154	6.0250	16 Apr 2013 17:42:50
CRA		0.2081	0.3512	16 Apr 2013 17:45:16
CCV		2.6679	0.5360	16 Apr 2013 17:47:44
CCB		0.0163	3.2354	16 Apr 2013 17:50:10
mb 680-273042/1-a	(BCB)	0.0181	4.5913	16 Apr 2013 17:52:37
lb 680-272714/17-c	(BCB)	0.0173	3.2655	16 Apr 2013 17:55:04
lcs 680-273042/3-a	(BCB)	2.4895	0.9626	16 Apr 2013 17:57:30
680-89163-a-1-b	(BCB)	0.0160	2.7627	16 Apr 2013 17:59:56
680-89163-a-1-c ms	(BCB)	0.8064	0.1427	16 Apr 2013 18:02:22
680-89163-a-1-d msd	(BCB)	0.8212	1.1010	16 Apr 2013 18:04:49
680-89224-a-2-d	(BCB)	0.0203	3.0383	16 Apr 2013 18:07:15
680-89190-b-1-c	(BCB)	0.0190	6.1516	16 Apr 2013 18:09:41
680-89190-b-2-e	(BCB)	0.0194	1.8876	16 Apr 2013 18:12:07
lb 680-272918/6-b	(BCB)	0.0183	2.9332	16 Apr 2013 18:14:34
CCV		2.6145	1.3076	16 Apr 2013 18:17:01
CCB		0.0193	3.2816	16 Apr 2013 18:19:29
680-89224-a-5-c	(BCB)	0.0270	0.0000	16 Apr 2013 18:21:55
680-89243-e-6-c	(BCB)	0.0278	2.2164	16 Apr 2013 18:24:25
680-89243-a-7-c	(BCB)	0.0228	2.9151	16 Apr 2013 18:26:54
mb 680-273034/1-a	(BCB)	0.0152	4.0001	16 Apr 2013 18:29:20
lcs 680-273034/2-a	(BCB)	2.4621	1.6157	16 Apr 2013 18:31:46
640-43136-c-8-a	(BCB)	0.0254	3.9332	16 Apr 2013 18:34:13
640-43136-c-8-b ms	(BCB)	1.0001	0.7812	16 Apr 2013 18:36:41
640-43136-c-8-c msd	(BCB)	0.9223	0.6868	16 Apr 2013 18:39:08
680-89267-e-9-b	(BCB)	0.0334	1.6054	16 Apr 2013 18:41:34
680-89267-a-11-b	(BCB)	0.0191	2.4352	16 Apr 2013 18:44:01
CCV		2.5680	0.6628	16 Apr 2013 18:46:29
CCB		0.0166	1.6119	16 Apr 2013 18:48:56
640-43136-e-7-a	(BCB)	0.0234	3.9744	16 Apr 2013 18:51:22
mb 680-273081/1-a	(BCB)	0.0244	1.4361	16 Apr 2013 18:53:50
lcs 680-273081/2-a	(BCB)	2.4290	0.3154	16 Apr 2013 18:56:17
640-43139-b-1-a	(BCB)	0.0260	3.5793	16 Apr 2013 18:58:47
640-43139-b-2-a	(BCB)	0.0219	2.4083	16 Apr 2013 19:01:14
640-43139-a-3-a	(BCB)	0.0213	4.6877	16 Apr 2013 19:03:41
640-43139-a-4-a	(BCB)	0.0209	5.0716	16 Apr 2013 19:06:07
640-43139-b-5-a	(BCB)	0.0383	1.4742	16 Apr 2013 19:08:33
640-43139-a-6-a	(BCB)	0.0274	0.7402	16 Apr 2013 19:10:59
640-43139-a-7-a	(BCB)	0.0322	2.4993	16 Apr 2013 19:13:27
CCV		2.5589	0.5613	16 Apr 2013 19:15:53
CCB		0.0209	2.5705	16 Apr 2013 19:18:20
640-43139-b-8-a	(BCB)	0.0234	1.9872	16 Apr 2013 19:20:45
640-43139-a-9-a	(BCB)	0.0191	1.4007	16 Apr 2013 19:23:11
640-43139-a-9-b ms	(BCB)	0.7884	0.5280	16 Apr 2013 19:25:38
640-43139-a-9-c msd	(BCB)	0.8284	0.6449	16 Apr 2013 19:28:05
mb 680-273080/1-a	(BCB)	0.0191	2.3077	16 Apr 2013 19:30:32
lcs 680-273080/2-a	(BCB)	2.4624	0.3116	16 Apr 2013 19:32:59
640-43132-e-1-d	(BCB)	0.0259	0.7832	16 Apr 2013 19:35:27
640-43132-e-1-e ms	(BCB)	0.8269	0.2479	16 Apr 2013 19:37:54
640-43132-e-1-f msd	(BCB)	0.8033	0.5469	16 Apr 2013 19:40:21

C04162013

Method: Hg Norm2

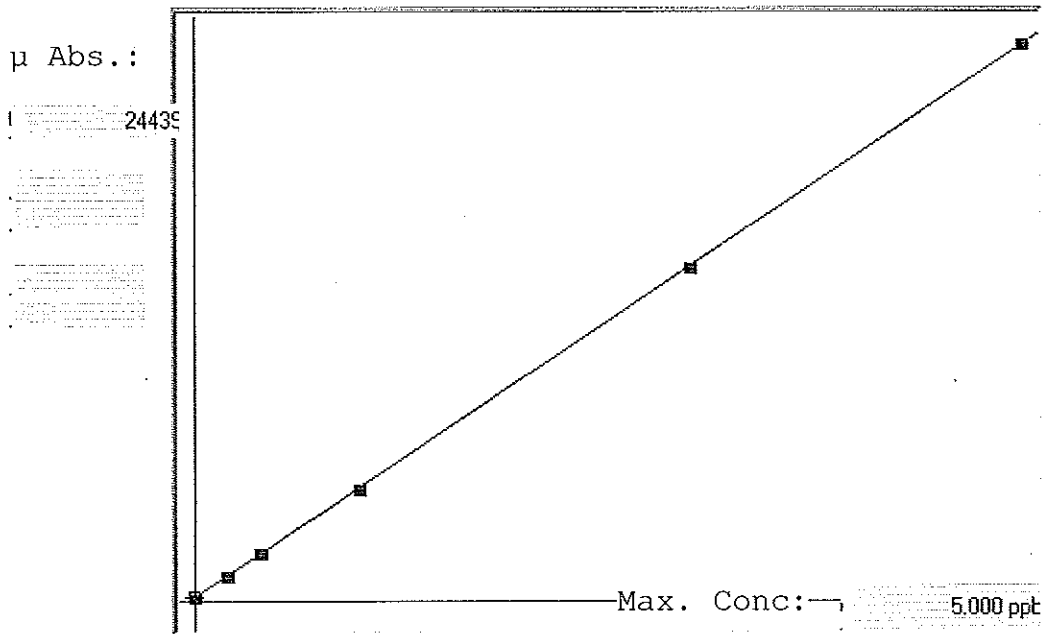
Operator: Admin

Date of Analysis: 16 Apr 2013 17:20:42

Sample ID	Extended ID	Mean	RSD	Date
640-43145-c-1-b	(BCB)	0.4790	0.3521	16 Apr 2013 19:42:48
CCV		2.5901	0.7689	16 Apr 2013 19:45:15
CCB		0.0239	0.4245	16 Apr 2013 19:47:41
640-43145-c-2-b	(BCB)	0.0223	0.7873	16 Apr 2013 19:50:08
640-43145-c-3-b	(BCB)	0.0275	2.0498	16 Apr 2013 19:52:36
640-43145-c-4-b	(BCB)	0.0240	0.7309	16 Apr 2013 19:55:02
640-43145-a-5-b	(BCB)	0.0260	0.6764	16 Apr 2013 19:57:31
640-43145-c-6-b	(BCB)	0.0221	0.7950	16 Apr 2013 19:59:58
640-43145-c-7-b	(BCB)	0.0222	0.4560	16 Apr 2013 20:02:25
640-43139-a-1-b	(BCB)	0.1599	0.1902	16 Apr 2013 20:04:52
640-43139-a-2-b	(BCB)	0.0226	0.8976	16 Apr 2013 20:07:20
640-43139-b-3-b	(BCB)	0.0234	0.7511	16 Apr 2013 20:09:48
640-43139-b-4-b	(BCB)	0.0211	0.4808	16 Apr 2013 20:12:16
CCV		2.5400	1.5516	16 Apr 2013 20:14:42
CCB		0.0217	2.1450	16 Apr 2013 20:17:09
640-43139-a-5-b	(BCB)	0.0322	1.4430	16 Apr 2013 20:19:36
640-43139-b-6-b	(BCB)	0.0282	2.3589	16 Apr 2013 20:22:03
640-43139-b-7-b	(BCB)	0.0314	0.6456	16 Apr 2013 20:24:30
640-43139-a-8-b	(BCB)	0.0412	0.8518	16 Apr 2013 20:26:58
640-43139-b-9-b	(BCB)	0.0244	1.8998	16 Apr 2013 20:29:24
mb 680-273023/1-a	(BCB)	0.0621	0.7109	16 Apr 2013 20:31:50
lcs 680-273023/2-a	(BCB)	2.5828	1.8061	16 Apr 2013 20:34:17
llcs 680-273023/3-a	(BCB)	0.2249	0.1964	16 Apr 2013 20:36:45
680-89286-e-1-a	(BCB)	0.0375	0.9747	16 Apr 2013 20:39:13
680-89286-e-1-b ms	(BCB)	0.9251	0.3562	16 Apr 2013 20:41:41
CCV		2.5345	1.1497	16 Apr 2013 20:44:09
CCB		0.0219	1.2223	16 Apr 2013 20:46:36
680-89286-e-1-c msd	(BCB)	0.9631	0.0316	16 Apr 2013 20:49:02
680-89275-c-1-b	(BCB)	0.0209	2.7047	16 Apr 2013 20:51:29
680-89265-d-1-a	(BCB)	0.0360	1.4903	16 Apr 2013 20:53:56
680-89265-e-1-a	(BCB)	0.0244	1.1001	16 Apr 2013 20:56:23
680-89224-a-4-f	(BCB)	0.0210	3.0129	16 Apr 2013 20:58:51
680-89224-a-4-g ms	(BCB)	0.7967	1.0685	16 Apr 2013 21:01:19
680-89224-a-4-h msd	(BCB)	0.8490	0.8526	16 Apr 2013 21:03:46
CCV		2.6170	1.0496	16 Apr 2013 21:06:13
CCB		0.0204	2.5863	16 Apr 2013 21:08:41

Hg Norm2

Linear



A= 0.0000e+000
 B= 2.0620e-004
 C= -3.2062e-002
 Rho= 0.9999852
 Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
blank	0.000	0.013	0.013	220	1.247	220	222	219		
0.2	0.200	0.196	-0.004	1107	0.7 %	1097	1109	1116		
0.4	0.400	0.406	0.006	2126	0.9 %	2101	2128	2150		
1.0	1.000	0.984	-0.016	4929	1.1 %	4866	4925	4997		
3.0	3.000	2.992	-0.008	14667	0.3 %	14611	14670	14721		
5.0	5.000	5.007	0.007	24438	0.6 %	24620	24427	24269		

C04152013B

Method: Hg Norm2

Operator: Admin

Date of Analysis: 15 Apr 2013 14:49:27

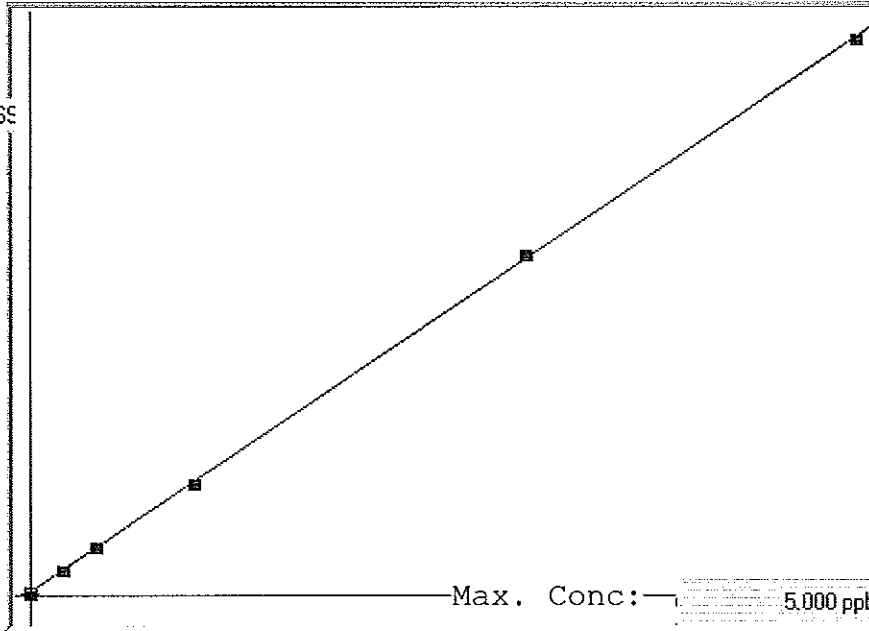
Sample ID	Extended ID	Mean	RSD	Date
blank		220	0.5661	15 Apr 2013 14:49:41
0.2		1107	0.7085	15 Apr 2013 14:52:07
0.4		2126	0.9424	15 Apr 2013 14:54:34
1.0		4929	1.0867	15 Apr 2013 14:57:02
3.0		14667	0.3064	15 Apr 2013 14:59:29
5.0		24439	0.5873	15 Apr 2013 15:01:55
ICV		3.0458	0.2116	15 Apr 2013 15:04:23
ICB		0.0111	3.8160	15 Apr 2013 15:06:49
CRA		0.1943	0.4928	15 Apr 2013 15:09:14
CCV		2.5103	0.2028	15 Apr 2013 15:11:43
CCB		0.0130	3.2696	15 Apr 2013 15:14:09
mb 680-272882/1-a	(BCB)	0.0275	2.7645	15 Apr 2013 15:16:35
lcs 680-272882/2-a	(BCB)	2.5540	0.1172	15 Apr 2013 15:19:02
680-89242-a-1-a	(BCB)	0.1015	0.8183	15 Apr 2013 15:21:27
680-89242-a-2-a	(BCB)	1.1715	0.2493	15 Apr 2013 15:23:54
680-89242-a-5-a	(BCB)	2.3193	0.1857	15 Apr 2013 15:26:21
680-89242-a-6-a	(BCB)	0.4452	0.3863	15 Apr 2013 15:28:47
680-89280-d-1-a	(BCB)	0.0984	1.7561	15 Apr 2013 15:31:13
680-89275-b-2-a	(BCB)	5.1561	0.1532	15 Apr 2013 15:33:39
680-89275-b-2-b ms	(BCB)	5.1945	0.1881	15 Apr 2013 15:36:06
680-89275-b-2-c msd	(BCB)	5.3074	0.3214	15 Apr 2013 15:38:33
CCV		2.5019	0.4312	15 Apr 2013 15:40:59
CCB		0.0179	34.0064	15 Apr 2013 15:43:26
680-89275-b-5-a	(BCB)	3.5793	0.3880	15 Apr 2013 15:45:52
680-89275-b-12-a	(BCB)	4.9465	0.4858	15 Apr 2013 15:48:19
640-43133-b-1-c	(BCB)	0.1159	1.1093	15 Apr 2013 15:50:47
640-43133-b-2-b	(BCB)	0.1066	1.7329	15 Apr 2013 15:53:14
640-43133-b-3-b	(BCB)	0.1499	0.3243	15 Apr 2013 15:55:41
640-43133-b-4-b	(BCB)	0.1736	1.0901	15 Apr 2013 15:58:08
CCV		2.5924	0.0560	15 Apr 2013 16:00:35
680-89275-b-2-b ms	^2	2.7596	0.5594	15 Apr 2013 16:03:01
680-89275-b-2-c msd	^2	2.6691	0.2244	15 Apr 2013 16:05:27
CCV		2.5841	0.4923	15 Apr 2013 16:07:55
CCB		0.0172	5.9470	15 Apr 2013 16:10:23
680-89275-b-2-a	^2	2.6886	0.1261	15 Apr 2013 16:22:02
680-89275-b-2-b ms	^2	2.8089	0.2323	15 Apr 2013 16:24:29
680-89275-b-2-c msd	^2	2.6608	0.4719	15 Apr 2013 16:26:56
CCV		2.6035	0.2643	15 Apr 2013 16:29:23
CCB		0.0178	4.7189	15 Apr 2013 16:31:50

Hg Norm2

Linear

μ Abs. :

21369



A= 0.0000e+000

B= 2.3443e-004

C= -3.0978e-002

Rho= 0.9999250

Accept= Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
blank	0.000	-0.010	-0.010	88	2.494	85	89	91		
0.2	0.200	0.208	0.008	1020	0.5 %	1013	1021	1026		
0.4	0.400	0.407	0.007	1866	0.4 %	1857	1876	1866		
1.0	1.000	0.976	-0.024	4293	0.1 %	4290	4297	4294		
3.0	3.000	3.041	0.041	13105	0.4 %	13056	13092	13168		
5.0	5.000	4.979	-0.021	21369	0.8 %	21165	21370	21572		

C04172013A

Method: Hg Norm2

Operator: Admin

Date of Analysis: 17 Apr 2013 13:46:47

Sample ID	Extended ID	Mean	RSD	Date
blank		88	2.8239	17 Apr 2013 13:48:55
0.2		1020	0.5249	17 Apr 2013 13:51:21
0.4		1866	0.4158	17 Apr 2013 13:53:49
1.0		4294	0.0668	17 Apr 2013 13:56:16
3.0		13105	0.3562	17 Apr 2013 13:58:42
5.0		21369	0.7776	17 Apr 2013 14:01:09
ICV		2.9933	0.7186	17 Apr 2013 14:03:35
ICB		-0.0114	-6.3335	17 Apr 2013 14:06:00
CRA		0.2054	0.2847	17 Apr 2013 14:08:26
CCV		2.4469	0.6874	17 Apr 2013 14:10:54
CCB		-0.0087	-4.3967	17 Apr 2013 14:13:21
mb 680-273176/1-a	(BCB)	0.0121	1.8298	17 Apr 2013 14:15:46
lcs 680-273176/2-a	(BCB)	2.4674	0.3853	17 Apr 2013 14:18:13
680-89300-a-1-b	(BCB)	0.7436	0.2011	17 Apr 2013 14:20:41
680-89300-a-2-b	(BCB)	HIGH	0.0000	17 Apr 2013 14:23:07
680-89300-a-3-b	(BCB)	1.9401	0.2079	17 Apr 2013 14:25:26
680-89300-a-5-a	(BCB)	0.3848	0.1747	17 Apr 2013 14:27:52
680-89300-a-6-a	(BCB)	2.0434	0.3890	17 Apr 2013 14:30:20
680-89300-a-10-c	(BCB)	1.4361	0.1793	17 Apr 2013 14:32:47
680-89300-a-11-a	(BCB)	1.5743	0.4728	17 Apr 2013 14:35:16
680-89275-a-26-b	(BCB)	4.9961	0.5364	17 Apr 2013 14:37:44
CCV		2.5936	0.6689	17 Apr 2013 14:40:12
CCB		-0.0085	-4.5184	17 Apr 2013 14:42:38
680-89275-a-26-c ms	(BCB)	5.0743	0.3733	17 Apr 2013 14:45:05
680-89275-a-26-d msd	(BCB)	5.3996	0.1917	17 Apr 2013 14:47:32
680-89275-a-27-b	(BCB)	3.9773	0.0784	17 Apr 2013 14:50:00
680-89275-a-28-b	(BCB)	5.5274	0.6229	17 Apr 2013 14:52:27
680-89267-a-1-a	(BCB)	0.3286	0.1009	17 Apr 2013 14:54:53
680-89267-a-2-a	(BCB)	0.1552	0.7225	17 Apr 2013 14:57:19
680-89328-b-8-d	(BCB)	2.8334	0.4831	17 Apr 2013 14:59:47
680-89328-b-8-e ms	(BCB)	3.5250	0.6034	17 Apr 2013 15:02:15
680-89328-b-8-f msd	(BCB)	3.6187	0.1925	17 Apr 2013 15:04:41
680-89328-b-10-b	(BCB)	1.6546	1.1977	17 Apr 2013 15:07:07
CCV		2.4792	0.7273	17 Apr 2013 15:09:34
CCB		-0.0068	-11.8002	17 Apr 2013 15:12:01
680-89328-b-15-b	(BCB)	1.7002	0.8119	17 Apr 2013 15:14:27
680-89328-a-33-b	(BCB)	1.7057	0.4506	17 Apr 2013 15:16:55
680-89328-a-34-b	(BCB)	2.5623	0.6575	17 Apr 2013 15:19:24
680-89328-a-35-b	(BCB)	2.2372	0.6168	17 Apr 2013 15:21:51
lb 680-272918/6-e	(BCB)	-0.0288	-2.7680	17 Apr 2013 15:24:19
680-89224-a-1-d	(BCB)	0.0273	11.9188	17 Apr 2013 15:26:46
680-89224-a-1-e ms	(BCB)	0.9343	1.1269	17 Apr 2013 15:29:13
680-89224-a-1-f msd	(BCB)	0.9275	0.8053	17 Apr 2013 15:31:40
mb 680-273194/1-a	(BCB)	-0.0356	-1.6432	17 Apr 2013 15:34:07
lcs 680-273194/2-a	(BCB)	2.5760	0.1412	17 Apr 2013 15:36:33
CCV		2.4590	0.8478	17 Apr 2013 15:39:01
CCB		-0.0087	-5.8164	17 Apr 2013 15:41:27
640-43136-b-1-c	(BCB)	0.2427	0.1642	17 Apr 2013 15:43:53
640-43136-b-1-d ms	(BCB)	1.2802	0.1426	17 Apr 2013 15:46:20
640-43136-b-1-e msd	(BCB)	1.2207	0.8708	17 Apr 2013 15:48:47
640-43136-b-3-c	(BCB)	0.3927	0.1227	17 Apr 2013 15:51:14
640-43136-b-2-c	(BCB)	0.1262	0.3156	17 Apr 2013 15:53:42
640-43136-b-4-c	(BCB)	0.1095	0.7063	17 Apr 2013 15:56:10
640-43136-b-5-c	(BCB)	0.4161	0.6189	17 Apr 2013 15:58:38
640-43136-b-6-c	(BCB)	0.1143	1.5197	17 Apr 2013 16:01:05
680-89344-a-1-a	(BCB)	0.2347	1.1456	17 Apr 2013 16:03:32

C04172013A

Method: Hg Norm2

Operator: Admin

Date of Analysis: 17 Apr 2013 13:46:47

Sample ID	Extended ID	Mean	RSD	Date
680-89368-c-1-a	(BCB)	0.0148	2.6897	17 Apr 2013 16:05:58
CCV		2.5425	0.3387	17 Apr 2013 16:08:25
CCB		-0.0106	-4.7856	17 Apr 2013 16:10:53
680-89368-c-2-a	(BCB)	0.0394	2.9588	17 Apr 2013 16:13:19
680-89364-a-1-a	(BCB)	0.1698	1.1516	17 Apr 2013 16:15:47
CCV		2.5913	0.2696	17 Apr 2013 16:18:14
CCB		-0.0082	-6.7716	17 Apr 2013 16:20:41
CCV		2.5492	0.3763	17 Apr 2013 17:17:22
CCB		-0.0088	-3.3282	17 Apr 2013 17:19:49
680-89300-a-2-b	^50(BCB)	1.8601	0.7408	17 Apr 2013 17:22:14
680-89300-a-3-b	(BCB)	1.9382	0.4835	17 Apr 2013 17:24:41
680-89300-a-5-a	(BCB)	0.3949	0.2487	17 Apr 2013 17:27:07
680-89275-a-26-b	^2(BCB)	2.5722	0.4393	17 Apr 2013 17:29:33
680-89275-a-26-c ms	^2(BCB)	2.5707	0.5650	17 Apr 2013 17:32:00
680-89275-a-26-d msd	^2(BCB)	2.7206	0.1062	17 Apr 2013 17:34:26
680-89275-a-28-b	^2(BCB)	2.7848	0.0344	17 Apr 2013 17:36:53
CCV		2.5977	0.7935	17 Apr 2013 17:39:21
CCB		-0.0060	-4.8960	17 Apr 2013 17:41:48

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-89275-3

SDG No.: 68089275-3

Batch Number: 272923 Batch Start Date: 04/12/13 16:26 Batch Analyst: Boyuk, Brian

Batch Method: 200.7 Batch End Date: 04/13/13 13:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	MS Cal Stk 00019	MS LCS1 WK 00001	MS LCS2 wk 00143
MB 680-272923/1		200.7, 200.7 Rev 4.4			50 mL	50 mL			
LCS 680-272923/3		200.7, 200.7 Rev 4.4			50 mL	50 mL	1 mL		0.5 mL
680-89208-A-1 MS		200.7, 200.7 Rev 4.4	T	<2	50 mL	50 mL		0.5 mL	0.5 mL
680-89208-A-1 MSD		200.7, 200.7 Rev 4.4	T	<2	50 mL	50 mL		0.5 mL	0.5 mL
680-89275-C-1	04113-RB-Bowls + Spoons	200.7, 200.7 Rev 4.4	T	<2	50 mL	50 mL			

Batch Notes	
Lot # of hydrochloric acid	24317
Lot # of Nitric Acid	L10022
Hood ID or number	FH10
Hot Block ID number	5
Oven, Bath or Block Temperature 1	93 Degrees C
Pipette ID	ME 8
ID number of the thermometer	MEPREP 11
Digestion Tube/Cup Lot #	1208059

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.: 680-89275-3

SDG No.: 68089275-3

Batch Number: 272935 Batch Start Date: 04/15/13 09:00 Batch Analyst: Lawhon, Jon

Batch Method: 3050B Batch End Date: 04/15/13 13:09

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MS Cal Stk 00019	MS LCS1_WK 00001	MS LCS2_wk 00143
MB 680-272935/1		3050B, 6010C		CALC NOT SET TO RUN	1.01 g	100 mL			
LCS 680-272935/3		3050B, 6010C		CALC NOT SET TO RUN	1.01 g	100 mL	2 mL		
680-89275-B-2	CV0877A-CS	3050B, 6010C	T	CALC NOT SET TO RUN	1.02 g	100 mL			
680-89275-B-2 MS	CV0877A-CS	3050B, 6010C	T	CALC NOT SET TO RUN	1.02 g	100 mL		1 mL	1 mL
680-89275-B-2 MSD	CV0877A-CS	3050B, 6010C	T	CALC NOT SET TO RUN	1.03 g	100 mL		1 mL	1 mL
680-89275-B-5	CV1086A-CS	3050B, 6010C	T	CALC NOT SET TO RUN	1.01 g	100 mL			

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
MB 680-272935/1		3050B, 6010C							
LCS 680-272935/3		3050B, 6010C		SN LCS					
680-89275-B-2	CV0877A-CS	3050B, 6010C	T						
680-89275-B-2 MS	CV0877A-CS	3050B, 6010C	T						
680-89275-B-2 MSD	CV0877A-CS	3050B, 6010C	T						
680-89275-B-5	CV1086A-CS	3050B, 6010C	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-89275-3

SDG No.: 68089275-3

Batch Number: 272935 Batch Start Date: 04/15/13 09:00 Batch Analyst: Lawhon, Jon

Batch Method: 3050B Batch End Date: 04/15/13 13:09

Batch Notes	
Analyst	JL
Balance ID	25
Blank Soil Lot Number	2958846
Hydrogen peroxide lot number	52223236
Lot # of hydrochloric acid	3053716
Lot # of Nitric Acid	3053709
Hood ID or number	FH-8
Hot Block ID number	8
Nominal Amount Used	1.0 g
Pipette ID	ME4
Perform Calculation (0=No, 1=Yes)	0
Temperature	94 Degrees C
ID number of the thermometer	MEPREP14
Digestion Tube/Cup Lot #	J157274-263-100

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-89275-3

SDG No.: 68089275-3

Batch Number: 273045 Batch Start Date: 04/15/13 10:41 Batch Analyst: Lawhon, Jon

Batch Method: 3050B Batch End Date: 04/15/13 16:41

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MS Cal Stk 00019	MS LCS1 WK 00001	MS LCS2 wk 00143
MB 680-273045/1		3050B, 6010C		CALC NOT SET TO RUN	1.02 g	100 mL			
LCS 680-273045/3		3050B, 6010C		CALC NOT SET TO RUN	1.02 g	100 mL	2 mL		
680-89275-A-26	CV0877A-CS (sieve)	3050B, 6010C	T	CALC NOT SET TO RUN	1.13 g	100 mL			
680-89275-A-27	CV1086A-CS (sieve)	3050B, 6010C	T	CALC NOT SET TO RUN	1.00 g	100 mL			
680-89275-A-28	CV1091A-CS (sieve)	3050B, 6010C	T	CALC NOT SET TO RUN	1.00 g	100 mL			
680-89328-B-8 MS		3050B, 6010C	T	CALC NOT SET TO RUN	1.01 g	100 mL		1 mL	1 mL
680-89328-B-8 MSD		3050B, 6010C	T	CALC NOT SET TO RUN	1.03 g	100 mL		1 mL	1 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
MB 680-273045/1		3050B, 6010C							
LCS 680-273045/3		3050B, 6010C		SN LCS					
680-89275-A-26	CV0877A-CS (sieve)	3050B, 6010C	T						
680-89275-A-27	CV1086A-CS (sieve)	3050B, 6010C	T						
680-89275-A-28	CV1091A-CS (sieve)	3050B, 6010C	T						
680-89328-B-8 MS		3050B, 6010C	T						
680-89328-B-8 MSD		3050B, 6010C	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-89275-3

SDG No.: 68089275-3

Batch Number: 273045 Batch Start Date: 04/15/13 10:41 Batch Analyst: Lawhon, Jon

Batch Method: 3050B Batch End Date: 04/15/13 16:41

Batch Notes	
Analyst	JL
Balance ID	25
Blank Soil Lot Number	2958846
Hydrogen peroxide lot number	52223236
Lot # of hydrochloric acid	3053716
Lot # of Nitric Acid	3053710
Hood ID or number	FH-8
Hot Block ID number	10
Nominal Amount Used	1.0 g
Pipette ID	ME4
Perform Calculation (0=No, 1=Yes)	0
Temperature	96 Degrees C
ID number of the thermometer	MEPREP15
Digestion Tube/Cup Lot #	J157274-263-100

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-89275-3

SDG No.: 68089275-3

Batch Number: 273023 Batch Start Date: 04/15/13 09:40 Batch Analyst: Umbehr, Uli

Batch Method: 245.1 Batch End Date: 04/15/13 17:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	hg_icvint 00085	Hg_Int_Cal 00091	AnalysisComment	
MB 680-273023/1		245.1, 245.1		50 mL	50 mL				
LCS 680-273023/2		245.1, 245.1		50 mL	50 mL		0.25 mL		
680-89286-E-1 MS		245.1, 245.1	T	50 mL	50 mL		0.1 mL		
680-89286-E-1 MSD		245.1, 245.1	T	50 mL	50 mL		0.1 mL		
680-89275-C-1	04113-RB-Bowls + Spoons	245.1, 245.1	T	50 mL	50 mL				
CCV 680-273023/17		245.1, 245.1		50 mL	50 mL		0.25 mL		
CCB 680-273023/18		245.1, 245.1		50 mL	50 mL				
ICV 680-273023/20		245.1, 245.1		50 mL	50 mL	0.15 mL			
ICB 680-273023/21		245.1, 245.1		50 mL	50 mL				
CRA 680-273023/22		245.1, 245.1		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.: 680-89275-3

SDG No.: 68089275-3

Batch Number: 273023 Batch Start Date: 04/15/13 09:40 Batch Analyst: Umbeh, Uli

Batch Method: 245.1 Batch End Date: 04/15/13 17:10

Batch Notes	
Hydroxylamine Sulfate Lot Number	3046698
Hydroxylamine Hydrochloride Lot	3046705
Sulfuric Acid Lot Number	3056255
Lot # of hydrochloric acid	3038841
Lot # of Nitric Acid	3053246
Hood ID or number	WB2
Hot Block ID number	11, 12
Potassium Persulfate Lot Number	3001730
Potassium Permanganate Lot Number	2384878
NaCL Lot #	2891381
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	04/13/13
Stannous Chloride Lot Number	3038842
SOP Number	ME028
Temperature	94 Degrees C
ID number of the thermometer	ME9, ME10
Digestion Tube/Cup Lot #	J155393-263-100
Visual ck - digestate F.V. consistency	Consistent

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.

245.1

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-89275-3

SDG No.: 68089275-3

Batch Number: 272882 Batch Start Date: 04/12/13 14:07 Batch Analyst: Umbehr, Uli

Batch Method: 7471B Batch End Date: 04/15/13 11:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	hg_icvint 00085	Hg_Int_Cal 00091	AnalysisComment	
MB 680-272882/1		7471B, 7471B		0.51 g	50 mL				
LCS 680-272882/2		7471B, 7471B		0.55 g	50 mL		0.25 mL		
680-89275-B-2	CV0877A-CS	7471B, 7471B	T	0.55 g	50 mL				
680-89275-B-2 MS	CV0877A-CS	7471B, 7471B	T	0.58 g	50 mL		0.1 mL		
680-89275-B-2 MSD	CV0877A-CS	7471B, 7471B	T	0.52 g	50 mL		0.1 mL		
680-89275-B-5	CV1086A-CS	7471B, 7471B	T	0.53 g	50 mL				
CCV 680-272882/24		7471B, 7471B		50 mL	50 mL		0.25 mL		
CCB 680-272882/25		7471B, 7471B		50 mL	50 mL				
ICV 680-272882/26		7471B, 7471B		50 mL	50 mL	0.15 mL			
ICB 680-272882/28		7471B, 7471B		50 mL	50 mL				
CRA 680-272882/29		7471B, 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.: 680-89275-3

SDG No.: 68089275-3

Batch Number: 272882 Batch Start Date: 04/12/13 14:07 Batch Analyst: Umbehr, Uli

Batch Method: 7471B Batch End Date: 04/15/13 11:00

Batch Notes	
Hydroxylamine Sulfate Lot Number	3046698
Hydroxylamine Hydrochloride Lot	3046705
Aqua Regia Lot Number	3001953
Balance ID	27
Blank Soil Lot Number	2021822
Sulfuric Acid Lot Number	2956908
Lot # of hydrochloric acid	3038841
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
Repitettor Volume Check	04/05/13
Stannous Chloride Lot Number	3001827
SOP Number	ME1, ME7, ME10
ID number of the thermometer	ME9, ME10
Digestion Tube/Cup Lot #	J147592-264-100
Uncorrected Temperature	95 Celsius
Uncorrected Temperature 2	95 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-89275-3

SDG No.: 68089275-3

Batch Number: 273176 Batch Start Date: 04/16/13 09:45 Batch Analyst: Umbehr, Uli

Batch Method: 7471B Batch End Date: 04/16/13 15:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	hg_icvint 00085	Hg_Int_Cal 00091	AnalysisComment	
MB 680-273176/1		7471B, 7471B		0.52 g	50 mL				
LCS 680-273176/2		7471B, 7471B		0.54 g	50 mL		0.25 mL		
680-89275-A-26	CV0877A-CS (sieve)	7471B, 7471B	T	0.55 g	50 mL				
680-89275-A-26 MS	CV0877A-CS (sieve)	7471B, 7471B	T	0.55 g	50 mL		0.1 mL		
680-89275-A-26 MSD	CV0877A-CS (sieve)	7471B, 7471B	T	0.55 g	50 mL		0.1 mL		
680-89275-A-27	CV1086A-CS (sieve)	7471B, 7471B	T	0.54 g	50 mL				
680-89275-A-28	CV1091A-CS (sieve)	7471B, 7471B	T	0.53 g	50 mL				
CCV 680-273176/36		7471B, 7471B		50 mL	50 mL		0.25 mL		
CCB 680-273176/37		7471B, 7471B		50 mL	50 mL				
ICV 680-273176/39		7471B, 7471B		50 mL	50 mL	0.15 mL			
ICB 680-273176/40		7471B, 7471B		50 mL	50 mL				
CRA 680-273176/41		7471B, 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.: 680-89275-3

SDG No.: 68089275-3

Batch Number: 273176 Batch Start Date: 04/16/13 09:45 Batch Analyst: Umbehr, Uli

Batch Method: 7471B Batch End Date: 04/16/13 15:50

Batch Notes	
Hydroxylamine Sulfate Lot Number	3046698
Hydroxylamine Hydrochloride Lot	3046705
Aqua Regia Lot Number	3001953
Balance ID	27
Blank Soil Lot Number	2021822
Sulfuric Acid Lot Number	2956908
Lot # of hydrochloric acid	3038841
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	04/05/13
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 <i>35th Ave. Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>1</i> OF <i>3</i>
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(b) (6)

COMPOSITE (C) OR GRAB (G) INDICATE
 AQUEOUS (WATER)
 SOLID OR SEMISOLID
 AIR
 NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

LL PAH
RCFA8 Metals

STANDARD REPORT DELIVERY
 DATE DUE _____
 EXPEDITED REPORT DELIVERY (SURCHARGE)
 DATE DUE _____
 NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

PRESERVATIVE

COMPANY CONTRACTING THIS WORK (if applicable)

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS								
DATE	TIME							1	2	3	4	5	6	7	8	9	10		11	12						
<i>4-11-13</i>	<i>0810</i>	<i>041113-RB-Bowls + Spoons</i>	<i>X</i>					<i>X</i>	<i>X</i>																	
<i>4-10-13</i>	<i>1415</i>	<i>CV 0877A-CS</i>	<i>R</i>	<i>X</i>				<i>X</i>	<i>X</i>																	
	<i>1300</i>	<i>CV 0951A-CS</i>	<i>C</i>	<i>X</i>				<i>X</i>																		
	<i>1300</i>	<i>CV 0951A-CSD</i>	<i>C</i>	<i>X</i>				<i>X</i>																		
	<i>0950</i>	<i>CV 1086A-CS</i>	<i>C</i>	<i>X</i>				<i>X</i>	<i>X</i>																	
	<i>1000</i>	<i>CV 1086B-GS</i>	<i>G</i>	<i>X</i>				<i>X</i>																		
	<i>1010</i>	<i>CV 1086C-GS</i>	<i>G</i>	<i>X</i>				<i>X</i>																		
	<i>0900</i>	<i>CV 1088A-CS</i>	<i>C</i>	<i>X</i>				<i>X</i>																		
	<i>0930</i>	<i>CV 1088B-GS</i>	<i>G</i>	<i>X</i>				<i>X</i>																		
	<i>0840</i>	<i>CV 1090A-CS</i>	<i>C</i>	<i>X</i>				<i>X</i>																		
	<i>0840</i>	<i>CV 1090A-CSD</i>	<i>C</i>	<i>X</i>				<i>X</i>																		
	<i>0900</i>	<i>CV 1091A-CS</i>	<i>C</i>	<i>X</i>				<i>X</i>	<i>X</i>																	

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>4-11-13</i>	TIME <i>1530</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>04/12/13</i>	TIME <i>0950</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680</i> <i>89275</i>	LABORATORY REMARKS <i>2.2"</i>
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal PROJECT NO.: 2005148-1356 PROJECT LOCATION (STATE): AL MATRIX TYPE: LLPHAN REQUIRED ANALYSIS: REAS Metals PAGE 3 OF 3

(b) (6)

STANDARD REPORT DELIVERY DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) DATE DUE _____

COMPANY CONTRACTING THIS WORK (if applicable): _____ PRESERVATIVE: _____ NUMBER OF COOLERS SUBMITTED PER SHIPMENT: _____

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS
DATE	TIME							1	2	3	4	5	6	7	8	9	10	
1405	4-10-13	CV0886B - CS-SP	C	X			X											
1415		CV0877A - CS (sieve)	C	X				X										
0950		CV1086A - CS (sieve)	C	X				X										
0900		CV1091A - CS (sieve)	C	X				X										

RELINQUISHED BY: (SIGNATURE) <u>[Signature]</u>	DATE <u>4-11-13</u>	TIME <u>1530</u>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE) [Signature] DATE 4/12/13 TIME 0900 CUSTODY INTACT YES NO

CUSTODY SEAL NO. SAVANNAH LOG NO. 680 89275 LABORATORY REMARKS 2.2 °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: 680-89275-3

TestAmerica Sample Delivery Group: 68089275-3
Client Project/Site: 35th Avenue Superfund Site

For:

Oneida Total Integrated Enterprises LLC
1220 Kennestone Circle
Suite 106
Marietta, Georgia 30060

Attn: Ms. Limari F Krebs



Authorized for release by:
4/24/2013 2:26:57 PM

Bernard Kirkland
Project Manager I
bernard.kirkland@testamericainc.com

Designee for

Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

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

TestAmerica Job ID: 680-89275-3
SDG: 68089275-3

Job ID: 680-89275-3

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89275-3

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

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

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

RECEIPT

The samples were received on 04/12/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.2 C.

METALS (ICP)-Water

Sample 04113-RB-Bowls + Spoons (680-89275-1) was analyzed for Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 04/12/2013 and analyzed on 04/16/2013.

Arsenic was detected in method blank MB 680-272923/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Silver recovered outside the recovery criteria for the MS/MSD of sample 680-89208-1 in batch 680-273344. Silver also 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.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY-Water

Sample 04113-RB-Bowls + Spoons (680-89275-1) was analyzed for total mercury in accordance with EPA Method 245.1. The samples were prepared on 04/15/2013 and analyzed on 04/16/2013.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

METALS (ICP)

Samples CV0877A-CS (680-89275-2), CV1086A-CS (680-89275-5), CV0877A-CS (sieve) (680-89275-26), CV1086A-CS (sieve) (680-89275-27) and CV1091A-CS (sieve) (680-89275-28) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 04/12/2013 and 04/15/2013 and analyzed on 04/17/2013 and 04/18/2013.

Case Narrative

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

TestAmerica Job ID: 680-89275-3
SDG: 68089275-3

Job ID: 680-89275-3 (Continued)

Laboratory: TestAmerica Savannah (Continued)

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0877A-CS (680-89275-2) in batch 680-273539. Also, Barium, Chromium and Silver exceeded the rpd limit.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-89328-8 in batch 680-273539. Also, Arsenic, Chromium, Lead and Silver 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.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples CV0877A-CS (680-89275-2), CV1086A-CS (680-89275-5), CV0877A-CS (sieve) (680-89275-26), CV1086A-CS (sieve) (680-89275-27) and CV1091A-CS (sieve) (680-89275-28) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 04/12/2013 and 04/16/2013 and analyzed on 04/15/2013 and 04/17/2013.

Samples CV0877A-CS (680-89275-2)[2X], CV0877A-CS (sieve) (680-89275-26)[2X] and CV1091A-CS (sieve) (680-89275-28)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Mercury recovered outside the recovery criteria for the MS/MSD of sample CV0877A-CS (sieve) (680-89275-26) in batch 680-273523.

Mercury recovered outside the recovery criteria for the MS/MSD of sample CV0877A-CS (680-89275-2) in batch 680-273129.

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

No other difficulties were encountered during the mercury analyses.

All other quality control parameters were within the acceptance limits.

Sample Summary

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

TestAmerica Job ID: 680-89275-3
SDG: 68089275-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89275-1	041113-RB-Bowls + Spoons	Water	04/11/13 08:10	04/12/13 09:50
680-89275-2	CV0877A-CS	Solid	04/10/13 14:15	04/12/13 09:50
680-89275-5	CV1086A-CS	Solid	04/10/13 09:50	04/12/13 09:50
680-89275-26	CV0877A-CS (sieve)	Solid	04/10/13 14:15	04/12/13 09:50
680-89275-27	CV1086A-CS (sieve)	Solid	04/10/13 09:50	04/12/13 09:50
680-89275-28	CV1091A-CS (sieve)	Solid	04/10/13 09:00	04/12/13 09:50

Method Summary

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

TestAmerica Job ID: 680-89275-3
SDG: 68089275-3

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	40CFR136A	TAL SAV
245.1	Mercury (CVAA)	EPA	TAL SAV
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:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Definitions/Glossary

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

TestAmerica Job ID: 680-89275-3
SDG: 68089275-3

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: 680-89275-3
 SDG: 68089275-3

Client Sample ID: 04113-RB-Bowls + Spoons

Lab Sample ID: 680-89275-1

Date Collected: 04/11/13 08:10

Matrix: Water

Date Received: 04/12/13 09:50

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20	U	20	4.6	ug/L		04/12/13 16:26	04/16/13 19:34	1
Barium	10	U	10	2.3	ug/L		04/12/13 16:26	04/16/13 19:34	1
Cadmium	5.0	U	5.0	2.0	ug/L		04/12/13 16:26	04/16/13 19:34	1
Chromium	10	U	10	1.2	ug/L		04/12/13 16:26	04/16/13 19:34	1
Lead	10	U	10	4.0	ug/L		04/12/13 16:26	04/16/13 19:34	1
Selenium	20	U	20	6.4	ug/L		04/12/13 16:26	04/16/13 19:34	1
Silver	10	U	10	0.89	ug/L		04/12/13 16:26	04/16/13 19:34	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		04/15/13 09:40	04/16/13 20:51	1

Client Sample ID: CV0877A-CS

Lab Sample ID: 680-89275-2

Date Collected: 04/10/13 14:15

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 79.6

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	57		2.5	0.73	mg/Kg	☼	04/12/13 16:55	04/17/13 14:11	1
Barium	550		1.2	0.37	mg/Kg	☼	04/12/13 16:55	04/17/13 14:11	1
Cadmium	3.8		0.62	0.12	mg/Kg	☼	04/12/13 16:55	04/17/13 14:11	1
Chromium	94		1.2	0.62	mg/Kg	☼	04/12/13 16:55	04/17/13 14:11	1
Lead	420		1.2	0.65	mg/Kg	☼	04/12/13 16:55	04/17/13 14:11	1
Selenium	3.1	U	3.1	1.2	mg/Kg	☼	04/12/13 16:55	04/17/13 14:11	1
Silver	0.13	J	1.2	0.12	mg/Kg	☼	04/12/13 16:55	04/17/13 14:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.61		0.046	0.019	mg/Kg	☼	04/12/13 14:07	04/15/13 16:22	2

Client Sample ID: CV1086A-CS

Lab Sample ID: 680-89275-5

Date Collected: 04/10/13 09:50

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 72.0

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	34		2.7	0.81	mg/Kg	☼	04/12/13 16:55	04/17/13 14:45	1
Barium	600		1.4	0.41	mg/Kg	☼	04/12/13 16:55	04/17/13 14:45	1
Cadmium	5.0		0.69	0.14	mg/Kg	☼	04/12/13 16:55	04/17/13 14:45	1
Chromium	54		1.4	0.69	mg/Kg	☼	04/12/13 16:55	04/17/13 14:45	1
Lead	560		1.4	0.73	mg/Kg	☼	04/12/13 16:55	04/17/13 14:45	1
Selenium	3.4	U	3.4	1.4	mg/Kg	☼	04/12/13 16:55	04/17/13 14:45	1
Silver	0.45	J	1.4	0.13	mg/Kg	☼	04/12/13 16:55	04/17/13 14:45	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	0.47		0.026	0.011	mg/Kg	☼	04/12/13 14:07	04/15/13 15:45	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89275-3
 SDG: 68089275-3

Client Sample ID: CV0877A-CS (sieve)

Lab Sample ID: 680-89275-26

Date Collected: 04/10/13 14:15

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 80.1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	55		2.2	0.65	mg/Kg	☼	04/15/13 10:41	04/18/13 05:02	1
Barium	530		1.1	0.33	mg/Kg	☼	04/15/13 10:41	04/18/13 05:02	1
Cadmium	3.7		0.55	0.11	mg/Kg	☼	04/15/13 10:41	04/18/13 05:02	1
Chromium	91		1.1	0.55	mg/Kg	☼	04/15/13 10:41	04/18/13 05:02	1
Lead	410		1.1	0.59	mg/Kg	☼	04/15/13 10:41	04/18/13 05:02	1
Selenium	2.8	U	2.8	1.1	mg/Kg	☼	04/15/13 10:41	04/18/13 05:02	1
Silver	0.37	J	1.1	0.11	mg/Kg	☼	04/15/13 10:41	04/18/13 05:02	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	0.58		0.045	0.019	mg/Kg	☼	04/16/13 09:45	04/17/13 17:29	2

Client Sample ID: CV1086A-CS (sieve)

Lab Sample ID: 680-89275-27

Date Collected: 04/10/13 09:50

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 76.9

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	33		2.6	0.77	mg/Kg	☼	04/15/13 10:41	04/18/13 05:08	1
Barium	700		1.3	0.39	mg/Kg	☼	04/15/13 10:41	04/18/13 05:08	1
Cadmium	5.1		0.65	0.13	mg/Kg	☼	04/15/13 10:41	04/18/13 05:08	1
Chromium	68		1.3	0.65	mg/Kg	☼	04/15/13 10:41	04/18/13 05:08	1
Lead	630		1.3	0.69	mg/Kg	☼	04/15/13 10:41	04/18/13 05:08	1
Selenium	3.2	U	3.2	1.3	mg/Kg	☼	04/15/13 10:41	04/18/13 05:08	1
Silver	0.38	J	1.3	0.12	mg/Kg	☼	04/15/13 10:41	04/18/13 05:08	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	0.48		0.024	0.0099	mg/Kg	☼	04/16/13 09:45	04/17/13 14:50	1

Client Sample ID: CV1091A-CS (sieve)

Lab Sample ID: 680-89275-28

Date Collected: 04/10/13 09:00

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 79.0

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	67		2.5	0.75	mg/Kg	☼	04/15/13 10:41	04/18/13 05:14	1
Barium	1100		1.3	0.38	mg/Kg	☼	04/15/13 10:41	04/18/13 05:14	1
Cadmium	3.5		0.63	0.13	mg/Kg	☼	04/15/13 10:41	04/18/13 05:14	1
Chromium	59		1.3	0.63	mg/Kg	☼	04/15/13 10:41	04/18/13 05:14	1
Lead	430		1.3	0.67	mg/Kg	☼	04/15/13 10:41	04/18/13 05:14	1
Selenium	3.2	U	3.2	1.3	mg/Kg	☼	04/15/13 10:41	04/18/13 05:14	1
Silver	0.60	J	1.3	0.12	mg/Kg	☼	04/15/13 10:41	04/18/13 05:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.67		0.048	0.020	mg/Kg	☼	04/16/13 09:45	04/17/13 17:36	2

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-89275-3
 SDG: 68089275-3

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 680-272923/1-A
 Matrix: Water
 Analysis Batch: 273344

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 272923

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.55	J	20	4.6	ug/L		04/12/13 16:26	04/16/13 17:33	1
Barium	10	U	10	2.3	ug/L		04/12/13 16:26	04/16/13 17:33	1
Cadmium	5.0	U	5.0	2.0	ug/L		04/12/13 16:26	04/16/13 17:33	1
Chromium	10	U	10	1.2	ug/L		04/12/13 16:26	04/16/13 17:33	1
Lead	10	U	10	4.0	ug/L		04/12/13 16:26	04/16/13 17:33	1
Selenium	20	U	20	6.4	ug/L		04/12/13 16:26	04/16/13 17:33	1
Silver	10	U	10	0.89	ug/L		04/12/13 16:26	04/16/13 17:33	1

Lab Sample ID: LCS 680-272923/3-A
 Matrix: Water
 Analysis Batch: 273344

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 272923

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	200	222		ug/L		111	85 - 115
Barium	200	202		ug/L		101	85 - 115
Cadmium	200	205		ug/L		103	85 - 115
Chromium	200	211		ug/L		106	85 - 115
Lead	200	199		ug/L		99	85 - 115
Selenium	200	192		ug/L		96	85 - 115
Silver	200	205		ug/L		102	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 680-273023/1-A
 Matrix: Water
 Analysis Batch: 273336

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 273023

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		04/15/13 09:40	04/16/13 20:31	1

Lab Sample ID: LCS 680-273023/2-A
 Matrix: Water
 Analysis Batch: 273336

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 273023

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.58		ug/L		103	85 - 115

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-272935/1-A
 Matrix: Solid
 Analysis Batch: 273539

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 272935

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0	0.58	mg/Kg		04/12/13 16:55	04/17/13 12:47	1
Barium	0.99	U	0.99	0.30	mg/Kg		04/12/13 16:55	04/17/13 12:47	1
Cadmium	0.50	U	0.50	0.099	mg/Kg		04/12/13 16:55	04/17/13 12:47	1
Chromium	0.99	U	0.99	0.50	mg/Kg		04/12/13 16:55	04/17/13 12:47	1

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-89275-3
 SDG: 68089275-3

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

Lab Sample ID: MB 680-272935/1-A
Matrix: Solid
Analysis Batch: 273539

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 272935

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.99	U	0.99	0.52	mg/Kg		04/12/13 16:55	04/17/13 12:47	1
Selenium	2.5	U	2.5	0.99	mg/Kg		04/12/13 16:55	04/17/13 12:47	1
Silver	0.99	U	0.99	0.095	mg/Kg		04/12/13 16:55	04/17/13 12:47	1

Lab Sample ID: LCS 680-272935/3-A
Matrix: Solid
Analysis Batch: 273539

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 272935

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	19.8	21.8		mg/Kg		110	75 - 125
Barium	19.8	20.4		mg/Kg		103	75 - 125
Cadmium	19.8	21.0		mg/Kg		106	75 - 125
Chromium	19.8	21.2		mg/Kg		107	75 - 125
Lead	19.8	20.1		mg/Kg		101	75 - 125
Selenium	19.8	19.9		mg/Kg		101	75 - 125
Silver	19.8	20.3		mg/Kg		102	75 - 125

Lab Sample ID: 680-89275-2 MS
Matrix: Solid
Analysis Batch: 273539

Client Sample ID: CV0877A-CS
Prep Type: Total/NA
Prep Batch: 272935

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	57		12.3	74.8	4	mg/Kg	☼	146	75 - 125
Barium	550		12.3	547	4	mg/Kg	☼	-55	75 - 125
Cadmium	3.8		6.16	9.84		mg/Kg	☼	98	75 - 125
Chromium	94		12.3	104	4	mg/Kg	☼	80	75 - 125
Lead	420		6.16	382	4	mg/Kg	☼	-612	75 - 125
Selenium	3.1	U	12.3	10.2		mg/Kg	☼	83	75 - 125
Silver	0.13	J	6.16	1.18	J F	mg/Kg	☼	17	75 - 125

Lab Sample ID: 680-89275-2 MSD
Matrix: Solid
Analysis Batch: 273539

Client Sample ID: CV0877A-CS
Prep Type: Total/NA
Prep Batch: 272935

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Arsenic	57		12.2	80.6	4	mg/Kg	☼	196	75 - 125	7	20
Barium	550		12.2	833	4 F	mg/Kg	☼	2287	75 - 125	41	20
Cadmium	3.8		6.10	10.2		mg/Kg	☼	104	75 - 125	4	20
Chromium	94		12.2	128	4 F	mg/Kg	☼	280	75 - 125	21	20
Lead	420		6.10	319	4	mg/Kg	☼	-1640	75 - 125	18	20
Selenium	3.1	U	12.2	10.8		mg/Kg	☼	89	75 - 125	6	20
Silver	0.13	J	6.10	0.868	J F	mg/Kg	☼	12	75 - 125	31	20

Lab Sample ID: MB 680-273045/1-A
Matrix: Solid
Analysis Batch: 273539

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 273045

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0	0.58	mg/Kg		04/15/13 10:41	04/18/13 04:29	1

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-89275-3
 SDG: 68089275-3

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

Lab Sample ID: MB 680-273045/1-A
 Matrix: Solid
 Analysis Batch: 273539

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 273045

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	0.98	U	0.98	0.29	mg/Kg		04/15/13 10:41	04/18/13 04:29	1
Cadmium	0.49	U	0.49	0.098	mg/Kg		04/15/13 10:41	04/18/13 04:29	1
Chromium	0.98	U	0.98	0.49	mg/Kg		04/15/13 10:41	04/18/13 04:29	1
Lead	0.98	U	0.98	0.52	mg/Kg		04/15/13 10:41	04/18/13 04:29	1
Selenium	2.5	U	2.5	0.98	mg/Kg		04/15/13 10:41	04/18/13 04:29	1
Silver	0.98	U	0.98	0.094	mg/Kg		04/15/13 10:41	04/18/13 04:29	1

Lab Sample ID: LCS 680-273045/3-A
 Matrix: Solid
 Analysis Batch: 273539

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 273045

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Arsenic	19.6	21.6		mg/Kg		110	75 - 125
Barium	19.6	19.6		mg/Kg		100	75 - 125
Cadmium	19.6	20.6		mg/Kg		105	75 - 125
Chromium	19.6	20.9		mg/Kg		106	75 - 125
Lead	19.6	19.9		mg/Kg		101	75 - 125
Selenium	19.6	19.3		mg/Kg		98	75 - 125
Silver	19.6	20.0		mg/Kg		102	75 - 125

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

Lab Sample ID: MB 680-272882/1-A
 Matrix: Solid
 Analysis Batch: 273129

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 272882

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.020	U	0.020	0.0080	mg/Kg		04/12/13 14:07	04/15/13 15:16	1

Lab Sample ID: LCS 680-272882/2-A
 Matrix: Solid
 Analysis Batch: 273129

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 272882

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Mercury	0.227	0.232		mg/Kg		102	80 - 120

Lab Sample ID: 680-89275-2 MS
 Matrix: Solid
 Analysis Batch: 273129

Client Sample ID: CV0877A-CS
 Prep Type: Total/NA
 Prep Batch: 272882

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Mercury	0.61		0.108	0.609	4	mg/Kg	☼	-5	80 - 120

Lab Sample ID: 680-89275-2 MSD
 Matrix: Solid
 Analysis Batch: 273129

Client Sample ID: CV0877A-CS
 Prep Type: Total/NA
 Prep Batch: 272882

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	
				Result	Qualifier					RPD	Limit
Mercury	0.61		0.121	0.643	4	mg/Kg	☼	24	80 - 120	6	20

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-89275-3
 SDG: 68089275-3

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

Lab Sample ID: MB 680-273176/1-A
Matrix: Solid
Analysis Batch: 273523

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 273176

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	U	0.019	0.0079	mg/Kg		04/16/13 09:45	04/17/13 14:15	1

Lab Sample ID: LCS 680-273176/2-A
Matrix: Solid
Analysis Batch: 273523

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 273176

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.231	0.228		mg/Kg		99	80 - 120

Lab Sample ID: 680-89275-26 MS
Matrix: Solid
Analysis Batch: 273523

Client Sample ID: CV0877A-CS (sieve)
Prep Type: Total/NA
Prep Batch: 273176

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.58		0.114	0.584	4	mg/Kg	☼	-0.3	80 - 120

Lab Sample ID: 680-89275-26 MSD
Matrix: Solid
Analysis Batch: 273523

Client Sample ID: CV0877A-CS (sieve)
Prep Type: Total/NA
Prep Batch: 273176

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Mercury	0.58		0.114	0.618	4	mg/Kg	☼	30	80 - 120	6	20

QC Association Summary

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

TestAmerica Job ID: 680-89275-3
 SDG: 68089275-3

Metals

Prep Batch: 272882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89275-2	CV0877A-CS	Total/NA	Solid	7471B	
680-89275-2 MS	CV0877A-CS	Total/NA	Solid	7471B	
680-89275-2 MSD	CV0877A-CS	Total/NA	Solid	7471B	
680-89275-5	CV1086A-CS	Total/NA	Solid	7471B	
LCS 680-272882/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 680-272882/1-A	Method Blank	Total/NA	Solid	7471B	

Prep Batch: 272923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89275-1	04113-RB-Bowls + Spoons	Total/NA	Water	200.7	
LCS 680-272923/3-A	Lab Control Sample	Total/NA	Water	200.7	
MB 680-272923/1-A	Method Blank	Total/NA	Water	200.7	

Prep Batch: 272935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89275-2	CV0877A-CS	Total/NA	Solid	3050B	
680-89275-2 MS	CV0877A-CS	Total/NA	Solid	3050B	
680-89275-2 MSD	CV0877A-CS	Total/NA	Solid	3050B	
680-89275-5	CV1086A-CS	Total/NA	Solid	3050B	
LCS 680-272935/3-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 680-272935/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 273023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89275-1	04113-RB-Bowls + Spoons	Total/NA	Water	245.1	
LCS 680-273023/2-A	Lab Control Sample	Total/NA	Water	245.1	
MB 680-273023/1-A	Method Blank	Total/NA	Water	245.1	

Prep Batch: 273045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89275-26	CV0877A-CS (sieve)	Total/NA	Solid	3050B	
680-89275-27	CV1086A-CS (sieve)	Total/NA	Solid	3050B	
680-89275-28	CV1091A-CS (sieve)	Total/NA	Solid	3050B	
LCS 680-273045/3-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 680-273045/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 273129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89275-2	CV0877A-CS	Total/NA	Solid	7471B	272882
680-89275-2 MS	CV0877A-CS	Total/NA	Solid	7471B	272882
680-89275-2 MSD	CV0877A-CS	Total/NA	Solid	7471B	272882
680-89275-5	CV1086A-CS	Total/NA	Solid	7471B	272882
LCS 680-272882/2-A	Lab Control Sample	Total/NA	Solid	7471B	272882
MB 680-272882/1-A	Method Blank	Total/NA	Solid	7471B	272882

Prep Batch: 273176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89275-26	CV0877A-CS (sieve)	Total/NA	Solid	7471B	
680-89275-26 MS	CV0877A-CS (sieve)	Total/NA	Solid	7471B	
680-89275-26 MSD	CV0877A-CS (sieve)	Total/NA	Solid	7471B	
680-89275-27	CV1086A-CS (sieve)	Total/NA	Solid	7471B	

TestAmerica Savannah

QC Association Summary

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

TestAmerica Job ID: 680-89275-3
 SDG: 68089275-3

Metals (Continued)

Prep Batch: 273176 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89275-28	CV1091A-CS (sieve)	Total/NA	Solid	7471B	
LCS 680-273176/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 680-273176/1-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 273336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89275-1	04113-RB-Bowls + Spoons	Total/NA	Water	245.1	273023
LCS 680-273023/2-A	Lab Control Sample	Total/NA	Water	245.1	273023
MB 680-273023/1-A	Method Blank	Total/NA	Water	245.1	273023

Analysis Batch: 273344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89275-1	04113-RB-Bowls + Spoons	Total/NA	Water	200.7 Rev 4.4	272923
LCS 680-272923/3-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	272923
MB 680-272923/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	272923

Analysis Batch: 273523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89275-26	CV0877A-CS (sieve)	Total/NA	Solid	7471B	273176
680-89275-26 MS	CV0877A-CS (sieve)	Total/NA	Solid	7471B	273176
680-89275-26 MSD	CV0877A-CS (sieve)	Total/NA	Solid	7471B	273176
680-89275-27	CV1086A-CS (sieve)	Total/NA	Solid	7471B	273176
680-89275-28	CV1091A-CS (sieve)	Total/NA	Solid	7471B	273176
LCS 680-273176/2-A	Lab Control Sample	Total/NA	Solid	7471B	273176
MB 680-273176/1-A	Method Blank	Total/NA	Solid	7471B	273176

Analysis Batch: 273539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89275-2	CV0877A-CS	Total/NA	Solid	6010C	272935
680-89275-2 MS	CV0877A-CS	Total/NA	Solid	6010C	272935
680-89275-2 MSD	CV0877A-CS	Total/NA	Solid	6010C	272935
680-89275-5	CV1086A-CS	Total/NA	Solid	6010C	272935
680-89275-26	CV0877A-CS (sieve)	Total/NA	Solid	6010C	273045
680-89275-27	CV1086A-CS (sieve)	Total/NA	Solid	6010C	273045
680-89275-28	CV1091A-CS (sieve)	Total/NA	Solid	6010C	273045
LCS 680-272935/3-A	Lab Control Sample	Total/NA	Solid	6010C	272935
LCS 680-273045/3-A	Lab Control Sample	Total/NA	Solid	6010C	273045
MB 680-272935/1-A	Method Blank	Total/NA	Solid	6010C	272935
MB 680-273045/1-A	Method Blank	Total/NA	Solid	6010C	273045

General Chemistry

Analysis Batch: 136438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89275-2	CV0877A-CS	Total/NA	Solid	Moisture	
680-89275-2 MS	CV0877A-CS	Total/NA	Solid	Moisture	
680-89275-2 MSD	CV0877A-CS	Total/NA	Solid	Moisture	
680-89275-5	CV1086A-CS	Total/NA	Solid	Moisture	
LCS 660-136438/1	Lab Control Sample	Total/NA	Solid	Moisture	
LCSD 660-136438/22	Lab Control Sample Dup	Total/NA	Solid	Moisture	

TestAmerica Savannah

QC Association Summary

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

TestAmerica Job ID: 680-89275-3
SDG: 68089275-3

General Chemistry (Continued)

Analysis Batch: 272906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89275-26	CV0877A-CS (sieve)	Total/NA	Solid	Moisture	
680-89275-27	CV1086A-CS (sieve)	Total/NA	Solid	Moisture	
680-89275-28	CV1091A-CS (sieve)	Total/NA	Solid	Moisture	

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Lab Chronicle

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

TestAmerica Job ID: 680-89275-3
 SDG: 68089275-3

Client Sample ID: 04113-RB-Bowls + Spoons

Lab Sample ID: 680-89275-1

Date Collected: 04/11/13 08:10

Matrix: Water

Date Received: 04/12/13 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	245.1			273023	04/15/13 09:40	UU	TAL SAV
Total/NA	Analysis	245.1		1	273336	04/16/13 20:51	BCB	TAL SAV
Total/NA	Prep	200.7			272923	04/12/13 16:26	BB	TAL SAV
Total/NA	Analysis	200.7 Rev 4.4		1	273344	04/16/13 19:34	BCB	TAL SAV

Client Sample ID: CV0877A-CS

Lab Sample ID: 680-89275-2

Date Collected: 04/10/13 14:15

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			272882	04/12/13 14:07	UU	TAL SAV
Total/NA	Analysis	7471B		2	273129	04/15/13 16:22	BCB	TAL SAV
Total/NA	Prep	3050B			272935	04/12/13 16:55	JKL	TAL SAV
Total/NA	Analysis	6010C		1	273539	04/17/13 14:11	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	136438	04/15/13 07:46	AG	TAL TAM

Client Sample ID: CV1086A-CS

Lab Sample ID: 680-89275-5

Date Collected: 04/10/13 09:50

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 72.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			272882	04/12/13 14:07	UU	TAL SAV
Total/NA	Analysis	7471B		1	273129	04/15/13 15:45	BCB	TAL SAV
Total/NA	Prep	3050B			272935	04/12/13 16:55	JKL	TAL SAV
Total/NA	Analysis	6010C		1	273539	04/17/13 14:45	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	136438	04/15/13 09:15	AG	TAL TAM

Client Sample ID: CV0877A-CS (sieve)

Lab Sample ID: 680-89275-26

Date Collected: 04/10/13 14:15

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 80.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			273176	04/16/13 09:45	UU	TAL SAV
Total/NA	Analysis	7471B		2	273523	04/17/13 17:29	BCB	TAL SAV
Total/NA	Prep	3050B			273045	04/15/13 10:41	JKL	TAL SAV
Total/NA	Analysis	6010C		1	273539	04/18/13 05:02	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	272906	04/12/13 16:25	FS	TAL SAV

Lab Chronicle

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

TestAmerica Job ID: 680-89275-3
 SDG: 68089275-3

Client Sample ID: CV1086A-CS (sieve)

Lab Sample ID: 680-89275-27

Date Collected: 04/10/13 09:50

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 76.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			273176	04/16/13 09:45	UU	TAL SAV
Total/NA	Analysis	7471B		1	273523	04/17/13 14:50	BCB	TAL SAV
Total/NA	Prep	3050B			273045	04/15/13 10:41	JKL	TAL SAV
Total/NA	Analysis	6010C		1	273539	04/18/13 05:08	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	272906	04/12/13 16:25	FS	TAL SAV

Client Sample ID: CV1091A-CS (sieve)

Lab Sample ID: 680-89275-28

Date Collected: 04/10/13 09:00

Matrix: Solid

Date Received: 04/12/13 09:50

Percent Solids: 79.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			273176	04/16/13 09:45	UU	TAL SAV
Total/NA	Analysis	7471B		2	273523	04/17/13 17:36	BCB	TAL SAV
Total/NA	Prep	3050B			273045	04/15/13 10:41	JKL	TAL SAV
Total/NA	Analysis	6010C		1	273539	04/18/13 05:14	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	272906	04/12/13 16:25	FS	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>1</i> OF <i>3</i>
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(b) (6)

COMPOSITE (C) OR GRAB (G) INDICATE
AQUEOUS (WATER)
SOLID OR SEMISOLID
AIR
NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

LL PAH

REPAH Metals

PRESERVATIVE

STANDARD REPORT DELIVERY

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE)

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: _____

COMPANY CONTRACTING THIS WORK (if applicable)

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS										REMARKS		
DATE	TIME							NUMBER OF CONTAINERS SUBMITTED												
<i>4-11-13</i>	<i>0810</i>	<i>041113-RB - Bowls + Spoons</i>	<i>X</i>					<i>X</i>	<i>X</i>											
<i>4-10-13</i>	<i>1415</i>	<i>CV 0877A - CS</i>	<i>C</i>	<i>X</i>				<i>X</i>	<i>X</i>											
	<i>1300</i>	<i>CV 0951A - CS</i>	<i>C</i>	<i>X</i>				<i>X</i>												
	<i>1300</i>	<i>CV 0951A - CSD</i>	<i>C</i>	<i>X</i>				<i>X</i>												
	<i>0950</i>	<i>CV 1086A - CS</i>	<i>C</i>	<i>X</i>				<i>X</i>	<i>X</i>											
	<i>1000</i>	<i>CV 1086B - GS</i>	<i>G</i>	<i>X</i>				<i>X</i>												
	<i>1010</i>	<i>CV 1086C - GS</i>	<i>G</i>	<i>X</i>				<i>X</i>												
	<i>0900</i>	<i>CV 1088A - CS</i>	<i>C</i>	<i>X</i>				<i>X</i>												
	<i>0930</i>	<i>CV 1088B - GS</i>	<i>G</i>	<i>X</i>				<i>X</i>												
	<i>0840</i>	<i>CV 1090A - CS</i>	<i>C</i>	<i>X</i>				<i>X</i>												
	<i>0840</i>	<i>CV 1090A - CSD</i>	<i>C</i>	<i>X</i>				<i>X</i>												
	<i>0900</i>	<i>CV 1091A - CS</i>	<i>C</i>	<i>X</i>				<i>X</i>	<i>X</i>											

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>4-11-13</i>	TIME <i>1530</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>04/12/13</i>	TIME <i>0950</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680</i> <i>89275</i>	LABORATORY REMARKS <i>2.2^{cc}</i>
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Page 18 of 23

1/2/13



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>3</i>	OF <i>3</i>
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(b) (6)

COMPOSITE (C) OR GRAB (G) INDICATE
AQUEOUS (WATER)
SOLID OR SEMISOLID
AIR
NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

LLPAM
REAS Metals

PRESERVATIVE

STANDARD REPORT DELIVERY

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE)

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

COMPANY CONTRACTING THIS WORK (if applicable)

Page 19 of 23

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS			
DATE	TIME							1	2	3	4	5	6	7	8	9	10		11	12	
<i>1405</i>	<i>4-10-13</i>	<i>CV0886B - CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>														
<i>1415</i>		<i>CV0877A - CS (sieve)</i>	<i>C</i>	<i>X</i>				<i>X</i>													
<i>0950</i>		<i>CV1086A - CS (sieve)</i>	<i>C</i>	<i>X</i>				<i>X</i>													
<i>0900</i>		<i>CV1091A - CS (sieve)</i>	<i>C</i>	<i>X</i>				<i>X</i>													

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>4-11-13</i>	TIME <i>1530</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>4/12/13</i>	TIME <i>0900</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680</i> <i>89275</i>	LABORATORY REMARKS <i>2.2 °C</i>
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Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89275-3

SDG Number: 68089275-3

Login Number: 89275

List Number: 1

Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89275-3

SDG Number: 68089275-3

Login Number: 89275

List Number: 1

Creator: Edwards, Erricka

List Source: TestAmerica Tampa

List Creation: 04/13/13 11:04 AM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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: 680-89275-3
 SDG: 68089275-3

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	05-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12 *
Kentucky (UST)	State Program	4	18	03-31-13 *
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-14
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-13
Florida	NELAP	4	E84282	06-30-13
Georgia	State Program	4	905	06-30-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Savannah

Certification Summary

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

TestAmerica Job ID: 680-89275-3
SDG: 68089275-3

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
USDA	Federal		P330-11-00177	04-20-14

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