

**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
 Concurrence¹: Martha Meyers-Lee

Project No: 15268508.20000
 Job ID.: 680-88913-2
 Associated Samples: Refer to Attachment A (Sample Summary)
 Date Collected: 04/01/13
 Date: 04/19/13
 Date: 04/26/13

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

¹ Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
11. Were target analytes reported in equipment/rinsate blanks analyses above the DL?	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. Rinsate blank 040213-RB-sieve (680-88913-17) was collected during the week of 4/01/13. The rinsate blank was analyzed for metals by EPA Methods 200.7 and 245.1 under this Test America Job ID. The following analytes were detected during the analysis of the rinsate blank: Lead @ 15 µg/L (RL 10, MDL 4.0)	
12. Were contaminants detected in samples below the blank contamination action level? <ul style="list-style-type: none"> ○ 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 		✓		An evaluation of the effect of blank contamination on soil sample results was based on method and rinsate blank results, and not calibration blank results. A blank contamination action level (BCAL) of 150 µg/L was developed for lead by multiplying the amount observed in the rinsate blank by a factor of 10. Sample-specific BCALs were developed by taking into account sample preparation factors, dilution factors, and percent solids (refer to Attachment B). Qualification of data is not warranted, as all sample results were greater than sample-specific BCALs.	
13. Are there negative laboratory blank results with the absolute value ≤RL? If yes, then flag positive and non-detect sample results that are < 10x absolute blank value as J- and UJ, respectively.			✓		
14. Was a field duplicate analyzed?			✓		
15. Was precision deemed acceptable as defined by the project plans?			✓		

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<p>16. Were initial and continuing calibration standards analyzed at the lab/project-specified frequency for each instrument?</p> <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"> • 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 	✓			<ul style="list-style-type: none"> • 200.7: 04/05/2013-04/06/2013, instrument ICPE. One blank and one standard initially per analytical batch. ICV initially, and CCV every 10 samples and at end of run. CRI after initial calibration blank analysis. • 245.1: 04/05/2013-04/06/2013, 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: 04/05/2013-04/06/2013, instrument ICPE. One blank and one standard initially per analytical batch. ICV initially, and CCV every 10 samples and at end of run. CRI after initial calibration blank analysis • 7471B: 04/04/2013, 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. 	
<p>17. Were these results within lab/project specifications?</p> <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 	✓			<p>Mercury correlation coefficient:</p> <ul style="list-style-type: none"> • 245.1: ICAL of 04/05/2013 is 0.9999435 (page 318) • 7471B: ICAL of 04/04/2013 is 0.9998863 (page 322) 	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<p>positive results</p> <ul style="list-style-type: none"> ○ 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: 70-130%R): <ul style="list-style-type: none"> ▪ If CRI %R <50, then R flag results ≤ 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 ≤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 					
<p>18. Was the interference check sample (ICS) analyzed at the beginning of each ICP analytical run?</p>	✓				
<p>19. Are ICS recoveries within 80-120% of the true value? If not, qualify data as follows when native Al, Fe, Ca, and Mg sample concentrations are equal to or greater than the ICS spiking level:</p> <ul style="list-style-type: none"> ○ If >120%R (or >>true value plus 2x CRQL), J+ flag positive results ○ If 50-79%R (or less than true value – 2x the CRQL), J- flag positive results and UJ flag non-detects ○ If <50%R, J- flag positive results and R-flag non-detects 	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
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 • >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 271953: 680-88888-1 (Batch sample), MS/MSD • 245.1, Prep Batch 271877: 680-88919-1 (Batch sample), MS/MSD • 6010C, Prep Batch 271798: 680-88913-2 (CV0116B-CS-SP), MS/MSD • 7471B, Prep Batch 271744: 680-88913-2 (CV0116B-CS-SP), MS/MSD 	
25. Was a post-digestion spike (PDS) analysis conducted when MS and/or MSD results did not meet control limits (Note: PDS is not required for silver)?	✓			<ul style="list-style-type: none"> • 200.7: 680-88888-1 (Batch sample) • 6010C: 680-88913-2 (CV0116B-CS-SP) 	
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?		✓		CV0116B-CS-SP (680-88913-2) <ul style="list-style-type: none"> • Barium @ -31 and 115 %R (75-125). An evaluation of interference is not possible based on MS and MSD results². PDS recovery (99%) fell within control limits (75-125). 	J

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

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<p><i>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 				<ul style="list-style-type: none"> • Chromium @ 121 and 68 %R (75-125). Qualification of the data is not necessary³. PDS recovery (98%) fell within control limits (75-125). • Lead @ -117 and -256 %R (75-125). An evaluation of interference is not possible based on MS and MSD results². PDS recovery (92%) fell within control limits (75-125). • Silver @ 14 and 12 %R (75-125). PDS recovery (99%) fell within control limits (75-125). J Flag sample result • Mercury @ 101 and 60%R (80-120). Qualification of the data is not necessary³. 	
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>	✓				
○ If RPD >20%, J and UJ flag positive and non-detect results.					
28. Was a serial dilution conducted for 6010C?	✓			<ul style="list-style-type: none"> • 200.7: 680-88888-1 (Batch sample) • 6010C: 680-88913-2 (CV0116B-CS-SP) 	
29. Is the serial dilution parent sample a project-specific sample?	✓				
30. Is the percent difference between the serially diluted result and undiluted result less 10% (for those analytes with native concentrations greater than 50x the DL)? <i>Only QC results for project samples that are reported under this Job ID are</i>		✓		CV0116B-CS-SP (680-88913-2): <ul style="list-style-type: none"> • Barium @ 16 %D (≤10%) • Chromium @ 16 %D (≤10%) • Lead @ 17 %D (≤10%) 	J

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
<i>evaluated.</i> ○ If %D >10, J and UJ flag positive and non-detect results, respectively.				J Flag positive barium, chromium, and lead results in sample CV0116B-CS-SP.	
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> ○ 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 C (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 D). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment</p>					

DV Flag Definitions:

- J- The result is an estimated quantity, but the result may be biased low.
- J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The result is an estimated quantity, but the result may be biased high.
- R The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
- U The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
- UJ The analyte was analyzed for, but was not detected. The reported limit is approximate and may be inaccurate or imprecise.

ATTACHMENT A
SAMPLE SUMMARY

Sample Summary

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

TestAmerica Job ID: 680-88913-2
SDG: 680088913-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88913-2	CV0116B-CS-SP	Solid	04/01/13 14:40	04/03/13 09:27
680-88913-4	CV0501B-CS-SP	Solid	04/01/13 14:00	04/03/13 09:27
680-88913-17	040213-RB-sieve	Water	04/02/13 09:10	04/03/13 09:27

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ATTACHMENT B

BLANK CONTAMINATION EVALUATION

Sample-Specific Blank Contamination Action Levels

6010C:

		Sample ID:		CV0116B-CS-SP	CV0501B-CS-SP
		Lab Sample ID:		680-88913-2	680-88913-4
		%S:		59.0	60.3
		DF:		1	1
		Wt, g:		1.02	1.16
		Blank Results, µg/L		Vol , ml:	
				100	100
Analyte	RL, µg/L	112712-RB-Sieves	Maximum Amount Detected¹, µg/L	Action Level², µg/L	Sample-Specific Blank Contamination Action Levels, mg/Kg
Lead (Pb)	10	15	15	150	25 21
Reported Sample Result, mg/Kg:				190	210
Reporting Limit, mg/Kg:				1.7	1.4
Blank Contamination Action:				None ³	None ³

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

¹ Maximum amount detected in among all blanks

² Maximum amount detected in blanks multiplied by a factor of 10

³ Qualification of data is not warranted, because the sample concentration is greater than the sample-specific BCAL

Blank Contamination Actions:

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

ATTACHMENT C

CASE NARRATIVE

Case Narrative

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

TestAmerica Job ID: 680-88913-2
SDG: 680088913-1

Job ID: 680-88913-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88913-2

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

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

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

RECEIPT

The samples were received on 04/03/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.0 C.

METALS (ICP)

Sample 040213-RB-sieve (680-88913-17) was analyzed for Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 04/04/2013 and analyzed on 04/05/2013.

Silver recovered outside the recovery criteria for the MS/MSD of sample 680-88888-1 in batch 680-272160.

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

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Sample 040213-RB-sieve (680-88913-17) was analyzed for total mercury in accordance with EPA Method 245.1. The samples were prepared on 04/04/2013 and analyzed on 04/05/2013.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

METALS (ICP)

Samples CV0116B-CS-SP (680-88913-2) and CV0501B-CS-SP (680-88913-4) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 04/03/2013 and analyzed on 04/06/2013.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0116B-CS-SP (680-88913-2) in batch 680-272761. Lead failed the recovery criteria high.

No other difficulties were encountered during the metals analyses.

Case Narrative

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

TestAmerica Job ID: 680-88913-2
SDG: 680088913-1

Job ID: 680-88913-2 (Continued)

Laboratory: TestAmerica Savannah (Continued)

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples CV0116B-CS-SP (680-88913-2) and CV0501B-CS-SP (680-88913-4) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 04/03/2013 and analyzed on 04/04/2013.

Mercury recovered outside the recovery criteria for the MSD of sample CV0116B-CS-SP (680-88913-2) in batch 680-272064.

No other difficulties were encountered during the mercury analyses.

All other quality control parameters were within the acceptance limits.

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ATTACHMENT D
QUALIFIED SAMPLE RESULTS

Client Sample Results

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

TestAmerica Job ID: 680-88913-2
 SDG: 680088913-1

Client Sample ID: CV0116B-CS-SP

Lab Sample ID: 680-88913-2

Date Collected: 04/01/13 14:40

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 59.0

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	31		3.3	0.98	mg/Kg	☼	04/03/13 16:02	04/06/13 07:09	1
Barium	200	J	1.7	0.50	mg/Kg	☼	04/03/13 16:02	04/06/13 07:09	1
Cadmium	1.8		0.83	0.17	mg/Kg	☼	04/03/13 16:02	04/06/13 07:09	1
Chromium	51	J	1.7	0.83	mg/Kg	☼	04/03/13 16:02	04/06/13 07:09	1
Lead	190	J	1.7	0.88	mg/Kg	☼	04/03/13 16:02	04/06/13 07:09	1
Selenium	4.2	U	4.2	1.7	mg/Kg	☼	04/03/13 16:02	04/06/13 07:09	1
Silver	0.17	J	1.7	0.16	mg/Kg	☼	04/03/13 16:02	04/06/13 07:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.23		0.031	0.013	mg/Kg	☼	04/03/13 12:47	04/04/13 15:59	1

Client Sample ID: CV0501B-CS-SP

Lab Sample ID: 680-88913-4

Date Collected: 04/01/13 14:00

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 60.3

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	54		2.9	0.84	mg/Kg	☼	04/03/13 16:02	04/06/13 07:42	1
Barium	270		1.4	0.43	mg/Kg	☼	04/03/13 16:02	04/06/13 07:42	1
Cadmium	2.0		0.71	0.14	mg/Kg	☼	04/03/13 16:02	04/06/13 07:42	1
Chromium	57		1.4	0.71	mg/Kg	☼	04/03/13 16:02	04/06/13 07:42	1
Lead	210		1.4	0.76	mg/Kg	☼	04/03/13 16:02	04/06/13 07:42	1
Selenium	3.6	U	3.6	1.4	mg/Kg	☼	04/03/13 16:02	04/06/13 07:42	1
Silver	0.59	J	1.4	0.14	mg/Kg	☼	04/03/13 16:02	04/06/13 07:42	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	0.32		0.030	0.012	mg/Kg	☼	04/03/13 12:47	04/04/13 16:12	1

Client Sample ID: 040213-RB-sieve

Lab Sample ID: 680-88913-17

Date Collected: 04/02/13 09:10

Matrix: Water

Date Received: 04/03/13 09:27

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		04/04/13 15:38	04/05/13 16:38	1
Barium	10	U	10	2.3	ug/L		04/04/13 15:38	04/05/13 16:38	1
Cadmium	5.0	U	5.0	2.0	ug/L		04/04/13 15:38	04/05/13 16:38	1
Chromium	10	U	10	1.2	ug/L		04/04/13 15:38	04/05/13 16:38	1
Lead	15		10	4.0	ug/L		04/04/13 15:38	04/05/13 16:38	1
Selenium	20	U	20	6.4	ug/L		04/04/13 15:38	04/05/13 16:38	1
Silver	10	U	10	0.89	ug/L		04/04/13 15:38	04/05/13 16:38	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		04/04/13 10:49	04/05/13 17:02	1

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

ANALYTICAL REPORT

Job Number: 680-88913-2

SDG Number: 680088913-1

Job Description: 35th Avenue Superfund Site

For:

Oneida Total Integrated Enterprises LLC

1220 Kennestone Circle

Suite 106

Marietta, GA 30060

Attention: Ms. Limari F Krebs



Approved for release.
Bernard Kirkland
Project Manager I
4/11/2013 7:09 PM

Designee for

Lisa Harvey

Project Manager II

lisa.harvey@testamericainc.com

04/11/2013

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

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

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88913-2

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

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

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

RECEIPT

The samples were received on 04/03/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.0 C.

METALS (ICP)

Sample 040213-RB-sieve (680-88913-17) was analyzed for Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 04/04/2013 and analyzed on 04/05/2013.

Silver recovered outside the recovery criteria for the MS/MSD of sample 680-88888-1 in batch 680-272160.

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

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Sample 040213-RB-sieve (680-88913-17) was analyzed for total mercury in accordance with EPA Method 245.1. The samples were prepared on 04/04/2013 and analyzed on 04/05/2013.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

METALS (ICP)

Samples CV0116B-CS-SP (680-88913-2) and CV0501B-CS-SP (680-88913-4) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 04/03/2013 and analyzed on 04/06/2013.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0116B-CS-SP (680-88913-2) in batch 680-272761. Lead failed the recovery criteria high.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples CV0116B-CS-SP (680-88913-2) and CV0501B-CS-SP (680-88913-4) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 04/03/2013 and analyzed on 04/04/2013.

Mercury recovered outside the recovery criteria for the MSD of sample CV0116B-CS-SP (680-88913-2) in batch 680-272064.

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: 680-88913-2
Sdg Number: 680088913-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-88913-2	CV0116B-CS-SP	Solid	04/01/2013 1440	04/03/2013 0927
680-88913-2MS	CV0116B-CS-SP	Solid	04/01/2013 1440	04/03/2013 0927
680-88913-2MSD	CV0116B-CS-SP	Solid	04/01/2013 1440	04/03/2013 0927
680-88913-4	CV0501B-CS-SP	Solid	04/01/2013 1400	04/03/2013 0927
680-88913-17	040213-RB-sieve	Water	04/02/2013 0910	04/03/2013 0927

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88913-2

Sdg Number: 680088913-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Metals (ICP)	TAL SAV	SW846 6010C	
Preparation, Metals	TAL SAV		SW846 3050B
Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	TAL SAV	SW846 7471B	
Preparation, Mercury	TAL SAV		SW846 7471B
Percent Moisture	TAL TAM	EPA Moisture	
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: 680-88913-2

Sdg Number: 680088913-1

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

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88913-2

Sdg Number: 680088913-1

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.
	V	Serial Dilution exceeds the control limits

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88913-2

Sdg Number: 680088913-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
Metals					
Prep Batch: 680-271744					
LCS 680-271744/2-A	Lab Control Sample	T	Solid	7471B	
MB 680-271744/1-A	Method Blank	T	Solid	7471B	
680-88913-2	CV0116B-CS-SP	T	Solid	7471B	
680-88913-2MS	Matrix Spike	T	Solid	7471B	
680-88913-2MSD	Matrix Spike Duplicate	T	Solid	7471B	
680-88913-4	CV0501B-CS-SP	T	Solid	7471B	
Prep Batch: 680-271798					
LCS 680-271798/3-A	Lab Control Sample	T	Solid	3050B	
MB 680-271798/1-A	Method Blank	T	Solid	3050B	
680-88913-2	CV0116B-CS-SP	T	Solid	3050B	
680-88913-2MS	Matrix Spike	T	Solid	3050B	
680-88913-2MSD	Matrix Spike Duplicate	T	Solid	3050B	
680-88913-4	CV0501B-CS-SP	T	Solid	3050B	
Prep Batch: 680-271877					
LCS 680-271877/2-A	Lab Control Sample	T	Water	245.1	
MB 680-271877/1-A	Method Blank	T	Water	245.1	
680-88913-17	040213-RB-sieve	T	Water	245.1	
680-88919-A-1-B MS	Matrix Spike	T	Water	245.1	
680-88919-A-1-C MSD	Matrix Spike Duplicate	T	Water	245.1	
Prep Batch: 680-271953					
LCS 680-271953/3-A	Lab Control Sample	T	Water	200.7	
MB 680-271953/1-A	Method Blank	T	Water	200.7	
680-88888-A-1-B MS	Matrix Spike	T	Water	200.7	
680-88888-A-1-C MSD	Matrix Spike Duplicate	T	Water	200.7	
680-88913-17	040213-RB-sieve	T	Water	200.7	
Analysis Batch:680-272064					
LCS 680-271744/2-A	Lab Control Sample	T	Solid	7471B	680-271744
MB 680-271744/1-A	Method Blank	T	Solid	7471B	680-271744
680-88913-2	CV0116B-CS-SP	T	Solid	7471B	680-271744
680-88913-2MS	Matrix Spike	T	Solid	7471B	680-271744
680-88913-2MSD	Matrix Spike Duplicate	T	Solid	7471B	680-271744
680-88913-4	CV0501B-CS-SP	T	Solid	7471B	680-271744
Analysis Batch:680-272160					
LCS 680-271953/3-A	Lab Control Sample	T	Water	200.7 Rev 4.4	680-271953
MB 680-271953/1-A	Method Blank	T	Water	200.7 Rev 4.4	680-271953
680-88888-A-1-B MS	Matrix Spike	T	Water	200.7 Rev 4.4	680-271953
680-88888-A-1-C MSD	Matrix Spike Duplicate	T	Water	200.7 Rev 4.4	680-271953
680-88913-17	040213-RB-sieve	T	Water	200.7 Rev 4.4	680-271953

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88913-2

Sdg Number: 680088913-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:680-272204					
LCS 680-271877/2-A	Lab Control Sample	T	Water	245.1	680-271877
MB 680-271877/1-A	Method Blank	T	Water	245.1	680-271877
680-88913-17	040213-RB-sieve	T	Water	245.1	680-271877
680-88919-A-1-B MS	Matrix Spike	T	Water	245.1	680-271877
680-88919-A-1-C MSD	Matrix Spike Duplicate	T	Water	245.1	680-271877
Analysis Batch:680-272761					
LCS 680-271798/3-A	Lab Control Sample	T	Solid	6010C	680-271798
MB 680-271798/1-A	Method Blank	T	Solid	6010C	680-271798
680-88913-2	CV0116B-CS-SP	T	Solid	6010C	680-271798
680-88913-2MS	Matrix Spike	T	Solid	6010C	680-271798
680-88913-2MSD	Matrix Spike Duplicate	T	Solid	6010C	680-271798
680-88913-4	CV0501B-CS-SP	T	Solid	6010C	680-271798

Report Basis

T = Total

General Chemistry

Analysis Batch:660-136123					
680-88913-2	CV0116B-CS-SP	T	Solid	Moisture	
680-88913-2MS	Matrix Spike	T	Solid	Moisture	
680-88913-2MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88913-4	CV0501B-CS-SP	T	Solid	Moisture	

Report Basis

T = Total

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Savannah Job Number: 680-88913-2

SDG No.: 680088913-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
<u>CV0116B-CS-SP</u>	<u>680-88913-2</u>
<u>CV0501B-CS-SP</u>	<u>680-88913-4</u>
<u>040213-RB-sieve</u>	<u>680-88913-17</u>

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0116B-CS-SP Lab Sample ID: 680-88913-2
 Lab Name: TestAmerica Savannah Job No.: 680-88913-2
 SDG ID.: 680088913-1
 Matrix: Solid Date Sampled: 04/01/2013 14:40
 Reporting Basis: DRY Date Received: 04/03/2013 09:27
 % Solids: 59.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	31	3.3	0.98	mg/Kg			1	6010C
7440-39-3	Barium	200	1.7	0.50	mg/Kg			1	6010C
7440-43-9	Cadmium	1.8	0.83	0.17	mg/Kg			1	6010C
7440-47-3	Chromium	51	1.7	0.83	mg/Kg			1	6010C
7439-92-1	Lead	190	1.7	0.88	mg/Kg			1	6010C
7782-49-2	Selenium	4.2	4.2	1.7	mg/Kg	U		1	6010C
7440-22-4	Silver	0.17	1.7	0.16	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.23	0.031	0.013	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0501B-CS-SP

Lab Sample ID: 680-88913-4

Lab Name: TestAmerica Savannah

Job No.: 680-88913-2

SDG ID.: 680088913-1

Matrix: Solid

Date Sampled: 04/01/2013 14:00

Reporting Basis: DRY

Date Received: 04/03/2013 09:27

% Solids: 60.3

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	54	2.9	0.84	mg/Kg			1	6010C
7440-39-3	Barium	270	1.4	0.43	mg/Kg			1	6010C
7440-43-9	Cadmium	2.0	0.71	0.14	mg/Kg			1	6010C
7440-47-3	Chromium	57	1.4	0.71	mg/Kg			1	6010C
7439-92-1	Lead	210	1.4	0.76	mg/Kg			1	6010C
7782-49-2	Selenium	3.6	3.6	1.4	mg/Kg	U		1	6010C
7440-22-4	Silver	0.59	1.4	0.14	mg/Kg	J		1	6010C
7439-97-6	Mercury	0.32	0.030	0.012	mg/Kg			1	7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 040213-RB-sieve

Lab Sample ID: 680-88913-17

Lab Name: TestAmerica Savannah

Job No.: 680-88913-2

SDG ID.: 680088913-1

Matrix: Water

Date Sampled: 04/02/2013 09:10

Reporting Basis: WET

Date Received: 04/03/2013 09:27

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	15	10	4.0	ug/L			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

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-88913-2

SDG No.: 680088913-1

ICV Source: P_ICV_wk_00213 Concentration Units: ug/L

CCV Source: P_CCV_wk_00109

Analyte	ICV 680-272160/6 04/05/2013 10:54				CCV 680-272160/26 04/05/2013 13:08				CCV 680-272160/38 04/05/2013 14:30			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	1040		1000	104	487		500	97	490		500	98
Barium	1040		1000	104	4820		5000	96	4860		5000	97
Cadmium	1050		1000	105	481		500	96	487		500	97
Chromium	1050		1000	105	4920		5000	98	5020		5000	100
Lead	1020		1000	102	493		500	99	496		500	99
Selenium	988		1000	99	4910		5000	98	4930		5000	99
Silver	978		1000	98	504		500	101	510		500	102

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

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-88913-2

SDG No.: 680088913-1

ICV Source: P_ICV_wk_00213 Concentration Units: ug/L

CCV Source: P_CCV_wk_00109

Analyte	CCV 680-272160/42 04/05/2013 14:55				CCV 680-272160/50 04/05/2013 15:47				CCV 680-272160/62 04/05/2013 17:04			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	480		500	96	488		500	98	479		500	96
Barium	4810		5000	96	4820		5000	96	4800		5000	96
Cadmium	483		500	97	485		500	97	483		500	97
Chromium	4960		5000	99	4990		5000	100	4970		5000	99
Lead	492		500	98	494		500	99	492		500	98
Selenium	4930		5000	99	4960		5000	99	4910		5000	98
Silver	505		500	101	506		500	101	503		500	101

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

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-88913-2

SDG No.: 680088913-1

ICV Source: P_ICV_wk_00213 Concentration Units: ug/L

CCV Source: P_CCV_wk_00109

Analyte	ICV 680-272761/6 04/05/2013 10:54				CCV 680-272761/188 04/06/2013 06:37				CCV 680-272761/200 04/06/2013 07:55			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	1040		1000	104	493		500	99	485		500	97
Barium	1040		1000	104	4790		5000	96	4800		5000	96
Cadmium	1050		1000	105	472		500	94	473		500	95
Chromium	1050		1000	105	4830		5000	97	4850		5000	97
Lead	1020		1000	102	492		500	98	495		500	99
Selenium	988		1000	99	4780		5000	96	4800		5000	96
Silver	978		1000	98	501		500	100	506		500	101

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

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-88913-2

SDG No.: 680088913-1

ICV Source: hg_icvint_00084 Concentration Units: ug/L

CCV Source: Hg_Int_Cal_00090

Analyte	ICV 680-271740/35-A 04/04/2013 14:02				CCV 680-271740/32-A 04/04/2013 15:08				CCV 680-271740/32-A 04/04/2013 15:37			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	3.13		3.00	104	2.51		2.50	100	2.52		2.50	101

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

2A-IN
 CALIBRATION VERIFICATIONS
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-88913-2

SDG No.: 680088913-1

ICV Source: hg_icvint_00084 Concentration Units: ug/L

CCV Source: Hg_Int_Cal_00090

Analyte	CCV 680-271740/32-A 04/04/2013 16:07				CCV 680-271740/32-A 04/04/2013 16:14							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.55		2.50	102	2.51		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.: 680-88913-2

SDG No.: 680088913-1

ICV Source: hg_icvint_00085 Concentration Units: ug/L

CCV Source: Hg_Int_Cal_00091

Analyte	ICV 680-271877/31-A 04/05/2013 13:19				CCV 680-271877/28-A 04/05/2013 16:23				CCV 680-271877/28-A 04/05/2013 16:52			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	3.13		3.00	104	2.57		2.50	103	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.: 680-88913-2

SDG No.: 680088913-1

ICV Source: hg_icvint_00085 Concentration Units: ug/L

CCV Source: Hg_Int_Cal_00091

Analyte	CCV 680-271877/28-A 04/05/2013 17:21											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.56		2.50	102								

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

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88913-2
 SDG No.: 680088913-1
 Method: 200.7 Rev 4.4 Instrument ID: ICPE
 Lab Sample ID: CRI 680-272160/8 Concentration Units: ug/L
 CRQL Check Standard Source: P_CRI_00023

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	20.0	16.2	J	81	50-150
Barium	10.0	11.1		111	50-150
Cadmium	5.00	5.50		110	50-150
Chromium	10.0	10.6		106	50-150
Lead	10.0	10.8		108	50-150
Selenium	20.0	22.7		114	50-150
Silver	10.0	10.5		105	50-150

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

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88913-2
 SDG No.: 680088913-1
 Method: 6010C Instrument ID: ICPE
 Lab Sample ID: CRI 680-272761/8 Concentration Units: ug/L
 CRQL Check Standard Source: P_CRI_00023

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	20.0	16.2	J	81	50-150
Barium	10.0	11.1		111	50-150
Cadmium	5.00	5.50		110	50-150
Chromium	10.0	10.6		106	50-150
Lead	10.0	10.8		108	50-150
Selenium	20.0	22.7	J	114	50-150
Silver	10.0	10.5		105	50-150

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

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88913-2
 SDG No.: 680088913-1
 Method: 245.1 Instrument ID: LEEMAN2
 Lab Sample ID: CRA 680-271877/33-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	0.189	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.: 680-88913-2
 SDG No.: 680088913-1
 Method: 7471B Instrument ID: LEEMAN2
 Lab Sample ID: CRA 680-271740/37-A Concentration Units: ug/L
 CRQL Check Standard Source: Hg_Int_Cal_00090

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.216		108	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.: 680-88913-2

SDG No.: 680088913-1

Concentration Units: ug/L

Analyte	RL	ICBIS 680-272160/7 04/05/2013 11:01		CCB 680-272160/27 04/05/2013 13:15		CCB 680-272160/39 04/05/2013 14:36		CCB 680-272160/43 04/05/2013 15:02	
		Found	C	Found	C	Found	C	Found	C
Arsenic	20	20	U	20	U	20	U	20	U
Barium	10	10	U	10	U	10	U	10	U
Cadmium	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Chromium	10	10	U	10	U	10	U	10	U
Lead	10	10	U	10	U	10	U	10	U
Selenium	20	20	U	20	U	20	U	20	U
Silver	10	10	U	10	U	1.20	J	10	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88913-2

SDG No.: 680088913-1

Concentration Units: ug/L

Analyte	RL	CCB 680-272160/51 04/05/2013 15:53		CCB 680-272160/63 04/05/2013 17:11					
		Found	C	Found	C	Found	C	Found	C
Arsenic	20	20	U	20	U				
Barium	10	10	U	10	U				
Cadmium	5.0	5.0	U	5.0	U				
Chromium	10	10	U	1.43	J				
Lead	10	10	U	10	U				
Selenium	20	20	U	20	U				
Silver	10	10	U	10	U				

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88913-2

SDG No.: 680088913-1

Concentration Units: ug/L

Analyte	RL	ICBIS 680-272761/7 04/05/2013 11:01		CCB 680-272761/189 04/06/2013 06:43		CCB 680-272761/201 04/06/2013 08:01		Found	C
		Found	C	Found	C	Found	C		
Arsenic	20	20	U	20	U	20	U		
Barium	10	10	U	5.23	J	3.59	J		
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.: 680-88913-2

SDG No.: 680088913-1

Concentration Units: ug/L

Analyte	RL	ICB 680-271740/36-A 04/04/2013 14:05		CCB 680-271740/33-A 04/04/2013 15:11		CCB 680-271740/33-A 04/04/2013 15:40		CCB 680-271740/33-A 04/04/2013 16:09	
		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.: 680-88913-2

SDG No.: 680088913-1

Concentration Units: ug/L

Analyte	RL	CCB 680-271740/33-A 04/04/2013 16:17		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.: 680-88913-2

SDG No.: 680088913-1

Concentration Units: ug/L

Analyte	RL	ICB 680-271877/32-A 04/05/2013 13:21		CCB 680-271877/29-A 04/05/2013 16:25		CCB 680-271877/29-A 04/05/2013 16:54		CCB 680-271877/29-A 04/05/2013 17:24	
		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
METHOD BLANK
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88913-2
SDG No.: 680088913-1
Concentration Units: ug/L Lab Sample ID: MB 680-271953/1-A
Instrument Code: ICPE Batch No.: 272160

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	20	U		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.: 680-88913-2
SDG No.: 680088913-1
Concentration Units: mg/Kg Lab Sample ID: MB 680-271798/1-A
Instrument Code: ICPE Batch No.: 272761

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

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88913-2
SDG No.: 680088913-1
Concentration Units: ug/L Lab Sample ID: MB 680-271877/1-A
Instrument Code: LEEMAN2 Batch No.: 272204

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.: 680-88913-2
SDG No.: 680088913-1
Concentration Units: mg/Kg Lab Sample ID: MB 680-271744/1-A
Instrument Code: LEEMAN2 Batch No.: 272064

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.018	U		7471B

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-88913-2

SDG No.: 680088913-1

Lab Sample ID: ICSA 680-272160/9

Instrument ID: ICPE

Lab File ID: E04052013.csv

ICS Source: P_ICSA_wk_00030

Concentration Units: ug/L

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

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-88913-2

SDG No.: 680088913-1

Lab Sample ID: ICSAB 680-272160/10

Instrument ID: ICPE

Lab File ID: E04052013.csv

ICS Source: P_ICSAB_wk_00043

Concentration Units: ug/L

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

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-88913-2

SDG No.: 680088913-1

Lab Sample ID: ICSA 680-272761/9

Instrument ID: ICPE

Lab File ID: E0405REDO.csv

ICS Source: P_ICSA_wk_00030

Concentration Units: ug/L

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

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-88913-2

SDG No.: 680088913-1

Lab Sample ID: ICSAB 680-272761/10

Instrument ID: ICPE

Lab File ID: E0405REDO.csv

ICS Source: P_ICSAB_wk_00043

Concentration Units: ug/L

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

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

5A-IN
 MATRIX SPIKE SAMPLE RECOVERY
 METALS

Client ID: CV0116B-CS-SP MS

Lab ID: 680-88913-2 MS

Lab Name: TestAmerica Savannah

Job No.: 680-88913-2

SDG No.: 680088913-1

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 59.0

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	48.9	31	16.3	110	75-125		6010C
Barium	192	200	16.3	-31	75-125	4	6010C
Cadmium	9.45	1.8	8.15	94	75-125		6010C
Chromium	71.2	51	16.3	121	75-125		6010C
Lead	184	190	8.15	-117	75-125	4	6010C
Selenium	14.9	4.2 U	16.3	91	75-125		6010C
Silver	1.28 J	0.17 J	8.15	14	75-125	F	6010C
Mercury	0.397	0.23	0.163	101	80-120		7471B

SSR = Spiked Sample Result

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

5A-IN
 MATRIX SPIKE SAMPLE RECOVERY
 METALS

Client ID: _____ Lab ID: 680-88919-A-1-B MS
 Lab Name: TestAmerica Savannah Job No.: 680-88913-2
 SDG No.: 680088913-1
 Matrix: Water Concentration Units: ug/L
 % Solids: _____

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	1.03	0.20 U	1.00	103	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: 680-88888-A-1-B MS
 Lab Name: TestAmerica Savannah Job No.: 680-88913-2
 SDG No.: 680088913-1
 Matrix: Water Concentration Units: ug/L
 % Solids: _____

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	109	20 U	100	109	75-125		200.7 Rev 4.4
Barium	149	46	100	103	75-125		200.7 Rev 4.4
Cadmium	53.1	5.0 U	50.0	106	75-125		200.7 Rev 4.4
Chromium	109	10 U	100	109	75-125		200.7 Rev 4.4
Lead	52.7	10 U	50.0	105	75-125		200.7 Rev 4.4
Selenium	101	20 U	100	101	75-125		200.7 Rev 4.4
Silver	21.4	10 U	50.0	43	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 DUPLICATE SAMPLE RECOVERY
 METALS

Client ID: CV0116B-CS-SP MSD Lab ID: 680-88913-2 MSD
 Lab Name: TestAmerica Savannah Job No.: 680-88913-2
 SDG No.: 680088913-1
 Matrix: Solid Concentration Units: mg/Kg
 % Solids: 59.0

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	46.0	16.6	90	75-125	6	20		6010C
Barium	216	16.6	115	75-125	12	20	4	6010C
Cadmium	9.71	8.31	96	75-125	3	20		6010C
Chromium	62.7	16.6	68	75-125	13	20	F	6010C
Lead	215	8.31	256	75-125	15	20	4	6010C
Selenium	14.6	16.6	88	75-125	2	20		6010C
Silver	1.15 J	8.31	12	75-125	10	20	F	6010C
Mercury	0.332	0.166	60	80-120	18	20	F	7471B

SDR = Sample Duplicate Result

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

5A-IN
 MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
 METALS

Client ID: _____ Lab ID: 680-88919-A-1-C MSD
 Lab Name: TestAmerica Savannah Job No.: 680-88913-2
 SDG No.: 680088913-1
 Matrix: Water Concentration Units: ug/L
 % Solids: _____

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	1.02	1.00	102	70-130	1	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: 680-88888-A-1-C MSD
 Lab Name: TestAmerica Savannah Job No.: 680-88913-2
 SDG No.: 680088913-1
 Matrix: Water Concentration Units: ug/L
 % Solids: _____

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	109	100	109	75-125	0	20		200.7 Rev 4.4
Barium	152	100	106	75-125	2	20		200.7 Rev 4.4
Cadmium	53.4	50.0	107	75-125	0	20		200.7 Rev 4.4
Chromium	109	100	109	75-125	0	20		200.7 Rev 4.4
Lead	52.3	50.0	105	75-125	1	20		200.7 Rev 4.4
Selenium	102	100	102	75-125	1	20		200.7 Rev 4.4
Silver	17.5	50.0	35	75-125	20	20	F	200.7 Rev 4.4

SDR = Sample Duplicate Result

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

5B-IN
 POST DIGESTION SPIKE SAMPLE RECOVERY
 METALS

Client ID: CV0116B-CS-SP PDS

Lab ID: 680-88913-2 PDS

Lab Name: TestAmerica Savannah

Job No.: 680-88913-2

SDG No.: 680088913-1

Matrix: Solid

Concentration Units: mg/Kg

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	397	31	332	110	75-125		6010C
Barium	527	200	332	99	75-125		6010C
Cadmium	9.85	1.8	8.31	97	75-125		6010C
Chromium	84.1	51	33.2	98	75-125		6010C
Lead	270	190	83.1	92	75-125		6010C
Selenium	323	4.2	332	97	75-125		6010C
Silver	8.37	0.17	8.31	99	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: 680-88888-A-1-A PDS
 Lab Name: TestAmerica Savannah Job No.: 680-88913-2
 SDG No.: 680088913-1
 Matrix: Water Concentration Units: ug/L

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	2240	20 U	2000	112	75-125		200.7 Rev 4.4
Barium	2140	46	2000	104	75-125		200.7 Rev 4.4
Cadmium	51.9	5.0 U	50.0	104	75-125		200.7 Rev 4.4
Chromium	215	10 U	200	108	75-125		200.7 Rev 4.4
Lead	504	10 U	500	101	75-125		200.7 Rev 4.4
Selenium	2000	20 U	2000	100	75-125		200.7 Rev 4.4
Silver	50.8	10 U	50.0	102	75-125		200.7 Rev 4.4

SSR = Spiked Sample Result

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

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 680-271953/3-A

Lab Name: TestAmerica Savannah

Job No.: 680-88913-2

Sample Matrix: Water

LCS Source: MS Cal Stk_00019

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	200	220		110	85	115		200.7 Rev 4.4
Barium	200	202		101	85	115		200.7 Rev 4.4
Cadmium	200	203		102	85	115		200.7 Rev 4.4
Chromium	200	211		106	85	115		200.7 Rev 4.4
Lead	200	198		99	85	115		200.7 Rev 4.4
Selenium	200	199		99	85	115		200.7 Rev 4.4
Silver	200	203		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 680-271798/3-A

Lab Name: TestAmerica Savannah

Job No.: 680-88913-2

Sample Matrix: Solid

LCS Source: MS Cal Stk_00019

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	19.8	22.0		111	75	125		6010C
Barium	19.8	20.8		105	75	125		6010C
Cadmium	19.8	20.5		103	75	125		6010C
Chromium	19.8	21.4		108	75	125		6010C
Lead	19.8	20.3		102	75	125		6010C
Selenium	19.8	19.8		100	75	125		6010C
Silver	19.8	21.0		106	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 680-271877/2-A

Lab Name: TestAmerica Savannah

Job No.: 680-88913-2

Sample Matrix: Water

LCS Source: Hg_Int_Cal_00091

Analyte	Water (ug/L)						
	True	Found	C	%R	Limits	Q	Method
Mercury	2.50	2.50		100	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 680-271744/2-A

Lab Name: TestAmerica Savannah

Job No.: 680-88913-2

Sample Matrix: Solid

LCS Source: Hg_Int_Cal_00090

Analyte	Solid(mg/Kg)						
	True	Found	C	%R	Limits	Q	Method
Mercury	0.250	0.262		105	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: 680-88913-2

SDG No: 680088913-1

Lab Name: TestAmerica Savannah

Job No: 680-88913-2

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Arsenic	31		30.9		NC		6010C
Barium	200		228		16	V	6010C
Cadmium	1.8		1.96	J	NC		6010C
Chromium	51		59.8		16	V	6010C
Lead	190		226		17	V	6010C
Selenium	4.2	U	21	U	NC		6010C
Silver	0.17	J	8.3	U	NC		6010C

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

FORM VIII-IN

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

Lab ID: 680-88888-A-1-A SD ^5

SDG No: 680088913-1

Lab Name: TestAmerica Savannah

Job No: 680-88913-2

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	46		47.0	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

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Savannah

Job Number: 680-88913-2

SDG Number: 680088913-1

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: 680-88913-2

SDG Number: 680088913-1

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: 680-88913-2

SDG Number: 680088913-1

Matrix: Solid

Instrument ID: ICPE

Method: 6010C

MDL Date: 06/02/2009 00:00

Prep Method: 3050B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Arsenic		2	0.59
Barium		1	0.3
Cadmium		0.5	0.1
Chromium		1	0.5
Lead		1	0.53
Selenium		2.5	1
Silver		1	0.096

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-88913-2
SDG Number: 680088913-1
Matrix: Solid Instrument ID: ICPE
Method: 6010C XMDL Date: 06/02/2009 00:00

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Arsenic		20	5.9
Barium		10	3
Cadmium		5	1
Chromium		10	5
Lead		10	5.3
Selenium		25	10
Silver		10	0.96

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-88913-2
SDG Number: 680088913-1
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: 680-88913-2
SDG Number: 680088913-1
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: 680-88913-2

SDG Number: 680088913-1

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: 680-88913-2
SDG Number: 680088913-1
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: 680-88913-2

SDG No.: 680088913-1

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: 680-88913-2

SDG No.: 680088913-1

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: 680-88913-2

SDG No.: 680088913-1

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.: 680-88913-2

SDG No.: 680088913-1

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 680-271798/1-A	04/03/2013 16:02	271798	1.00		100
LCS 680-271798/3-A	04/03/2013 16:02	271798	1.01		100
680-88913-2	04/03/2013 16:02	271798	1.02		100
680-88913-2 MS	04/03/2013 16:02	271798	1.04		100
680-88913-2 MSD	04/03/2013 16:02	271798	1.02		100
680-88913-4	04/03/2013 16:02	271798	1.16		100

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-88913-2

SDG No.: 680088913-1

Prep Method: 200.7

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 680-271953/1-A	04/04/2013 15:38	271953		50	50
LCS 680-271953/3-A	04/04/2013 15:38	271953		50	50
680-88888-A-1-B MS	04/04/2013 15:38	271953		50	50
680-88888-A-1-C MSD	04/04/2013 15:38	271953		50	50
680-88913-17	04/04/2013 15:38	271953		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-88913-2

SDG No.: 680088913-1

Prep Method: 7471B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 680-271744/1-A	04/03/2013 12:47	271744	0.55		50
LCS 680-271744/2-A	04/03/2013 12:47	271744	0.50		50
680-88913-2	04/03/2013 12:47	271744	0.54		50
680-88913-2 MS	04/03/2013 12:47	271744	0.52		50
680-88913-2 MSD	04/03/2013 12:47	271744	0.51		50
680-88913-4	04/03/2013 12:47	271744	0.55		50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Savannah

Job No.: 680-88913-2

SDG No.: 680088913-1

Prep Method: 245.1

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 680-271877/1-A	04/04/2013 10:49	271877		50	50
LCS 680-271877/2-A	04/04/2013 10:49	271877		50	50
680-88919-A-1-B MS	04/04/2013 10:49	271877		50	50
680-88919-A-1-C MSD	04/04/2013 10:49	271877		50	50
680-88913-17	04/04/2013 10:49	271877		50	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88913-2

SDG No.: 680088913-1

Instrument ID: ICPE Method: 200.7 Rev 4.4

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

Lab Sample ID	D / F	Type	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			10:22																
ZZZZZZ			10:29																
ZZZZZZ			10:35																
ZZZZZZ			10:41																
ZZZZZZ			10:48																
ICV 680-272160/6	1		10:54	X	X	X	X	X	X	X									
ICBIS 680-272160/7	1		11:01	X	X	X	X	X	X	X									
CRI 680-272160/8	1		11:07	X	X	X	X	X	X	X									
ICSA 680-272160/9	1		11:13	X	X	X	X	X	X	X									
ICSAB 680-272160/10	1		11:20	X	X	X	X	X	X	X									
ZZZZZZ			11:26																
ZZZZZZ			11:33																
ZZZZZZ			11:39																
CCV 680-272160/14			11:51																
CCB 680-272160/15			11:58																
ZZZZZZ			12:04																
ZZZZZZ			12:10																
ZZZZZZ			12:17																
ZZZZZZ			12:23																
ZZZZZZ			12:30																
ZZZZZZ			12:36																
ZZZZZZ			12:42																
ZZZZZZ			12:49																
ZZZZZZ			12:55																
ZZZZZZ			13:02																
CCV 680-272160/26	1		13:08	X	X	X	X	X	X	X									
CCB 680-272160/27	1		13:15	X	X	X	X	X	X	X									
ZZZZZZ			13:21																
ZZZZZZ			13:27																
ZZZZZZ			13:34																
MB 680-271953/1-A	1	T	13:40	X	X	X	X	X	X	X									
LCS 680-271953/3-A	1	T	13:51	X	X	X	X	X	X	X									
ZZZZZZ			13:57																
ZZZZZZ			14:04																
ZZZZZZ			14:10																
ZZZZZZ			14:17																
ZZZZZZ			14:23																
CCV 680-272160/38	1		14:30	X	X	X	X	X	X	X									
CCB 680-272160/39	1		14:36	X	X	X	X	X	X	X									
ZZZZZZ			14:42																
ZZZZZZ			14:49																
CCV 680-272160/42	1		14:55	X	X	X	X	X	X	X									

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88913-2

SDG No.: 680088913-1

Instrument ID: ICPE Method: 200.7 Rev 4.4

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

Lab Sample ID	D / F	Type	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
CCB 680-272160/43	1		15:02	X	X	X	X	X	X	X									
ZZZZZZ			15:08																
680-88888-A-1-A SD ^5	5	T	15:14	X	X	X	X	X	X	X									
680-88888-A-1-A PDS	1	T	15:21	X	X	X	X	X	X	X									
680-88888-A-1-B MS	1	T	15:27	X	X	X	X	X	X	X									
680-88888-A-1-C MSD	1	T	15:34	X	X	X	X	X	X	X									
ZZZZZZ			15:40																
CCV 680-272160/50	1		15:47	X	X	X	X	X	X	X									
CCB 680-272160/51	1		15:53	X	X	X	X	X	X	X									
ZZZZZZ			16:00																
ZZZZZZ			16:06																
ZZZZZZ			16:12																
ZZZZZZ			16:19																
ZZZZZZ			16:26																
ZZZZZZ			16:32																
680-88913-17	1	T	16:38	X	X	X	X	X	X	X									
ZZZZZZ			16:45																
ZZZZZZ			16:51																
ZZZZZZ			16:58																
CCV 680-272160/62	1		17:04	X	X	X	X	X	X	X									
CCB 680-272160/63	1		17:11	X	X	X	X	X	X	X									
ZZZZZZ			17:17																
ZZZZZZ			17:24																
ZZZZZZ			17:30																
ZZZZZZ			17:36																
ZZZZZZ			17:43																
ZZZZZZ			17:50																
CCV 680-272160/70			17:56																
CCB 680-272160/71			18:03																
ZZZZZZ			18:09																
ZZZZZZ			18:16																
ZZZZZZ			18:22																
ZZZZZZ			18:28																
ZZZZZZ			18:35																
ZZZZZZ			18:41																
ZZZZZZ			18:48																
ZZZZZZ			18:54																
ZZZZZZ			19:01																
ZZZZZZ			19:07																
CCV 680-272160/82			19:13																
CCB 680-272160/83			19:20																
ZZZZZZ			19:26																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88913-2

SDG No.: 680088913-1

Instrument ID: ICPE Method: 200.7 Rev 4.4

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

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

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88913-2

SDG No.: 680088913-1

Instrument ID: ICPE Method: 200.7 Rev 4.4

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

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

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88913-2

SDG No.: 680088913-1

Instrument ID: ICPE Method: 200.7 Rev 4.4

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

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

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88913-2

SDG No.: 680088913-1

Instrument ID: ICPE Method: 200.7 Rev 4.4

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

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

Prep Types
T = Total/NA

13-IN
 ANALYSIS RUN LOG
 METALS

Lab Name: TestAmerica Savannah Job No.: 680-88913-2

SDG No.: 680088913-1

Instrument ID: ICPE Method: 6010C

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

Lab Sample ID	D / F	Type	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			10:22																
ZZZZZZ			10:29																
ZZZZZZ			10:35																
ZZZZZZ			10:41																
ZZZZZZ			10:48																
ICV 680-272761/6	1		10:54	X	X	X	X	X	X	X									
ICBIS 680-272761/7	1		11:01	X	X	X	X	X	X	X									
CRI 680-272761/8	1		11:07	X	X	X	X	X	X	X									
ICSA 680-272761/9	1		11:13	X	X	X	X	X	X	X									
ICSAB 680-272761/10	1		11:20	X	X	X	X	X	X	X									
ZZZZZZ			11:26																
ZZZZZZ			11:33																
ZZZZZZ			11:39																
CCV 680-272761/14			11:51																
CCB 680-272761/15			11:58																
ZZZZZZ			12:04																
ZZZZZZ			12:10																
ZZZZZZ			12:17																
ZZZZZZ			12:23																
ZZZZZZ			12:30																
ZZZZZZ			12:36																
ZZZZZZ			12:42																
ZZZZZZ			12:49																
ZZZZZZ			12:55																
ZZZZZZ			13:02																
CCV 680-272761/26			13:08																
CCB 680-272761/27			13:15																
ZZZZZZ			13:21																
ZZZZZZ			13:27																
ZZZZZZ			13:34																
ZZZZZZ			13:40																
ZZZZZZ			13:51																
ZZZZZZ			13:57																
ZZZZZZ			14:04																
ZZZZZZ			14:10																
ZZZZZZ			14:17																
ZZZZZZ			14:23																
CCV 680-272761/38			14:30																
CCB 680-272761/39			14:36																
ZZZZZZ			14:42																
ZZZZZZ			14:49																
CCV 680-272761/42			14:55																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88913-2

SDG No.: 680088913-1

Instrument ID: ICPE Method: 6010C

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

Lab Sample ID	D / F	T y p e	Time	Analytes														
				A g	A s	B a	C d	C r	P b	S e								
CCB 680-272761/43			15:02															
ZZZZZZ			15:08															
ZZZZZZ			15:14															
ZZZZZZ			15:21															
ZZZZZZ			15:27															
ZZZZZZ			15:34															
ZZZZZZ			15:40															
CCV 680-272761/50			15:47															
CCB 680-272761/51			15:53															
ZZZZZZ			16:00															
ZZZZZZ			16:06															
ZZZZZZ			16:12															
ZZZZZZ			16:19															
ZZZZZZ			16:26															
ZZZZZZ			16:32															
ZZZZZZ			16:38															
ZZZZZZ			16:45															
ZZZZZZ			16:51															
ZZZZZZ			16:58															
CCV 680-272761/62			17:04															
CCB 680-272761/63			17:11															
ZZZZZZ			17:17															
ZZZZZZ			17:24															
ZZZZZZ			17:30															
ZZZZZZ			17:36															
ZZZZZZ			17:43															
ZZZZZZ			17:50															
CCV 680-272761/70			17:56															
CCB 680-272761/71			18:03															
ZZZZZZ			18:09															
ZZZZZZ			18:16															
ZZZZZZ			18:22															
ZZZZZZ			18:28															
ZZZZZZ			18:35															
ZZZZZZ			18:41															
ZZZZZZ			18:48															
ZZZZZZ			18:54															
ZZZZZZ			19:01															
ZZZZZZ			19:07															
CCV 680-272761/82			19:13															
CCB 680-272761/83			19:20															
ZZZZZZ			19:26															

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88913-2

SDG No.: 680088913-1

Instrument ID: ICPE Method: 6010C

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

Lab Sample ID	D / F	T y p e	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			19:33																
ZZZZZZ			19:39																
ZZZZZZ			19:45																
ZZZZZZ			19:52																
ZZZZZZ			19:58																
ZZZZZZ			20:05																
ZZZZZZ			20:11																
ZZZZZZ			20:18																
ZZZZZZ			20:24																
CCV 680-272761/94			20:30																
CCB 680-272761/95			20:37																
ZZZZZZ			20:43																
ZZZZZZ			20:50																
ZZZZZZ			20:56																
ZZZZZZ			21:03																
ZZZZZZ			21:09																
ZZZZZZ			21:15																
ZZZZZZ			21:22																
ZZZZZZ			21:28																
ZZZZZZ			21:35																
ZZZZZZ			21:41																
CCV 680-272761/106			21:48																
CCB 680-272761/107			21:54																
ZZZZZZ			22:00																
ZZZZZZ			22:07																
ZZZZZZ			22:13																
ZZZZZZ			22:20																
ZZZZZZ			22:26																
ZZZZZZ			22:33																
ZZZZZZ			22:39																
ZZZZZZ			22:46																
ZZZZZZ			22:52																
ZZZZZZ			22:59																
CCV 680-272761/118			23:05																
CCB 680-272761/119			23:11																
ZZZZZZ			23:18																
ZZZZZZ			23:24																
ZZZZZZ			23:31																
ZZZZZZ			23:37																
ZZZZZZ			23:44																
ZZZZZZ			23:50																
ZZZZZZ			23:56																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88913-2

SDG No.: 680088913-1

Instrument ID: ICPE Method: 6010C

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

Lab Sample ID	D / F	Type	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			04:34																
ZZZZZZ			04:40																
ZZZZZZ			04:47																
ZZZZZZ			04:53																
ZZZZZZ			05:00																
ZZZZZZ			05:06																
ZZZZZZ			05:13																
CCV 680-272761/176			05:19																
CCB 680-272761/177			05:25																
ZZZZZZ			05:32																
ZZZZZZ			05:38																
ZZZZZZ			05:45																
ZZZZZZ			05:51																
ZZZZZZ			05:58																
ZZZZZZ			06:04																
ZZZZZZ			06:11																
ZZZZZZ			06:17																
ZZZZZZ			06:24																
ZZZZZZ			06:30																
CCV 680-272761/188	1		06:37	X	X	X	X	X	X	X									
CCB 680-272761/189	1		06:43	X	X	X	X	X	X	X									
MB 680-271798/1-A	1	T	06:50	X	X	X	X	X	X	X									
ZZZZZZ			06:56																
LCS 680-271798/3-A	1	T	07:02	X	X	X	X	X	X	X									
680-88913-2	1	T	07:09	X	X	X	X	X	X	X									
680-88913-2 SD	5	T	07:15	X	X	X	X	X	X	X									
680-88913-2 PDS	1	T	07:22	X	X	X	X	X	X	X									
680-88913-2 MS	1	T	07:29	X	X	X	X	X	X	X									
680-88913-2 MSD	1	T	07:35	X	X	X	X	X	X	X									
680-88913-4	1	T	07:42	X	X	X	X	X	X	X									
ZZZZZZ			07:48																
CCV 680-272761/200	1		07:55	X	X	X	X	X	X	X									
CCB 680-272761/201	1		08:01	X	X	X	X	X	X	X									
ZZZZZZ			08:08																
ZZZZZZ			08:14																
ZZZZZZ			08:20																
ZZZZZZ			08:27																
ZZZZZZ			08:33																
ZZZZZZ			08:40																
ZZZZZZ			08:46																
ZZZZZZ			08:53																
ZZZZZZ			08:59																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88913-2

SDG No.: 680088913-1

Instrument ID: ICPE Method: 6010C

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

Lab Sample ID	D / F	Type	Time	Analytes															
				A g	A s	B a	C d	C r	P b	S e									
ZZZZZZ			09:06																
CCV 680-272761/212			09:12																
CCB 680-272761/213			09:19																
ZZZZZZ			09:25																
ZZZZZZ			09:32																
ZZZZZZ			09:38																
ZZZZZZ			09:45																
ZZZZZZ			09:51																
ZZZZZZ			09:58																
ZZZZZZ			10:04																
ZZZZZZ			10:11																
ZZZZZZ			10:17																
ZZZZZZ			10:24																
CCV 680-272761/224			10:30																
CCB 680-272761/225			10:36																

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88913-2

SDG No.: 680088913-1

Instrument ID: LEEMAN2 Method: 245.1

Start Date: 04/05/2013 13:04 End Date: 04/06/2013 14:21

Lab Sample ID	D / F	T y p e	Time	Analytes															
				H g															
IC 680-271877/21-A			13:04	X															
IC 680-271877/22-A			13:06	X															
IC 680-271877/23-A			13:09	X															
IC 680-271877/24-A			13:11	X															
IC 680-271877/25-A			13:14	X															
IC 680-271877/26-A			13:16	X															
ICV 680-271877/31-A	1		13:19	X															
ICB 680-271877/32-A	1		13:21	X															
CRA 680-271877/33-A	1		13:24	X															
CCV 680-271877/28-A			13:26																
CCB 680-271877/29-A			13:28																
ZZZZZZ			13:31																
ZZZZZZ			13:33																
ZZZZZZ			13:36																
ZZZZZZ			13:38																
ZZZZZZ			13:41																
ZZZZZZ			13:43																
ZZZZZZ			13:45																
ZZZZZZ			13:48																
CCV 680-271877/28-A			13:50																
CCB 680-271877/29-A			13:53																
CCV 680-271877/28-A	1		16:23	X															
CCB 680-271877/29-A	1		16:25	X															
MB 680-271877/1-A	1	T	16:28	X															
LCS 680-271877/2-A	1	T	16:30	X															
ZZZZZZ			16:32																
ZZZZZZ			16:35																
680-88919-A-1-B MS	1	T	16:37	X															
680-88919-A-1-C MSD	1	T	16:40	X															
ZZZZZZ			16:42																
ZZZZZZ			16:45																
ZZZZZZ			16:47																
ZZZZZZ			16:49																
CCV 680-271877/28-A	1		16:52	X															
CCB 680-271877/29-A	1		16:54	X															
ZZZZZZ			16:57																
ZZZZZZ			16:59																
680-88913-17	1	T	17:02	X															
ZZZZZZ			17:04																
ZZZZZZ			17:06																
ZZZZZZ			17:09																
ZZZZZZ			17:11																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88913-2

SDG No.: 680088913-1

Instrument ID: LEEMAN2 Method: 245.1

Start Date: 04/05/2013 13:04 End Date: 04/06/2013 14:21

Lab Sample ID	D / F	Type	Time	Analytes															
				Hg															
ZZZZZZ			17:14																
ZZZZZZ			17:16																
ZZZZZZ			17:19																
CCV 680-271877/28-A	1		17:21	X															
CCB 680-271877/29-A	1		17:24	X															
ZZZZZZ			17:26																
ZZZZZZ			17:28																
ZZZZZZ			17:31																
ZZZZZZ			17:33																
ZZZZZZ			17:36																
ZZZZZZ			17:38																
ZZZZZZ			17:41																
ZZZZZZ			17:43																
ZZZZZZ			17:46																
ZZZZZZ			17:48																
CCV 680-271877/28-A			17:50																
CCB 680-271877/29-A			17:53																
ZZZZZZ			17:55																
ZZZZZZ			17:58																
ZZZZZZ			18:00																
ZZZZZZ			18:03																
ZZZZZZ			18:05																
ZZZZZZ			18:08																
ZZZZZZ			18:10																
ZZZZZZ			18:12																
ZZZZZZ			18:15																
ZZZZZZ			18:17																
CCV 680-271877/28-A			18:20																
CCB 680-271877/29-A			18:22																
ZZZZZZ			18:25																
ZZZZZZ			18:27																
ZZZZZZ			18:30																
ZZZZZZ			18:32																
ZZZZZZ			18:34																
ZZZZZZ			18:37																
ZZZZZZ			18:39																
ZZZZZZ			18:42																
ZZZZZZ			18:44																
ZZZZZZ			18:47																
CCV 680-271877/28-A			18:49																
CCB 680-271877/29-A			18:52																
ZZZZZZ			18:54																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88913-2

SDG No.: 680088913-1

Instrument ID: LEEMAN2 Method: 245.1

Start Date: 04/05/2013 13:04 End Date: 04/06/2013 14:21

Lab Sample ID	D / F	Type	Time	Analytes															
				Hg															
ZZZZZZ			18:56																
ZZZZZZ			18:59																
ZZZZZZ			19:01																
ZZZZZZ			19:04																
ZZZZZZ			19:06																
ZZZZZZ			19:09																
ZZZZZZ			19:11																
ZZZZZZ			19:14																
ZZZZZZ			19:16																
CCV 680-271877/28-A			19:19																
CCB 680-271877/29-A			19:21																
ZZZZZZ			19:23																
ZZZZZZ			19:26																
ZZZZZZ			19:28																
ZZZZZZ			19:31																
ZZZZZZ			19:33																
ZZZZZZ			19:36																
ZZZZZZ			19:38																
ZZZZZZ			19:40																
ZZZZZZ			19:43																
ZZZZZZ			19:45																
CCV 680-271877/28-A			19:48																
CCB 680-271877/29-A			19:50																
ZZZZZZ			19:53																
ZZZZZZ			19:55																
ZZZZZZ			19:58																
ZZZZZZ			20:00																
ZZZZZZ			20:03																
ZZZZZZ			20:05																
ZZZZZZ			20:07																
ZZZZZZ			20:10																
ZZZZZZ			20:12																
ZZZZZZ			20:15																
CCV 680-271877/28-A			20:17																
CCB 680-271877/29-A			20:20																
ZZZZZZ			20:22																
ZZZZZZ			20:25																
ZZZZZZ			20:27																
ZZZZZZ			20:29																
ZZZZZZ			20:32																
ZZZZZZ			20:34																
ZZZZZZ			20:37																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88913-2

SDG No.: 680088913-1

Instrument ID: LEEMAN2 Method: 245.1

Start Date: 04/05/2013 13:04 End Date: 04/06/2013 14:21

Lab Sample ID	D / F	T y p e	Time	Analytes																
				H g																
ZZZZZZ			20:39																	
ZZZZZZ			20:42																	
ZZZZZZ			20:44																	
CCV 680-271877/28-A			20:47																	
CCB 680-271877/29-A			20:49																	
ZZZZZZ			20:52																	
CCV 680-271877/28-A			20:54																	
CCB 680-271877/29-A			20:56																	
CCV 680-271877/28-A			14:11																	
CCB 680-271877/29-A			14:14																	
ZZZZZZ			14:16																	
CCV 680-271877/28-A			14:19																	
CCB 680-271877/29-A			14:21																	

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88913-2

SDG No.: 680088913-1

Instrument ID: LEEMAN2 Method: 7471B

Start Date: 04/04/2013 13:48 End Date: 04/04/2013 16:17

Lab Sample ID	D / F	Type	Time	Analytes															
				Hg															
IC 680-271740/25-A			13:48	X															
IC 680-271740/26-A			13:50	X															
IC 680-271740/27-A			13:53	X															
IC 680-271740/28-A			13:55	X															
IC 680-271740/29-A			13:57	X															
IC 680-271740/30-A			14:00	X															
ICV 680-271740/35-A	1		14:02	X															
ICB 680-271740/36-A	1		14:05	X															
CRA 680-271740/37-A	1		14:07	X															
CCV 680-271740/32-A			14:10																
CCB 680-271740/33-A			14:12																
ZZZZZZ			14:15																
ZZZZZZ			14:17																
ZZZZZZ			14:19																
ZZZZZZ			14:22																
ZZZZZZ			14:24																
ZZZZZZ			14:27																
ZZZZZZ			14:29																
ZZZZZZ			14:32																
ZZZZZZ			14:34																
ZZZZZZ			14:36																
CCV 680-271740/32-A			14:39																
CCB 680-271740/33-A			14:41																
ZZZZZZ			14:44																
ZZZZZZ			14:46																
ZZZZZZ			14:49																
ZZZZZZ			14:51																
ZZZZZZ			14:53																
ZZZZZZ			14:56																
ZZZZZZ			14:58																
ZZZZZZ			15:01																
ZZZZZZ			15:03																
ZZZZZZ			15:06																
CCV 680-271740/32-A	1		15:08	X															
CCB 680-271740/33-A	1		15:11	X															
ZZZZZZ			15:13																
ZZZZZZ			15:15																
ZZZZZZ			15:18																
ZZZZZZ			15:20																
MB 680-271744/1-A	1	T	15:23	X															
LCS 680-271744/2-A	1	T	15:25	X															
ZZZZZZ			15:28																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-88913-2

SDG No.: 680088913-1

Instrument ID: LEEMAN2 Method: 7471B

Start Date: 04/04/2013 13:48 End Date: 04/04/2013 16:17

Lab Sample ID	D / F	T y p e	Time	Analytes																
				H g																
ZZZZZZ			15:30																	
ZZZZZZ			15:32																	
ZZZZZZ			15:35																	
CCV 680-271740/32-A	1		15:37	X																
CCB 680-271740/33-A	1		15:40	X																
ZZZZZZ			15:42																	
ZZZZZZ			15:45																	
ZZZZZZ			15:47																	
ZZZZZZ			15:50																	
ZZZZZZ			15:52																	
ZZZZZZ			15:54																	
ZZZZZZ			15:57																	
680-88913-2	1	T	15:59	X																
680-88913-2 MS	1	T	16:02	X																
680-88913-2 MSD	1	T	16:04	X																
CCV 680-271740/32-A	1		16:07	X																
CCB 680-271740/33-A	1		16:09	X																
680-88913-4	1	T	16:12	X																
CCV 680-271740/32-A	1		16:14	X																
CCB 680-271740/33-A	1		16:17	X																

Prep Types

T = Total/NA

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

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

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

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

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

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

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	1000.00	ppb	930.150	1.1	82342.1
Al 308.215	10000.0	ppb	119.034	0.3	35867.0
As 188.980	1000.00	ppb	1.644	0.2	750.127
B 249.678	1000.00	ppb	80.073	0.7	12209.7
Ba 389.178	10000.0	ppb	320.485	0.1	273591
Be 313.042	1000.00	ppb	4513.312	0.2	2104872
Ca 370.602	10000	ppb	117.980	0.3	39616
Cd 226.502	1000.00	ppb	75.732	0.2	46419.1
Co 228.615	1000.00	ppb	6.578	0.0	13193.2
Cr 267.716	10000.0	ppb	820.364	0.2	522279
Cu 324.754	10000.0	ppb	6490.194	1.3	519143
Fe 271.441	10000.0	ppb	30.244	0.1	20543.8
K 766.491	20000.0	ppb	4085.461	0.4	1075572
Mg 279.078	10000.0	ppb	42.119	0.2	26116.6
Mn 257.610	10000.0	ppb	4248.772	0.2	2745735
Mo 202.032	1000.00	ppb	17.796	0.2	8549.18
Na 330.237	15000.0	ppb	8.885	1.0	908.794
Ni 231.604	5000.00	ppb	20.774	0.1	16827.5
Pb 220.353	1000.00	ppb	9.064	0.4	2268.19
Sb 206.834	2000.00	ppb	13.213	0.6	2164.27
Se 196.026	10000.0	ppb	24.934	0.4	5922.70
Sn 189.925	10000.0	ppb	50.083	0.5	10147.9
Sr 216.596	5000.00	ppb	211.683	0.3	66821.5
Ti 334.941	1000.00	ppb	945.786	0.3	289272
Tl 190.794	10000.0	ppb	11.023	0.1	12861.8
V 292.401	10000.0	ppb	867.194	0.3	315892
Zn 206.200	5000.00	ppb	16.405	0.2	9990.08

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Initial Calib Verif (ICV)

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

Rack S, Tube 3

Weight: 1

Volume: 1

Dilution: 1

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

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

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

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

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

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

Weight: 1 Volume: 1 Dilution: 1

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

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

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

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

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

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

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

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

Weight: 1

Volume: 1

Dilution: 1

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

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

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

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

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

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

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

Interf Check A (ICSA) 4/5/2013, 11:13:53 AM Rack S, Tube 5

Weight: 1

Volume: 1

Dilution: 1

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

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

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

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

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

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

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

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

Weight: 1 Volume: 1 Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3848b	ppb	0.0441	11.5	80.8894
Al 308.215	87.8169b	ppb	11.0860	12.6	319.895
As 188.980	19786.2xb	ppb	248.094	1.3	14798.5
B 249.678	4992.71b	ppb	40.5200	0.8	60719.4
Ba 389.178	-1.4396b	ppb	0.4441	30.8	-73.1731
Be 313.042	0.1623b	ppb	0.0081	5.0	-26.6906
Ca 370.602	531.5b	ppb	24.48	4.6	10369
Cd 226.502	-0.6117b	ppb	0.0375	6.1	-17.7442
Co 228.615	10482.5b	ppb	37.3974	0.4	139204
Cr 267.716	1.0002b	ppb	0.0533	5.3	266.496
Cu 324.754	37.7586b	ppb	0.0841	0.2	1841.61
Fe 271.441	-190.946b	ppb	4.2059	2.2	1568.03
K 766.491	34.5187b	ppb	0.6711	1.9	2070.44
Mg 279.078	78.2071b	ppb	8.2037	10.5	-340.448
Mn 257.610	28399.0xb	ppb	46.9930	0.2	7796986
Mo 202.032	1.4904b	ppb	0.4029	27.0	22.2809
Na 330.237	104279xb	ppb	285.693	0.3	6034.27
Ni 231.604	10329.6xb	ppb	21.0938	0.2	34763.6
Pb 220.353	19859.7xb	ppb	22.7538	0.1	44977.8
Sb 206.834	10.3978b	ppb	3.1992	30.8	14.2292
Se 196.026	6.8396b	ppb	6.0668	88.7	13.6289
Sn 189.925	4.9966b	ppb	1.5363	30.7	3.3977
Sr 216.596	-0.8509b	ppb	0.1922	22.6	-219.414
Ti 334.941	32061.5b	ppb	122.570	0.4	9278277
Tl 190.794	99.3052b	ppb	3.1890	3.2	77.2775
V 292.401	-2.3544b	ppb	0.2516	10.7	503.152
Zn 206.200	25.0686b	ppb	0.7492	3.0	51.8554

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

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

Weight: 1 Volume: 1 Dilution: 1

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

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

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

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

Weight: 1 Volume: 1 Dilution: 1

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

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

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

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

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

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

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

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

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

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

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

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

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6681	ppb	0.3181	47.6	-120.729
Al 308.215	67.4778	ppb	3.1596	4.7	248.559
As 188.980	-0.5334	ppb	2.3471	440.0	3.9823
B 249.678	43.4516	ppb	0.3019	0.7	587.562
Ba 389.178	15.2571	ppb	0.0883	0.6	411.050
Be 313.042	0.0503	ppb	0.0049	9.8	-158.480
Ca 370.602	205321	ppb	3271	1.6	813484
Cd 226.502	0.0963	ppb	0.1626	168.9	13.5811
Co 228.615	-0.0887	ppb	0.3049	343.6	2.6159
Cr 267.716	4.4182	ppb	0.0891	2.0	242.641
Cu 324.754	-0.2033	ppb	0.2458	120.9	-128.978
Fe 271.441	230.411	ppb	4.2175	1.8	472.579
K 766.491	15749.8	ppb	245.384	1.6	847047
Mg 279.078	9066.85	ppb	144.129	1.6	23681.3
Mn 257.610	14.0898	ppb	0.1845	1.3	4305.53
Mo 202.032	19.3027	ppb	0.2661	1.4	174.455
Na 330.237	23267.4	ppb	414.659	1.8	1410.44
Ni 231.604	10.0292	ppb	0.7455	7.4	34.2999
Pb 220.353	-0.3645	ppb	1.7728	486.4	1.6755
Sb 206.834	-2.3306	ppb	2.3864	102.4	0.2280
Se 196.026	-3.1740	ppb	6.3019	198.5	-0.7509
Sn 189.925	-0.0676	ppb	0.8004	1183.2	-1.6722
Sr 216.596	1631.10	ppb	27.0606	1.7	21829.4
Ti 334.941	0.8359	ppb	0.0079	0.9	160.872
Tl 190.794	1.8176	ppb	0.7414	40.8	-1.4784
V 292.401	3.7325	ppb	0.1162	3.1	111.579
Zn 206.200	3.5784	ppb	0.8934	22.5	8.9173

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

Weight: 1 Volume: 1 Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1094	ppb	0.2868	262.2	-147.317
Al 308.215	27.1383	ppb	3.6785	13.6	102.518
As 188.980	-5.3838	ppb	1.0351	19.2	0.6425
B 249.678	10.0774	ppb	0.5701	5.7	182.290
Ba 389.178	32.8084	ppb	0.9838	3.0	867.406
Be 313.042	-0.0174	ppb	0.0052	29.6	-283.182
Ca 370.602	232427	ppb	4519	1.9	920902
Cd 226.502	-0.0936	ppb	0.0997	106.6	4.1791
Co 228.615	0.2147	ppb	0.4326	201.5	7.2492
Cr 267.716	0.4076	ppb	0.1737	42.6	32.7346
Cu 324.754	-0.1329	ppb	0.2380	179.0	-125.843
Fe 271.441	33.5483	ppb	0.3459	1.0	68.0723
K 766.491	277.542	ppb	5.7904	2.1	15137.3
Mg 279.078	1441.80	ppb	28.0711	1.9	3783.46
Mn 257.610	14.6037	ppb	0.2941	2.0	4373.05
Mo 202.032	1.8755	ppb	0.2592	13.8	25.6547
Na 330.237	1289.12	ppb	99.4290	7.7	76.6227
Ni 231.604	0.9493	ppb	0.1883	19.8	3.7371
Pb 220.353	-0.0113	ppb	1.2862	11375.1	2.5078
Sb 206.834	-1.8437	ppb	2.0484	111.1	0.9591
Se 196.026	-2.4911	ppb	5.8721	235.7	-0.3479
Sn 189.925	1.0593	ppb	0.9794	92.5	-0.5241
Sr 216.596	854.460	ppb	20.0113	2.3	11455.9
Ti 334.941	0.7255	ppb	0.0396	5.5	95.2883
Tl 190.794	1.5508	ppb	1.8142	117.0	-1.7907
V 292.401	0.0632	ppb	0.2367	374.6	-0.1041
Zn 206.200	1.1644	ppb	0.4126	35.4	4.1102

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

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

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4814	ppb	0.4509	93.7	-134.928
Al 308.215	11.7632	ppb	2.9474	25.1	54.5917
As 188.980	-1.0247	ppb	3.0501	297.7	4.0761
B 249.678	55.7447	ppb	1.7648	3.2	737.107
Ba 389.178	20.8925	ppb	1.5476	7.4	566.953
Be 313.042	-0.0305	ppb	0.0077	25.4	-328.939
Ca 370.602	252142	ppb	7148	2.8	999015
Cd 226.502	0.0879	ppb	0.1008	114.7	12.2760
Co 228.615	1.4721	ppb	0.1850	12.6	20.5011
Cr 267.716	0.0435	ppb	0.1719	394.8	15.6596
Cu 324.754	0.3350	ppb	0.1462	43.6	-99.0284
Fe 271.441	59.6985	ppb	2.6476	4.4	122.129
K 766.491	4253.69	ppb	149.489	3.5	228927
Mg 279.078	9575.26	ppb	291.016	3.0	25006.4
Mn 257.610	94.2533	ppb	2.8262	3.0	26318.3
Mo 202.032	88.6906	ppb	2.5354	2.9	767.018
Na 330.237	79145.7	ppb	2603.60	3.3	4801.74
Ni 231.604	12.8751	ppb	0.6757	5.2	43.8730
Pb 220.353	-0.1313	ppb	1.3532	1030.2	2.1016
Sb 206.834	-0.7619	ppb	1.7497	229.7	0.8445
Se 196.026	-1.4840	ppb	1.7463	117.7	0.2726
Sn 189.925	-0.2395	ppb	2.2745	949.7	-1.7978
Sr 216.596	1597.10	ppb	45.8151	2.9	21377.7
Ti 334.941	0.6021	ppb	0.0475	7.9	91.0030
Tl 190.794	-0.4083	ppb	2.6771	655.7	-4.5160
V 292.401	-1.1346	ppb	0.2089	18.4	-58.1290
Zn 206.200	21.5368	ppb	1.4134	1096.8	348.8090

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5538	ppb	0.5761	104.0	-12.9938
Al 308.215	7.8469	ppb	1.3808	17.6	33.2226
As 188.980	-2.5349	ppb	4.4691	176.3	0.5641
B 249.678	131.774	ppb	1.7446	1.3	1660.92
Ba 389.178	-1.1268	ppb	0.2244	19.9	-61.4211
Be 313.042	-0.0005	ppb	0.0059	1135.4	-335.474
Ca 370.602	13835	ppb	296.6	2.1	55108
Cd 226.502	-0.1458	ppb	0.0872	59.8	1.5878
Co 228.615	-0.2769	ppb	0.2646	95.6	0.8631
Cr 267.716	15.8522	ppb	0.3119	2.0	879.476
Cu 324.754	0.3987	ppb	0.1096	27.5	-98.2797
Fe 271.441	0.9792	ppb	6.0837	621.3	1.2126
K 766.491	1227.53	ppb	23.4510	1.9	66216.4
Mg 279.078	1438.65	ppb	27.9798	1.9	3606.94
Mn 257.610	8426.76	ppb	187.980	2.2	2313834
Mo 202.032	0.3964	ppb	0.0950	24.0	13.0260
Na 330.237	13252.8	ppb	460.701	3.5	802.738
Ni 231.604	0.1748	ppb	1.7388	994.6	1.1300
Pb 220.353	0.1021	ppb	0.7930	776.9	5.2677
Sb 206.834	-1.5174	ppb	1.0919	72.0	1.4975
Se 196.026	0.9702	ppb	7.3423	756.8	4.2143
Sn 189.925	-0.0264	ppb	0.7377	2791.9	-1.7315
Sr 216.596	108.651	ppb	2.5731	2.4	1462.80
Ti 334.941	0.0993	ppb	0.0131	13.2	-87.2641
Tl 190.794	23.2451	ppb	1.7139	7.4	10.1177
V 292.401	-0.2755	ppb	0.1977	71.8	-11.7094
Zn 206.200	1.7253	ppb	0.3815	22.1	5.1695

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

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

Weight: 1

Volume: 1

Dilution: 1

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

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

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

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.7112	ppb	0.2244	31.5	-118.674
Al 308.215	19.9550	ppb	0.1070	0.5	77.5763
As 188.980	9.7554	ppb	3.8689	39.7	3.6001
B 249.678	1216.51	ppb	8.3263	0.7	14092.6
Ba 389.178	86.2535	ppb	0.4325	0.5	3403.82
Be 313.042	0.1487	ppb	0.0062	4.1	16.1897
Ca 370.602	157513	ppb	121.6	0.1	561619
Cd 226.502	-4.0043	ppb	0.2930	7.3	1688.76
Co 228.615	29.3104	ppb	0.2933	1.0	366.480
Cr 267.716	-2.5558	ppb	0.0905	3.5	41.7468
Cu 324.754	2.0642	ppb	0.2134	10.3	178.311
Fe 271.441	615725	ppb	246.508	0.0	1264995
K 766.491	11305.7	ppb	29.2647	0.3	608098
Mg 279.078	14531.1	ppb	16.1858	0.1	38060.0
Mn 257.610	944.050	ppb	0.5050	0.1	261674
Mo 202.032	15.6513	ppb	0.3328	2.1	106.867
Na 330.237	41584.1	ppb	165.248	0.4	2303.55
Ni 231.604	28.7102	ppb	1.2810	4.5	113.566
Pb 220.353	4.2612	ppb	2.8885	67.8	12.4371
Sb 206.834	-15.4460	ppb	4.8097	31.1	1.2484
Se 196.026	-5.2511	ppb	1.9955	38.0	2.6270
Sn 189.925	-0.1101	ppb	1.1345	1030.0	-1.7489
Sr 216.596	1694.93	ppb	4.9434	0.3	22989.6
Ti 334.941	0.0444	ppb	0.0263	59.2	28.7887
Tl 190.794	-8.6582	ppb	1.7214	19.9	-88.8068
V 292.401	3.1558	ppb	0.3265	10.3	95.0900
Zn 206.200	53.0029	ppb	1.5359	2.8	317.666

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

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

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3911	ppb	0.6607	169.0	-148.362
Al 308.215	11.6251	ppb	2.9639	25.5	46.6780
As 188.980	-1.1902	ppb	2.5668	215.7	-4.3219
B 249.678	259.960	ppb	1.1588	0.4	2615.66
Ba 389.178	10.9459	ppb	0.7680	7.0	1108.53
Be 313.042	0.0618	ppb	0.0018	2.9	-202.690
Ca 370.602	37319	ppb	261.2	0.7	97486
Cd 226.502	-4.0228	ppb	0.4453	11.1	1326.16
Co 228.615	19.0177	ppb	0.2652	1.4	235.871
Cr 267.716	-2.6550	ppb	0.1688	6.4	2.0955
Cu 324.754	2.2522	ppb	0.2698	12.0	150.931
Fe 271.441	496118	ppb	3901.73	0.8	1019263
K 766.491	2493.86	ppb	26.5377	1.1	134304
Mg 279.078	3399.34	ppb	41.6602	1.2	8997.61
Mn 257.610	289.784	ppb	1.3672	0.5	81554.6
Mo 202.032	2.2544	ppb	0.1012	4.5	-0.4721
Na 330.237	9103.05	ppb	41.4176	0.5	374.729
Ni 231.604	16.4591	ppb	0.4993	3.0	69.1559
Pb 220.353	3.2894	ppb	1.0534	32.0	10.0676
Sb 206.834	-8.9088	ppb	3.4311	38.5	5.5558
Se 196.026	-5.3171	ppb	6.5128	122.5	1.5525
Sn 189.925	2.1464	ppb	0.6468	30.1	0.4696
Sr 216.596	395.784	ppb	4.5975	1.2	5554.96
Ti 334.941	-0.1080	ppb	0.0385	35.6	-78.4991
Tl 190.794	-7.0416	ppb	1.4661	20.8	-71.4972
V 292.401	1.6054	ppb	0.2320	14.5	49.1408
Zn 206.200	26.9671	ppb	1.2976	4.8	556582

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

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

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

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

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

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

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.6899	ppb	0.7339	106.4	-39.1964	0.68985
Al 308.215	1.0577	ppb	1.5488	146.4	8.8534	1.05774
As 188.980	0.0780	ppb	0.9761	1251.2	2.3782	0.07801
B 249.678	13.4705	ppb	1.4480	10.7	223.537	13.47050
Ba 389.178	0.7695	ppb	0.4568	59.4	-13.7351	0.76952
Be 313.042	0.0251	ppb	0.0128	51.0	-282.207	0.02515
Ca 370.602	5.996	ppb	1.896	31.6	17.82	5.99630
Cd 226.502	0.0242	ppb	0.0247	102.4	9.5730	0.02416
Co 228.615	-0.5199	ppb	0.6669	128.3	-2.3940	-0.51985
Cr 267.716	0.0377	ppb	0.1080	286.5	13.3075	0.03771
Cu 324.754	1.2261	ppb	0.3656	29.8	-55.3246	1.22614
Fe 271.441	8.5036	ppb	5.0721	59.6	16.6126	8.50362
K 766.491	1.3856	ppb	0.6171	44.5	288.942	1.38560
Mg 279.078	1.6175	ppb	0.8128	50.2	25.5691	1.61754
Mn 257.610	-0.4973	ppb	0.2118	42.6	209.660	-0.49735
Mo 202.032	0.4084	ppb	0.3436	84.1	13.1264	0.40839
Na 330.237	23.7197	ppb	184.663	778.5	-0.1628	23.71970
Ni 231.604	0.2968	ppb	0.7575	255.3	1.5405	0.29677
Pb 220.353	-0.3811	ppb	1.3119	344.2	1.6693	-0.38114
Sb 206.834	-3.0006	ppb	0.8237	27.4	-0.2711	-3.00065
Se 196.026	2.5299	ppb	5.3007	209.5	2.6207	2.52987
Sn 189.925	-0.4720	ppb	0.7650	162.1	-2.1966	-0.47196
Sr 216.596	0.4095	ppb	0.4055	99.0	14.7378	0.40949
Ti 334.941	0.1564	ppb	0.0148	9.5	-76.0236	0.15636
Tl 190.794	3.9487	ppb	2.0679	52.4	1.3264	3.94868
V 292.401	0.3969	ppb	0.2596	65.4	10.8024	0.39687
Zn 206.200	0.6520	ppb	0.4816	73.8	3.0878	0.65196

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

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

Weight: 1

Volume: 1

Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0525	ppb	0.2276	433.4	-99.6360
Al 308.215	803.442	ppb	3.7606	0.5	2886.34
As 188.980	-0.3082	ppb	0.9344	303.2	2.2582
B 249.678	140.597	ppb	0.3473	0.2	1767.97
Ba 389.178	5.1370	ppb	0.9123	17.8	110.835
Be 313.042	0.9597	ppb	0.1417	14.8	1689.72
Ca 370.602	16885	ppb	119.1	0.7	66892
Cd 226.502	0.2222	ppb	0.1743	78.4	19.0337
Co 228.615	0.1428	ppb	0.2448	171.5	6.3877
Cr 267.716	9.4153	ppb	1.2478	13.3	504.328
Cu 324.754	1.3217	ppb	0.4362	33.0	-50.3348
Fe 271.441	123.122	ppb	52.3361	42.5	252.118
K 766.491	1310.58	ppb	7.1167	0.5	70681.6
Mg 279.078	1588.41	ppb	6.4362	0.4	4162.02
Mn 257.610	203.005	ppb	9.5672	4.7	56094.8
Mo 202.032	0.0072	ppb	0.0166	231.0	9.6930
Na 330.237	13465.7	ppb	142.135	1.1	815.532
Ni 231.604	4.5460	ppb	1.3990	30.8	15.8442
Pb 220.353	-1.1110	ppb	0.8594	77.4	0.0578
Sb 206.834	-2.5175	ppb	0.6078	24.1	0.3623
Se 196.026	5.2350	ppb	2.9460	56.3	4.2841
Sn 189.925	0.4387	ppb	2.7826	634.3	-1.2579
Sr 216.596	182.793	ppb	1.0824	0.6	2453.90
Ti 334.941	0.2772	ppb	0.2429	87.6	-34.7385
Tl 190.794	4.2118	ppb	0.9299	22.1	1.2648
V 292.401	0.6935	ppb	1.2018	173.3	19.4611
Zn 206.200	11.3371	ppb	1.3816	12.2	24.3968

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

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

Weight: 1

Volume: 1

Dilution: 1

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

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

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

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

Weight: 1

Volume: 1

Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	3.8655b	ppb	0.5100	13.2	719.846
Al 308.215	6077.47b	ppb	195.197	3.2	21800.1
As 188.980	4.2480b	ppb	4.3254	101.8	5.1811
B 249.678	127.498b	ppb	2.8488	2.2	1559.02
Ba 389.178	9.1809b	ppb	0.7675	8.4	287.938
Be 313.042	3.1576b	ppb	0.1017	3.2	6272.92
Ca 370.602	18506b	ppb	609.7	3.3	72659
Cd 226.502	-0.4805b	ppb	0.0804	16.7	110.020
Co 228.615	10.0383b	ppb	0.1878	1.9	135.359
Cr 267.716	22.5273b	ppb	0.9827	4.4	1674.84
Cu 324.754	10.9528b	ppb	0.3256	3.0	462.476
Fe 271.441	41112.6b	ppb	1328.65	3.2	84465.7
K 766.491	4085.71b	ppb	155.923	3.8	219894
Mg 279.078	1572.30b	ppb	26.9977	1.7	2131.45
Mn 257.610	100018oxb	ppb	2415.98	2.4	27459240
Mo 202.032	0.2690b	ppb	0.1687	62.7	9.5174
Na 330.237	113174xb	ppb	4519.09	4.0	6852.39
Ni 231.604	10.5705b	ppb	0.3885	3.7	37.2139
Pb 220.353	1.7356b	ppb	1.4152	81.5	36.0224
Sb 206.834	-3.9878b	ppb	2.3704	59.4	-0.0645
Se 196.026	35.0177b	ppb	3.3947	9.7	52.0060
Sn 189.925	0.2914b	ppb	1.4392	493.8	-1.3633
Sr 216.596	199.142b	ppb	6.3802	3.2	2693.23
Ti 334.941	0.7823b	ppb	0.0755	9.7	104.749
Tl 190.794	275.624b	ppb	6.1805	2.2	155.835
V 292.401	-5.8417b	ppb	0.3485	6.0	-188.803
Zn 206.200	27.0757b	ppb	1.6967	6.3	557880

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

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

Weight: 1

Volume: 1

Dilution: 1

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

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

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

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

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

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

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

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

Weight: 1 Volume: 1 Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.8350	ppb	0.1320	15.8	-39.3683
Al 308.215	452.547	ppb	3.2650	0.7	1640.15
As 188.980	-4.3004	ppb	2.2938	53.3	-0.5059
B 249.678	102.269	ppb	0.1897	0.2	1301.39
Ba 389.178	49.3316	ppb	0.5122	1.0	1323.82
Be 313.042	0.0374	ppb	0.0071	19.0	-271.677
Ca 370.602	44331	ppb	64.45	0.1	175551
Cd 226.502	42.5263	ppb	0.0506	0.1	1984.66
Co 228.615	0.2500	ppb	0.6256	250.2	2.4635
Cr 267.716	41.3597	ppb	0.1571	0.4	2172.35
Cu 324.754	17.5911	ppb	0.1705	1.0	798.928
Fe 271.441	924.103	ppb	6.0484	0.7	1898.01
K 766.491	30411.7	ppb	61.7931	0.2	1635388
Mg 279.078	2064.57	ppb	3.3563	0.2	5407.37
Mn 257.610	78.4234	ppb	0.0708	0.1	21899.8
Mo 202.032	148.827	ppb	0.4721	0.3	1280.50
Na 330.237	38059.9	ppb	62.0579	0.2	2307.37
Ni 231.604	6.1151	ppb	0.7423	12.1	21.1462
Pb 220.353	1.6878	ppb	0.8633	51.1	6.0976
Sb 206.834	-4.6678	ppb	3.8963	83.5	-3.7820
Se 196.026	4.2021	ppb	4.0623	96.7	3.6408
Sn 189.925	-0.2420	ppb	0.7072	292.3	-1.9239
Sr 216.596	254.672	ppb	0.2985	0.1	3411.58
Ti 334.941	6.9386	ppb	0.3186	4.6	1893.33
Tl 190.794	0.6915	ppb	1.7294	250.1	-3.2024
V 292.401	2.1324	ppb	0.0971	4.6	29.3192
Zn 206.200	68.0537	ppb	1.0283	1.5	137.573

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

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

Weight: 1

Volume: 1

Dilution: 1

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

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

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

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

Weight: 1 Volume: 1 Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6557	ppb	0.1504	22.9	-44.6113
Al 308.215	1821.80	ppb	13.3972	0.7	6538.40
As 188.980	-3.0081	ppb	0.8312	27.6	0.1770
B 249.678	34.2744	ppb	0.6319	1.8	475.609
Ba 389.178	77.6240	ppb	0.3242	0.4	2097.40
Be 313.042	0.0131	ppb	0.0033	25.4	-304.758
Ca 370.602	11274	ppb	60.46	0.5	44631
Cd 226.502	0.0837	ppb	0.1582	189.0	14.0745
Co 228.615	0.1634	ppb	0.3525	215.7	6.8292
Cr 267.716	1.1168	ppb	0.1090	9.8	73.3484
Cu 324.754	2.7754	ppb	0.3575	12.9	25.2960
Fe 271.441	590.401	ppb	4.7501	0.8	1212.16
K 766.491	5346.99	ppb	6.9010	0.1	287711
Mg 279.078	2349.49	ppb	7.7778	0.3	6137.76
Mn 257.610	710.081	ppb	2.2716	0.3	195316
Mo 202.032	0.3157	ppb	0.1353	42.8	12.2990
Na 330.237	7785.20	ppb	78.4368	1.0	470.605
Ni 231.604	-0.1854	ppb	0.8614	464.6	-0.0660
Pb 220.353	0.9154	ppb	1.6597	181.3	4.7686
Sb 206.834	-2.4130	ppb	2.5672	106.4	0.3866
Se 196.026	2.4290	ppb	2.4875	102.4	2.7764
Sn 189.925	0.4549	ppb	0.5843	128.4	-1.2468
Sr 216.596	127.463	ppb	0.6992	0.5	1714.18
Ti 334.941	7.9702	ppb	0.3285	4.1	2195.70
Tl 190.794	3.8414	ppb	2.1878	57.0	-0.2256
V 292.401	1.0840	ppb	0.2655	24.5	32.4983
Zn 206.200	2.6720	ppb	0.1410	4.2	35.1192

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

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

Weight: 1

Volume: 1

Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	19.0781	ppb	0.5852	3.1	1472.58
Al 308.215	7039.44	ppb	21.4485	0.3	25257.1
As 188.980	103.952	ppb	1.4749	1.4	80.1209
B 249.678	221.677	ppb	1.8359	0.8	2746.52
Ba 389.178	182.927	ppb	0.1391	0.1	5003.18
Be 313.042	52.9305	ppb	0.1240	0.2	111077
Ca 370.602	16432	ppb	52.11	0.3	64610
Cd 226.502	51.9014	ppb	0.1498	0.3	2434.01
Co 228.615	52.0575	ppb	0.2597	0.5	690.398
Cr 267.716	108.139	ppb	0.5562	0.5	5665.38
Cu 324.754	107.333	ppb	0.2237	0.2	5457.95
Fe 271.441	5530.76	ppb	9.5626	0.2	11373.0
K 766.491	10232.1	ppb	20.1292	0.2	550371
Mg 279.078	7311.35	ppb	17.7533	0.2	19074.3
Mn 257.610	1257.70	ppb	2.3764	0.2	345724
Mo 202.032	103.063	ppb	0.4874	0.5	889.198
Na 330.237	12811.0	ppb	59.6916	0.5	772.052
Ni 231.604	102.910	ppb	0.4612	0.4	347.024
Pb 220.353	52.0798	ppb	2.0498	3.9	120.450
Sb 206.834	48.5838	ppb	0.4952	1.0	55.7404
Se 196.026	97.3323	ppb	3.8472	4.0	59.1719
Sn 189.925	201.074	ppb	1.0379	0.5	202.378
Sr 216.596	230.591	ppb	0.8497	0.4	3088.68
Ti 334.941	109.795	ppb	0.4731	0.4	31686.7
Tl 190.794	41.4182	ppb	2.5050	6.0	46.5453
V 292.401	102.072	ppb	0.5206	0.5	3194.19
Zn 206.200	106.153	ppb	2.4766	2.3	313.425

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

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

Weight: 1

Volume: 1

Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	19.7390	ppb	0.6410	3.2	1527.05
Al 308.215	7980.47	ppb	9.2981	0.1	28631.9
As 188.980	100.447	ppb	1.6455	1.6	77.4933
B 249.678	225.416	ppb	1.8216	0.8	2791.35
Ba 389.178	184.235	ppb	0.6295	0.3	5039.95
Be 313.042	53.4207	ppb	0.1126	0.2	112109
Ca 370.602	16411	ppb	29.29	0.2	64484
Cd 226.502	52.2205	ppb	0.1314	0.3	2450.31
Co 228.615	52.6064	ppb	0.2591	0.5	698.525
Cr 267.716	108.942	ppb	0.4196	0.4	5707.55
Cu 324.754	107.772	ppb	1.3107	1.2	5480.90
Fe 271.441	6022.44	ppb	10.1806	0.2	12383.3
K 766.491	10304.2	ppb	26.5307	0.3	554247
Mg 279.078	7360.23	ppb	9.0356	0.1	19201.5
Mn 257.610	1260.44	ppb	1.6538	0.1	346476
Mo 202.032	103.626	ppb	0.6812	0.7	893.973
Na 330.237	12892.2	ppb	50.4336	0.4	776.506
Ni 231.604	102.986	ppb	0.5998	0.6	347.296
Pb 220.353	50.8848	ppb	0.6831	1.3	117.696
Sb 206.834	50.8099	ppb	3.9872	7.8	58.1538
Se 196.026	98.3247	ppb	6.3891	6.5	59.7641
Sn 189.925	200.927	ppb	3.0674	1.5	202.229
Sr 216.596	230.617	ppb	0.6062	0.3	3089.23
Ti 334.941	142.156	ppb	2.4822	1.7	41052.0
Tl 190.794	42.2343	ppb	2.0783	4.9	47.5311
V 292.401	103.416	ppb	0.4085	0.4	3236.91
Zn 206.200	107.638	ppb	0.5741	0.5	316.388

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

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

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

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

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

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

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	1.2038	ppb	0.1000	8.3	3.1619	1.20382
Al 308.215	2.9618	ppb	3.6743	124.1	15.6955	2.96184
As 188.980	-2.4768	ppb	2.5078	101.3	0.4676	-2.47677
B 249.678	10.1960	ppb	1.2495	12.3	183.757	10.19599
Ba 389.178	1.0777	ppb	0.4633	43.0	-5.3029	1.07766
Be 313.042	0.1010	ppb	0.0414	41.0	-122.543	0.10102
Ca 370.602	5.227	ppb	3.974	76.0	15.17	5.22653
Cd 226.502	0.1083	ppb	0.1250	115.5	13.4669	0.10827
Co 228.615	0.1362	ppb	0.3016	221.5	6.2529	0.13615
Cr 267.716	0.7560	ppb	0.4470	59.1	50.8165	0.75603
Cu 324.754	1.2448	ppb	0.5713	45.9	-54.3552	1.24484
Fe 271.441	3.2885	ppb	2.2372	68.0	5.9258	3.28853
K 766.491	5.4334	ppb	1.1683	21.5	506.584	5.43340
Mg 279.078	2.1465	ppb	1.0251	47.8	26.9285	2.14654
Mn 257.610	0.4869	ppb	0.4543	93.3	479.873	0.48690
Mo 202.032	0.5427	ppb	0.1476	27.2	14.2718	0.54270
Na 330.237	-58.1479	ppb	86.8463	149.4	-5.1342	-58.14793
Ni 231.604	-0.3542	ppb	0.9842	277.9	-0.6503	-0.35420
Pb 220.353	0.5145	ppb	1.0569	205.4	3.6980	0.51446
Sb 206.834	-1.1853	ppb	2.1966	185.3	1.6932	-1.18535
Se 196.026	3.5802	ppb	1.2679	35.4	3.2430	3.58025
Sn 189.925	-1.0091	ppb	1.7201	170.5	-2.7419	-1.00914
Sr 216.596	0.6766	ppb	0.1805	26.7	18.2891	0.67656
Ti 334.941	0.2372	ppb	0.0423	17.8	-52.6161	0.23720
Tl 190.794	5.1671	ppb	0.2650	5.1	2.8930	5.16711
V 292.401	1.1848	ppb	0.4670	39.4	35.5884	1.18478
Zn 206.200	0.9993	ppb	1.4888	149.0	3.7792	0.99931

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

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

Weight: 1

Volume: 1

Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6620	ppb	0.6059	91.5	60.1124
Al 308.215	14.1611	ppb	2.6719	18.9	55.8296
As 188.980	-2.8856	ppb	3.5270	122.2	0.2307
B 249.678	69.3702	ppb	0.4948	0.7	902.723
Ba 389.178	-1.0593	ppb	0.7561	71.4	-61.9763
Be 313.042	-0.0042	ppb	0.0028	66.0	-350.658
Ca 370.602	6652	ppb	53.33	0.8	27072
Cd 226.502	-0.0345	ppb	0.0402	116.6	6.6834
Co 228.615	-0.3518	ppb	0.2769	78.7	-0.1313
Cr 267.716	8.2338	ppb	0.2095	2.5	539.102
Cu 324.754	0.4465	ppb	0.2625	58.8	-95.8059
Fe 271.441	-1.0259	ppb	3.2942	321.1	-2.9844
K 766.491	998.114	ppb	3.9002	0.4	53880.9
Mg 279.078	747.758	ppb	6.8583	0.9	1562.05
Mn 257.610	20615.1	ppb	28.9129	0.1	5659998
Mo 202.032	-0.2123	ppb	0.2473	116.5	7.8301
Na 330.237	21007.2	ppb	137.108	0.7	1273.37
Ni 231.604	-1.0778	ppb	1.2393	115.0	-3.0856
Pb 220.353	-0.0998	ppb	0.6579	659.2	8.4050
Sb 206.834	0.7155	ppb	3.7003	517.2	3.8396
Se 196.026	2.7109	ppb	2.2745	83.9	8.8575
Sn 189.925	0.0705	ppb	1.2440	1764.8	-1.6333
Sr 216.596	50.7573	ppb	0.4055	0.8	688.359
Ti 334.941	0.1093	ppb	0.0275	25.1	-88.6231
Tl 190.794	50.9755	ppb	0.9244	1.8	22.7821
V 292.401	-1.1214	ppb	0.0621	5.5	-37.8660
Zn 206.200	1.2714	ppb	0.7619	59.8	4.2919

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

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

Weight: 1

Volume: 1

Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2458	ppb	0.3272	133.1	-17.0749
Al 308.215	523.571	ppb	1.2672	0.2	1882.70
As 188.980	-3.1793	ppb	3.1084	97.8	-0.0851
B 249.678	12.8593	ppb	0.8188	6.4	211.756
Ba 389.178	0.4416	ppb	0.4461	101.0	-16.4660
Be 313.042	0.2610	ppb	0.0040	1.5	210.014
Ca 370.602	1589	ppb	4.771	0.3	6337
Cd 226.502	0.0121	ppb	0.0498	412.9	19.8227
Co 228.615	0.6779	ppb	0.6954	102.6	13.2656
Cr 267.716	1.6084	ppb	0.2394	14.9	152.137
Cu 324.754	1.2515	ppb	0.5133	41.0	-52.8913
Fe 271.441	3602.61	ppb	5.7867	0.2	7400.78
K 766.491	321.901	ppb	0.9585	0.3	17522.4
Mg 279.078	162.641	ppb	2.8696	1.8	211.452
Mn 257.610	11784.6	ppb	10.4916	0.1	3235698
Mo 202.032	0.4257	ppb	0.4967	116.7	13.0642
Na 330.237	9034.20	ppb	15.9441	0.2	545.419
Ni 231.604	1.2075	ppb	1.2988	107.6	4.7012
Pb 220.353	0.3241	ppb	1.1000	339.4	6.7436
Sb 206.834	1.1421	ppb	1.8282	160.1	4.3139
Se 196.026	0.1749	ppb	4.2945	2455.1	4.7588
Sn 189.925	1.1159	ppb	1.1588	103.8	-0.5803
Sr 216.596	17.5069	ppb	0.0769	0.4	245.190
Ti 334.941	0.1246	ppb	0.0191	15.3	-85.1644
Tl 190.794	31.5226	ppb	1.2144	3.9	14.0389
V 292.401	-0.4053	ppb	0.3957	97.6	-14.7744
Zn 206.200	2.2813	ppb	0.5846	25.6	6.3355

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

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

Weight: 1 Volume: 1 Dilution: 1

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

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

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

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

Weight: 1 Volume: 1 Dilution: 1

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

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

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

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

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.7448	ppb	0.2434	32.7	-36.7651
Al 308.215	422.214	ppb	2.0993	0.5	1519.21
As 188.980	-4.9263	ppb	2.6885	54.6	-1.2682
B 249.678	84.4778	ppb	0.3369	0.4	1084.46
Ba 389.178	46.0527	ppb	0.4694	1.0	1234.74
Be 313.042	0.0272	ppb	0.0061	22.3	-277.273
Ca 370.602	11342	ppb	31.10	0.3	44790
Cd 226.502	0.1253	ppb	0.1237	98.7	18.6793
Co 228.615	0.3673	ppb	0.7042	191.7	9.5276
Cr 267.716	0.5790	ppb	0.0901	15.6	43.2781
Cu 324.754	16.5818	ppb	0.3114	1.9	742.499
Fe 271.441	1504.11	ppb	1.8600	0.1	3089.44
K 766.491	6334.70	ppb	14.4304	0.2	340818
Mg 279.078	2240.01	ppb	7.1687	0.3	5863.41
Mn 257.610	174.977	ppb	0.4779	0.3	48410.7
Mo 202.032	0.6151	ppb	0.3597	58.5	14.8024
Na 330.237	23717.7	ppb	244.510	1.0	1436.85
Ni 231.604	1.0645	ppb	1.0424	97.9	4.1643
Pb 220.353	3.7359	ppb	1.3412	35.9	11.0319
Sb 206.834	-1.8077	ppb	1.8055	99.9	1.0578
Se 196.026	5.7138	ppb	4.5782	80.1	4.5690
Sn 189.925	0.5704	ppb	0.9963	174.7	-1.1225
Sr 216.596	61.1315	ppb	0.4487	0.7	828.285
Ti 334.941	9.5420	ppb	0.3482	3.6	2648.79
Tl 190.794	4.7932	ppb	0.7407	15.5	1.9048
V 292.401	0.8117	ppb	0.1101	13.6	23.8322
Zn 206.200	48.5131	ppb	0.5151	1.1	98.6962

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

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

Weight: 1

Volume: 1

Dilution: 1

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

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

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

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

Weight: 1

Volume: 1

Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.8480	ppb	0.8266	1.6	4099.74
Al 308.215	2422.36	ppb	2.7121	0.1	8686.53
As 188.980	2241.11	ppb	5.3399	0.2	1678.32
B 249.678	82.8255	ppb	0.7968	1.0	1063.12
Ba 389.178	2135.43	ppb	3.0459	0.1	58408.4
Be 313.042	52.5508	ppb	0.0958	0.2	110273
Ca 370.602	11226	ppb	29.64	0.3	44251
Cd 226.502	51.8629	ppb	0.4571	0.9	2423.00
Co 228.615	527.672	ppb	7.1669	1.4	6964.74
Cr 267.716	215.238	ppb	0.6661	0.3	11251.2
Cu 324.754	281.387	ppb	2.3293	0.8	14487.9
Fe 271.441	2487.23	ppb	11.8243	0.5	5212.65
K 766.491	6289.91	ppb	9.7371	0.2	338410
Mg 279.078	2212.49	ppb	3.7044	0.2	5780.47
Mn 257.610	709.158	ppb	2.0238	0.3	195067
Mo 202.032	0.6085	ppb	0.4598	75.6	13.5679
Na 330.237	23271.2	ppb	59.6788	0.3	1404.86
Ni 231.604	521.745	ppb	1.9083	0.4	1756.49
Pb 220.353	503.673	ppb	3.5255	0.7	1143.59
Sb 206.834	508.980	ppb	3.8939	0.8	555.763
Se 196.026	2000.98	ppb	9.2245	0.5	1186.25
Sn 189.925	2.3100	ppb	0.9800	42.4	0.6428
Sr 216.596	62.3122	ppb	0.8153	1.3	833.590
Ti 334.941	9.0117	ppb	0.3418	3.8	2495.44
Tl 190.794	2050.66	ppb	10.2341	0.5	2633.58
V 292.401	502.571	ppb	1.8683	0.4	15859.0
Zn 206.200	564.554	ppb	2.1960	0.4	3128.74

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

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

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	21.3534	ppb	0.0934	0.4	1660.58
Al 308.215	5583.89	ppb	18.1710	0.3	20037.4
As 188.980	109.472	ppb	1.8184	1.7	84.2310
B 249.678	274.137	ppb	1.3828	0.5	3382.78
Ba 389.178	149.288	ppb	0.4704	0.3	4083.88
Be 313.042	54.0481	ppb	0.0395	0.1	113427
Ca 370.602	15898	ppb	23.96	0.2	62379
Cd 226.502	53.0967	ppb	0.1207	0.2	2492.16
Co 228.615	54.0645	ppb	0.3274	0.6	716.726
Cr 267.716	108.914	ppb	0.3823	0.4	5703.78
Cu 324.754	122.182	ppb	0.4768	0.4	6229.32
Fe 271.441	6450.09	ppb	7.8782	0.1	13262.1
K 766.491	10999.4	ppb	8.8761	0.1	591629
Mg 279.078	7175.83	ppb	11.7804	0.2	18732.2
Mn 257.610	710.262	ppb	0.6829	0.1	195431
Mo 202.032	104.747	ppb	0.7807	0.7	903.519
Na 330.237	27619.5	ppb	34.2979	0.1	1670.11
Ni 231.604	105.508	ppb	1.3036	1.2	355.790
Pb 220.353	52.7106	ppb	0.4356	0.8	121.747
Sb 206.834	51.2031	ppb	4.0062	7.8	58.5832
Se 196.026	100.963	ppb	2.1293	2.1	61.1655
Sn 189.925	205.113	ppb	2.2288	1.1	206.483
Sr 216.596	163.015	ppb	0.2342	0.1	2185.94
Ti 334.941	108.459	ppb	0.2179	0.2	31298.2
Tl 190.794	43.8561	ppb	2.3180	5.3	50.6106
V 292.401	103.297	ppb	0.1556	0.2	3232.19
Zn 206.200	151.337	ppb	0.4762	0.3	303.683

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

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

Weight: 1

Volume: 1

Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	17.4697	ppb	0.2347	1.3	1340.35
Al 308.215	5658.26	ppb	11.1196	0.2	20304.1
As 188.980	108.949	ppb	2.0114	1.8	83.8436
B 249.678	279.897	ppb	1.6306	0.6	3452.65
Ba 389.178	152.063	ppb	0.2134	0.1	4160.25
Be 313.042	54.0682	ppb	0.0542	0.1	113469
Ca 370.602	16373	ppb	17.24	0.1	64253
Cd 226.502	53.3614	ppb	0.1159	0.2	2504.75
Co 228.615	53.4276	ppb	0.2818	0.5	708.413
Cr 267.716	109.203	ppb	0.4186	0.4	5718.93
Cu 324.754	123.324	ppb	0.3533	0.3	6288.66
Fe 271.441	6544.65	ppb	3.7738	0.1	13456.4
K 766.491	11285.1	ppb	12.4946	0.1	606990
Mg 279.078	7264.06	ppb	2.9708	0.0	18962.3
Mn 257.610	717.508	ppb	0.0807	0.0	197421
Mo 202.032	105.102	ppb	0.3783	0.4	906.542
Na 330.237	28460.6	ppb	27.6021	0.1	1721.05
Ni 231.604	105.854	ppb	1.0092	1.0	356.958
Pb 220.353	52.3402	ppb	1.8590	3.6	120.907
Sb 206.834	55.2437	ppb	1.1427	2.1	62.9529
Se 196.026	101.821	ppb	1.7902	1.8	61.6766
Sn 189.925	206.380	ppb	2.4016	1.2	207.771
Sr 216.596	166.071	ppb	0.7537	0.5	2226.87
Ti 334.941	111.752	ppb	1.3827	1.2	32251.5
Tl 190.794	42.7748	ppb	0.6194	1.4	49.1927
V 292.401	103.836	ppb	0.4660	0.4	3249.25
Zn 206.200	155.666	ppb	0.9500	0.6	332.331

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

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

Weight: 1 Volume: 1 Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0072b	ppb	0.1752	2429.7	-96.6567
Al 308.215	976.520b	ppb	3.5304	0.4	3507.16
As 188.980	-4.3332b	ppb	3.1635	73.0	-0.6029
B 249.678	108.783b	ppb	0.4501	0.4	1381.22
Ba 389.178	115.499b	ppb	0.3749	0.3	3143.01
Be 313.042	0.0465b	ppb	0.0083	17.8	-303.658
Ca 370.602	32105b	ppb	4.748	0.0	127223
Cd 226.502	0.2766b	ppb	0.2211	80.0	18.5774
Co 228.615	0.4640b	ppb	0.2560	55.2	12.1017
Cr 267.716	2.5564b	ppb	0.0039	0.2	162.983
Cu 324.754	1.8312b	ppb	0.2563	14.0	-23.7729
Fe 271.441	403.068b	ppb	3.7983	0.9	827.333
K 766.491	61539.9xb	ppb	159.735	0.3	3309083
Mg 279.078	5457.78b	ppb	13.8184	0.3	14234.4
Mn 257.610	1447.60b	ppb	2.5532	0.2	397818
Mo 202.032	2.0687b	ppb	0.2358	11.4	27.2720
Na 330.237	563114xb	ppb	4476.90	0.8	34174.1
Ni 231.604	2.8921b	ppb	0.1428	4.9	10.2857
Pb 220.353	1.9603b	ppb	1.0114	51.6	7.3388
Sb 206.834	-3.1314b	ppb	4.5953	146.7	-0.4042
Se 196.026	-2.4658b	ppb	0.7275	29.5	0.0967
Sn 189.925	1.3660b	ppb	0.6706	49.1	-0.0664
Sr 216.596	149.610b	ppb	0.3179	0.2	2012.47
Ti 334.941	53.1002b	ppb	1.7467	3.3	15224.8
Tl 190.794	5.5799b	ppb	1.9749	35.4	0.6321
V 292.401	4.7186b	ppb	0.2156	4.6	142.494
Zn 206.200	50.8152b	ppb	0.6566	1.3	313.286

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

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

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

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

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

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

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.5991	ppb	0.1857	31.0	-46.6876	0.59909
Al 308.215	3.4664	ppb	1.2997	37.5	17.5037	3.46643
As 188.980	0.4268	ppb	3.2124	752.7	2.6390	0.42679
B 249.678	10.5311	ppb	1.2372	11.7	187.833	10.53110
Ba 389.178	1.1772	ppb	0.4263	36.2	-2.5847	1.17723
Be 313.042	0.0993	ppb	0.0415	41.8	-126.229	0.09927
Ca 370.602	4.318	ppb	2.423	56.1	11.92	4.31808
Cd 226.502	0.0562	ppb	0.1098	195.4	11.0386	0.05618
Co 228.615	-0.1578	ppb	0.4738	300.3	2.3769	-0.15779
Cr 267.716	0.7547	ppb	0.3459	45.8	50.7478	0.75471
Cu 324.754	1.4532	ppb	0.4249	29.2	-43.5362	1.45322
Fe 271.441	0.5287	ppb	1.3944	263.7	0.2295	0.52874
K 766.491	7.7930	ppb	2.2242	28.5	633.454	7.79299
Mg 279.078	1.7585	ppb	2.4908	141.6	25.9157	1.75849
Mn 257.610	0.4270	ppb	0.5122	120.0	463.409	0.42698
Mo 202.032	0.3936	ppb	0.3461	87.9	12.9988	0.39359
Na 330.237	8.6393	ppb	30.8416	357.0	-1.0682	8.63932
Ni 231.604	-0.3101	ppb	0.8828	284.7	-0.5020	-0.31010
Pb 220.353	-1.0868	ppb	0.6441	59.3	0.0702	-1.08679
Sb 206.834	-0.1844	ppb	0.6389	346.4	2.7751	-0.18443
Se 196.026	0.9072	ppb	1.9695	217.1	1.6600	0.90716
Sn 189.925	2.6819	ppb	0.5166	19.3	1.0045	2.68195
Sr 216.596	0.5695	ppb	0.2798	49.1	16.8527	0.56950
Ti 334.941	0.2277	ppb	0.0352	15.5	-55.3566	0.22774
Tl 190.794	7.6496	ppb	1.2457	16.3	6.0873	7.64965
V 292.401	1.1714	ppb	0.2951	25.2	35.1677	1.17136
Zn 206.200	-0.2115	ppb	0.7492	354.3	35.3605	-0.21145

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

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

Weight: 1

Volume: 1

Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5992	ppb	0.3240	54.1	-54.4167
Al 308.215	445.996	ppb	2.4757	0.6	1611.00
As 188.980	-2.5109	ppb	2.8021	111.6	0.7212
B 249.678	84.2848	ppb	0.6700	0.8	1082.46
Ba 389.178	47.0524	ppb	0.4610	1.0	1261.40
Be 313.042	0.0249	ppb	0.0064	25.8	-288.736
Ca 370.602	31758	ppb	43.38	0.1	125703
Cd 226.502	48.6036	ppb	0.0725	0.1	2267.76
Co 228.615	0.1464	ppb	0.3351	228.8	3.7749
Cr 267.716	39.0882	ppb	0.0641	0.2	2053.57
Cu 324.754	16.2468	ppb	0.1929	1.2	727.272
Fe 271.441	1242.47	ppb	4.6323	0.4	2551.96
K 766.491	18553.9	ppb	19.1220	0.1	997818
Mg 279.078	2009.72	ppb	5.9608	0.3	5263.99
Mn 257.610	94.9425	ppb	0.1231	0.1	26435.3
Mo 202.032	80.1903	ppb	0.1428	0.2	694.354
Na 330.237	25218.9	ppb	143.036	0.6	1527.98
Ni 231.604	6.3245	ppb	0.6308	10.0	21.8592
Pb 220.353	1.7538	ppb	1.3175	75.1	6.3741
Sb 206.834	-5.9129	ppb	1.9313	32.7	-4.1388
Se 196.026	4.4778	ppb	2.1659	48.4	3.8113
Sn 189.925	0.6740	ppb	0.8024	119.1	-1.0064
Sr 216.596	170.755	ppb	1.4663	0.9	2291.88
Ti 334.941	9.9680	ppb	0.5921	5.9	2770.84
Tl 190.794	2.3450	ppb	0.6911	29.5	-1.1061
V 292.401	1.3246	ppb	0.2367	17.9	19.5827
Zn 206.200	56.3797	ppb	0.6988	1.3	314.262

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

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

Weight: 1

Volume: 1

Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1810	ppb	0.3412	188.5	-83.3901
Al 308.215	389.148	ppb	1.7358	0.4	1400.63
As 188.980	-4.1602	ppb	3.1152	74.9	-0.6863
B 249.678	87.9649	ppb	0.9575	1.1	1126.85
Ba 389.178	49.5526	ppb	0.5775	1.2	1331.07
Be 313.042	0.0484	ppb	0.0047	9.8	-232.975
Ca 370.602	12241	ppb	21.56	0.2	48351
Cd 226.502	0.1773	ppb	0.0737	41.6	21.0046
Co 228.615	0.2587	ppb	0.3466	134.0	7.9228
Cr 267.716	0.8544	ppb	0.1111	13.0	57.8423
Cu 324.754	19.8442	ppb	0.4730	2.4	911.898
Fe 271.441	1484.20	ppb	6.9167	0.5	3048.53
K 766.491	7606.64	ppb	21.0984	0.3	409207
Mg 279.078	2436.20	ppb	5.6638	0.2	6374.88
Mn 257.610	199.384	ppb	0.3673	0.2	55113.2
Mo 202.032	0.4127	ppb	0.0864	20.9	13.0751
Na 330.237	27913.9	ppb	58.1610	0.2	1691.50
Ni 231.604	1.3959	ppb	0.4796	34.4	5.2793
Pb 220.353	1.4029	ppb	1.8656	133.0	5.7584
Sb 206.834	-3.8687	ppb	3.2296	83.5	-1.1668
Se 196.026	-1.7852	ppb	4.5430	254.5	0.1355
Sn 189.925	2.2056	ppb	1.0108	45.8	0.5395
Sr 216.596	66.5650	ppb	0.3191	0.5	900.976
Ti 334.941	3.6587	ppb	0.2676	7.3	946.746
Tl 190.794	3.2332	ppb	1.6670	51.6	-0.1464
V 292.401	0.8215	ppb	0.2711	33.0	23.9581
Zn 206.200	58.3901	ppb	1.0993	1.8	318.426

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

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

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

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

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

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

Weight: 1 Volume: 1 Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5004	ppb	0.0901	18.0	-60.8436
Al 308.215	703.590	ppb	2.2995	0.3	2531.91
As 188.980	-4.4674	ppb	0.7422	16.6	-0.8230
B 249.678	96.3248	ppb	0.3734	0.4	1227.73
Ba 389.178	62.6007	ppb	0.5757	0.9	1688.80
Be 313.042	0.0804	ppb	0.0013	1.6	-168.944
Ca 370.602	23607	ppb	34.70	0.1	93325
Cd 226.502	42.9992	ppb	0.0950	0.2	2010.20
Co 228.615	0.6804	ppb	0.1131	16.6	12.0066
Cr 267.716	36.2509	ppb	0.0797	0.2	1905.73
Cu 324.754	15.9533	ppb	0.4898	3.1	711.287
Fe 271.441	2074.47	ppb	2.6438	0.1	4261.34
K 766.491	16214.0	ppb	20.2734	0.1	872006
Mg 279.078	2255.71	ppb	4.9049	0.2	5905.72
Mn 257.610	109.920	ppb	0.6355	0.6	30552.3
Mo 202.032	44.9450	ppb	0.2889	0.6	393.323
Na 330.237	25772.9	ppb	120.141	0.5	1560.97
Ni 231.604	5.7905	ppb	0.4319	7.5	20.0847
Pb 220.353	0.7811	ppb	1.7697	226.6	4.2339
Sb 206.834	-3.9536	ppb	2.0118	50.9	-1.5201
Se 196.026	0.7404	ppb	7.8668	1062.5	1.6085
Sn 189.925	2.0876	ppb	1.5845	75.9	0.4245
Sr 216.596	135.964	ppb	0.4479	0.3	1827.97
Ti 334.941	6.8586	ppb	0.1569	2.3	1872.20
Tl 190.794	2.4383	ppb	3.7581	154.1	-1.0919
V 292.401	2.1857	ppb	0.2641	12.1	54.7396
Zn 206.200	98.8785	ppb	1.3554	1.4	199.171

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

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

Weight: 1

Volume: 1

Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.8450	ppb	0.2653	31.4	-27.2961
Al 308.215	211.293	ppb	1.4334	0.7	762.808
As 188.980	-8.4278	ppb	1.4709	17.5	-3.9109
B 249.678	54.5810	ppb	1.0418	1.9	722.414
Ba 389.178	25.4980	ppb	1.0024	3.9	667.891
Be 313.042	0.0361	ppb	0.0053	14.7	-258.513
Ca 370.602	7765	ppb	10.69	0.1	30709
Cd 226.502	0.1051	ppb	0.0756	71.9	14.7976
Co 228.615	-0.1889	ppb	0.2015	106.7	2.0214
Cr 267.716	0.2227	ppb	0.1779	79.9	23.5467
Cu 324.754	34.6409	ppb	1.3117	3.8	1679.93
Fe 271.441	521.292	ppb	1.3582	0.3	1070.20
K 766.491	5044.14	ppb	13.6117	0.3	271427
Mg 279.078	1341.85	ppb	3.4215	0.3	3522.27
Mn 257.610	35.0929	ppb	0.0253	0.1	9995.20
Mo 202.032	0.2690	ppb	0.5186	192.8	11.9042
Na 330.237	14435.5	ppb	30.8563	0.2	873.968
Ni 231.604	0.8227	ppb	0.7952	96.7	3.3242
Pb 220.353	1.6846	ppb	0.4037	24.0	6.3528
Sb 206.834	-0.5157	ppb	1.0986	213.1	2.4246
Se 196.026	-0.3598	ppb	1.7121	475.9	0.9238
Sn 189.925	1.5476	ppb	0.6683	43.2	-0.1366
Sr 216.596	21.3005	ppb	0.3041	1.4	295.090
Ti 334.941	2.6193	ppb	0.3265	12.5	641.881
Tl 190.794	0.8178	ppb	1.1924	145.8	-2.8282
V 292.401	1.2868	ppb	0.1626	12.6	38.7767
Zn 206.200	40.6074	ppb	0.9732	2.4	82.9044

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

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

Weight: 1 Volume: 1 Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1811	ppb	0.3548	195.9	-82.0319
Al 308.215	320.967	ppb	5.2318	1.6	1156.09
As 188.980	-2.6779	ppb	2.5178	94.0	0.3959
B 249.678	76.5618	ppb	0.7131	0.9	989.098
Ba 389.178	32.4394	ppb	0.4193	1.3	858.823
Be 313.042	0.0578	ppb	0.0080	13.8	-212.394
Ca 370.602	8800	ppb	31.00	0.4	34779
Cd 226.502	0.0755	ppb	0.2072	274.6	14.3644
Co 228.615	0.2823	ppb	0.6236	220.9	8.2488
Cr 267.716	0.5148	ppb	0.3042	59.1	38.9291
Cu 324.754	32.7817	ppb	0.9704	3.0	1583.48
Fe 271.441	830.172	ppb	4.5945	0.6	1704.82
K 766.491	5584.18	ppb	10.1564	0.2	300464
Mg 279.078	1495.05	ppb	9.1694	0.6	3921.98
Mn 257.610	40.8842	ppb	0.0996	0.2	11587.7
Mo 202.032	0.1286	ppb	0.0892	69.4	10.6862
Na 330.237	15181.1	ppb	181.645	1.2	918.930
Ni 231.604	1.3487	ppb	0.4644	34.4	5.1028
Pb 220.353	2.5977	ppb	0.6867	26.4	8.4212
Sb 206.834	-0.1068	ppb	1.8501	1732.3	2.8833
Se 196.026	3.8114	ppb	5.7455	150.7	3.3977
Sn 189.925	2.4905	ppb	0.1561	6.3	0.8213
Sr 216.596	22.3307	ppb	0.4590	2.1	309.152
Ti 334.941	2.9491	ppb	0.2591	8.8	738.020
Tl 190.794	2.9998	ppb	1.6985	56.6	-0.0682
V 292.401	1.3136	ppb	0.0750	5.7	39.6949
Zn 206.200	60.5739	ppb	0.5513	0.9	332.789

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

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

Weight: 1

Volume: 1

Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2702	ppb	0.3166	117.2	-73.8044
Al 308.215	4.7265	ppb	1.2025	25.4	21.9958
As 188.980	-2.5111	ppb	0.9474	37.7	0.4430
B 249.678	0.8135	ppb	1.0059	123.6	69.7541
Ba 389.178	-0.0582	ppb	0.1570	269.9	-36.3538
Be 313.042	0.0224	ppb	0.0264	118.1	-287.920
Ca 370.602	96.32	ppb	9.177	9.5	375.5
Cd 226.502	0.1115	ppb	0.0744	66.7	13.6364
Co 228.615	-0.4177	ppb	0.1828	43.8	-1.0484
Cr 267.716	0.4380	ppb	0.1869	42.7	34.2232
Cu 324.754	1.6207	ppb	0.3372	20.8	-34.8357
Fe 271.441	6.6427	ppb	3.3723	50.8	12.8235
K 766.491	16.7401	ppb	9.6700	57.8	1114.52
Mg 279.078	10.4365	ppb	1.1086	10.6	48.5572
Mn 257.610	0.7150	ppb	1.1561	161.7	542.588
Mo 202.032	0.0932	ppb	0.4272	458.2	10.4360
Na 330.237	41.8160	ppb	84.2685	201.5	0.9363
Ni 231.604	-0.5066	ppb	0.6339	125.1	-1.1630
Pb 220.353	14.7033	ppb	0.5195	3.5	35.8460
Sb 206.834	-1.7338	ppb	3.6055	208.0	1.1081
Se 196.026	-4.2468	ppb	2.5378	59.8	-1.3918
Sn 189.925	17.7245	ppb	2.1144	11.9	16.2722
Sr 216.596	0.5235	ppb	0.0759	14.5	16.2878
Ti 334.941	0.1836	ppb	0.0813	44.3	-68.0952
Tl 190.794	2.3597	ppb	1.5816	67.0	-0.7206
V 292.401	-0.1132	ppb	0.5869	518.2	-5.2826
Zn 206.200	0.3376	ppb	1.1733	347.6	3.4583

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

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

Weight: 1 Volume: 1 Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0232	ppb	0.3223	1389.4	-96.7210
Al 308.215	12814.5	ppb	95.9948	0.7	45960.5
As 188.980	-4.4922	ppb	0.4172	9.3	-0.9896
B 249.678	9.1802	ppb	1.0939	11.9	167.832
Ba 389.178	65.7290	ppb	0.6429	1.0	1783.37
Be 313.042	0.6802	ppb	0.0065	1.0	1095.00
Ca 370.602	8568	ppb	33.56	0.4	33644
Cd 226.502	0.3655	ppb	0.0528	14.4	34.1590
Co 228.615	4.5348	ppb	0.2342	5.2	64.6412
Cr 267.716	13.7710	ppb	0.1169	0.8	732.464
Cu 324.754	220.318	ppb	0.6095	0.3	11322.2
Fe 271.441	2968.61	ppb	8.0453	0.3	6099.07
K 766.491	7717.35	ppb	11.1792	0.1	415160
Mg 279.078	4769.15	ppb	9.1834	0.2	12462.1
Mn 257.610	33.0585	ppb	0.0333	0.1	9477.53
Mo 202.032	-0.0030	ppb	0.0551	1821.1	9.4341
Na 330.237	43325.5	ppb	45.3762	0.1	2626.54
Ni 231.604	6.8573	ppb	0.1073	1.6	23.7040
Pb 220.353	2.6701	ppb	0.9696	36.3	8.2818
Sb 206.834	-4.3481	ppb	2.2385	51.5	-1.5028
Se 196.026	2.0780	ppb	3.4338	165.2	2.3840
Sn 189.925	0.4552	ppb	1.6190	355.7	-1.2323
Sr 216.596	56.2040	ppb	0.2936	0.5	762.729
Ti 334.941	14.4484	ppb	0.0940	0.7	4079.59
Tl 190.794	0.4304	ppb	1.0039	233.2	-3.6062
V 292.401	2.1855	ppb	0.1309	6.0	66.1971
Zn 206.200	24.3357	ppb	1.0761	4.4	50.3463

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

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

Weight: 1 Volume: 1 Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2737b	ppb	0.0980	35.8	-77.5280
Al 308.215	51.8180b	ppb	4.1649	8.0	190.960
As 188.980	-4.9236b	ppb	2.3180	47.1	-1.0915
B 249.678	15.3478b	ppb	0.9079	5.9	246.322
Ba 389.178	47.6829b	ppb	0.3805	0.8	1288.04
Be 313.042	0.1816b	ppb	0.0065	3.6	31.3424
Ca 370.602	26860b	ppb	49.57	0.2	106416
Cd 226.502	0.8350b	ppb	0.0755	9.0	45.9850
Co 228.615	4.1634b	ppb	0.1885	4.5	59.3620
Cr 267.716	-0.3061b	ppb	0.1300	42.5	-0.4462
Cu 324.754	2685.19b	ppb	9.0559	0.3	139313
Fe 271.441	39.3476b	ppb	3.1635	8.0	80.7456
K 766.491	3893.36b	ppb	1.1476	0.0	209552
Mg 279.078	5863.73b	ppb	11.5634	0.2	15321.5
Mn 257.610	67.4702b	ppb	0.1726	0.3	18925.2
Mo 202.032	1.1589b	ppb	0.2190	18.9	19.5342
Na 330.237	196599xb	ppb	177.017	0.1	11930.3
Ni 231.604	14.6453b	ppb	0.9060	6.2	49.8299
Pb 220.353	1.0368b	ppb	1.5281	147.4	4.8970
Sb 206.834	-1.2534b	ppb	2.7788	221.7	1.6024
Se 196.026	0.0684b	ppb	6.1656	9016.8	1.1836
Sn 189.925	0.6450b	ppb	1.4472	224.4	-0.9625
Sr 216.596	87.0284b	ppb	0.9393	1.1	1175.20
Ti 334.941	0.7228b	ppb	0.0527	7.3	99.0735
Tl 190.794	2.1715b	ppb	1.7670	81.4	-1.0903
V 292.401	0.2414b	ppb	0.0933	38.6	3.9910
Zn 206.200	23.5274b	ppb	0.5931	2.1	48.7863

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

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

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.9918b	ppb	0.3243	16.3	-121.961
Al 308.215	131.332b	ppb	1.9668	1.5	476.417
As 188.980	0.3997b	ppb	0.8496	212.6	4.6053
B 249.678	2449.26b	ppb	18.8572	0.8	29815.6
Ba 389.178	17.5027b	ppb	0.6346	3.6	2470.75
Be 313.042	0.3135b	ppb	0.0084	2.7	-410.010
Ca 370.602	200234b	ppb	723.1	0.4	793136
Cd 226.502	2.4995b	ppb	0.2041	8.2	100.841
Co 228.615	1.1891b	ppb	0.1019	8.6	20.1144
Cr 267.716	-2.4025b	ppb	0.2571	10.7	5.7734
Cu 324.754	286.575b	ppb	0.9090	0.3	14762.6
Fe 271.441	2403.23b	ppb	4.3930	0.2	4936.74
K 766.491	283732xb	ppb	522.395	0.2	15255895
Mg 279.078	656475b	ppb	1245.70	0.2	1713093
Mn 257.610	943.168b	ppb	0.7541	0.1	265597
Mo 202.032	5.4163b	ppb	0.2748	5.1	55.7359
Na 330.237	5827068xb	ppb	4104.24	0.1	353652
Ni 231.604	442.929b	ppb	0.3400	0.1	1491.24
Pb 220.353	-0.0410b	ppb	2.8826	7028.6	2.7122
Sb 206.834	-1.2731b	ppb	1.6128	126.7	1.5694
Se 196.026	6.9331b	ppb	9.3183	134.4	5.5332
Sn 189.925	-1.1033b	ppb	3.2941	298.6	-0.1663
Sr 216.596	3780.46b	ppb	15.4041	0.4	50542.1
Ti 334.941	-7.4052b	ppb	0.1086	1.5	314.588
Tl 190.794	0.3422b	ppb	1.0461	305.7	-5.4310
V 292.401	7.5753b	ppb	0.0267	0.4	191.495
Zn 206.200	564.688b	ppb	1.6583	0.3	3129.84

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Weight: 1 Volume: 1 Dilution: 1

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

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

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

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

Weight: 1 Volume: 1 Dilution: 1

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

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

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

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

Weight: 1

Volume: 1

Dilution: 1

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

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

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

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

Weight: 1

Volume: 1

Dilution: 1

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

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

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

X (Samp) 4/5/2013, 5:50:23 PM Rack 1, Tube 56

Weight: 1 Volume: 1 Dilution: 1

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

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

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

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

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

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

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

Cont Calib Blank (CCB) 4/5/2013, 6:03:13 PM Rack 2, Tube 2
 Weight: 1 Volume: 1 Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.4537	ppb	0.3361	74.1	-58.6811	0.45371
Al 308.215	0.2673	ppb	1.7711	662.6	6.0537	0.26729
As 188.980	-7.2928	ppb	3.6844	50.5	-3.1339	-7.29279
B 249.678	26.3835	ppb	1.1669	4.4	380.435	26.38351
Ba 389.178	1.0055	ppb	0.7097	70.6	-7.2678	1.00548
Be 313.042	0.1059	ppb	0.0877	82.9	-112.415	0.10586
Ca 370.602	5.623	ppb	7.058	125.5	16.97	5.62282
Cd 226.502	0.1836	ppb	0.1994	108.6	16.9562	0.18362
Co 228.615	-0.0283	ppb	0.1359	480.5	4.0746	-0.02828
Cr 267.716	1.0253	ppb	0.9310	90.8	64.8792	1.02531
Cu 324.754	1.6980	ppb	0.9487	55.9	-30.8162	1.69802
Fe 271.441	5.6137	ppb	3.4321	61.1	10.7043	5.61368
K 766.491	6.0250	ppb	2.7411	45.5	538.396	6.02505
Mg 279.078	6.6687	ppb	4.3953	65.9	38.7322	6.66871
Mn 257.610	0.2859	ppb	1.1448	400.4	424.723	0.28591
Mo 202.032	0.7598	ppb	0.3209	42.2	16.1260	0.75981
Na 330.237	2.1764	ppb	19.0243	874.1	-1.4696	2.17643
Ni 231.604	0.7460	ppb	0.9491	127.2	3.0523	0.74603
Pb 220.353	-1.4419	ppb	0.4172	28.9	-0.7348	-1.44186
Sb 206.834	3.0703	ppb	1.8764	61.1	6.2915	3.07031
Se 196.026	-0.9588	ppb	2.6960	281.2	0.5550	-0.95884
Sn 189.925	3.0783	ppb	1.8084	58.7	1.4068	3.07829
Sr 216.596	0.5447	ppb	0.7017	128.8	16.4933	0.54474
Ti 334.941	0.2089	ppb	0.0940	45.0	-60.7992	0.20888
Tl 190.794	6.0524	ppb	0.6382	10.5	4.0325	6.05243
V 292.401	1.1740	ppb	1.2533	106.8	35.1669	1.17399
Zn 206.200	0.9104	ppb	0.5191	57.0	3.56004	0.91038

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Weight: 1

Volume: 1

Dilution: 1

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

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

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

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

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5247	ppb	0.1545	29.4	-67.0406
Al 308.215	14.1924	ppb	0.5501	3.9	55.9186
As 188.980	45.5054	ppb	2.1660	4.8	35.6760
B 249.678	358.604	ppb	2.8153	0.8	4322.64
Ba 389.178	80.4354	ppb	0.0259	0.0	2362.73
Be 313.042	0.0702	ppb	0.0046	6.6	-186.263
Ca 370.602	28148	ppb	12.63	0.0	103665
Cd 226.502	-0.7463	ppb	0.1311	17.6	209.092
Co 228.615	6.4946	ppb	0.6536	10.1	87.1080
Cr 267.716	0.9504	ppb	0.1078	11.3	85.0679
Cu 324.754	1.9856	ppb	0.1575	7.9	8.0170
Fe 271.441	77635.1	ppb	89.4631	0.1	159500
K 766.491	15645.5	ppb	14.4180	0.1	841438
Mg 279.078	21552.8	ppb	12.3914	0.1	56267.7
Mn 257.610	677.836	ppb	0.5162	0.1	186899
Mo 202.032	0.3698	ppb	0.2692	72.8	8.2026
Na 330.237	45240.7	ppb	143.629	0.3	2716.64
Ni 231.604	13.0851	ppb	0.7101	5.4	46.6462
Pb 220.353	0.0185	ppb	2.0604	11120.4	2.7739
Sb 206.834	-4.0382	ppb	3.5264	87.3	0.5326
Se 196.026	1.6782	ppb	4.5326	270.1	2.8651
Sn 189.925	2.9375	ppb	2.0230	68.9	1.2959
Sr 216.596	347.720	ppb	0.5443	0.2	4698.43
Ti 334.941	-0.0726	ppb	0.0479	65.9	-36.6339
Tl 190.794	2.4226	ppb	2.1105	87.1	-11.0154
V 292.401	1.8120	ppb	0.2451	13.5	55.3651
Zn 206.200	2.3118	ppb	0.7252	31.4	6.3991

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

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

Weight: 1

Volume: 1

Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4294	ppb	0.1766	41.1	-63.5292
Al 308.215	6.7436	ppb	1.7179	25.5	29.2245
As 188.980	5.4500	ppb	2.3976	44.0	6.2597
B 249.678	79.3261	ppb	0.2325	0.3	1004.66
Ba 389.178	16.1766	ppb	0.5835	3.6	447.307
Be 313.042	0.0183	ppb	0.0044	24.2	-296.328
Ca 370.602	5673	ppb	14.72	0.3	20888
Cd 226.502	-0.1171	ppb	0.0385	32.9	50.4957
Co 228.615	1.3924	ppb	0.3751	26.9	22.2232
Cr 267.716	0.1317	ppb	0.1707	129.6	23.0729
Cu 324.754	0.5848	ppb	0.3650	62.4	-83.8036
Fe 271.441	15669.5	ppb	24.8335	0.2	32192.0
K 766.491	3121.06	ppb	0.4342	0.0	168027
Mg 279.078	4278.79	ppb	13.2744	0.3	11187.8
Mn 257.610	135.823	ppb	0.1965	0.1	37727.3
Mo 202.032	0.0359	ppb	0.4132	1149.6	9.0199
Na 330.237	8796.77	ppb	68.5237	0.8	526.743
Ni 231.604	3.2401	ppb	1.1774	36.3	11.8634
Pb 220.353	0.6686	ppb	0.1862	27.9	4.0880
Sb 206.834	0.2140	ppb	0.3297	154.1	3.5935
Se 196.026	-1.6906	ppb	1.6952	100.3	0.2724
Sn 189.925	5.2373	ppb	0.7365	14.1	3.6043
Sr 216.596	69.3060	ppb	0.4925	0.7	943.999
Ti 334.941	0.0775	ppb	0.0262	33.8	-77.8016
Tl 190.794	2.1754	ppb	1.0312	47.4	-3.0483
V 292.401	0.2006	ppb	0.2486	123.9	4.6327
Zn 206.200	0.7538	ppb	0.7048	93.5	3.2907

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

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

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

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

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

Cont Calib Blank (CCB) 4/5/2013, 7:20:16 PM Rack 2, Tube 14
 Weight: 1 Volume: 1 Dilution: 1

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

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

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

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	48.2213	ppb	0.3353	0.7	3846.31
Al 308.215	2028.90	ppb	6.7006	0.3	7317.87
As 188.980	2317.20	ppb	7.6694	0.3	1734.36
B 249.678	1341.36	ppb	9.5102	0.7	16263.8
Ba 389.178	2141.44	ppb	1.3719	0.1	58774.8
Be 313.042	51.7479	ppb	0.0605	0.1	108496
Ca 370.602	32516	ppb	32.17	0.1	121294
Cd 226.502	51.1121	ppb	0.1532	0.3	2613.81
Co 228.615	527.573	ppb	2.6610	0.5	6969.32
Cr 267.716	210.701	ppb	0.3960	0.2	11038.4
Cu 324.754	260.307	ppb	0.5804	0.2	13430.9
Fe 271.441	76846.3	ppb	53.1332	0.1	157982
K 766.491	20717.3	ppb	29.9884	0.1	1114142
Mg 279.078	26269.0	ppb	11.0650	0.0	68563.8
Mn 257.610	1192.13	ppb	0.7018	0.1	328136
Mo 202.032	511.913	ppb	1.1184	0.2	4375.50
Na 330.237	49572.9	ppb	17.9302	0.0	2966.22
Ni 231.604	526.517	ppb	2.3220	0.4	1774.53
Pb 220.353	499.762	ppb	3.3076	0.7	1133.23
Sb 206.834	503.334	ppb	2.3181	0.5	544.149
Se 196.026	2021.35	ppb	9.5506	0.5	1198.98
Sn 189.925	1024.51	ppb	2.7959	0.3	1038.16
Sr 216.596	851.033	ppb	3.6964	0.4	11390.3
Ti 334.941	992.751	ppb	2.1047	0.2	287302
Tl 190.794	2045.92	ppb	6.4831	0.3	2617.55
V 292.401	497.063	ppb	0.2626	0.1	15587.9
Zn 206.200	516.983	ppb	2.0875	0.4	1033.72

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

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

Weight: 1 Volume: 1 Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4231	ppb	0.3646	86.2	-84.0005
Al 308.215	107.963	ppb	0.6739	0.6	392.323
As 188.980	13.5480	ppb	3.6529	27.0	13.2175
B 249.678	84.2469	ppb	1.6001	1.9	1056.35
Ba 389.178	64.4912	ppb	0.2753	0.4	1786.83
Be 313.042	0.0376	ppb	0.0075	19.8	-221.804
Ca 370.602	102786	ppb	297.9	0.3	405019
Cd 226.502	-0.1952	ppb	0.0913	46.8	66.9581
Co 228.615	12.2634	ppb	0.2568	2.1	165.343
Cr 267.716	0.2931	ppb	0.0333	11.4	38.0175
Cu 324.754	0.9590	ppb	0.0819	8.5	-62.2792
Fe 271.441	22335.3	ppb	20.8762	0.1	45888.7
K 766.491	3841.27	ppb	7.9554	0.2	206752
Mg 279.078	6340.22	ppb	18.4820	0.3	16550.1
Mn 257.610	1056.59	ppb	2.1897	0.2	290556
Mo 202.032	1.1669	ppb	0.0989	8.5	18.2834
Na 330.237	30385.8	ppb	105.680	0.3	1834.63
Ni 231.604	3.9663	ppb	0.4894	12.3	14.4850
Pb 220.353	0.0241	ppb	1.0716	4437.5	2.8908
Sb 206.834	-0.1901	ppb	3.4839	1832.8	3.3041
Se 196.026	-4.2928	ppb	5.2745	122.9	-0.9465
Sn 189.925	-2.7973	ppb	2.5877	92.5	-4.4917
Sr 216.596	564.131	ppb	2.3431	0.4	7571.56
Ti 334.941	1.7512	ppb	0.0681	3.9	415.106
Tl 190.794	3.9126	ppb	3.2199	82.3	-3.3402
V 292.401	0.0995	ppb	0.6152	618.3	0.9881
Zn 206.200	3.8991	ppb	0.3134	8.0	9.5728

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

Weight: 1 Volume: 1 Dilution: 1

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

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

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

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

Weight: 1 Volume: 1 Dilution: 1

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

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

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

Weight: 1 Volume: 1 Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1079	ppb	0.3130	290.1	-92.4917
Al 308.215	2.4759	ppb	3.5790	144.6	14.0818
As 188.980	27.5455	ppb	3.1286	11.4	22.3594
B 249.678	117.626	ppb	1.1144	0.9	1409.64
Ba 389.178	51.6586	ppb	0.5526	1.1	1510.20
Be 313.042	0.0295	ppb	0.0049	16.5	-268.529
Ca 370.602	24504	ppb	32.83	0.1	90458
Cd 226.502	-0.4969	ppb	0.1421	28.6	183.538
Co 228.615	0.4163	ppb	0.4176	100.3	7.3324
Cr 267.716	0.2526	ppb	0.0221	8.8	43.3228
Cu 324.754	1.5352	ppb	0.5015	32.7	-19.0723
Fe 271.441	65340.4	ppb	147.875	0.2	134239
K 766.491	6514.01	ppb	2.0332	0.0	350459
Mg 279.078	7057.17	ppb	5.7821	0.1	18445.3
Mn 257.610	330.253	ppb	0.7152	0.2	91294.9
Mo 202.032	2.3659	ppb	0.0713	3.0	25.9746
Na 330.237	19232.1	ppb	116.588	0.6	1142.44
Ni 231.604	1.4788	ppb	0.8356	56.5	7.2602
Pb 220.353	-0.8342	ppb	0.9621	115.3	0.7381
Sb 206.834	-4.4838	ppb	4.4465	99.2	-0.2869
Se 196.026	0.3262	ppb	2.5738	789.0	1.8747
Sn 189.925	0.7142	ppb	1.3246	185.5	-0.9736
Sr 216.596	133.808	ppb	0.6158	0.5	1833.52
Ti 334.941	-0.0033	ppb	0.0203	608.3	-83.2671
Tl 190.794	2.2777	ppb	1.6251	71.3	-9.1137
V 292.401	0.5657	ppb	0.3914	69.2	15.6287
Zn 206.200	4.5091	ppb	0.7638	16.9	315.7910

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

Weight: 1 Volume: 1 Dilution: 1

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

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

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

Weight: 1 Volume: 1 Dilution: 1

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

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

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

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

Rack 2, Tube 22

Weight: 1

Volume: 1

Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6802	ppb	0.0784	11.5	-39.9983
Al 308.215	3.0599	ppb	1.5769	51.5	16.0325
As 188.980	-4.7590	ppb	1.5479	32.5	-1.2385
B 249.678	0.7728	ppb	1.3841	179.1	69.2614
Ba 389.178	-0.1080	ppb	0.2615	242.1	-37.7119
Be 313.042	0.0167	ppb	0.0340	204.1	-299.998
Ca 370.602	52.16	ppb	11.56	22.2	200.6
Cd 226.502	-0.0986	ppb	0.0540	54.8	3.8811
Co 228.615	-0.1295	ppb	0.3091	238.7	2.7544
Cr 267.716	-0.1353	ppb	0.0322	23.8	4.2748
Cu 324.754	0.8339	ppb	0.2653	31.8	-75.6884
Fe 271.441	9.8151	ppb	4.1567	42.3	19.2481
K 766.491	6.8663	ppb	2.5142	36.6	583.629
Mg 279.078	12.1522	ppb	3.6782	30.3	53.0692
Mn 257.610	-0.9489	ppb	0.0382	4.0	85.7911
Mo 202.032	0.1484	ppb	0.4429	298.4	10.9071
Na 330.237	-30.0269	ppb	65.4963	218.1	-3.4211
Ni 231.604	0.1095	ppb	0.5479	500.2	0.9104
Pb 220.353	0.2409	ppb	1.0844	450.1	3.0789
Sb 206.834	-0.3448	ppb	0.3497	101.4	2.5973
Se 196.026	0.2420	ppb	3.6227	1497.3	1.2658
Sn 189.925	0.0445	ppb	0.3522	790.8	-1.6724
Sr 216.596	0.3000	ppb	0.2140	71.3	13.2800
Ti 334.941	0.0667	ppb	0.0739	110.8	-101.927
Tl 190.794	0.4901	ppb	1.8424	376.0	-3.1230
V 292.401	-0.0032	ppb	0.2230	7061.9	-1.8014
Zn 206.200	0.0965	ppb	0.4310	446.6	35.9793

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

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

Weight: 1

Volume: 1

Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6229	ppb	0.2452	39.4	-44.7083
Al 308.215	0.9918	ppb	2.4578	247.8	8.5816
As 188.980	-4.9970	ppb	0.4349	8.7	-1.4168
B 249.678	1.3563	ppb	0.6017	44.4	76.3525
Ba 389.178	-0.1504	ppb	0.3839	255.3	-38.9081
Be 313.042	0.0072	ppb	0.0042	59.2	-319.958
Ca 370.602	5.704	ppb	0.5916	10.4	16.69
Cd 226.502	-0.0086	ppb	0.1956	2269.3	8.0509
Co 228.615	-0.3913	ppb	0.5203	133.0	-0.6791
Cr 267.716	-0.1635	ppb	0.1194	73.0	2.7994
Cu 324.754	0.5339	ppb	0.5856	109.7	-91.2792
Fe 271.441	7.7248	ppb	3.2589	42.2	14.9923
K 766.491	3.5528	ppb	0.2872	8.1	405.468
Mg 279.078	2.2466	ppb	1.2958	57.7	27.2153
Mn 257.610	-0.7358	ppb	0.0495	6.7	144.206
Mo 202.032	-0.3213	ppb	0.3721	115.8	6.8963
Na 330.237	4.3768	ppb	252.314	5764.8	-1.3254
Ni 231.604	0.1912	ppb	0.5071	265.2	1.1852
Pb 220.353	-0.1431	ppb	1.0825	756.7	2.2095
Sb 206.834	1.2951	ppb	1.6959	131.0	4.3756
Se 196.026	-4.1927	ppb	2.9991	71.5	-1.3602
Sn 189.925	1.6330	ppb	0.4105	25.1	-0.0601
Sr 216.596	0.0015	ppb	0.3530	23083.7	9.3007
Ti 334.941	0.1764	ppb	0.0303	17.1	-70.2045
Tl 190.794	0.7743	ppb	0.9524	123.0	-2.7572
V 292.401	0.0168	ppb	0.3008	1787.0	-1.0809
Zn 206.200	-0.5909	ppb	0.4374	74.0	-0.6057

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

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

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	20.3423	ppb	1.1704	5.8	1579.17
Al 308.215	5112.49	ppb	265.111	5.2	18346.1
As 188.980	103.899	ppb	4.6993	4.5	79.9753
B 249.678	194.412	ppb	11.3888	5.9	2415.98
Ba 389.178	103.801	ppb	5.5093	5.3	2830.03
Be 313.042	52.5447	ppb	2.8155	5.4	110263
Ca 370.602	4950	ppb	246.6	5.0	19150
Cd 226.502	53.4947	ppb	2.9825	5.6	2506.16
Co 228.615	53.2997	ppb	3.2841	6.2	706.842
Cr 267.716	106.303	ppb	5.7652	5.4	5565.76
Cu 324.754	103.417	ppb	7.1337	6.9	5254.21
Fe 271.441	4934.09	ppb	270.489	5.5	10147.3
K 766.491	5515.85	ppb	333.610	6.0	296790
Mg 279.078	5029.46	ppb	265.210	5.3	13134.5
Mn 257.610	532.480	ppb	28.3745	5.3	146597
Mo 202.032	94.0473	ppb	5.7485	6.1	812.247
Na 330.237	4659.22	ppb	287.509	6.2	277.604
Ni 231.604	104.483	ppb	5.4188	5.2	352.303
Pb 220.353	50.9855	ppb	5.5288	10.8	117.820
Sb 206.834	48.0323	ppb	2.0691	4.3	55.2171
Se 196.026	100.621	ppb	3.7553	3.7	60.9004
Sn 189.925	141.676	ppb	9.5554	6.7	142.082
Sr 216.596	102.506	ppb	5.3350	5.2	1375.70
Ti 334.941	98.3397	ppb	5.3544	5.4	28361.4
Tl 190.794	43.8275	ppb	2.6868	6.1	51.0882
V 292.401	100.435	ppb	5.2233	5.2	3144.06
Zn 206.200	105.483	ppb	6.1343	5.8	312.089

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

Cont Calib Verif (CCV) 4/5/2013, 8:30:55 PM Rack 2, Tube 25
 Weight: 1 Volume: 1 Dilution: 1

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

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

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

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

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.3754	ppb	0.3406	90.7	-65.1283	0.37538
Al 308.215	1.4689	ppb	1.1099	75.6	10.3605	1.46893
As 188.980	-3.3562	ppb	1.8110	54.0	-0.1901	-3.35624
B 249.678	9.8509	ppb	1.5053	15.3	179.566	9.85092
Ba 389.178	0.9612	ppb	0.1571	16.3	-8.4898	0.96118
Be 313.042	0.0501	ppb	0.0091	18.2	-229.672	0.05013
Ca 370.602	2.188	ppb	4.082	186.5	3.187	2.18825
Cd 226.502	0.0470	ppb	0.0265	56.5	10.6183	0.04697
Co 228.615	0.1040	ppb	0.2471	237.6	5.8207	0.10401
Cr 267.716	0.3533	ppb	0.0711	20.1	29.7869	0.35328
Cu 324.754	1.3037	ppb	0.1975	15.2	-51.2874	1.30370
Fe 271.441	1.6036	ppb	2.5800	160.9	2.4687	1.60362
K 766.491	2.5675	ppb	0.5463	21.3	352.491	2.56750
Mg 279.078	3.5042	ppb	2.2728	64.9	30.4915	3.50419
Mn 257.610	-0.5228	ppb	0.1606	30.7	202.668	-0.52283
Mo 202.032	0.6565	ppb	0.2383	36.3	15.2451	0.65646
Na 330.237	22.6416	ppb	271.506	1199.1	-0.2313	22.64164
Ni 231.604	0.0655	ppb	0.4878	744.3	0.7622	0.06554
Pb 220.353	0.5656	ppb	2.1198	374.8	3.8133	0.56556
Sb 206.834	-2.1305	ppb	1.5713	73.8	0.6662	-2.13048
Se 196.026	-1.0952	ppb	3.3949	310.0	0.4740	-1.09520
Sn 189.925	0.7996	ppb	3.1073	388.6	-0.9060	0.79964
Sr 216.596	0.5201	ppb	0.3826	73.6	16.1806	0.52006
Ti 334.941	0.1812	ppb	0.0265	14.6	-68.8149	0.18123
Tl 190.794	5.2690	ppb	2.0231	38.4	3.0256	5.26902
V 292.401	0.4280	ppb	0.1795	42.0	11.6767	0.42795
Zn 206.200	0.9484	ppb	0.3352	35.3	3.6790	0.94841

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

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

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	62.2267	ppb	0.2978	0.5	5034.79
Al 308.215	2092.14	ppb	4.0096	0.2	7521.38
As 188.980	206.955	ppb	3.4480	1.7	156.966
B 249.678	394.334	ppb	1.9008	0.5	4825.73
Ba 389.178	205.436	ppb	0.8024	0.4	5685.82
Be 313.042	211.738	ppb	0.1192	0.1	445378
Ca 370.602	19927	ppb	6.215	0.0	76956
Cd 226.502	209.679	ppb	0.3933	0.2	9803.07
Co 228.615	208.846	ppb	1.6468	0.8	2757.36
Cr 267.716	213.353	ppb	0.3030	0.1	11165.9
Cu 324.754	208.053	ppb	1.3582	0.7	10694.2
Fe 271.441	20779.9	ppb	22.2871	0.1	42732.5
K 766.491	21085.1	ppb	75.8036	0.4	1133918
Mg 279.078	20438.5	ppb	1.3018	0.0	53317.9
Mn 257.610	2101.15	ppb	3.4976	0.2	577460
Mo 202.032	189.534	ppb	1.5176	0.8	1626.50
Na 330.237	18080.8	ppb	85.6537	0.5	1084.81
Ni 231.604	208.302	ppb	1.0126	0.5	702.114
Pb 220.353	203.586	ppb	3.0507	1.5	463.779
Sb 206.834	143.041	ppb	7.6726	5.4	159.354
Se 196.026	189.905	ppb	0.8887	0.5	114.351
Sn 189.925	134.158	ppb	2.6274	2.0	134.465
Sr 216.596	214.819	ppb	0.6765	0.3	2879.92
Ti 334.941	196.747	ppb	0.2839	0.1	56911.9
Tl 190.794	47.7112	ppb	1.5451	3.2	51.3501
V 292.401	201.148	ppb	0.1155	0.1	6298.17
Zn 206.200	201.474	ppb	1.4994	0.7	403.425

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

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

Weight: 1

Volume: 1

Dilution: 1

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

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

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

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

Weight: 1

Volume: 1

Dilution: 1

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

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

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

Weight: 1

Volume: 1

Dilution: 1

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

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

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

Weight: 1 Volume: 1 Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	17.9385	ppb	0.2267	1.3	1372.08
Al 308.215	5093.86	ppb	17.1902	0.3	18280.0
As 188.980	138.901	ppb	3.0878	2.2	105.904
B 249.678	330.185	ppb	1.4135	0.4	3995.03
Ba 389.178	163.071	ppb	0.6341	0.4	4568.14
Be 313.042	52.3199	ppb	0.0940	0.2	109803
Ca 370.602	51479	ppb	70.40	0.1	197609
Cd 226.502	52.2978	ppb	0.1517	0.3	2626.81
Co 228.615	53.7740	ppb	0.4495	0.8	710.504
Cr 267.716	106.233	ppb	0.0691	0.1	5577.98
Cu 324.754	105.251	ppb	0.8998	0.9	5367.63
Fe 271.441	63083.6	ppb	97.7740	0.2	129614
K 766.491	10548.6	ppb	25.1393	0.2	567388
Mg 279.078	11117.4	ppb	11.2806	0.1	29031.1
Mn 257.610	684.166	ppb	1.2692	0.2	188490
Mo 202.032	101.632	ppb	0.4894	0.5	873.572
Na 330.237	14261.5	ppb	57.3364	0.4	839.737
Ni 231.604	101.889	ppb	0.9689	1.0	345.121
Pb 220.353	50.4217	ppb	2.5714	5.1	116.571
Sb 206.834	49.4483	ppb	2.4938	5.0	58.0751
Se 196.026	99.6779	ppb	8.3675	8.4	60.7963
Sn 189.925	204.864	ppb	4.0533	2.0	206.242
Sr 216.596	288.016	ppb	0.7348	0.3	3889.70
Ti 334.941	99.2202	ppb	0.1824	0.2	28650.6
Tl 190.794	40.5151	ppb	3.1301	7.7	39.7228
V 292.401	102.366	ppb	0.3309	0.3	3203.07
Zn 206.200	109.831	ppb	0.1731	0.2	339.771

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

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

Weight: 1

Volume: 1

Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	34.0237	ppb	0.6439	1.9	2698.18
Al 308.215	5115.83	ppb	16.3603	0.3	18358.8
As 188.980	142.625	ppb	2.2911	1.6	108.689
B 249.678	322.372	ppb	1.3832	0.4	3900.40
Ba 389.178	162.410	ppb	0.5303	0.3	4549.60
Be 313.042	52.4476	ppb	0.0099	0.0	110072
Ca 370.602	51327	ppb	78.47	0.2	197030
Cd 226.502	52.5305	ppb	0.1774	0.3	2636.87
Co 228.615	53.5324	ppb	0.0829	0.2	707.325
Cr 267.716	106.548	ppb	0.2727	0.3	5594.38
Cu 324.754	105.832	ppb	1.3367	1.3	5397.69
Fe 271.441	62751.4	ppb	77.8529	0.1	128932
K 766.491	10518.4	ppb	33.4876	0.3	565765
Mg 279.078	11101.6	ppb	19.9919	0.2	28989.7
Mn 257.610	684.844	ppb	0.0418	0.0	188675
Mo 202.032	101.927	ppb	0.5845	0.6	876.110
Na 330.237	14184.8	ppb	127.344	0.9	835.157
Ni 231.604	101.911	ppb	1.5802	1.6	345.189
Pb 220.353	49.2522	ppb	1.9390	3.9	113.921
Sb 206.834	50.7286	ppb	2.3404	4.6	59.4562
Se 196.026	96.1766	ppb	2.2924	2.4	58.7216
Sn 189.925	202.461	ppb	3.3706	1.7	203.803
Sr 216.596	287.414	ppb	0.9349	0.3	3881.50
Ti 334.941	99.4053	ppb	0.3012	0.3	28704.1
Tl 190.794	40.7195	ppb	2.3935	5.9	40.0122
V 292.401	102.442	ppb	0.2087	0.2	3205.47
Zn 206.200	110.756	ppb	1.6452	1.5	332.619

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

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

Weight: 1

Volume: 1

Dilution: 1

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

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

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

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

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	47.3749	ppb	0.1153	0.2	3807.72
Al 308.215	5037.43	ppb	38.8062	0.8	18077.7
As 188.980	104.259	ppb	4.0043	3.8	80.2411
B 249.678	198.653	ppb	0.6313	0.3	2467.42
Ba 389.178	104.336	ppb	0.7118	0.7	2844.60
Be 313.042	53.0583	ppb	0.2616	0.5	111343
Ca 370.602	4947	ppb	28.66	0.6	19130
Cd 226.502	52.6018	ppb	0.3278	0.6	2464.91
Co 228.615	52.9457	ppb	0.2486	0.5	701.831
Cr 267.716	106.142	ppb	0.7050	0.7	5557.40
Cu 324.754	105.531	ppb	1.7237	1.6	5364.26
Fe 271.441	4990.49	ppb	8.5271	0.2	10263.2
K 766.491	5282.04	ppb	18.7541	0.4	284218
Mg 279.078	4962.16	ppb	27.4138	0.6	12958.8
Mn 257.610	535.972	ppb	1.5015	0.3	147555
Mo 202.032	102.198	ppb	0.8298	0.8	881.845
Na 330.237	4797.55	ppb	49.5464	1.0	285.946
Ni 231.604	102.628	ppb	0.8137	0.8	346.061
Pb 220.353	51.2693	ppb	0.8151	1.6	118.447
Sb 206.834	51.5648	ppb	3.0846	6.0	58.9227
Se 196.026	97.2134	ppb	1.7783	1.8	58.8843
Sn 189.925	204.081	ppb	4.2144	2.1	205.421
Sr 216.596	101.472	ppb	0.9255	0.9	1361.53
Ti 334.941	100.215	ppb	0.5941	0.6	28903.7
Tl 190.794	42.7499	ppb	3.0265	7.1	49.6807
V 292.401	102.092	ppb	0.4303	0.4	3194.29
Zn 206.200	106.995	ppb	1.2121	1.1	315.107

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

ics 680-271843/3-a (Samp) 4/5/2013, 9:35:09 PM Rack 2, Tube 35
 Weight: 1 Volume: 1 Dilution: 1

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

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

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

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

Weight: 1

Volume: 1

Dilution: 1

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

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

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

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

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

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

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

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

Weight: 1

Volume: 1

Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.9439	ppb	0.5097	54.0	-18.2817	0.94385
Al 308.215	0.7217	ppb	1.2022	166.6	7.6603	0.72168
As 188.980	0.3194	ppb	1.6065	503.0	2.5587	0.31941
B 249.678	10.7776	ppb	0.2224	2.1	190.825	10.77759
Ba 389.178	1.2253	ppb	0.5494	44.8	-1.2635	1.22528
Be 313.042	0.0871	ppb	0.0196	22.5	-151.863	0.08709
Ca 370.602	1.558	ppb	2.609	167.5	0.7416	1.55800
Cd 226.502	0.0575	ppb	0.0970	168.7	11.1059	0.05748
Co 228.615	0.0061	ppb	0.3267	5359.7	4.5377	0.00610
Cr 267.716	0.6552	ppb	0.2704	41.3	45.5514	0.65523
Cu 324.754	1.4970	ppb	0.1838	12.3	-41.2587	1.49704
Fe 271.441	2.2145	ppb	2.8306	127.8	3.6662	2.21450
K 766.491	3.8354	ppb	0.6374	16.6	420.664	3.83543
Mg 279.078	3.7540	ppb	1.9435	51.8	31.1347	3.75401
Mn 257.610	-0.1083	ppb	0.2213	204.3	316.466	-0.10832
Mo 202.032	0.3331	ppb	0.7452	223.7	12.4825	0.33310
Na 330.237	-45.7847	ppb	117.837	257.4	-4.3845	-45.78466
Ni 231.604	0.4065	ppb	1.0075	247.8	1.9099	0.40655
Pb 220.353	1.1260	ppb	0.7377	65.5	5.0835	1.12596
Sb 206.834	-0.0408	ppb	3.3974	8323.7	2.9296	-0.04082
Se 196.026	2.1983	ppb	6.0041	273.1	2.4244	2.19828
Sn 189.925	1.6010	ppb	3.8236	238.8	-0.0927	1.60096
Sr 216.596	0.6925	ppb	0.2681	38.7	18.4939	0.69251
Ti 334.941	0.1850	ppb	0.0226	12.2	-67.7111	0.18503
Tl 190.794	5.6840	ppb	0.8933	15.7	3.5589	5.68396
V 292.401	0.9916	ppb	0.2478	25.0	29.5056	0.99165
Zn 206.200	0.8483	ppb	1.0256	120.8	3.4781	0.84832

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

Weight: 1 Volume: 1 Dilution: 1

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

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

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

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

Weight: 1

Volume: 1

Dilution: 1

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

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

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

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

Weight: 1 Volume: 1 Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1760	ppb	0.1042	59.2	-116.300
Al 308.215	463.683	ppb	3.0845	0.7	1667.95
As 188.980	-2.5428	ppb	2.8500	112.1	0.9114
B 249.678	37.3608	ppb	0.5953	1.6	512.618
Ba 389.178	73.3718	ppb	0.6640	0.9	2032.46
Be 313.042	0.0764	ppb	0.0052	6.8	-160.992
Ca 370.602	49793	ppb	131.0	0.3	197189
Cd 226.502	0.0976	ppb	0.0534	54.7	16.0005
Co 228.615	0.3584	ppb	0.5294	147.7	9.3151
Cr 267.716	0.7877	ppb	0.1361	17.3	54.1406
Cu 324.754	3.2108	ppb	0.3858	12.0	48.0336
Fe 271.441	985.963	ppb	3.3906	0.3	2025.00
K 766.491	4431.90	ppb	2.0901	0.0	238508
Mg 279.078	18898.4	ppb	19.3188	0.1	49334.3
Mn 257.610	147.742	ppb	0.2022	0.1	41092.6
Mo 202.032	0.6617	ppb	0.3175	48.0	15.2283
Na 330.237	35602.0	ppb	63.9681	0.2	2158.68
Ni 231.604	2.7730	ppb	0.2638	9.5	9.9002
Pb 220.353	0.9740	ppb	0.2294	23.6	4.7673
Sb 206.834	-0.7550	ppb	1.9494	258.2	2.1799
Se 196.026	3.0782	ppb	4.7611	154.7	2.9970
Sn 189.925	1.5507	ppb	2.4339	157.0	-0.1027
Sr 216.596	122.682	ppb	0.2194	0.2	1655.28
Ti 334.941	5.9512	ppb	0.0065	0.1	1685.75
Tl 190.794	1.6036	ppb	1.3826	86.2	-2.0894
V 292.401	1.9843	ppb	0.1449	7.3	60.8000
Zn 206.200	10.8793	ppb	1.1976	11.0	335.154

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

Weight: 1 Volume: 1 Dilution: 1

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

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

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

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

Weight: 1

Volume: 1

Dilution: 1

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

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

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680-88830-h-6-dSD^5 (Samp) 4/5/2013, 10:33:01 PM Rack 2, Tube 44

Weight: 1

Volume: 1

Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4230	ppb	0.3427	81.0	-62.4260
Al 308.215	181.081	ppb	2.6717	1.5	654.443
As 188.980	-5.9081	ppb	0.8193	13.9	-1.9962
B 249.678	8.0296	ppb	0.5359	6.7	156.802
Ba 389.178	18.3967	ppb	0.5165	2.8	481.874
Be 313.042	0.0313	ppb	0.0084	26.8	-266.247
Ca 370.602	10715	ppb	14.83	0.1	42398
Cd 226.502	0.0646	ppb	0.1262	195.3	13.0437
Co 228.615	0.0609	ppb	0.3356	550.6	5.3296
Cr 267.716	0.0980	ppb	0.0752	76.8	16.8997
Cu 324.754	0.8083	ppb	0.3198	39.6	-76.8656
Fe 271.441	526.626	ppb	2.6298	0.5	1081.12
K 766.491	950.333	ppb	2.5038	0.3	51311.8
Mg 279.078	4054.45	ppb	2.5407	0.1	10600.9
Mn 257.610	35.5459	ppb	0.0950	0.3	10145.7
Mo 202.032	0.0854	ppb	0.1142	133.8	10.3365
Na 330.237	6866.21	ppb	91.8147	1.3	414.896
Ni 231.604	1.1586	ppb	0.7477	64.5	4.4547
Pb 220.353	0.6441	ppb	0.9206	142.9	3.9967
Sb 206.834	-2.8964	ppb	1.2328	42.6	-0.1451
Se 196.026	-6.3163	ppb	3.4248	54.2	-2.6031
Sn 189.925	-1.3250	ppb	0.7116	53.7	-3.0539
Sr 216.596	26.7064	ppb	0.7619	2.9	367.710
Ti 334.941	2.7828	ppb	0.0700	2.5	702.317
Tl 190.794	-0.3773	ppb	1.3608	360.7	-4.3691
V 292.401	0.6711	ppb	0.1305	19.4	19.5201
Zn 206.200	3.0210	ppb	0.5156	17.1	3758203

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680-88830-h-6-dPDS (Samp) 4/5/2013, 10:39:37 PM Rack 2, Tube 45

Weight: 1

Volume: 1

Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.0025	ppb	0.4426	0.9	4083.52
Al 308.215	2879.22	ppb	19.0298	0.7	10368.1
As 188.980	2254.25	ppb	11.2097	0.5	1688.43
B 249.678	1018.35	ppb	7.8081	0.8	12428.4
Ba 389.178	2156.18	ppb	1.6762	0.1	59049.8
Be 313.042	52.1118	ppb	0.0986	0.2	109274
Ca 370.602	57142	ppb	113.1	0.2	226303
Cd 226.502	50.9269	ppb	0.1746	0.3	2382.86
Co 228.615	516.025	ppb	0.9102	0.2	6820.04
Cr 267.716	210.342	ppb	0.4129	0.2	10998.3
Cu 324.754	264.183	ppb	1.3593	0.5	13609.9
Fe 271.441	3488.70	ppb	1.0134	0.0	7268.64
K 766.491	10029.2	ppb	10.4627	0.1	539463
Mg 279.078	24715.5	ppb	15.7455	0.1	64502.7
Mn 257.610	702.492	ppb	0.8090	0.1	193457
Mo 202.032	514.781	ppb	0.6907	0.1	4404.32
Na 330.237	39532.1	ppb	28.8978	0.1	2382.61
Ni 231.604	508.896	ppb	3.5464	0.7	1713.27
Pb 220.353	498.310	ppb	0.8867	0.2	1129.75
Sb 206.834	495.619	ppb	2.5753	0.5	533.872
Se 196.026	1969.25	ppb	4.8399	0.2	1167.46
Sn 189.925	1009.96	ppb	3.1237	0.3	1023.39
Sr 216.596	633.307	ppb	1.6974	0.3	8446.52
Ti 334.941	1005.92	ppb	3.5649	0.4	291098
Tl 190.794	2027.49	ppb	8.9020	0.4	2603.35
V 292.401	500.737	ppb	0.7548	0.2	15701.9
Zn 206.200	518.509	ppb	1.5457	0.3	1036.76

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

Weight: 1 Volume: 1 Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	17.7273	ppb	0.2664	1.5	1357.83
Al 308.215	5522.38	ppb	26.2816	0.5	19816.9
As 188.980	109.306	ppb	2.2811	2.1	84.5043
B 249.678	244.156	ppb	0.0510	0.0	3018.82
Ba 389.178	181.063	ppb	0.8232	0.5	5003.87
Be 313.042	52.6412	ppb	0.0613	0.1	110478
Ca 370.602	54514	ppb	76.97	0.1	215406
Cd 226.502	51.5084	ppb	0.0647	0.1	2417.89
Co 228.615	52.9089	ppb	0.3602	0.7	701.438
Cr 267.716	105.340	ppb	0.5085	0.5	5517.13
Cu 324.754	107.645	ppb	0.4730	0.4	5474.39
Fe 271.441	6181.16	ppb	8.6763	0.1	12709.4
K 766.491	9649.98	ppb	40.9088	0.4	519073
Mg 279.078	23832.4	ppb	8.7687	0.0	62198.5
Mn 257.610	672.566	ppb	0.2430	0.0	185241
Mo 202.032	102.442	ppb	0.9016	0.9	883.851
Na 330.237	36681.7	ppb	108.254	0.3	2220.55
Ni 231.604	103.863	ppb	0.6808	0.7	350.250
Pb 220.353	53.0500	ppb	2.2477	4.2	122.507
Sb 206.834	49.8861	ppb	2.2395	4.5	57.1214
Se 196.026	98.6588	ppb	11.3971	11.6	59.7905
Sn 189.925	197.494	ppb	3.2857	1.7	198.775
Sr 216.596	224.725	ppb	1.8253	0.8	3015.30
Ti 334.941	104.987	ppb	0.4441	0.4	30369.5
Tl 190.794	43.2988	ppb	0.7938	1.8	49.9794
V 292.401	103.214	ppb	0.6597	0.6	3229.75
Zn 206.200	112.516	ppb	0.7147	0.6	336.140

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

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

Weight: 1

Volume: 1

Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.0499	ppb	0.5591	5.6	725.307
Al 308.215	5511.55	ppb	16.2693	0.3	19777.9
As 188.980	108.549	ppb	3.3905	3.1	83.9269
B 249.678	234.500	ppb	0.8141	0.3	2901.78
Ba 389.178	176.527	ppb	0.6282	0.4	4877.81
Be 313.042	52.5755	ppb	0.0389	0.1	110340
Ca 370.602	53224	ppb	30.79	0.1	210319
Cd 226.502	51.4892	ppb	0.1331	0.3	2416.28
Co 228.615	52.9391	ppb	0.2130	0.4	701.865
Cr 267.716	105.222	ppb	0.1289	0.1	5511.01
Cu 324.754	105.985	ppb	0.6087	0.6	5388.12
Fe 271.441	5944.72	ppb	6.3589	0.1	12223.6
K 766.491	9616.32	ppb	43.5760	0.5	517263
Mg 279.078	23346.6	ppb	21.7717	0.1	60930.4
Mn 257.610	693.978	ppb	0.3916	0.1	191114
Mo 202.032	101.950	ppb	0.3331	0.3	879.664
Na 330.237	36334.7	ppb	135.205	0.4	2199.59
Ni 231.604	102.610	ppb	0.8956	0.9	346.027
Pb 220.353	52.0309	ppb	1.4070	2.7	120.207
Sb 206.834	45.9060	ppb	1.4800	3.2	52.8193
Se 196.026	93.7821	ppb	1.6029	1.7	56.9076
Sn 189.925	196.283	ppb	1.7336	0.9	197.545
Sr 216.596	220.661	ppb	1.0892	0.5	2960.75
Ti 334.941	104.979	ppb	0.2571	0.2	30365.0
Tl 190.794	41.7381	ppb	1.2521	3.0	47.9574
V 292.401	102.814	ppb	0.3259	0.3	3217.30
Zn 206.200	110.835	ppb	1.6518	1.5	333.784

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

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

Weight: 1

Volume: 1

Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3134	ppb	0.4238	135.2	-70.2301
Al 308.215	6.0326	ppb	0.2392	4.0	26.6672
As 188.980	-6.6599	ppb	2.7413	41.2	-2.6599
B 249.678	6.8263	ppb	0.6581	9.6	142.812
Ba 389.178	0.5202	ppb	0.0396	7.6	-20.5020
Be 313.042	0.0406	ppb	0.0031	7.5	-249.486
Ca 370.602	43.50	ppb	0.9901	2.3	166.5
Cd 226.502	0.0745	ppb	0.1336	179.4	11.9040
Co 228.615	-0.4303	ppb	0.7508	174.5	-1.1970
Cr 267.716	-0.1088	ppb	0.0961	88.4	5.6653
Cu 324.754	0.6709	ppb	0.1962	29.2	-84.1613
Fe 271.441	8.3568	ppb	4.4455	53.2	16.3916
K 766.491	8.8690	ppb	1.3231	14.9	691.308
Mg 279.078	21.3796	ppb	3.9602	18.5	77.1373
Mn 257.610	-0.5082	ppb	0.0307	6.0	206.881
Mo 202.032	-0.1802	ppb	0.5342	296.4	8.1012
Na 330.237	129.300	ppb	79.5337	61.5	6.2511
Ni 231.604	-0.5114	ppb	0.5259	102.8	-1.1791
Pb 220.353	-0.4034	ppb	0.4088	101.3	1.6192
Sb 206.834	-2.4181	ppb	3.8077	157.5	0.3622
Se 196.026	-4.1849	ppb	6.3319	151.3	-1.3555
Sn 189.925	0.5401	ppb	2.1964	406.7	-1.1694
Sr 216.596	0.5035	ppb	0.0789	15.7	16.0233
Ti 334.941	0.1427	ppb	0.0160	11.2	-79.9021
Tl 190.794	4.9480	ppb	1.4219	28.7	2.6124
V 292.401	-0.1113	ppb	0.2291	205.9	-5.1481
Zn 206.200	-0.0468	ppb	0.7854	1676.8	335.6925

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

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

Weight: 1

Volume: 1

Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	510.314	ppb	3.1778	0.6	41912.5	102.06290
Al 308.215	4970.91	ppb	33.3261	0.7	17818.6	99.41817
As 188.980	490.216	ppb	0.9593	0.2	368.735	98.04314
B 249.678	513.038	ppb	2.7495	0.5	6287.15	20.52153Q
Ba 389.178	4806.89	ppb	13.5632	0.3	131533	96.13772
Be 313.042	483.045	ppb	1.3982	0.3	1016290	96.60903
Ca 370.602	4903	ppb	15.66	0.3	19258	98.06741
Cd 226.502	479.397	ppb	0.7804	0.2	22272.8	95.87941
Co 228.615	487.499	ppb	0.8921	0.2	6443.63	97.49976
Cr 267.716	4910.51	ppb	18.9162	0.4	256441	98.21023
Cu 324.754	4784.23	ppb	20.2127	0.4	248273	95.68456
Fe 271.441	4921.25	ppb	16.0179	0.3	10255.6	98.42496
K 766.491	9857.44	ppb	16.5518	0.2	530228	98.57442
Mg 279.078	4891.13	ppb	11.6276	0.2	12686.7	97.82253
Mn 257.610	4832.24	ppb	11.3517	0.2	1327048	96.64482
Mo 202.032	493.259	ppb	1.4697	0.3	4210.71	98.65181
Na 330.237	7176.69	ppb	127.374	1.8	406.312	95.68919
Ni 231.604	2430.92	ppb	9.4674	0.4	8181.67	97.23663
Pb 220.353	494.448	ppb	0.8606	0.2	1122.62	98.88966
Sb 206.834	982.695	ppb	9.5640	1.0	1114.99	98.26945
Se 196.026	4869.10	ppb	9.0093	0.2	2885.89	97.38202
Sn 189.925	4957.38	ppb	15.2601	0.3	5029.83	99.14759
Sr 216.596	2405.82	ppb	9.9409	0.4	32086.1	96.23280
Ti 334.941	493.287	ppb	2.0505	0.4	142656	98.65742
Tl 190.794	4967.35	ppb	18.7473	0.4	6380.38	99.34704
V 292.401	4875.35	ppb	7.8169	0.2	153556	97.50700
Zn 206.200	2428.81	ppb	5.3734	0.2	4834.47	97.15259

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

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

Weight: 1 Volume: 1 Dilution: 1

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

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

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

Ics 680-272037/2-a (Samp) 4/5/2013, 11:18:23 PM Rack 2, Tube 51

Weight: 1 Volume: 1 Dilution: 1

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

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

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

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

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

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

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

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

Weight: 1 Volume: 1 Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2543	ppb	0.2407	94.6	-89.5327
Al 308.215	4.5705	ppb	1.1289	24.7	21.4018
As 188.980	-3.5938	ppb	2.9482	82.0	0.0462
B 249.678	10.2497	ppb	0.4392	4.3	184.416
Ba 389.178	234.246	ppb	0.8453	0.4	6435.41
Be 313.042	0.0239	ppb	0.0077	32.2	-274.372
Ca 370.602	40908	ppb	96.28	0.2	162077
Cd 226.502	0.5643	ppb	0.0105	1.9	34.7799
Co 228.615	-0.0397	ppb	0.6001	1512.5	3.9114
Cr 267.716	-0.1209	ppb	0.0870	71.9	5.3840
Cu 324.754	0.4683	ppb	0.0853	18.2	-94.7672
Fe 271.441	5.5145	ppb	3.8351	69.5	10.5838
K 766.491	6576.25	ppb	4.8406	0.1	353805
Mg 279.078	19796.5	ppb	35.0936	0.2	51680.9
Mn 257.610	-1.2402	ppb	0.0243	2.0	196.138
Mo 202.032	1.0317	ppb	0.3932	38.1	18.4236
Na 330.237	24657.4	ppb	80.7567	0.3	1494.89
Ni 231.604	1.3954	ppb	0.2943	21.1	5.2378
Pb 220.353	-0.0312	ppb	1.2226	3923.4	2.4603
Sb 206.834	-5.3373	ppb	0.9831	18.4	-2.8132
Se 196.026	1.7605	ppb	4.3546	247.3	2.1651
Sn 189.925	0.5135	ppb	1.7655	343.8	-1.1647
Sr 216.596	284.171	ppb	0.6056	0.2	3811.55
Ti 334.941	-0.0247	ppb	0.0364	147.8	-38.9058
Tl 190.794	1.8213	ppb	1.9821	108.8	-1.4038
V 292.401	11.8697	ppb	0.0942	0.8	373.068
Zn 206.200	3.4412	ppb	0.7346	21.3	8.6606

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

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

Weight: 1

Volume: 1

Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	55.5053	ppb	0.6818	1.2	4463.75
Al 308.215	5014.72	ppb	24.5689	0.5	17995.8
As 188.980	106.447	ppb	2.7377	2.6	82.2934
B 249.678	194.872	ppb	1.9752	1.0	2421.69
Ba 389.178	335.189	ppb	1.2863	0.4	9221.08
Be 313.042	51.8961	ppb	0.1427	0.3	108908
Ca 370.602	45737	ppb	131.5	0.3	180760
Cd 226.502	50.6142	ppb	0.4325	0.9	2372.32
Co 228.615	50.7125	ppb	0.2794	0.6	672.418
Cr 267.716	102.097	ppb	0.1795	0.2	5346.40
Cu 324.754	100.624	ppb	0.9122	0.9	5109.23
Fe 271.441	4818.55	ppb	13.1954	0.3	9909.54
K 766.491	11544.3	ppb	21.6367	0.2	620929
Mg 279.078	24607.9	ppb	43.8105	0.2	64225.2
Mn 257.610	517.155	ppb	1.0606	0.2	142578
Mo 202.032	98.2304	ppb	1.0402	1.1	847.953
Na 330.237	28771.3	ppb	128.054	0.4	1741.11
Ni 231.604	98.4633	ppb	0.7675	0.8	332.041
Pb 220.353	48.0872	ppb	1.5611	3.2	111.245
Sb 206.834	48.6178	ppb	3.4377	7.1	55.7355
Se 196.026	94.4150	ppb	3.8079	4.0	57.2213
Sn 189.925	194.208	ppb	4.6974	2.4	195.431
Sr 216.596	382.212	ppb	1.3223	0.3	5118.20
Ti 334.941	96.7358	ppb	0.4063	0.4	27985.6
Tl 190.794	38.7168	ppb	0.9758	2.5	44.5460
V 292.401	109.866	ppb	0.1950	0.2	3441.05
Zn 206.200	101.091	ppb	0.8480	0.8	203.331

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

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	11.0055	ppb	0.5365	4.9	807.984
Al 308.215	1006.25	ppb	1.4052	0.1	3615.08
As 188.980	17.5600	ppb	2.6009	14.8	15.5263
B 249.678	42.7136	ppb	0.5705	1.3	577.642
Ba 389.178	68.4248	ppb	0.6047	0.9	1854.42
Be 313.042	10.5985	ppb	0.0224	0.2	21975.0
Ca 370.602	9267	ppb	29.45	0.3	36620
Cd 226.502	10.3444	ppb	0.1281	1.2	491.576
Co 228.615	10.3687	ppb	0.2289	2.2	141.036
Cr 267.716	20.7646	ppb	0.0850	0.4	1096.39
Cu 324.754	20.5301	ppb	0.6476	3.2	947.710
Fe 271.441	988.430	ppb	6.2643	0.6	2032.04
K 766.491	2339.61	ppb	2.7274	0.1	126010
Mg 279.078	4941.00	ppb	18.9714	0.4	12912.8
Mn 257.610	105.330	ppb	0.3552	0.3	29314.0
Mo 202.032	20.0729	ppb	0.2836	1.4	180.946
Na 330.237	5674.49	ppb	118.393	2.1	342.088
Ni 231.604	20.3632	ppb	0.4298	2.1	69.0989
Pb 220.353	8.5915	ppb	1.2822	14.9	21.9510
Sb 206.834	7.5021	ppb	1.0111	13.5	11.1248
Se 196.026	17.8305	ppb	3.9364	22.1	11.7199
Sn 189.925	37.9632	ppb	1.6369	4.3	36.8207
Sr 216.596	77.7659	ppb	0.4088	0.5	1048.74
Ti 334.941	19.6718	ppb	0.0441	0.2	5594.15
Tl 190.794	9.7106	ppb	0.7431	7.7	8.4301
V 292.401	22.1497	ppb	0.3726	1.7	692.337
Zn 206.200	20.9003	ppb	0.4104	2.0	434560

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Weight: 1 Volume: 1 Dilution: 1

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

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

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

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

Weight: 1

Volume: 1

Dilution: 1

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

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

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

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

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	37.4457	ppb	0.6269	1.7	2975.38
Al 308.215	4865.66	ppb	34.7714	0.7	17461.1
As 188.980	103.220	ppb	1.4455	1.4	79.8721
B 249.678	187.705	ppb	1.4414	0.8	2334.74
Ba 389.178	327.673	ppb	0.8003	0.2	9013.00
Be 313.042	50.3783	ppb	0.1131	0.2	105712
Ca 370.602	44716	ppb	119.1	0.3	176727
Cd 226.502	49.2487	ppb	0.2554	0.5	2308.60
Co 228.615	49.3921	ppb	0.3647	0.7	655.028
Cr 267.716	99.5882	ppb	0.5636	0.6	5215.31
Cu 324.754	98.5736	ppb	0.2465	0.3	5002.69
Fe 271.441	4704.72	ppb	4.1450	0.1	9675.42
K 766.491	11200.4	ppb	14.4265	0.1	602435
Mg 279.078	23862.3	ppb	15.6624	0.1	62279.9
Mn 257.610	504.888	ppb	0.5836	0.1	139202
Mo 202.032	96.3504	ppb	0.1875	0.2	831.910
Na 330.237	27797.4	ppb	97.2046	0.3	1682.07
Ni 231.604	95.0970	ppb	0.5740	0.6	320.708
Pb 220.353	49.1836	ppb	0.3512	0.7	113.734
Sb 206.834	46.0538	ppb	0.8812	1.9	52.9499
Se 196.026	92.2372	ppb	4.3464	4.7	55.9272
Sn 189.925	189.588	ppb	3.3907	1.8	190.741
Sr 216.596	371.351	ppb	1.4231	0.4	4973.06
Ti 334.941	95.1064	ppb	0.4234	0.4	27510.8
Tl 190.794	40.7489	ppb	0.6402	1.6	47.1965
V 292.401	107.946	ppb	0.4428	0.4	3380.97
Zn 206.200	99.8555	ppb	1.1286	1.1	209.872

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

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

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

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

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

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

Weight: 1 Volume: 1 Dilution: 1

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

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

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

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

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

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

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

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

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	8.0289	ppb	0.5417	6.7	564.162
Al 308.215	5038.86	ppb	17.3123	0.3	18082.8
As 188.980	103.883	ppb	2.0285	2.0	79.9607
B 249.678	189.600	ppb	1.3786	0.7	2357.45
Ba 389.178	104.517	ppb	0.3768	0.4	2849.38
Be 313.042	52.8567	ppb	0.1148	0.2	110918
Ca 370.602	5050	ppb	17.64	0.3	19541
Cd 226.502	52.0774	ppb	0.2126	0.4	2440.55
Co 228.615	52.4618	ppb	0.7082	1.3	695.437
Cr 267.716	106.397	ppb	0.4019	0.4	5570.71
Cu 324.754	105.651	ppb	0.6073	0.6	5370.49
Fe 271.441	4963.25	ppb	9.2157	0.2	10207.1
K 766.491	5163.01	ppb	14.3932	0.3	277819
Mg 279.078	4937.61	ppb	11.0201	0.2	12894.8
Mn 257.610	532.867	ppb	1.3805	0.3	146702
Mo 202.032	102.209	ppb	0.2363	0.2	881.937
Na 330.237	4660.77	ppb	132.060	2.8	277.666
Ni 231.604	102.805	ppb	0.4917	0.5	346.656
Pb 220.353	50.4085	ppb	2.2237	4.4	116.499
Sb 206.834	53.1274	ppb	1.5933	3.0	60.6160
Se 196.026	99.3479	ppb	5.1214	5.2	60.1479
Sn 189.925	212.252	ppb	0.3168	0.1	213.714
Sr 216.596	101.774	ppb	0.7529	0.7	1365.60
Ti 334.941	100.158	ppb	0.3611	0.4	28887.0
Tl 190.794	41.9535	ppb	1.7670	4.2	48.6575
V 292.401	101.179	ppb	0.3650	0.4	3165.52
Zn 206.200	105.844	ppb	1.2629	1.2	312.808

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

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

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

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

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

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

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.7720b	ppb	0.2514	32.6	-104.477
Al 308.215	229788b	ppb	724.595	0.3	824072
As 188.980	183.359b	ppb	5.7784	3.2	136.316
B 249.678	64.0533b	ppb	0.9885	1.5	329.984
Ba 389.178	1007.98b	ppb	0.9685	0.1	28802.7
Be 313.042	13.8892b	ppb	0.0879	0.6	28907.9
Ca 370.602	207194b	ppb	208.5	0.1	780707
Cd 226.502	0.9919b	ppb	0.1787	18.0	1325.86
Co 228.615	186.482b	ppb	0.6493	0.3	2699.20
Cr 267.716	460.320b	ppb	1.3511	0.3	24209.0
Cu 324.754	703.618b	ppb	1.6761	0.2	36540.0
Fe 271.441	416965b	ppb	631.853	0.2	856693
K 766.491	110637xb	ppb	186.941	0.2	5948945
Mg 279.078	179982b	ppb	280.518	0.2	469543
Mn 257.610	7962.47b	ppb	10.3661	0.1	2189447
Mo 202.032	151.103b	ppb	1.2254	0.8	1272.96
Na 330.237	57538.5b	ppb	93.7428	0.2	3253.11
Ni 231.604	289.732b	ppb	2.2259	0.8	986.862
Pb 220.353	651.010b	ppb	6.5024	1.0	1467.81
Sb 206.834	4.1176b	ppb	2.0927	50.8	20.5857
Se 196.026	-1.2930b	ppb	5.6793	439.3	5.7023
Sn 189.925	211.795b	ppb	3.8430	1.8	213.363
Sr 216.596	2348.10b	ppb	5.1403	0.2	31611.8
Ti 334.941	8616.55b	ppb	21.3002	0.2	2494341
Tl 190.794	18.1756b	ppb	3.3888	18.6	-43.9932
V 292.401	1009.95b	ppb	1.1845	0.1	31991.9
Zn 206.200	1150.30b	ppb	2.7261	0.2	3297.88

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

680-88866-a-19-aSD^5 (Samp) 4/6/2013, 12:48:38 AM

Rack 3, Tube 7

Weight: 1

Volume: 1

Dilution: 1

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

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

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

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

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

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

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

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

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

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

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

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

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	22.6777b	ppb	3.4970	15.4	1696.07
Al 308.215	252670b	ppb	34312.1	13.6	906134
As 188.980	297.757b	ppb	40.6050	13.6	222.049
B 249.678	251.077b	ppb	26.0393	10.4	2613.05
Ba 389.178	1114.84b	ppb	152.853	13.7	31764.0
Be 313.042	64.3498b	ppb	8.3954	13.0	135126
Ca 370.602	216546b	ppb	29142	13.5	818803
Cd 226.502	48.4713b	ppb	10.1822	21.0	3502.73
Co 228.615	237.040b	ppb	35.6404	15.0	3380.04
Cr 267.716	583.935b	ppb	77.4357	13.3	30665.7
Cu 324.754	788.935b	ppb	101.072	12.8	40968.3
Fe 271.441	408151b	ppb	54074.9	13.2	838595
K 766.491	123630xb	ppb	12946.8	10.5	6647546
Mg 279.078	196470b	ppb	26042.4	13.3	512547
Mn 257.610	8513.24b	ppb	1097.83	12.9	2340787
Mo 202.032	210.419b	ppb	27.5820	13.1	1779.82
Na 330.237	76475.1b	ppb	8488.00	11.1	4399.68
Ni 231.604	375.671b	ppb	49.5736	13.2	1275.86
Pb 220.353	282.419b	ppb	35.8217	12.7	631.808
Sb 206.834	16.7323b	ppb	2.2414	13.4	34.8811
Se 196.026	87.6235b	ppb	15.4846	17.7	58.4588
Sn 189.925	312.430b	ppb	39.7538	12.7	315.517
Sr 216.596	2516.20b	ppb	324.088	12.9	33850.1
Ti 334.941	9150.11b	ppb	1209.85	13.2	2648826
Tl 190.794	55.5680b	ppb	5.9939	10.8	4.1522
V 292.401	1099.91b	ppb	143.879	13.1	34821.0
Zn 206.200	1270.50b	ppb	164.744	13.0	2537.52

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

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

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

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

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

Weight: 1 Volume: 1 Dilution: 1

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

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

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

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

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

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

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

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

Weight: 1

Volume: 1

Dilution: 1

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

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.5959	ppb	0.1144	19.2	-46.9364	0.59587
Al 308.215	11.1973	ppb	1.6478	14.7	45.2311	11.19727
As 188.980	-2.5203	ppb	3.4515	136.9	0.4350	-2.52034
B 249.678	9.3478	ppb	1.0509	11.2	173.439	9.34778
Ba 389.178	0.7496	ppb	0.7315	97.6	-14.2462	0.74956
Be 313.042	0.0830	ppb	0.0232	27.9	-160.411	0.08303
Ca 370.602	11.60	ppb	6.234	53.7	39.47	11.60162
Cd 226.502	0.0947	ppb	0.0499	52.7	12.8673	0.09467
Co 228.615	-0.0900	ppb	0.6699	744.6	3.2858	-0.08998
Cr 267.716	0.4580	ppb	0.2337	51.0	35.2584	0.45801
Cu 324.754	1.1420	ppb	0.7246	63.5	-59.6869	1.14205
Fe 271.441	14.4191	ppb	4.9588	34.4	28.7995	14.41915
K 766.491	11.1465	ppb	1.4928	13.4	813.765	11.14650
Mg 279.078	8.0387	ppb	1.0393	12.9	42.3136	8.03873
Mn 257.610	0.0458	ppb	0.3695	806.1	358.873	0.04584
Mo 202.032	0.5430	ppb	0.1257	23.1	14.2747	0.54303
Na 330.237	-0.0810	ppb	79.2027	97830.9	-1.6145	-0.08096
Ni 231.604	0.4635	ppb	1.2105	261.2	2.1020	0.46354
Pb 220.353	1.1315	ppb	0.1839	16.3	5.0954	1.13149
Sb 206.834	-0.6859	ppb	2.3334	340.2	2.2317	-0.68593
Se 196.026	4.6156	ppb	4.0227	87.2	3.8560	4.61562
Sn 189.925	0.9185	ppb	1.5249	166.0	-0.7853	0.91850
Sr 216.596	0.3960	ppb	0.3889	98.2	14.5424	0.39597
Ti 334.941	0.7771	ppb	0.1318	17.0	103.644	0.77709
Tl 190.794	5.1636	ppb	1.0483	20.3	2.8879	5.16356
V 292.401	0.9318	ppb	0.2745	29.5	27.6249	0.93184
Zn 206.200	0.3084	ppb	0.6189	200.7	2.3998	0.30838

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

680-88866-a-22-a (Samp) 4/6/2013, 1:40:08 AM Rack 3, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5552u	0.0177u	0.1330u
Al 308.215	150021	149226	149722
As 188.980	110.523	114.678	118.494
B 249.678	49.0538	50.5694	51.2217
Ba 389.178	587.249	590.240	590.973
Be 313.042	10.6312	10.6032	10.6196
Ca 370.602	166852	166708	167425
Cd 226.502	-0.4690	-0.8311	-0.5395
Co 228.615	123.408	121.691	120.823
Cr 267.716	341.456	339.762	340.082
Cu 324.754	446.864	448.771	444.256
Fe 271.441	283688	282425	283538
K 766.491	89448.5x	89487.5x	90070.5x
Mg 279.078	144634	144489	144458
Mn 257.610	6060.59	6033.24	6047.58
Mo 202.032	103.081	102.322	102.561
Na 330.237	37143.4	37326.3	37299.7
Ni 231.604	196.980	194.986	196.605
Pb 220.353	113.540	114.359	119.758
Sb 206.834	-3.4925	3.3229	8.1751
Se 196.026	-4.7786	0.3101	-10.0302u
Sn 189.925	37.9562	38.2394	38.8191
Sr 216.596	2040.90	2033.17	2037.72
Ti 334.941	5286.50	5266.36	5279.23
Tl 190.794	21.1495u	9.0143u	19.0354u
V 292.401	653.002	648.745	652.025
Zn 206.200	690.688	690.511	692.697

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2353b	ppb	0.2829	120.2	-145.014
Al 308.215	149656b	ppb	401.456	0.3	536704
As 188.980	114.565b	ppb	3.9866	3.5	86.1442
B 249.678	50.2816b	ppb	1.1122	2.2	325.731
Ba 389.178	589.487b	ppb	1.9731	0.3	17016.7
Be 313.042	10.6180b	ppb	0.0141	0.1	22029.7
Ca 370.602	166995b	ppb	379.1	0.2	634229
Cd 226.502	-0.6132b	ppb	0.1920	31.3	843.783
Co 228.615	121.974b	ppb	1.3157	1.1	1756.02
Cr 267.716	340.434b	ppb	0.8998	0.3	17899.6
Cu 324.754	446.631b	ppb	2.2665	0.5	23156.6
Fe 271.441	283217b	ppb	689.696	0.2	581892
K 766.491	89668.8xb	ppb	348.438	0.4	4821517
Mg 279.078	144527b	ppb	93.9749	0.1	377059
Mn 257.610	6047.14b	ppb	13.6828	0.2	1662835
Mo 202.032	102.654b	ppb	0.3880	0.4	867.985
Na 330.237	37256.4b	ppb	98.8342	0.3	2104.40
Ni 231.604	196.191b	ppb	1.0598	0.5	668.443
Pb 220.353	115.886b	ppb	3.3788	2.9	259.270
Sb 206.834	2.6685b	ppb	5.8612	219.6	15.0754
Se 196.026	-4.8329b	ppb	5.1704	107.0	2.0838
Sn 189.925	38.3382b	ppb	0.4399	1.1	37.2870
Sr 216.596	2037.26b	ppb	3.8843	0.2	27389.0
Ti 334.941	5277.36b	ppb	10.2008	0.2	1527820
Tl 190.794	16.3997b	ppb	6.4827	39.5	-27.1185
V 292.401	651.258b	ppb	2.2298	0.3	20620.2
Zn 206.200	691.299b	ppb	1.2138	0.2	1381.42

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

680-88866-a-23-a (Samp) 4/6/2013, 1:46:35 AM Rack 3, Tube 16

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.6167u	-0.0560u	-0.1533u
Al 308.215	197938	198614	200077
As 188.980	114.678	118.471	119.586
B 249.678	65.7967	67.7987	66.1373
Ba 389.178	779.984	782.077	780.892
Be 313.042	13.5481	13.5786	13.5947
Ca 370.602	194892	194454	194596
Cd 226.502	1.8604	1.8801	1.3430
Co 228.615	151.793	156.467	155.042
Cr 267.716	468.075	469.534	470.668
Cu 324.754	591.161	592.675	592.565
Fe 271.441	361453	361962	362161
K 766.491	107022x	107009x	106815x
Mg 279.078	178097	178375	178493
Mn 257.610	7124.78	7166.10	7159.75
Mo 202.032	88.5237	88.3357	88.0544
Na 330.237	43909.5	44106.2	43930.0
Ni 231.604	261.616	261.151	261.029
Pb 220.353	136.339	136.529	137.876
Sb 206.834	-8.7635	8.1027	1.7873
Se 196.026	-1.2762	4.9946	-14.0513u
Sn 189.925	24.8894	20.8499	18.5434
Sr 216.596	2203.35	2208.67	2221.00
Ti 334.941	7526.46	7543.76	7560.31
Tl 190.794	21.2025u	11.8133u	21.1013u
V 292.401	894.057	895.786	895.330
Zn 206.200	921.485	924.477	922.713

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2753b	ppb	0.2996	108.8	-189.530
Al 308.215	198876b	ppb	1093.52	0.5	713212
As 188.980	117.578b	ppb	2.5730	2.2	87.7094
B 249.678	66.5776b	ppb	1.0711	1.6	427.959
Ba 389.178	780.984b	ppb	1.0496	0.1	22493.4
Be 313.042	13.5738b	ppb	0.0237	0.2	28255.5
Ca 370.602	194647b	ppb	223.3	0.1	736355
Cd 226.502	1.6945b	ppb	0.3046	18.0	1190.51
Co 228.615	154.434b	ppb	2.3952	1.6	2250.48
Cr 267.716	469.426b	ppb	1.2998	0.3	24664.9
Cu 324.754	592.134b	ppb	0.8442	0.1	30733.4
Fe 271.441	361859b	ppb	364.987	0.1	743470
K 766.491	106949xb	ppb	115.793	0.1	5750624
Mg 279.078	178322b	ppb	203.518	0.1	465224
Mn 257.610	7150.21b	ppb	22.2547	0.3	1966256
Mo 202.032	88.3046b	ppb	0.2362	0.3	740.232
Na 330.237	43981.9b	ppb	108.124	0.2	2461.48
Ni 231.604	261.265b	ppb	0.3096	0.1	889.569
Pb 220.353	136.914b	ppb	0.8378	0.6	304.375
Sb 206.834	0.3755b	ppb	8.5213	2269.4	16.1713
Se 196.026	-3.4443b	ppb	9.7063	281.8	3.7948
Sn 189.925	21.4276b	ppb	3.2122	15.0	20.1380
Sr 216.596	2211.01b	ppb	9.0563	0.4	29753.7
Ti 334.941	7543.51b	ppb	16.9242	0.2	2183797
Tl 190.794	18.0390b	ppb	5.3918	29.9	-36.1857
V 292.401	895.058b	ppb	0.8963	0.1	28357.6
Zn 206.200	922.892b	ppb	1.5040	0.2	1843.55

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

680-88866-a-24-a (Samp) 4/6/2013, 1:53:01 AM Rack 3, Tube 17
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0558u	0.4019u	1.0990
Al 308.215	174872	175031	175345
As 188.980	113.071	115.001	114.026
B 249.678	54.2178	54.4825	55.7601
Ba 389.178	807.049	806.271	806.665
Be 313.042	10.7967	10.7996	10.8064
Ca 370.602	129890	129843	129986
Cd 226.502	3.4988	3.2519	3.2622
Co 228.615	137.810	137.252	137.247
Cr 267.716	372.871	372.944	372.869
Cu 324.754	526.411	525.701	529.420
Fe 271.441	290726	290971	291489
K 766.491	90204.5x	90541.2x	90755.9x
Mg 279.078	140657	140657	140538
Mn 257.610	5511.37	5511.84	5513.18
Mo 202.032	77.9975	78.5539	78.9353
Na 330.237	41024.0	40984.9	41092.3
Ni 231.604	229.266	227.218	231.428
Pb 220.353	252.616	251.251	247.069
Sb 206.834	0.2532	3.4958	6.4838
Se 196.026	-4.9918	-7.7708u	-11.1112u
Sn 189.925	100.775	100.579	103.082
Sr 216.596	1578.60	1580.59	1578.94
Ti 334.941	6381.96	6388.87	6383.20
Tl 190.794	12.4965u	21.4527u	16.3791u
V 292.401	732.922	733.202	733.930
Zn 206.200	921.759	920.692	919.415

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5189b	ppb	0.5313	102.4	-100.918
Al 308.215	175083b	ppb	240.562	0.1	627885
As 188.980	114.033b	ppb	0.9650	0.8	85.2792
B 249.678	54.8202b	ppb	0.8247	1.5	371.397
Ba 389.178	806.662b	ppb	0.3887	0.0	22960.5
Be 313.042	10.8009b	ppb	0.0050	0.0	22403.5
Ca 370.602	129907b	ppb	73.10	0.1	486726
Cd 226.502	3.3377b	ppb	0.1397	4.2	1050.72
Co 228.615	137.436b	ppb	0.3240	0.2	1993.86
Cr 267.716	372.894b	ppb	0.0428	0.0	19596.2
Cu 324.754	527.177b	ppb	1.9745	0.4	27339.9
Fe 271.441	291062b	ppb	389.321	0.1	598014
K 766.491	90500.5xb	ppb	277.927	0.3	4866236
Mg 279.078	140617b	ppb	68.8310	0.0	366860
Mn 257.610	5512.13b	ppb	0.9428	0.0	1515943
Mo 202.032	78.4956b	ppb	0.4716	0.6	661.034
Na 330.237	41033.8b	ppb	54.3488	0.1	2318.61
Ni 231.604	229.304b	ppb	2.1054	0.9	780.102
Pb 220.353	250.312b	ppb	2.8901	1.2	562.289
Sb 206.834	3.4109b	ppb	3.1161	91.4	16.7939
Se 196.026	-7.9579b	ppb	3.0640	38.5	0.1285
Sn 189.925	101.479b	ppb	1.3920	1.4	101.355
Sr 216.596	1579.38b	ppb	1.0652	0.1	21270.3
Ti 334.941	6384.68b	ppb	3.6812	0.1	1848254
Tl 190.794	16.7761b	ppb	4.4913	26.8	-26.4520
V 292.401	733.352b	ppb	0.5201	0.1	23236.7
Zn 206.200	920.622b	ppb	1.1733	0.1	1839.40

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

680-88866-a-25-a (Samp) 4/6/2013, 1:59:28 AM Rack 3, Tube 18

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.0969	1.4321	2.3185
Al 308.215	231921	230527	229677
As 188.980	298.304	297.013	293.384
B 249.678	176.910	177.893	179.355
Ba 389.178	2527.08	2525.52	2521.86
Be 313.042	13.7380	13.7292	13.7046
Ca 370.602	163653	162920	163136
Cd 226.502	37.6119	38.0082	38.4202
Co 228.615	205.054	205.230	206.272
Cr 267.716	525.553	521.937	520.748
Cu 324.754	1153.54	1162.65	1152.45
Fe 271.441	339696	339983	340158
K 766.491	108038x	108625x	108141x
Mg 279.078	156846	156873	156813
Mn 257.610	7766.64	7775.70	7770.98
Mo 202.032	98.2995	97.7191	97.4816
Na 330.237	64889.0	65176.1	65177.0
Ni 231.604	269.304	270.834	273.684
Pb 220.353	948.452	946.897	940.218
Sb 206.834	19.5175	23.0856	23.7101
Se 196.026	-1.3306	4.5054	-1.0318
Sn 189.925	150.884	148.933	153.116
Sr 216.596	1878.45	1869.70	1871.47
Ti 334.941	10232.1	10201.6	10181.2
Tl 190.794	28.6500u	29.6480u	28.6013u
V 292.401	878.330	877.851	877.549
Zn 206.200	1962.32	1967.23	1971.21

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.6158b	ppb	0.6312	39.1	-13.1985
Al 308.215	230709b	ppb	1133.08	0.5	827370
As 188.980	296.233b	ppb	2.5506	0.9	221.255
B 249.678	178.053b	ppb	1.2302	0.7	1808.77
Ba 389.178	2524.82b	ppb	2.6811	0.1	70107.1
Be 313.042	13.7239b	ppb	0.0173	0.1	28559.0
Ca 370.602	163236b	ppb	376.5	0.2	614736
Cd 226.502	38.0134b	ppb	0.4042	1.1	2809.72
Co 228.615	205.518b	ppb	0.6582	0.3	3002.99
Cr 267.716	522.746b	ppb	2.5025	0.5	27453.0
Cu 324.754	1156.22b	ppb	5.6010	0.5	60017.8
Fe 271.441	339946b	ppb	233.125	0.1	698460
K 766.491	108268xb	ppb	313.044	0.3	5821559
Mg 279.078	156844b	ppb	29.9845	0.0	409150
Mn 257.610	7771.10b	ppb	4.5345	0.1	2136437
Mo 202.032	97.8334b	ppb	0.4207	0.4	822.925
Na 330.237	65080.7b	ppb	166.019	0.3	3716.37
Ni 231.604	271.274b	ppb	2.2231	0.8	922.689
Pb 220.353	945.189b	ppb	4.3748	0.5	2133.13
Sb 206.834	22.1044b	ppb	2.2620	10.2	39.5677
Se 196.026	0.7143b	ppb	3.2866	460.1	6.2909
Sn 189.925	150.978b	ppb	2.0932	1.4	151.620
Sr 216.596	1873.21b	ppb	4.6231	0.2	25224.1
Ti 334.941	10205.0b	ppb	25.6240	0.3	2953914
Tl 190.794	28.9664b	ppb	0.5908	2.0	-20.7460
V 292.401	877.910b	ppb	0.3941	0.0	27857.0
Zn 206.200	1966.92b	ppb	4.4509	0.2	3928.95

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

680-88866-a-26-a (Samp) 4/6/2013, 2:05:54 AM Rack 3, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.7242	0.5537u	0.2870u
Al 308.215	186575	186414	186982
As 188.980	160.423	162.657	164.902
B 249.678	110.192	110.640	110.164
Ba 389.178	1305.31	1300.87	1302.38
Be 313.042	12.5122	12.4849	12.4926
Ca 370.602	198053	196809	197693
Cd 226.502	15.1912	14.8296	14.7877
Co 228.615	150.473	148.971	149.657
Cr 267.716	426.384	425.536	427.219
Cu 324.754	719.376	714.255	715.944
Fe 271.441	330732	329224	328071
K 766.491	91969.9x	91307.0x	91386.1x
Mg 279.078	151326	150437	150821
Mn 257.610	8086.26	8068.43	8077.54
Mo 202.032	61.8437	61.6546	61.9016
Na 330.237	32340.5	32081.1	32572.3
Ni 231.604	243.097	237.582	239.285
Pb 220.353	348.723	355.134	352.528
Sb 206.834	8.1807	1.6301	15.5091
Se 196.026	-5.4418	2.6713	-2.7523
Sn 189.925	81.2101	88.1689	85.8756
Sr 216.596	1914.71	1909.74	1912.00
Ti 334.941	7923.19	7912.07	7931.53
Tl 190.794	27.9173u	23.4987u	23.6979u
V 292.401	822.779	820.136	821.435
Zn 206.200	1459.59	1450.58	1450.51

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5217b	ppb	0.2203	42.2	-103.252
Al 308.215	186657b	ppb	292.922	0.2	669391
As 188.980	162.661b	ppb	2.2394	1.4	121.852
B 249.678	110.332b	ppb	0.2672	0.2	998.664
Ba 389.178	1302.85b	ppb	2.2568	0.2	36634.0
Be 313.042	12.4966b	ppb	0.0141	0.1	25998.6
Ca 370.602	197518b	ppb	640.0	0.3	751108
Cd 226.502	14.9362b	ppb	0.2219	1.5	1707.05
Co 228.615	149.700b	ppb	0.7520	0.5	2199.99
Cr 267.716	426.379b	ppb	0.8414	0.2	22413.9
Cu 324.754	716.525b	ppb	2.6093	0.4	37182.6
Fe 271.441	329343b	ppb	1334.23	0.4	676665
K 766.491	91554.4xb	ppb	362.045	0.4	4922898
Mg 279.078	150862b	ppb	445.957	0.3	393545
Mn 257.610	8077.41b	ppb	8.9155	0.1	2220437
Mo 202.032	61.7999b	ppb	0.1292	0.2	515.963
Na 330.237	32331.3b	ppb	245.761	0.8	1758.07
Ni 231.604	239.988b	ppb	2.8238	1.2	817.100
Pb 220.353	352.128b	ppb	3.2241	0.9	792.389
Sb 206.834	8.4400b	ppb	6.9432	82.3	24.0202
Se 196.026	-1.8409b	ppb	4.1326	224.5	4.7984
Sn 189.925	85.0849b	ppb	3.5461	4.2	84.7445
Sr 216.596	1912.15b	ppb	2.4895	0.1	25745.8
Ti 334.941	7922.26b	ppb	9.7661	0.1	2293274
Tl 190.794	25.0380b	ppb	2.4955	10.0	-25.2294
V 292.401	821.450b	ppb	1.3215	0.2	26047.6
Zn 206.200	1453.56b	ppb	5.2213	0.4	2993.82

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

680-88866-a-27-a (Samp) 4/6/2013, 2:12:20 AM Rack 3, Tube 20

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7216u	-0.7741u	-0.5871u
Al 308.215	283971	283636	281565
As 188.980	162.001	153.122	153.210
B 249.678	62.0680	62.1409	61.9643
Ba 389.178	1157.53	1159.95	1156.85
Be 313.042	16.2173	16.2128	16.2114
Ca 370.602	226657	226676	226426
Cd 226.502	3.4654	4.0678	4.0057
Co 228.615	188.639	189.375	188.990
Cr 267.716	526.058	525.887	522.702
Cu 324.754	781.099	777.181	771.124
Fe 271.441	421514	421404	421419
K 766.491	121637x	121513x	121928x
Mg 279.078	199959	200526	199379
Mn 257.610	8888.30	8895.62	8897.68
Mo 202.032	102.437	103.495	103.160
Na 330.237	73655.3	73502.2	73569.6
Ni 231.604	303.103	303.151	304.738
Pb 220.353	238.908	235.260	230.910
Sb 206.834	-6.7643	-3.0357	4.4075
Se 196.026	-8.6077	3.2535	-4.9066
Sn 189.925	41.5870	41.1007	37.4257
Sr 216.596	2456.39	2453.78	2445.77
Ti 334.941	9571.86	9577.79	9543.07
Tl 190.794	26.6010u	21.6233u	22.1190u
V 292.401	1071.61	1071.12	1072.29
Zn 206.200	1253.00	1265.41	1260.61

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6943b	ppb	0.0965	13.9	-225.646
Al 308.215	283057b	ppb	1303.40	0.5	1015101
As 188.980	156.111b	ppb	5.1012	3.3	116.097
B 249.678	62.0577b	ppb	0.0887	0.1	300.202
Ba 389.178	1158.11b	ppb	1.6299	0.1	32979.6
Be 313.042	16.2138b	ppb	0.0031	0.0	33816.7
Ca 370.602	226586b	ppb	139.6	0.1	857335
Cd 226.502	3.8463b	ppb	0.3313	8.6	1472.40
Co 228.615	189.001b	ppb	0.3682	0.2	2763.06
Cr 267.716	524.883b	ppb	1.8900	0.4	27588.8
Cu 324.754	776.468b	ppb	5.0256	0.6	40322.2
Fe 271.441	421446b	ppb	59.2589	0.0	865899
K 766.491	121693xb	ppb	213.013	0.2	6543370
Mg 279.078	199955b	ppb	573.551	0.3	521625
Mn 257.610	8893.87b	ppb	4.9295	0.1	2445359
Mo 202.032	103.030b	ppb	0.5409	0.5	862.038
Na 330.237	73575.7b	ppb	76.7361	0.1	4215.06
Ni 231.604	303.664b	ppb	0.9304	0.3	1033.89
Pb 220.353	235.026b	ppb	4.0040	1.7	523.723
Sb 206.834	-1.7975b	ppb	5.6879	316.4	15.6976
Se 196.026	-3.4203b	ppb	6.0687	177.4	4.7577
Sn 189.925	40.0378b	ppb	2.2752	5.7	39.0537
Sr 216.596	2451.98b	ppb	5.5363	0.2	33006.6
Ti 334.941	9564.24b	ppb	18.5745	0.2	2768692
Tl 190.794	23.4478b	ppb	2.7420	11.7	-39.4773
V 292.401	1071.67b	ppb	0.5878	0.1	33965.4
Zn 206.200	1259.67b	ppb	6.2548	0.5	3516.11

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

680-88866-a-28-a (Samp) 4/6/2013, 2:18:47 AM Rack 3, Tube 21
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5927u	-0.5250u	-0.3494u
Al 308.215	218366	218718	219592
As 188.980	164.596	168.271	158.765
B 249.678	65.1010	67.1641	66.3296
Ba 389.178	1473.08	1474.35	1473.64
Be 313.042	14.6780	14.6811	14.6959
Ca 370.602	181890	182036	182168
Cd 226.502	7.2469	7.2880	7.0492
Co 228.615	186.762	186.528	186.519
Cr 267.716	502.734	504.067	506.501
Cu 324.754	713.120	720.081	717.665
Fe 271.441	401075	401554	401250
K 766.491	95147.7x	95183.0x	94759.3x
Mg 279.078	168588	168950	168951
Mn 257.610	8818.63	8833.48	8845.22
Mo 202.032	88.4818	88.2714	87.2996
Na 330.237	14831.8	14910.5	14655.1
Ni 231.604	310.731	312.994	310.636
Pb 220.353	395.307	399.682	393.340
Sb 206.834	-3.0854	5.6220	1.8605
Se 196.026	-3.0392	-10.7090u	-2.4675
Sn 189.925	122.543	125.053	118.648
Sr 216.596	1877.85	1883.42	1891.56
Ti 334.941	9575.73	9592.13	9626.86
Tl 190.794	26.8819u	13.0282u	25.6435u
V 292.401	926.437	926.972	928.017
Zn 206.200	1268.27	1274.04	1275.69

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4890b	ppb	0.1256	25.7	-181.994
Al 308.215	218892b	ppb	631.404	0.3	784992
As 188.980	163.877b	ppb	4.7936	2.9	121.708
B 249.678	66.1982b	ppb	1.0378	1.6	374.936
Ba 389.178	1473.69b	ppb	0.6390	0.0	41485.5
Be 313.042	14.6850b	ppb	0.0096	0.1	30593.7
Ca 370.602	182031b	ppb	139.2	0.1	682850
Cd 226.502	7.1947b	ppb	0.1277	1.8	1566.63
Co 228.615	186.603b	ppb	0.1375	0.1	2733.31
Cr 267.716	504.434b	ppb	1.9098	0.4	26515.0
Cu 324.754	716.955b	ppb	3.5344	0.5	37226.8
Fe 271.441	401293b	ppb	242.745	0.1	824494
K 766.491	95030.0xb	ppb	235.072	0.2	5109776
Mg 279.078	168829b	ppb	209.119	0.1	440422
Mn 257.610	8832.44b	ppb	13.3242	0.2	2428131
Mo 202.032	88.0176b	ppb	0.6306	0.7	735.349
Na 330.237	14799.1b	ppb	130.790	0.9	654.552
Ni 231.604	311.454b	ppb	1.3347	0.4	1059.54
Pb 220.353	396.110b	ppb	3.2463	0.8	890.187
Sb 206.834	1.4657b	ppb	4.3671	298.0	18.7424
Se 196.026	-5.4052b	ppb	4.6021	85.1	3.4206
Sn 189.925	122.081b	ppb	3.2276	2.6	122.277
Sr 216.596	1884.28b	ppb	6.8934	0.4	25405.3
Ti 334.941	9598.24b	ppb	26.1106	0.3	2778387
Tl 190.794	21.8512b	ppb	7.6660	35.1	-39.1307
V 292.401	927.142b	ppb	0.8037	0.1	29405.4
Zn 206.200	1272.67b	ppb	3.8983	0.3	3542.14

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

680-88866-a-29-a (Samp) 4/6/2013, 2:25:13 AM Rack 3, Tube 22

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.6332u	-1.0115u	-0.9195u
Al 308.215	221165	219988	221075
As 188.980	132.545	136.977	135.860
B 249.678	68.2048	67.4976	67.0335
Ba 389.178	932.628	930.879	933.561
Be 313.042	15.6221	15.5908	15.5960
Ca 370.602	237925	237154	237731
Cd 226.502	4.2668	4.1904	3.9834
Co 228.615	176.749	172.181	179.008
Cr 267.716	502.156	501.589	503.958
Cu 324.754	670.924	674.179	674.239
Fe 271.441	404731	403332	403814
K 766.491	117892x	117721x	118117x
Mg 279.078	205669	205040	205290
Mn 257.610	8479.06	8465.43	8477.42
Mo 202.032	74.3977	73.1077	73.9176
Na 330.237	36754.8	36497.3	36910.2
Ni 231.604	281.718	284.781	281.339
Pb 220.353	174.483	170.511	172.952
Sb 206.834	-5.8709	5.2210	-7.7839
Se 196.026	-12.4053u	-7.2360	-23.9774u
Sn 189.925	26.5839	34.4550	27.2331
Sr 216.596	2578.49	2571.91	2575.46
Ti 334.941	9624.48	9604.95	9629.31
Tl 190.794	15.0211u	23.5790u	21.9981u
V 292.401	1020.27	1017.24	1018.42
Zn 206.200	1166.69	1164.61	1169.08

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1881b	ppb	0.3882	32.7	-274.709
Al 308.215	220743b	ppb	655.060	0.3	791627
As 188.980	135.128b	ppb	2.3048	1.7	100.736
B 249.678	67.5786b	ppb	0.5898	0.9	388.341
Ba 389.178	932.356b	ppb	1.3613	0.1	26789.2
Be 313.042	15.6030b	ppb	0.0168	0.1	32541.1
Ca 370.602	237603b	ppb	401.2	0.2	902739
Cd 226.502	4.1469b	ppb	0.1466	3.5	1434.10
Co 228.615	175.979b	ppb	3.4782	2.0	2593.99
Cr 267.716	502.567b	ppb	1.2373	0.2	26416.1
Cu 324.754	673.114b	ppb	1.8967	0.3	34949.8
Fe 271.441	403959b	ppb	710.806	0.2	829970
K 766.491	117910xb	ppb	198.468	0.2	6339996
Mg 279.078	205333b	ppb	316.325	0.2	535687
Mn 257.610	8473.97b	ppb	7.4402	0.1	2330075
Mo 202.032	73.8077b	ppb	0.6520	0.9	613.633
Na 330.237	36720.8b	ppb	208.560	0.6	1984.92
Ni 231.604	282.613b	ppb	1.8875	0.7	962.558
Pb 220.353	172.649b	ppb	2.0035	1.2	383.783
Sb 206.834	-2.8112b	ppb	7.0216	249.8	14.3556
Se 196.026	-14.5396b	ppb	8.5724	59.0	-2.0743
Sn 189.925	29.4240b	ppb	4.3691	14.8	28.2708
Sr 216.596	2575.29b	ppb	3.2942	0.1	34648.6
Ti 334.941	9619.58b	ppb	12.8997	0.1	2784729
Tl 190.794	20.1994b	ppb	4.5537	22.5	-40.8496
V 292.401	1018.64b	ppb	1.5278	0.1	32300.0
Zn 206.200	1166.80b	ppb	2.2359	0.2	3330.66

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

680-88866-a-30-a (Samp) 4/6/2013, 2:31:39 AM Rack 3, Tube 23

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.5435u	-0.4390u	-0.1211u
Al 308.215	194918	194817	193830
As 188.980	147.400	152.237	149.824
B 249.678	65.6656	67.5757	69.5115
Ba 389.178	829.176	827.366	830.584
Be 313.042	13.4982	13.5304	13.4921
Ca 370.602	244129	244062	244098
Cd 226.502	-0.2542	-0.2134	0.0898
Co 228.615	175.258	177.781	175.904
Cr 267.716	461.107	461.014	460.892
Cu 324.754	584.205	588.143	585.991
Fe 271.441	389378	390404	390434
K 766.491	107883x	107731x	107508x
Mg 279.078	197550	197450	197812
Mn 257.610	8412.01	8440.23	8451.22
Mo 202.032	166.845	167.525	168.056
Na 330.237	32030.9	31924.9	31866.8
Ni 231.604	270.918	266.900	266.449
Pb 220.353	138.894	144.343	144.314
Sb 206.834	-3.9011	-4.4597	-8.0096
Se 196.026	2.7952	1.7148	11.3280
Sn 189.925	29.8708	24.6755	24.9432
Sr 216.596	2580.46	2584.42	2578.82
Ti 334.941	8577.64	8579.78	8542.03
Tl 190.794	21.3315u	23.8639u	13.6215u
V 292.401	975.088	977.590	978.427
Zn 206.200	991.835	984.947	989.192

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3679b	ppb	0.2200	59.8	-208.941
Al 308.215	194522b	ppb	600.842	0.3	697601
As 188.980	149.820b	ppb	2.4182	1.6	111.941
B 249.678	67.5843b	ppb	1.9230	2.8	405.790
Ba 389.178	829.042b	ppb	1.6132	0.2	23915.6
Be 313.042	13.5069b	ppb	0.0206	0.2	28115.5
Ca 370.602	244096b	ppb	33.33	0.0	929676
Cd 226.502	-0.1259b	ppb	0.1879	149.3	1192.28
Co 228.615	176.314b	ppb	1.3108	0.7	2564.17
Cr 267.716	461.004b	ppb	0.1077	0.0	24239.5
Cu 324.754	586.113b	ppb	1.9717	0.3	30430.9
Fe 271.441	390072b	ppb	601.519	0.2	801438
K 766.491	107708xb	ppb	188.637	0.2	5791425
Mg 279.078	197604b	ppb	186.689	0.1	515524
Mn 257.610	8434.49b	ppb	20.2268	0.2	2319116
Mo 202.032	167.475b	ppb	0.6067	0.4	1414.46
Na 330.237	31940.9b	ppb	83.2068	0.3	1711.02
Ni 231.604	268.089b	ppb	2.4602	0.9	913.287
Pb 220.353	142.517b	ppb	3.1375	2.2	316.710
Sb 206.834	-5.4568b	ppb	2.2284	40.8	9.2992
Se 196.026	5.2793b	ppb	5.2661	99.7	9.5472
Sn 189.925	26.4965b	ppb	2.9253	11.0	25.3015
Sr 216.596	2581.23b	ppb	2.8777	0.1	34717.6
Ti 334.941	8566.48b	ppb	21.2022	0.2	2479932
Tl 190.794	19.6056b	ppb	5.3348	27.2	-39.9331
V 292.401	977.035b	ppb	1.7375	0.2	30948.1
Zn 206.200	988.658b	ppb	3.4748	0.4	1974.96

680-88866-a-31-a (Samp) 4/6/2013, 2:38:06 AM Rack 3, Tube 24

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3342u	-1.0351u	-0.2751u
Al 308.215	198478	198834	199453
As 188.980	89.8554	101.409	93.1657
B 249.678	60.0517	57.5714	57.8997
Ba 389.178	1026.44	1027.41	1031.23
Be 313.042	13.1375	13.1567	13.1856
Ca 370.602	203908	203763	205461
Cd 226.502	-0.2606	-0.4366	-0.2235
Co 228.615	147.289	144.760	149.167
Cr 267.716	424.004	424.087	425.585
Cu 324.754	505.320	506.223	513.412
Fe 271.441	336055	336041	337006
K 766.491	93897.6x	94135.9x	94406.7x
Mg 279.078	151079	151042	151671
Mn 257.610	7320.80	7337.51	7349.29
Mo 202.032	88.3960	88.5406	88.7436
Na 330.237	26434.2	26615.0	26627.9
Ni 231.604	237.517	239.370	239.765
Pb 220.353	144.397	143.165	144.934
Sb 206.834	2.9404	-8.7229	-0.7676
Se 196.026	-3.2102	-13.7131u	-5.7190
Sn 189.925	26.2136	26.3135	27.7724
Sr 216.596	1826.70	1832.33	1837.12
Ti 334.941	8107.73	8122.62	8145.27
Tl 190.794	25.9811u	18.7625u	16.5058u
V 292.401	820.247	821.251	823.708
Zn 206.200	965.587	965.653	971.149

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5482b	ppb	0.4228	77.1	-191.937
Al 308.215	198922b	ppb	493.127	0.2	713376
As 188.980	94.8102b	ppb	5.9499	6.3	71.0933
B 249.678	58.5076b	ppb	1.3473	2.3	360.996
Ba 389.178	1028.36b	ppb	2.5326	0.2	29135.9
Be 313.042	13.1599b	ppb	0.0242	0.2	27395.1
Ca 370.602	204378b	ppb	941.3	0.5	777642
Cd 226.502	-0.3069b	ppb	0.1138	37.1	1019.66
Co 228.615	147.072b	ppb	2.2116	1.5	2170.73
Cr 267.716	424.559b	ppb	0.8895	0.2	22317.5
Cu 324.754	508.318b	ppb	4.4343	0.9	26374.0
Fe 271.441	336368b	ppb	553.398	0.2	691097
K 766.491	94146.7xb	ppb	254.693	0.3	5062283
Mg 279.078	151264b	ppb	352.880	0.2	394608
Mn 257.610	7335.87b	ppb	14.3175	0.2	2016881
Mo 202.032	88.5601b	ppb	0.1746	0.2	744.092
Na 330.237	26559.1b	ppb	108.305	0.4	1407.64
Ni 231.604	238.884b	ppb	1.2004	0.5	813.565
Pb 220.353	144.165b	ppb	0.9070	0.6	320.476
Sb 206.834	-2.1834b	ppb	5.9591	272.9	12.2780
Se 196.026	-7.5474b	ppb	5.4850	72.7	1.2391
Sn 189.925	26.7665b	ppb	0.8725	3.3	25.5545
Sr 216.596	1832.05b	ppb	5.2121	0.3	24678.4
Ti 334.941	8125.21b	ppb	18.9006	0.2	2352009
Tl 190.794	20.4164b	ppb	4.9494	24.2	-30.5216
V 292.401	821.735b	ppb	1.7806	0.2	26054.5
Zn 206.200	967.463b	ppb	3.1925	0.3	1932.77

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

Cont Calib Verif (CCV) 4/6/2013, 2:44:32 AM Rack 3, Tube 25
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	503.612	502.419	503.545
Al 308.215	5049.60	5171.43	5215.61
As 188.980	487.704	484.887	482.609
B 249.678	507.636	512.874	513.311
Ba 389.178	4779.45	4801.93	4786.12
Be 313.042	479.739	481.461	480.266
Ca 370.602	5041	5178	5237
Cd 226.502	474.665	475.404	474.932
Co 228.615	483.757	488.322	488.416
Cr 267.716	4866.93	4882.63	4858.12
Cu 324.754	4695.20	4784.77	4705.75
Fe 271.441	5173.87	5389.54	5496.38
K 766.491	9911.21	10023.9	10046.4
Mg 279.078	4978.05	5068.88	5100.39
Mn 257.610	4793.04	4836.87	4812.40
Mo 202.032	490.183	491.522	490.507
Na 330.237	7182.54	7345.46	7177.11
Ni 231.604	2372.42	2367.24	2409.63
Pb 220.353	489.358	491.581	490.534
Sb 206.834	975.091	976.098	966.587
Se 196.026	4821.74	4845.91	4819.21
Sn 189.925	4906.98	4898.44	4871.30
Sr 216.596	2384.36	2390.28	2378.20
Ti 334.941	499.419	505.724	507.108
Tl 190.794	4924.69	4927.08	4913.20
V 292.401	4846.48	4871.87	4853.27
Zn 206.200	2406.70	2406.96	2408.55

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	503.192	ppb	0.6700	0.1	41325.2	100.63841
Al 308.215	5145.55	ppb	85.9825	1.7	18445.0	102.91093
As 188.980	485.067	ppb	2.5523	0.5	364.882	97.01332
B 249.678	511.274	ppb	3.1578	0.6	6265.19	20.45096Q
Ba 389.178	4789.17	ppb	11.5427	0.2	131049	95.78332
Be 313.042	480.489	ppb	0.8823	0.2	1010909	96.09772
Ca 370.602	5152	ppb	100.7	2.0	20201	103.03842
Cd 226.502	475.000	ppb	0.3741	0.1	22070.0	95.00007
Co 228.615	486.832	ppb	2.6630	0.5	6435.18	97.36636
Cr 267.716	4869.23	ppb	12.4143	0.3	254285	97.38451
Cu 324.754	4728.57	ppb	48.9554	1.0	245384	94.57150
Fe 271.441	5353.27	ppb	164.285	3.1	11142.5	107.06532
K 766.491	9993.83	ppb	72.4370	0.7	537562	99.93832
Mg 279.078	5049.11	ppb	63.5207	1.3	13099.4	100.98218
Mn 257.610	4814.10	ppb	21.9683	0.5	1322071	96.28204
Mo 202.032	490.737	ppb	0.6987	0.1	4189.18	98.14738
Na 330.237	7235.04	ppb	95.6701	1.3	409.766	96.46718
Ni 231.604	2383.10	ppb	23.1258	1.0	8020.75	95.32386
Pb 220.353	490.491	ppb	1.1119	0.2	1113.64	98.09821
Sb 206.834	972.592	ppb	5.2250	0.5	1103.78	97.25923
Se 196.026	4828.95	ppb	14.7399	0.3	2862.11	96.57899
Sn 189.925	4892.24	ppb	18.6302	0.4	4963.71	97.84483
Sr 216.596	2384.28	ppb	6.0396	0.3	31799.5	95.37131
Ti 334.941	504.084	ppb	4.0985	0.8	145781	100.81672
Tl 190.794	4921.66	ppb	7.4189	0.2	6321.56	98.43314
V 292.401	4857.21	ppb	13.1420	0.3	152985	97.14414
Zn 206.200	2407.40	ppb	1.0945	0.0	4791.80	96.29611

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

Cont Calib Blank (CCB) 4/6/2013, 2:50:59 AM Rack 3, Tube 26

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3210	0.6384	1.2655
Al 308.215	10.8308	19.9388	34.2049
As 188.980	-6.2410u	-8.5418u	-4.7553u
B 249.678	10.6177	9.8012	7.7973
Ba 389.178	0.9005	1.5223	2.4488
Be 313.042	0.0841	0.1106	0.1800
Ca 370.602	15.32	21.76	40.12
Cd 226.502	0.1473	0.1849	0.1157
Co 228.615	-0.1813u	-0.4275u	-0.0117u
Cr 267.716	0.5276	0.8421	1.6841
Cu 324.754	0.9902	0.9815	2.0168
Fe 271.441	34.3623	32.3803	65.2241
K 766.491	15.1389	16.3826	25.0403
Mg 279.078	13.8195	16.8207	37.6670
Mn 257.610	0.4003	0.9173	2.3036
Mo 202.032	0.7457	0.7058	0.3286
Na 330.237	-48.1499u	166.358	165.439
Ni 231.604	0.1179	2.2797	1.4258
Pb 220.353	1.4419	-1.0191u	1.9709
Sb 206.834	-3.2448u	-4.0076u	-0.6963u
Se 196.026	-3.5713u	3.0298	8.2643
Sn 189.925	-1.6155u	2.8847	2.6982
Sr 216.596	0.2498	0.8552	1.5899
Ti 334.941	1.0681	1.2241	2.0116
Tl 190.794	7.4936	7.5066	10.8742
V 292.401	1.1486	1.4912	2.1713
Zn 206.200	-0.2859u	0.0729	2.0032

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.7416	ppb	0.4806	64.8	-34.9498	0.74163
Al 308.215	21.6581	ppb	11.7816	54.4	82.7292	21.65815
As 188.980	-6.5127	ppb	1.9078	29.3	-2.5507	-6.51266
B 249.678	9.4054	ppb	1.4513	15.4	174.104	9.40543
Ba 389.178	1.6238	ppb	0.7791	48.0	9.7711	1.62384
Be 313.042	0.1249	ppb	0.0495	39.7	-72.2979	0.12489
Ca 370.602	25.74	ppb	12.87	50.0	92.76	25.73538
Cd 226.502	0.1493	ppb	0.0346	23.2	15.4897	0.14931
Co 228.615	-0.2068	ppb	0.2091	101.1	1.7688	-0.20682
Cr 267.716	1.0179	ppb	0.5980	58.7	64.5094	1.01793
Cu 324.754	1.3295	ppb	0.5953	44.8	-49.9552	1.32949
Fe 271.441	43.9889	ppb	18.4169	41.9	89.4983	43.98891Z
K 766.491	18.8540	ppb	5.3935	28.6	1228.18	18.85395
Mg 279.078	22.7691	ppb	12.9890	57.0	80.7310	22.76907
Mn 257.610	1.2071	ppb	0.9842	81.5	677.912	1.20707
Mo 202.032	0.5934	ppb	0.2302	38.8	14.7013	0.59337
Na 330.237	94.5491	ppb	123.582	130.7	4.1125	94.54911
Ni 231.604	1.2744	ppb	1.0888	85.4	4.8318	1.27444
Pb 220.353	0.7979	ppb	1.5957	200.0	4.3395	0.79791
Sb 206.834	-2.6495	ppb	1.7340	65.4	0.1175	-2.64952
Se 196.026	2.5743	ppb	5.9309	230.4	2.6477	2.57426
Sn 189.925	1.3225	ppb	2.5461	192.5	-0.3753	1.32245
Sr 216.596	0.8983	ppb	0.6711	74.7	21.2565	0.89829
Ti 334.941	1.4346	ppb	0.5057	35.3	293.992	1.43461
Tl 190.794	8.6248	ppb	1.9481	22.6	7.3357	8.62480
V 292.401	1.6037	ppb	0.5205	32.5	48.8495	1.60368
Zn 206.200	0.5967	ppb	1.2312	206.3	2.9739	0.59671

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

680-88866-a-32-a (Samp) 4/6/2013, 2:57:26 AM Rack 3, Tube 27

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4837u	0.0090u	0.9916
Al 308.215	196956	196020	194879
As 188.980	235.249	239.422	231.387
B 249.678	40.8810u	42.2706	41.4879u
Ba 389.178	731.733	730.064	734.423
Be 313.042	12.6119	12.6052	12.5629
Ca 370.602	183448	182320	182982
Cd 226.502	-0.7253	-0.5979	-0.6191
Co 228.615	174.311	172.225	175.046
Cr 267.716	427.449	425.721	424.510
Cu 324.754	583.079	579.476	578.478
Fe 271.441	414774	413922	412921
K 766.491	101397x	103984x	104296x
Mg 279.078	171410	170573	170511
Mn 257.610	7486.46	7458.04	7449.78
Mo 202.032	152.409	152.741	153.219
Na 330.237	47422.3	47432.4	47161.7
Ni 231.604	281.772	280.336	280.456
Pb 220.353	216.936	215.554	218.484
Sb 206.834	-5.5464	4.8306	0.3250
Se 196.026	1.9047	-0.1747	3.7510
Sn 189.925	31.7428	25.0163	32.4727
Sr 216.596	2121.08	2114.17	2106.95
Ti 334.941	7430.68	7416.28	7398.45
Tl 190.794	24.2024u	17.5085u	21.3907u
V 292.401	855.363	852.976	852.036
Zn 206.200	939.020	930.085	934.942

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4948b	ppb	0.4914	99.3	-119.552
Al 308.215	195952b	ppb	1040.37	0.5	702729
As 188.980	235.353b	ppb	4.0185	1.7	174.995
B 249.678	41.5465b	ppb	0.6966	1.7	60.5908
Ba 389.178	732.073b	ppb	2.1993	0.3	21219.5
Be 313.042	12.5933b	ppb	0.0266	0.2	26175.7
Ca 370.602	182916b	ppb	567.0	0.3	684566
Cd 226.502	-0.6474b	ppb	0.0683	10.5	1239.53
Co 228.615	173.860b	ppb	1.4632	0.8	2497.54
Cr 267.716	425.893b	ppb	1.4772	0.3	22406.5
Cu 324.754	580.345b	ppb	2.4204	0.4	30139.6
Fe 271.441	413872b	ppb	927.565	0.2	850334
K 766.491	103226xb	ppb	1591.32	1.5	5550446
Mg 279.078	170831b	ppb	502.183	0.3	445684
Mn 257.610	7464.76b	ppb	19.2455	0.3	2052708
Mo 202.032	152.790b	ppb	0.4074	0.3	1287.92
Na 330.237	47338.8b	ppb	153.465	0.3	2648.03
Ni 231.604	280.855b	ppb	0.7969	0.3	956.882
Pb 220.353	216.991b	ppb	1.4660	0.7	485.970
Sb 206.834	-0.1303b	ppb	5.2034	3994.4	15.4735
Se 196.026	1.8270b	ppb	1.9640	107.5	7.3782
Sn 189.925	29.7439b	ppb	4.1105	13.8	28.5726
Sr 216.596	2114.07b	ppb	7.0663	0.3	28480.0
Ti 334.941	7415.14b	ppb	16.1456	0.2	2146618
Tl 190.794	21.0339b	ppb	3.3612	16.0	-39.0918
V 292.401	853.458b	ppb	1.7156	0.2	27029.2
Zn 206.200	934.682b	ppb	4.4735	0.5	1867.28

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

680-88866-a-33-a (Samp) 4/6/2013, 3:03:52 AM Rack 3, Tube 28

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.0370u	-0.1194u	0.3473u
Al 308.215	237728	236291	219276
As 188.980	166.595	163.361	161.480
B 249.678	69.5614	72.3738	69.4821
Ba 389.178	1148.12	1146.24	1066.33
Be 313.042	14.7912	14.7752	13.7421
Ca 370.602	224092	224132	207359
Cd 226.502	6.1221	5.8401	3.7973
Co 228.615	183.739	185.494	175.242
Cr 267.716	510.514	509.372	473.004
Cu 324.754	809.965	810.613	712.697
Fe 271.441	392747	393800	369166
K 766.491	116889x	116522x	109379x
Mg 279.078	201159	200422	186812
Mn 257.610	7839.45	7831.60	7375.17
Mo 202.032	143.120	143.986	134.570
Na 330.237	58731.9	58590.3	54219.8
Ni 231.604	306.114	305.329	283.391
Pb 220.353	331.775	330.952	309.993
Sb 206.834	-1.9971	5.4002	2.6608
Se 196.026	-15.8933u	3.6217	-9.1504u
Sn 189.925	100.323	94.8586	88.4958
Sr 216.596	2525.90	2513.94	2346.84
Ti 334.941	9067.10	9025.79	8379.54
Tl 190.794	16.4259u	23.0882u	21.6817u
V 292.401	988.662	987.295	917.646
Zn 206.200	1486.79	1481.44	1389.32

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0883b	ppb	0.2375	269.0	-169.177
Al 308.215	231098b	ppb	10264.0	4.4	828771
As 188.980	163.812b	ppb	2.5872	1.6	122.216
B 249.678	70.4724b	ppb	1.6471	2.3	446.622
Ba 389.178	1120.23b	ppb	46.6860	4.2	31870.3
Be 313.042	14.4362b	ppb	0.6011	4.2	30067.8
Ca 370.602	218528b	ppb	9673	4.4	828886
Cd 226.502	5.2532b	ppb	1.2686	24.2	1427.43
Co 228.615	181.492b	ppb	5.4833	3.0	2641.89
Cr 267.716	497.630b	ppb	21.3341	4.3	26149.0
Cu 324.754	777.758b	ppb	56.3458	7.2	40380.2
Fe 271.441	385238b	ppb	13928.6	3.6	791508
K 766.491	114263xb	ppb	4234.24	3.7	6143908
Mg 279.078	196131b	ppb	8078.90	4.1	511681
Mn 257.610	7682.07b	ppb	265.814	3.5	2112519
Mo 202.032	140.558b	ppb	5.2045	3.7	1184.90
Na 330.237	57180.6b	ppb	2565.15	4.5	3237.94
Ni 231.604	298.278b	ppb	12.8989	4.3	1014.78
Pb 220.353	324.240b	ppb	12.3451	3.8	727.182
Sb 206.834	2.0213b	ppb	3.7399	185.0	18.0812
Se 196.026	-7.1406b	ppb	9.9115	138.8	1.9343
Sn 189.925	94.5591b	ppb	5.9192	6.3	94.3807
Sr 216.596	2462.23b	ppb	100.103	4.1	33122.4
Ti 334.941	8824.15b	ppb	385.591	4.4	2554490
Tl 190.794	20.3986b	ppb	3.5116	17.2	-36.9131
V 292.401	964.534b	ppb	40.6122	4.2	30561.2
Zn 206.200	1452.51b	ppb	54.7956	3.8	2901.44

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

680-88866-a-34-a (Samp) 4/6/2013, 3:10:19 AM Rack 3, Tube 29

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.7348u	0.8012u	0.3915u
Al 308.215	237315	237902	237051
As 188.980	173.402	178.903	166.787
B 249.678	70.2352	69.5762	71.7070
Ba 389.178	1017.50	1015.84	1015.43
Be 313.042	16.1828	16.1450	16.1374
Ca 370.602	274327	272319	273737
Cd 226.502	1.4039	1.0225	1.0544
Co 228.615	200.140	196.200	194.326
Cr 267.716	508.565	507.126	505.713
Cu 324.754	733.280	719.925	730.931
Fe 271.441	423313	422283	422432
K 766.491	121905x	121457x	121866x
Mg 279.078	215236	217624	215067
Mn 257.610	9362.33	9343.95	9339.70
Mo 202.032	117.943	117.851	117.547
Na 330.237	56100.8	56322.3	56215.9
Ni 231.604	295.720	296.681	294.335
Pb 220.353	248.543	251.886	245.987
Sb 206.834	-0.9632	-1.9021	6.4905
Se 196.026	-12.4114u	-8.4833	-12.6518u
Sn 189.925	67.6075	68.5514	67.2804
Sr 216.596	3103.81	3099.74	3090.10
Ti 334.941	9969.53	9964.19	9955.04
Tl 190.794	25.9961u	17.0419u	20.0971u
V 292.401	1007.90	1006.93	1006.98
Zn 206.200	1289.91	1295.74	1290.66

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6425b	ppb	0.2199	34.2	-146.046
Al 308.215	237423b	ppb	435.398	0.2	851448
As 188.980	173.031b	ppb	6.0661	3.5	129.201
B 249.678	70.5061b	ppb	1.0909	1.5	401.054
Ba 389.178	1016.25b	ppb	1.0982	0.1	29149.2
Be 313.042	16.1551b	ppb	0.0243	0.2	33707.7
Ca 370.602	273461b	ppb	1032	0.4	1043011
Cd 226.502	1.1603b	ppb	0.2116	18.2	1352.60
Co 228.615	196.889b	ppb	2.9677	1.5	2877.50
Cr 267.716	507.135b	ppb	1.4262	0.3	26665.2
Cu 324.754	728.045b	ppb	7.1296	1.0	37809.4
Fe 271.441	422676b	ppb	556.682	0.1	868427
K 766.491	121742xb	ppb	247.947	0.2	6546048
Mg 279.078	215975b	ppb	1430.13	0.7	563439
Mn 257.610	9348.66b	ppb	12.0323	0.1	2570375
Mo 202.032	117.780b	ppb	0.2071	0.2	988.049
Na 330.237	56213.0b	ppb	110.782	0.2	3157.01
Ni 231.604	295.579b	ppb	1.1794	0.4	1006.70
Pb 220.353	248.805b	ppb	2.9580	1.2	555.863
Sb 206.834	1.2084b	ppb	4.5985	380.5	18.5767
Se 196.026	-11.1822b	ppb	2.3404	20.9	0.3115
Sn 189.925	67.8131b	ppb	0.6600	1.0	67.2606
Sr 216.596	3097.88b	ppb	7.0427	0.2	41643.5
Ti 334.941	9962.92b	ppb	7.3268	0.1	2884139
Tl 190.794	21.0450b	ppb	4.5517	21.6	-43.6760
V 292.401	1007.27b	ppb	0.5460	0.1	31936.4
Zn 206.200	1292.11b	ppb	3.1711	0.2	3580.97

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

680-88866-a-35-a (Samp) 4/6/2013, 3:16:46 AM Rack 3, Tube 30

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.0230	1.0430	0.5773u
Al 308.215	183535	183696	182717
As 188.980	212.982	207.041	206.125
B 249.678	84.8629	85.5969	88.2623
Ba 389.178	1642.82	1647.19	1645.95
Be 313.042	11.5565	11.5699	11.5447
Ca 370.602	195791	195379	196188
Cd 226.502	82.7194	82.8465	82.6935
Co 228.615	149.565	151.257	151.406
Cr 267.716	444.519	445.057	443.489
Cu 324.754	837.931	847.888	848.228
Fe 271.441	340871	341156	340956
K 766.491	96659.5x	97491.1x	97695.7x
Mg 279.078	150294	150695	150317
Mn 257.610	6555.70	6563.85	6554.82
Mo 202.032	182.727	182.020	182.525
Na 330.237	42523.4	42693.0	42827.3
Ni 231.604	241.373	239.351	240.264
Pb 220.353	607.878	610.356	605.459
Sb 206.834	4.7541	14.4853	17.7545
Se 196.026	6.3050	0.5599	-1.0697
Sn 189.925	75.9371	72.5801	70.2412
Sr 216.596	2129.20	2126.99	2125.42
Ti 334.941	8155.99	8163.76	8138.83
Tl 190.794	16.4696u	17.0509u	12.8704u
V 292.401	771.834	773.525	773.211
Zn 206.200	1624.77	1625.36	1621.82

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.8811b	ppb	0.2633	29.9	-93.2129
Al 308.215	183316b	ppb	524.755	0.3	657419
As 188.980	208.716b	ppb	3.7228	1.8	156.099
B 249.678	86.2407b	ppb	1.7888	2.1	692.099
Ba 389.178	1645.32b	ppb	2.2537	0.1	46023.5
Be 313.042	11.5570b	ppb	0.0126	0.1	23999.0
Ca 370.602	195786b	ppb	404.1	0.2	743090
Cd 226.502	82.7531b	ppb	0.0819	0.1	4889.03
Co 228.615	150.743b	ppb	1.0228	0.7	2216.06
Cr 267.716	444.355b	ppb	0.7972	0.2	23348.9
Cu 324.754	844.683b	ppb	5.8492	0.7	43844.9
Fe 271.441	340995b	ppb	146.337	0.0	700604
K 766.491	97282.1xb	ppb	548.797	0.6	5230866
Mg 279.078	150435b	ppb	225.179	0.1	392467
Mn 257.610	6558.12b	ppb	4.9776	0.1	1803368
Mo 202.032	182.424b	ppb	0.3642	0.2	1545.47
Na 330.237	42681.2b	ppb	152.285	0.4	2378.39
Ni 231.604	240.329b	ppb	1.0126	0.4	818.551
Pb 220.353	607.897b	ppb	2.4486	0.4	1371.08
Sb 206.834	12.3313b	ppb	6.7626	54.8	26.8868
Se 196.026	1.9318b	ppb	3.8740	200.5	6.6548
Sn 189.925	72.9194b	ppb	2.8631	3.9	72.4006
Sr 216.596	2127.20b	ppb	1.9009	0.1	28619.5
Ti 334.941	8152.86b	ppb	12.7543	0.2	2360006
Tl 190.794	15.4636b	ppb	2.2646	14.6	-36.0683
V 292.401	772.857b	ppb	0.8994	0.1	24488.0
Zn 206.200	1623.98b	ppb	1.8955	0.1	3244.19

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

680-88866-a-36-a (Samp) 4/6/2013, 3:23:12 AM Rack 3, Tube 31

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.4469	1.9065	1.7469
Al 308.215	209560	210656	210987
As 188.980	192.934	193.312	191.143
B 249.678	79.5849	79.3798	78.3435
Ba 389.178	1850.13	1845.82	1849.39
Be 313.042	13.2749	13.2670	13.2784
Ca 370.602	209079	209072	209283
Cd 226.502	218.749	217.603	218.186
Co 228.615	172.240	176.548	173.093
Cr 267.716	503.267	504.475	507.948
Cu 324.754	815.443	807.775	805.192
Fe 271.441	357007	355940	356197
K 766.491	103261x	100921x	103166x
Mg 279.078	175705	175878	175941
Mn 257.610	7475.36	7463.84	7483.15
Mo 202.032	199.463	199.533	199.439
Na 330.237	54643.8	55121.9	55129.2
Ni 231.604	262.186	262.407	262.669
Pb 220.353	843.607	855.770	857.614
Sb 206.834	21.1453	26.3378	25.6705
Se 196.026	-7.3416	7.5339	11.5266
Sn 189.925	52.7962	54.0178	58.4291
Sr 216.596	2344.70	2355.13	2363.59
Ti 334.941	8212.33	8224.71	8243.11
Tl 190.794	22.9158u	16.7100u	20.7732u
V 292.401	872.073	868.612	870.648
Zn 206.200	2263.32	2254.59	2270.25

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.7001b	ppb	0.2334	13.7	-31.7479
Al 308.215	210401b	ppb	746.948	0.4	754552
As 188.980	192.463b	ppb	1.1589	0.6	143.879
B 249.678	79.1027b	ppb	0.6654	0.8	586.630
Ba 389.178	1848.45b	ppb	2.3042	0.1	51685.2
Be 313.042	13.2734b	ppb	0.0058	0.0	27609.5
Ca 370.602	209145b	ppb	120.1	0.1	794495
Cd 226.502	218.179b	ppb	0.5730	0.3	11221.4
Co 228.615	173.960b	ppb	2.2812	1.3	2522.69
Cr 267.716	505.230b	ppb	2.4298	0.5	26534.7
Cu 324.754	809.470b	ppb	5.3315	0.7	42020.7
Fe 271.441	356381b	ppb	557.007	0.2	732221
K 766.491	102449xb	ppb	1324.59	1.3	5508691
Mg 279.078	175842b	ppb	122.185	0.1	458741
Mn 257.610	7474.12b	ppb	9.7113	0.1	2055136
Mo 202.032	199.478b	ppb	0.0491	0.0	1689.98
Na 330.237	54964.9b	ppb	278.174	0.5	3112.33
Ni 231.604	262.421b	ppb	0.2419	0.1	893.322
Pb 220.353	852.330b	ppb	7.6106	0.9	1924.43
Sb 206.834	24.3846b	ppb	2.8250	11.6	40.7021
Se 196.026	3.9063b	ppb	9.9434	254.5	8.2089
Sn 189.925	55.0810b	ppb	2.9632	5.4	54.3069
Sr 216.596	2354.48b	ppb	9.4613	0.4	31664.7
Ti 334.941	8226.71b	ppb	15.4875	0.2	2381498
Tl 190.794	20.1330b	ppb	3.1520	15.7	-33.5606
V 292.401	870.444b	ppb	1.7396	0.2	27563.3
Zn 206.200	2262.72b	ppb	7.8486	0.3	4519.93

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

680-88866-a-37-a (Samp) 4/6/2013, 3:29:39 AM Rack 3, Tube 32

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3099u	0.3246u	-0.1878u
Al 308.215	220995	222941	221770
As 188.980	140.249	143.157	147.918
B 249.678	77.3116	75.6298	78.2754
Ba 389.178	978.995	981.320	984.211
Be 313.042	14.6203	14.6667	14.6543
Ca 370.602	275448	276034	276655
Cd 226.502	2.0765	1.5599	2.0163
Co 228.615	166.785	168.304	166.759
Cr 267.716	488.529	490.066	490.115
Cu 324.754	682.645	672.884	681.058
Fe 271.441	389938	389965	390937
K 766.491	114548x	114664x	114959x
Mg 279.078	214636	215093	215331
Mn 257.610	8722.55	8729.57	8728.17
Mo 202.032	140.404	140.188	138.693
Na 330.237	55346.9	55847.6	55461.7
Ni 231.604	272.819	272.382	272.767
Pb 220.353	263.503	259.942	259.716
Sb 206.834	6.3797	-2.1420	-1.3542
Se 196.026	-11.9658u	-12.2229u	-4.0519
Sn 189.925	31.0858	31.9703	37.2221
Sr 216.596	2927.27	2934.90	2933.42
Ti 334.941	9107.90	9149.75	9151.69
Tl 190.794	15.0983u	12.5927u	22.7833u
V 292.401	984.979	986.323	984.954
Zn 206.200	1083.96	1087.97	1087.15

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0577b	ppb	0.3367	583.6	-198.685
Al 308.215	221902b	ppb	979.543	0.4	795789
As 188.980	143.775b	ppb	3.8717	2.7	107.741
B 249.678	77.0723b	ppb	1.3390	1.7	520.213
Ba 389.178	981.509b	ppb	2.6129	0.3	28140.8
Be 313.042	14.6471b	ppb	0.0240	0.2	30531.0
Ca 370.602	276046b	ppb	603.7	0.2	1056326
Cd 226.502	1.8842b	ppb	0.2825	15.0	1287.84
Co 228.615	167.282b	ppb	0.8845	0.5	2462.10
Cr 267.716	489.570b	ppb	0.9020	0.2	25734.8
Cu 324.754	678.862b	ppb	5.2380	0.8	35246.4
Fe 271.441	390280b	ppb	568.945	0.1	801865
K 766.491	114724xb	ppb	211.593	0.2	6168657
Mg 279.078	215020b	ppb	352.946	0.2	560957
Mn 257.610	8726.76b	ppb	3.7169	0.0	2399524
Mo 202.032	139.762b	ppb	0.9320	0.7	1177.73
Na 330.237	55552.1b	ppb	262.327	0.5	3138.01
Ni 231.604	272.656b	ppb	0.2385	0.1	928.689
Pb 220.353	261.054b	ppb	2.1242	0.8	584.381
Sb 206.834	0.9611b	ppb	4.7091	489.9	16.9769
Se 196.026	-9.4135b	ppb	4.6451	49.3	0.9450
Sn 189.925	33.4261b	ppb	3.3171	9.9	32.3612
Sr 216.596	2931.86b	ppb	4.0500	0.1	39408.4
Ti 334.941	9136.45b	ppb	24.7417	0.3	2644955
Tl 190.794	16.8248b	ppb	5.3101	31.6	-44.1714
V 292.401	985.419b	ppb	0.7836	0.1	31226.9
Zn 206.200	1086.36b	ppb	2.1160	0.2	3170.03

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

680-88866-a-38-a (Samp) 4/6/2013, 3:36:06 AM Rack 3, Tube 33

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.1728	0.4201u	2.0973
Al 308.215	232213	230239	231648
As 188.980	360.736	368.528	378.317
B 249.678	81.2489	83.3142	83.3828
Ba 389.178	1922.49	1916.00	1917.30
Be 313.042	14.7753	14.7292	14.7294
Ca 370.602	163849	163187	163010
Cd 226.502	9.2730	9.5747	9.3835
Co 228.615	207.269	206.984	210.123
Cr 267.716	556.291	552.973	556.631
Cu 324.754	1049.06	1044.77	1039.93
Fe 271.441	414892	415528	415203
K 766.491	104945x	104452x	104338x
Mg 279.078	171650	171394	171788
Mn 257.610	8978.90	8964.01	8965.00
Mo 202.032	112.263	112.881	110.896
Na 330.237	37285.7	36728.5	37074.2
Ni 231.604	349.988	346.402	348.884
Pb 220.353	623.638	624.217	623.819
Sb 206.834	16.5967	5.0139	9.9199
Se 196.026	-3.8118	-9.0409	11.7608
Sn 189.925	894.496	885.068	891.606
Sr 216.596	1726.62	1721.15	1727.14
Ti 334.941	10604.0	10525.9	10558.6
Tl 190.794	32.7553u	34.5144u	25.4620u
V 292.401	966.044	965.723	965.317
Zn 206.200	2477.29	2477.08	2481.19

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.2301b	ppb	0.8401	68.3	-31.2278
Al 308.215	231366b	ppb	1016.64	0.4	829730
As 188.980	369.194b	ppb	8.8094	2.4	274.871
B 249.678	82.6486b	ppb	1.2127	1.5	557.642
Ba 389.178	1918.60b	ppb	3.4348	0.2	53690.6
Be 313.042	14.7446b	ppb	0.0266	0.2	30703.5
Ca 370.602	163349b	ppb	442.4	0.3	607621
Cd 226.502	9.4104b	ppb	0.1526	1.6	1712.24
Co 228.615	208.125b	ppb	1.7356	0.8	3044.23
Cr 267.716	555.298b	ppb	2.0211	0.4	29178.1
Cu 324.754	1044.59b	ppb	4.5696	0.4	54244.2
Fe 271.441	415208b	ppb	318.338	0.1	853086
K 766.491	104578xb	ppb	322.392	0.3	5623166
Mg 279.078	171611b	ppb	199.606	0.1	447676
Mn 257.610	8969.30b	ppb	8.3285	0.1	2465773
Mo 202.032	112.014b	ppb	1.0156	0.9	939.339
Na 330.237	37029.5b	ppb	281.279	0.8	1979.15
Ni 231.604	348.425b	ppb	1.8369	0.5	1184.35
Pb 220.353	623.892b	ppb	0.2962	0.0	1405.23
Sb 206.834	10.5101b	ppb	5.8139	55.3	29.2077
Se 196.026	-0.3640b	ppb	10.8210	2973.0	6.5521
Sn 189.925	890.390b	ppb	4.8303	0.5	902.078
Sr 216.596	1724.97b	ppb	3.3174	0.2	23279.6
Ti 334.941	10562.8b	ppb	39.1955	0.4	3057540
Tl 190.794	30.9106b	ppb	4.7999	15.5	-29.4018
V 292.401	965.695b	ppb	0.3642	0.0	30631.7
Zn 206.200	2478.52b	ppb	2.3198	0.1	4950.82

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

mb 680-271923/1-a (Samp) 4/6/2013, 3:42:33 AM Rack 3, Tube 34

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2414	-0.3083u	0.6029
Al 308.215	43.9092	110.224	190.698
As 188.980	-7.9786u	-5.2608u	-2.7463u
B 249.678	4.1003	3.0577	2.4022
Ba 389.178	0.7685	1.4153	2.3307
Be 313.042	0.0218	0.0309	0.0364
Ca 370.602	62.49	127.6	202.9
Cd 226.502	0.1077	0.0835	0.0417
Co 228.615	-0.0858u	-1.1325u	-0.1131u
Cr 267.716	0.4295	0.5936	0.8588
Cu 324.754	0.4920	1.4057	2.4763
Fe 271.441	100.178	236.829	400.879
K 766.491	40.0711	104.567	162.374
Mg 279.078	33.4047	87.3113	168.805
Mn 257.610	1.0235	4.4387	8.4928
Mo 202.032	0.3037	0.1765	0.2689
Na 330.237	-328.395u	159.062	-23.4265u
Ni 231.604	-0.5878u	0.3051	0.7189
Pb 220.353	1.9425	1.1122	2.0424
Sb 206.834	-4.4071u	-2.3179u	2.1931
Se 196.026	4.6899	4.3259	2.8034
Sn 189.925	16.8544	13.2704	13.5446
Sr 216.596	0.5637	0.8637	2.4636
Ti 334.941	4.1495	7.1679	11.2591
Tl 190.794	2.5004	-2.0176u	-0.0348u
V 292.401	0.3078	0.3418	1.1382
Zn 206.200	-0.2789u	1.0180	3.1855

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1787	ppb	0.4588	256.8	-81.3472
Al 308.215	114.944	ppb	73.5082	64.0	417.270
As 188.980	-5.3286	ppb	2.6168	49.1	-1.6666
B 249.678	3.1867	ppb	0.8564	26.9	98.3022
Ba 389.178	1.5048	ppb	0.7850	52.2	7.0765
Be 313.042	0.0297	ppb	0.0073	24.7	-272.551
Ca 370.602	131.0	ppb	70.25	53.6	490.7
Cd 226.502	0.0776	ppb	0.0334	43.0	12.7804
Co 228.615	-0.4438	ppb	0.5966	134.4	-1.1905
Cr 267.716	0.6273	ppb	0.2166	34.5	44.1989
Cu 324.754	1.4580	ppb	0.9932	68.1	-43.2141
Fe 271.441	245.962	ppb	150.558	61.2	504.410
K 766.491	102.338	ppb	61.1819	59.8	5716.92
Mg 279.078	96.5069	ppb	68.1668	70.6	273.095
Mn 257.610	4.6516	ppb	3.7392	80.4	1624.95
Mo 202.032	0.2497	ppb	0.0657	26.3	11.7570
Na 330.237	-64.2532	ppb	246.280	383.3	-5.6619
Ni 231.604	0.1454	ppb	0.6678	459.3	1.0375
Pb 220.353	1.6990	ppb	0.5107	30.1	6.3758
Sb 206.834	-1.5106	ppb	3.3733	223.3	1.3543
Se 196.026	3.9397	ppb	1.0008	25.4	3.4588
Sn 189.925	14.5564	ppb	1.9948	13.7	13.0566
Sr 216.596	1.2970	ppb	1.0214	78.7	26.7130
Ti 334.941	7.5255	ppb	3.5683	47.4	2057.04
Tl 190.794	0.1493	ppb	2.2646	1516.6	-3.5996
V 292.401	0.5959	ppb	0.4699	78.9	17.1753
Zn 206.200	1.3082	ppb	1.7503	133.8	4.3961

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

ics 680-271923/2-a (Samp) 4/6/2013, 3:48:59 AM Rack 3, Tube 35
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	24.1915	24.5155	23.8278
Al 308.215	5061.80	5020.33	4965.18
As 188.980	103.439	104.041	99.0019
B 249.678	187.416	186.706	188.586
Ba 389.178	103.830	103.500	102.548
Be 313.042	52.5674	52.3094	52.0233
Ca 370.602	4951	4918	4891
Cd 226.502	51.5087	51.6120	51.5364
Co 228.615	52.2537	52.2555	52.1649
Cr 267.716	106.065	104.746	104.355
Cu 324.754	105.065	104.002	102.885
Fe 271.441	4969.65	4940.83	4931.50
K 766.491	5232.28	5206.44	5189.90
Mg 279.078	4910.83	4884.11	4866.56
Mn 257.610	530.562	527.349	526.415
Mo 202.032	101.370	100.654	100.149
Na 330.237	4615.97	4427.35	4793.76
Ni 231.604	100.616	100.560	101.115
Pb 220.353	49.0620	50.5054	54.2755
Sb 206.834	43.9619	53.9157	49.7592
Se 196.026	101.083	98.1544	97.7593
Sn 189.925	210.439	209.722	208.621
Sr 216.596	101.162	99.8275	100.446
Ti 334.941	101.410	100.938	100.166
Tl 190.794	37.8705	42.1258	39.4673
V 292.401	100.886	100.840	100.253
Zn 206.200	103.818	100.731	103.640

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	24.1783	ppb	0.3440	1.4	1895.48
Al 308.215	5015.77	ppb	48.4722	1.0	17999.9
As 188.980	102.161	ppb	2.7521	2.7	78.6721
B 249.678	187.569	ppb	0.9492	0.5	2332.78
Ba 389.178	103.293	ppb	0.6660	0.6	2815.71
Be 313.042	52.3000	ppb	0.2722	0.5	109747
Ca 370.602	4920	ppb	30.23	0.6	19027
Cd 226.502	51.5524	ppb	0.0535	0.1	2416.15
Co 228.615	52.2247	ppb	0.0518	0.1	692.367
Cr 267.716	105.055	ppb	0.8961	0.9	5500.62
Cu 324.754	103.984	ppb	1.0902	1.0	5283.90
Fe 271.441	4947.33	ppb	19.8913	0.4	10174.3
K 766.491	5209.54	ppb	21.3592	0.4	280320
Mg 279.078	4887.17	ppb	22.2946	0.5	12763.2
Mn 257.610	528.108	ppb	2.1753	0.4	145396
Mo 202.032	100.724	ppb	0.6137	0.6	869.264
Na 330.237	4612.36	ppb	183.236	4.0	274.750
Ni 231.604	100.764	ppb	0.3057	0.3	339.786
Pb 220.353	51.2809	ppb	2.6919	5.2	118.476
Sb 206.834	49.2123	ppb	4.9994	10.2	56.3829
Se 196.026	98.9990	ppb	1.8158	1.8	59.9401
Sn 189.925	209.594	ppb	0.9156	0.4	211.016
Sr 216.596	100.479	ppb	0.6679	0.7	1348.33
Ti 334.941	100.838	ppb	0.6281	0.6	29083.5
Tl 190.794	39.8212	ppb	2.1496	5.4	45.9226
V 292.401	100.660	ppb	0.3527	0.4	3149.42
Zn 206.200	102.730	ppb	1.7330	1.7	206.591

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

ics 680-271923/3-a (Samp) 4/6/2013, 3:55:26 AM Rack 3, Tube 36
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	202.064	206.510	205.664
Al 308.215	2140.57	2154.97	2165.45
As 188.980	212.617	223.104	216.458
B 249.678	374.650	376.789	377.911
Ba 389.178	201.829	202.077	201.513
Be 313.042	206.045	206.707	207.050
Ca 370.602	19326	19390	19430
Cd 226.502	198.663	198.542	198.670
Co 228.615	204.183	204.948	204.518
Cr 267.716	207.509	209.172	209.507
Cu 324.754	205.057	207.961	207.584
Fe 271.441	20213.6	20184.9	20183.3
K 766.491	19568.5	19519.4	19514.4
Mg 279.078	19436.7	19431.5	19470.7
Mn 257.610	2090.97	2093.16	2093.35
Mo 202.032	200.042	201.984	200.845
Na 330.237	16284.3	16375.3	16460.4
Ni 231.604	200.941	200.214	198.877
Pb 220.353	194.058	196.198	196.354
Sb 206.834	191.863	195.395	192.087
Se 196.026	196.680	190.795	193.042
Sn 189.925	211.286	207.329	213.457
Sr 216.596	207.612	209.156	209.134
Ti 334.941	198.581	199.907	199.965
Tl 190.794	43.2353	45.2403	44.4982
V 292.401	197.555	197.301	198.433
Zn 206.200	190.928	190.769	192.155

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	204.746	ppb	2.3607	1.2	16784.2
Al 308.215	2153.66	ppb	12.4893	0.6	7743.17
As 188.980	217.393	ppb	5.3054	2.4	164.768
B 249.678	376.450	ppb	1.6567	0.4	4609.02
Ba 389.178	201.807	ppb	0.2825	0.1	5582.44
Be 313.042	206.601	ppb	0.5111	0.2	434561
Ca 370.602	19382	ppb	52.25	0.3	74847
Cd 226.502	198.625	ppb	0.0720	0.0	9288.60
Co 228.615	204.550	ppb	0.3835	0.2	2700.17
Cr 267.716	208.729	ppb	1.0701	0.5	10924.5
Cu 324.754	206.867	ppb	1.5793	0.8	10632.9
Fe 271.441	20194.0	ppb	17.0365	0.1	41527.7
K 766.491	19534.1	ppb	29.8863	0.2	1050520
Mg 279.078	19446.3	ppb	21.2758	0.1	50728.5
Mn 257.610	2092.49	ppb	1.3252	0.1	575070
Mo 202.032	200.957	ppb	0.9761	0.5	1724.08
Na 330.237	16373.3	ppb	88.0749	0.5	981.419
Ni 231.604	200.011	ppb	1.0470	0.5	674.199
Pb 220.353	195.537	ppb	1.2828	0.7	445.521
Sb 206.834	193.115	ppb	1.9776	1.0	213.191
Se 196.026	193.506	ppb	2.9695	1.5	116.483
Sn 189.925	210.691	ppb	3.1074	1.5	212.142
Sr 216.596	208.634	ppb	0.8854	0.4	2796.54
Ti 334.941	199.484	ppb	0.7830	0.4	57699.1
Tl 190.794	44.3246	ppb	1.0137	2.3	47.0169
V 292.401	197.763	ppb	0.5936	0.3	6188.46
Zn 206.200	191.284	ppb	0.7585	0.4	383.084

Cont Calib Verif (CCV) 4/6/2013, 4:01:53 AM Rack 3, Tube 37
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	508.419	505.869	506.627
Al 308.215	5061.10	5098.78	5114.82
As 188.980	480.883	481.903	487.741
B 249.678	511.444	510.100	511.662
Ba 389.178	4795.27	4788.42	4784.07
Be 313.042	481.416	478.951	479.678
Ca 370.602	5013	5064	5093
Cd 226.502	475.857	474.659	473.770
Co 228.615	485.334	483.882	485.802
Cr 267.716	4888.63	4869.07	4863.58
Cu 324.754	4798.84	4686.31	4762.44
Fe 271.441	5067.71	5174.28	5242.75
K 766.491	9892.21	9957.89	10001.3
Mg 279.078	4956.80	4994.91	5011.10
Mn 257.610	4810.32	4803.83	4808.13
Mo 202.032	490.596	488.834	488.598
Na 330.237	6930.33	7274.89	7052.20
Ni 231.604	2377.84	2375.81	2367.70
Pb 220.353	491.909	487.814	493.069
Sb 206.834	970.149	973.020	979.795
Se 196.026	4790.61	4815.93	4798.18
Sn 189.925	4938.95	4949.88	4908.71
Sr 216.596	2396.95	2389.83	2382.50
Ti 334.941	499.001	499.951	501.803
Tl 190.794	4943.03	4941.09	4932.23
V 292.401	4854.89	4844.45	4852.19
Zn 206.200	2413.73	2401.85	2394.68

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	506.972	ppb	1.3096	0.3	41637.6	101.39433
Al 308.215	5091.57	ppb	27.5758	0.5	18251.3	101.83140
As 188.980	483.509	ppb	3.7001	0.8	363.719	96.70181
B 249.678	511.069	ppb	0.8461	0.2	6262.92	20.44276Q
Ba 389.178	4789.25	ppb	5.6444	0.1	131051	95.78506
Be 313.042	480.015	ppb	1.2666	0.3	1009913	96.00306
Ca 370.602	5057	ppb	40.15	0.8	19840	101.13244
Cd 226.502	474.762	ppb	1.0473	0.2	22058.4	94.95232
Co 228.615	485.006	ppb	1.0010	0.2	6410.95	97.00116
Cr 267.716	4873.76	ppb	13.1651	0.3	254522	97.47523
Cu 324.754	4749.20	ppb	57.4210	1.2	246454	94.98396
Fe 271.441	5161.58	ppb	88.2118	1.7	10748.4	103.23159
K 766.491	9950.47	ppb	54.9325	0.6	535230	99.50470
Mg 279.078	4987.60	ppb	27.8801	0.6	12938.8	99.75206
Mn 257.610	4807.42	ppb	3.3036	0.1	1320236	96.14850
Mo 202.032	489.343	ppb	1.0918	0.2	4177.30	97.86858
Na 330.237	7085.81	ppb	174.722	2.5	400.882	94.47742
Ni 231.604	2373.78	ppb	5.3640	0.2	7989.40	94.95138
Pb 220.353	490.931	ppb	2.7606	0.6	1114.65	98.18617
Sb 206.834	974.321	ppb	4.9529	0.5	1105.63	97.43214
Se 196.026	4801.57	ppb	13.0000	0.3	2845.90	96.03146
Sn 189.925	4932.51	ppb	21.3291	0.4	5004.59	98.65024
Sr 216.596	2389.76	ppb	7.2278	0.3	31873.0	95.59032
Ti 334.941	500.251	ppb	1.4248	0.3	144672	100.05030
Tl 190.794	4938.78	ppb	5.7584	0.1	6343.60	98.77564
V 292.401	4850.51	ppb	5.4189	0.1	152774	97.01019
Zn 206.200	2403.42	ppb	9.6219	0.4	4783.85	96.13679

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

Cont Calib Blank (CCB) 4/6/2013, 4:08:20 AM Rack 3, Tube 38

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.8435	1.1336	0.5387
Al 308.215	6.6959	4.8480	7.1430
As 188.980	-2.9012u	-4.4653u	-4.5891u
B 249.678	10.7784	10.5898	10.3261
Ba 389.178	0.7727	1.2594	1.5125
Be 313.042	0.0832	0.1134	0.1428
Ca 370.602	7.158	5.880	9.336
Cd 226.502	0.1838	0.1368	0.2659
Co 228.615	-0.5169u	-0.1990u	0.0061
Cr 267.716	0.7015	0.5146	1.1791
Cu 324.754	0.8356	1.2780	1.5255
Fe 271.441	5.4460	9.5479	9.0519
K 766.491	5.9653	8.0580	9.0238
Mg 279.078	5.9949	5.9084	8.9024
Mn 257.610	-0.1333u	0.2360	0.6404
Mo 202.032	0.4074	0.8036	0.3458
Na 330.237	-28.2417u	97.6154	31.5903
Ni 231.604	0.5513	0.3929	0.6560
Pb 220.353	0.7504	0.2548	-2.2718u
Sb 206.834	-2.6764u	-3.1495u	6.6695
Se 196.026	10.5192	5.5709	1.2642
Sn 189.925	-0.5856u	1.5155	3.5790
Sr 216.596	0.1899	0.3599	1.0339
Ti 334.941	0.5075	0.5123	0.5526
Tl 190.794	6.6663	5.7735	3.0195
V 292.401	0.7225	1.1163	1.4713
Zn 206.200	1.6868	0.1296	1.6664

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.8386	ppb	0.2974	35.5	-26.9375	0.83861
Al 308.215	6.2290	ppb	1.2167	19.5	27.3971	6.22895
As 188.980	-3.9852	ppb	0.9408	23.6	-0.6603	-3.98520
B 249.678	10.5648	ppb	0.2272	2.2	188.234	10.56478
Ba 389.178	1.1815	ppb	0.3760	31.8	-2.4430	1.18153
Be 313.042	0.1132	ppb	0.0298	26.3	-96.9688	0.11315
Ca 370.602	7.458	ppb	1.747	23.4	23.75	7.45775
Cd 226.502	0.1955	ppb	0.0653	33.4	17.5241	0.19548
Co 228.615	-0.2366	ppb	0.2635	111.4	1.3537	-0.23658
Cr 267.716	0.7984	ppb	0.3426	42.9	53.0305	0.79840
Cu 324.754	1.2130	ppb	0.3495	28.8	-56.0106	1.21303
Fe 271.441	8.0153	ppb	2.2388	27.9	15.6143	8.01526
K 766.491	7.6823	ppb	1.5635	20.4	627.504	7.68233
Mg 279.078	6.9352	ppb	1.7042	24.6	39.4293	6.93524
Mn 257.610	0.2477	ppb	0.3870	156.2	414.257	0.24771
Mo 202.032	0.5189	ppb	0.2485	47.9	14.0690	0.51894
Na 330.237	33.6546	ppb	62.9540	187.1	0.4325	33.65464
Ni 231.604	0.5334	ppb	0.1325	24.8	2.3369	0.53339
Pb 220.353	-0.4222	ppb	1.6209	383.9	1.5760	-0.42220
Sb 206.834	0.2812	ppb	5.5375	1969.3	3.2828	0.28119
Se 196.026	5.7848	ppb	4.6312	80.1	4.5483	5.78477
Sn 189.925	1.5030	ppb	2.0823	138.5	-0.1921	1.50297
Sr 216.596	0.5279	ppb	0.4464	84.6	16.3022	0.52792
Ti 334.941	0.5241	ppb	0.0248	4.7	30.4425	0.52415
Tl 190.794	5.1531	ppb	1.9009	36.9	2.8750	5.15310
V 292.401	1.1034	ppb	0.3746	33.9	33.0579	1.10338
Zn 206.200	1.1609	ppb	0.8932	76.8	4.1016	1.16092

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

680-88915-a-18-b (Samp) 4/6/2013, 4:14:47 AM Rack 3, Tube 39

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7789u	0.4625	-0.8020u
Al 308.215	173300	172906	172739
As 188.980	38.6777	50.5813	44.1328
B 249.678	-2.5935u	-2.9467u	-2.9191u
Ba 389.178	443.718	443.030	443.648
Be 313.042	8.0152	8.0083	8.0223
Ca 370.602	9675	9694	9680
Cd 226.502	-2.0934	-1.7598	-1.8751
Co 228.615	154.857	155.493	155.487
Cr 267.716	297.027	296.235	296.922
Cu 324.754	108.121	109.104	108.462
Fe 271.441	292616	292872	293365
K 766.491	22950.3	23031.4	23023.3
Mg 279.078	17141.0	17116.1	17117.7
Mn 257.610	3944.24	3944.02	3942.44
Mo 202.032	4.1952	3.6595	3.2070
Na 330.237	337.033u	234.150u	264.829u
Ni 231.604	117.935	117.901	116.912
Pb 220.353	116.825	117.747	115.508
Sb 206.834	1.7528	6.3951	0.5924
Se 196.026	1.4562	15.6467	0.1258
Sn 189.925	19.3648	14.5919	18.1183
Sr 216.596	44.2106	44.3695	43.3981
Ti 334.941	2248.32	2236.77	2237.74
Tl 190.794	10.9908u	7.6513u	11.8568u
V 292.401	284.698	285.133	284.597
Zn 206.200	257.371	257.551	261.185

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3728	ppb	0.7235	194.1	-107.472
Al 308.215	172981	ppb	287.954	0.2	620348
As 188.980	44.4639	ppb	5.9587	13.4	32.0317
B 249.678	-2.8198	ppb	0.1965	7.0	-331.922
Ba 389.178	443.465	ppb	0.3787	0.1	12646.9
Be 313.042	8.0153	ppb	0.0070	0.1	16538.5
Ca 370.602	9683	ppb	9.889	0.1	9128
Cd 226.502	-1.9094	ppb	0.1694	8.9	812.701
Co 228.615	155.279	ppb	0.3654	0.2	2108.34
Cr 267.716	296.728	ppb	0.4303	0.1	15606.7
Cu 324.754	108.562	ppb	0.4994	0.5	5606.09
Fe 271.441	292951	ppb	380.663	0.1	601892
K 766.491	23001.7	ppb	44.6353	0.2	1236966
Mg 279.078	17124.9	ppb	13.9612	0.1	44635.7
Mn 257.610	3943.56	ppb	0.9799	0.0	1084132
Mo 202.032	3.6872	ppb	0.4947	13.4	23.0705
Na 330.237	278.671	ppb	52.8199	19.0	-111.831
Ni 231.604	117.583	ppb	0.5808	0.5	404.177
Pb 220.353	116.693	ppb	1.1250	1.0	262.351
Sb 206.834	2.9134	ppb	3.0705	105.4	16.5830
Se 196.026	5.7429	ppb	8.6027	149.8	7.7862
Sn 189.925	17.3583	ppb	2.4755	14.3	15.8968
Sr 216.596	43.9927	ppb	0.5211	1.2	745.702
Ti 334.941	2240.94	ppb	6.4087	0.3	648515
Tl 190.794	10.1663	ppb	2.2207	21.8	-32.4683
V 292.401	284.809	ppb	0.2847	0.1	9013.23
Zn 206.200	258.702	ppb	2.1521	0.8	517.411

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

680-88915-a-18-c ms (Samp) 4/6/2013, 4:21:14 AM Rack 3, Tube 40

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	21.0280	20.8569	20.4952
Al 308.215	180720	179885	179496
As 188.980	119.130	119.483	120.426
B 249.678	119.789	120.427	121.002
Ba 389.178	499.302	496.012	496.906
Be 313.042	55.2877	55.0343	55.0533
Ca 370.602	15889	15831	15849
Cd 226.502	48.8877	48.6684	49.0196
Co 228.615	89.7847	90.0954	90.0589
Cr 267.716	257.949	257.118	257.336
Cu 324.754	171.839	169.167	171.726
Fe 271.441	163421	163013	163324
K 766.491	23393.2	23332.9	23248.2
Mg 279.078	18308.0	18257.8	18288.0
Mn 257.610	1293.45	1291.21	1292.93
Mo 202.032	96.2953	96.7516	96.6637
Na 330.237	4840.10	4683.53	4764.13
Ni 231.604	180.278	178.221	181.534
Pb 220.353	96.0810	88.6981	98.0574
Sb 206.834	19.3461	27.6577	26.6126
Se 196.026	89.2798	81.0791	89.4449
Sn 189.925	197.477	205.386	204.434
Sr 216.596	143.559	143.652	143.333
Ti 334.941	1591.29	1598.77	1591.10
Tl 190.794	40.0419	43.0916	37.2210
V 292.401	298.144	297.605	296.872
Zn 206.200	290.939	288.922	287.629

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	20.7933	ppb	0.2720	1.3	1619.60
Al 308.215	180034	ppb	625.067	0.3	645646
As 188.980	119.679	ppb	0.6701	0.6	89.9228
B 249.678	120.406	ppb	0.6066	0.5	1323.75
Ba 389.178	497.406	ppb	1.7010	0.3	13907.9
Be 313.042	55.1251	ppb	0.1411	0.3	115704
Ca 370.602	15856	ppb	29.48	0.2	46593
Cd 226.502	48.8586	ppb	0.1774	0.4	2773.22
Co 228.615	89.9797	ppb	0.1698	0.2	1229.09
Cr 267.716	257.468	ppb	0.4309	0.2	13508.1
Cu 324.754	170.911	ppb	1.5113	0.9	8805.96
Fe 271.441	163253	ppb	212.825	0.1	335418
K 766.491	23324.8	ppb	72.8420	0.3	1254338
Mg 279.078	18284.6	ppb	25.2696	0.1	47683.4
Mn 257.610	1292.53	ppb	1.1725	0.1	355905
Mo 202.032	96.5702	ppb	0.2421	0.3	823.943
Na 330.237	4762.59	ppb	78.2946	1.6	212.218
Ni 231.604	180.011	ppb	1.6723	0.9	610.800
Pb 220.353	94.2788	ppb	4.9330	5.2	210.909
Sb 206.834	24.5388	ppb	4.5272	18.4	35.3627
Se 196.026	86.6012	ppb	4.7831	5.5	53.9480
Sn 189.925	202.432	ppb	4.3179	2.1	203.748
Sr 216.596	143.515	ppb	0.1642	0.1	2004.26
Ti 334.941	1593.72	ppb	4.3761	0.3	461203
Tl 190.794	40.1182	ppb	2.9361	7.3	26.3674
V 292.401	297.540	ppb	0.6382	0.2	9384.88
Zn 206.200	289.163	ppb	1.6685	0.6	578.417

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

680-88915-a-18-d msd (Samp) 4/6/2013, 4:27:41 AM Rack 3, Tube 41**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	24.6559	25.1495	24.5488
Al 308.215	196412	197195	197070
As 188.980	146.388	151.030	144.388
B 249.678	125.408	124.521	125.397
Ba 389.178	513.410	511.964	512.085
Be 313.042	59.3423	59.3361	59.3875
Ca 370.602	15483	15464	15469
Cd 226.502	48.2331	47.7429	48.2666
Co 228.615	144.310	145.296	142.513
Cr 267.716	343.998	343.927	344.364
Cu 324.754	209.269	211.213	211.925
Fe 271.441	285697	285428	285867
K 766.491	28173.3	28160.5	28234.8
Mg 279.078	22075.0	22039.2	22040.5
Mn 257.610	3065.73	3067.52	3070.23
Mo 202.032	98.7857	98.4014	100.385
Na 330.237	4935.96	4855.75	5028.54
Ni 231.604	221.152	218.694	218.724
Pb 220.353	131.148	131.309	130.104
Sb 206.834	22.3697	25.2147	27.7297
Se 196.026	75.1722	88.7838	78.3260
Sn 189.925	201.803	202.976	207.438
Sr 216.596	146.254	145.575	145.502
Ti 334.941	2287.17	2285.75	2299.11
Tl 190.794	34.6301	44.9222	41.1201
V 292.401	371.288	371.889	371.747
Zn 206.200	360.910	358.744	360.534

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	24.7848	ppb	0.3204	1.3	1957.67
Al 308.215	196892	ppb	420.947	0.2	706104
As 188.980	147.269	ppb	3.4073	2.3	109.027
B 249.678	125.109	ppb	0.5091	0.4	1231.28
Ba 389.178	512.486	ppb	0.8019	0.2	14539.1
Be 313.042	59.3553	ppb	0.0280	0.0	124604
Ca 370.602	15472	ppb	10.17	0.1	32788
Cd 226.502	48.0809	ppb	0.2931	0.6	3110.65
Co 228.615	144.040	ppb	1.4109	1.0	1958.11
Cr 267.716	344.096	ppb	0.2343	0.1	18073.5
Cu 324.754	210.802	ppb	1.3750	0.7	10914.6
Fe 271.441	285664	ppb	221.393	0.1	586920
K 766.491	28189.5	ppb	39.7309	0.1	1515906
Mg 279.078	22051.6	ppb	20.3149	0.1	57499.8
Mn 257.610	3067.83	ppb	2.2672	0.1	843731
Mo 202.032	99.1907	ppb	1.0519	1.1	838.867
Na 330.237	4940.08	ppb	86.4723	1.8	172.346
Ni 231.604	219.523	ppb	1.4104	0.6	747.063
Pb 220.353	130.854	ppb	0.6540	0.5	293.412
Sb 206.834	25.1047	ppb	2.6817	10.7	39.9345
Se 196.026	80.7607	ppb	7.1249	8.8	51.8928
Sn 189.925	204.072	ppb	2.9729	1.5	205.409
Sr 216.596	145.777	ppb	0.4150	0.3	2096.26
Ti 334.941	2290.68	ppb	7.3398	0.3	662932
Tl 190.794	40.2241	ppb	5.2042	12.9	8.7377
V 292.401	371.641	ppb	0.3143	0.1	11731.8
Zn 206.200	360.063	ppb	1.1576	0.3	319.711

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

680-88915-a-19-b (Samp) 4/6/2013, 4:34:08 AM Rack 3, Tube 42

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.7040u	-1.3128u	-1.6141u
Al 308.215	171875	170561	170911
As 188.980	29.8326	16.2465	18.4171
B 249.678	3.9768u	3.1432u	4.6384u
Ba 389.178	337.058	336.950	338.828
Be 313.042	4.8531	4.8223	4.8871
Ca 370.602	11010	10987	11050
Cd 226.502	-1.2204	-1.0800	-0.9205
Co 228.615	21.7997	22.3807	22.4505
Cr 267.716	196.349	195.567	196.182
Cu 324.754	65.5053	64.4022	64.5698
Fe 271.441	148951	148571	149801
K 766.491	18471.1	18462.2	18643.6
Mg 279.078	12015.2	11992.1	12049.7
Mn 257.610	644.752	642.518	647.850
Mo 202.032	2.5843	1.6412	2.4608
Na 330.237	257.351u	312.649u	176.162u
Ni 231.604	79.6620	78.9661	81.0267
Pb 220.353	44.0579	44.0579	43.8106
Sb 206.834	1.1475	-0.0582	-3.5886
Se 196.026	-10.5247u	-6.6614u	-1.0464
Sn 189.925	12.5103	19.0955	17.0503
Sr 216.596	44.5849	45.2293	45.6018
Ti 334.941	897.280	892.021	896.922
Tl 190.794	2.8205u	8.3815u	9.1390u
V 292.401	179.173	178.002	179.829
Zn 206.200	195.341	196.415	194.964

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.2103	ppb	0.4636	38.3	-193.504
Al 308.215	171116	ppb	680.742	0.4	613658
As 188.980	21.4987	ppb	7.2985	33.9	16.6600
B 249.678	3.9195	ppb	0.7492	19.1	-74.2835
Ba 389.178	337.612	ppb	1.0550	0.3	9491.68
Be 313.042	4.8542	ppb	0.0324	0.7	9893.25
Ca 370.602	11016	ppb	32.35	0.3	28672
Cd 226.502	-1.0736	ppb	0.1501	14.0	412.660
Co 228.615	22.2103	ppb	0.3573	1.6	318.856
Cr 267.716	196.033	ppb	0.4123	0.2	10292.9
Cu 324.754	64.8258	ppb	0.5944	0.9	3291.49
Fe 271.441	149107	ppb	629.969	0.4	306343
K 766.491	18525.6	ppb	102.280	0.6	996299
Mg 279.078	12019.0	ppb	29.0315	0.2	31346.2
Mn 257.610	645.040	ppb	2.6777	0.4	178038
Mo 202.032	2.2288	ppb	0.5126	23.0	19.4158
Na 330.237	248.721	ppb	68.6514	27.6	-49.5219
Ni 231.604	79.8849	ppb	1.0482	1.3	273.452
Pb 220.353	43.9755	ppb	0.1427	0.3	97.6735
Sb 206.834	-0.8331	ppb	2.4613	295.4	7.8780
Se 196.026	-6.0775	ppb	4.7661	78.4	-1.2279
Sn 189.925	16.2187	ppb	3.3705	20.8	14.7451
Sr 216.596	45.1387	ppb	0.5145	1.1	688.306
Ti 334.941	895.408	ppb	2.9383	0.3	259086
Tl 190.794	6.7803	ppb	3.4502	50.9	-13.6823
V 292.401	179.001	ppb	0.9259	0.5	5653.71
Zn 206.200	195.573	ppb	0.7529	0.4	391.699

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

680-88915-a-20-b (Samp) 4/6/2013, 4:40:35 AM Rack 3, Tube 43

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.2581u	-1.7332u	-1.5373u
Al 308.215	151876	153502	153586
As 188.980	87.7696	86.7792	85.7747
B 249.678	-30.5676u	-31.6926u	-32.0015u
Ba 389.178	420.579	420.917	421.534
Be 313.042	15.1022	15.1476	15.1568
Ca 370.602	8884u	8783u	8779u
Cd 226.502	-2.3770	-2.7529	-2.8353
Co 228.615	163.484	163.265	161.046
Cr 267.716	237.037	238.195	238.457
Cu 324.754	250.982	252.996	251.548
Fe 271.441	444865	445008	444268
K 766.491	16556.7	16543.3	16560.2
Mg 279.078	10053.6	10097.6	10116.2
Mn 257.610	6882.87	6886.97	6887.54
Mo 202.032	4.4408	4.6179	4.0151
Na 330.237	372.739u	530.032u	313.450u
Ni 231.604	284.395	283.595	281.161
Pb 220.353	191.800	196.136	196.698
Sb 206.834	-0.9830	-0.5339	-6.8202
Se 196.026	-4.6323	-7.9228	-2.3432
Sn 189.925	19.5261	16.4065	14.5707
Sr 216.596	40.0040	39.8142	39.6599
Ti 334.941	992.332	997.729	1000.81
Tl 190.794	10.7464u	13.3099u	12.3153u
V 292.401	323.056	323.405	324.185
Zn 206.200	349.973	348.603	350.487

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.8429	ppb	0.3727	20.2	-213.773
Al 308.215	152988	ppb	964.074	0.6	548646
As 188.980	86.7745	ppb	0.9975	1.1	61.7835
B 249.678	-31.4206	ppb	0.7547	2.4	-864.131
Ba 389.178	421.010	ppb	0.4843	0.1	12266.5
Be 313.042	15.1355	ppb	0.0292	0.2	31520.9
Ca 370.602	8816	ppb	59.70	0.7	-9930
Cd 226.502	-2.6551	ppb	0.2443	9.2	1239.03
Co 228.615	162.598	ppb	1.3487	0.8	2161.96
Cr 267.716	237.896	ppb	0.7557	0.3	12584.2
Cu 324.754	251.842	ppb	1.0390	0.4	13092.6
Fe 271.441	444713	ppb	392.779	0.1	913686
K 766.491	16553.4	ppb	8.9274	0.1	890254
Mg 279.078	10089.1	ppb	32.1630	0.3	26256.8
Mn 257.610	6885.80	ppb	2.5458	0.0	1892317
Mo 202.032	4.3579	ppb	0.3098	7.1	19.7149
Na 330.237	405.407	ppb	111.926	27.6	-147.536
Ni 231.604	283.050	ppb	1.6844	0.6	965.084
Pb 220.353	194.878	ppb	2.6804	1.4	441.723
Sb 206.834	-2.7790	ppb	3.5070	126.2	13.6201
Se 196.026	-4.9661	ppb	2.8047	56.5	3.4024
Sn 189.925	16.8344	ppb	2.5052	14.9	15.3604
Sr 216.596	39.8260	ppb	0.1724	0.4	763.807
Ti 334.941	996.957	ppb	4.2916	0.4	288499
Tl 190.794	12.1239	ppb	1.2924	10.7	-53.3956
V 292.401	323.548	ppb	0.5784	0.2	10218.6
Zn 206.200	349.688	ppb	0.9742	0.3	699.396

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

680-88915-a-21-d (Samp) 4/6/2013, 4:47:02 AM Rack 3, Tube 44

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-3.4348u	-3.1999u	-3.0783u
Al 308.215	151886	153103	152249
As 188.980	38.2353	34.8533	38.8996
B 249.678	4.9673u	5.4179u	5.0396u
Ba 389.178	384.472	388.049	387.205
Be 313.042	7.7126	7.7801	7.7495
Ca 370.602	10116	10172	10154
Cd 226.502	-0.7457	-0.7230	-0.5525
Co 228.615	25.5399	25.6808	26.1389
Cr 267.716	159.558	160.564	159.730
Cu 324.754	83.9084	84.3087	83.7846
Fe 271.441	127177	128273	127609
K 766.491	17076.8	17226.5	17204.0
Mg 279.078	12398.9	12513.5	12449.2
Mn 257.610	1037.59	1045.73	1040.80
Mo 202.032	1.6546	1.9983	1.9977
Na 330.237	316.800u	198.489u	68.3638u
Ni 231.604	109.635	110.231	111.249
Pb 220.353	32.9132	32.6380	35.5486
Sb 206.834	-1.3285	-4.6146u	-0.4813
Se 196.026	-4.3183u	-5.6011u	-7.6510u
Sn 189.925	13.5278	14.1784	18.1723
Sr 216.596	48.5611	48.1472	48.6233
Ti 334.941	914.116	922.244	917.396
Tl 190.794	3.5159u	5.6634u	2.7983u
V 292.401	129.600	131.108	129.763
Zn 206.200	176.819	180.726	176.866

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.2377	ppb	0.1812	5.6	-359.078
Al 308.215	152412	ppb	624.989	0.4	546585
As 188.980	37.3294	ppb	2.1699	5.8	28.7549
B 249.678	5.1416	ppb	0.2420	4.7	-33.3800
Ba 389.178	386.575	ppb	1.8699	0.5	10796.6
Be 313.042	7.7474	ppb	0.0338	0.4	15984.2
Ca 370.602	10147	ppb	28.18	0.3	27428
Cd 226.502	-0.6737	ppb	0.1056	15.7	366.181
Co 228.615	25.7865	ppb	0.3132	1.2	367.240
Cr 267.716	159.951	ppb	0.5381	0.3	8405.17
Cu 324.754	84.0006	ppb	0.2739	0.3	4281.05
Fe 271.441	127687	ppb	552.098	0.4	262335
K 766.491	17169.1	ppb	80.7535	0.5	923361
Mg 279.078	12453.9	ppb	57.4629	0.5	32474.8
Mn 257.610	1041.38	ppb	4.0974	0.4	286781
Mo 202.032	1.8835	ppb	0.1983	10.5	17.8457
Na 330.237	194.551	ppb	124.265	63.9	-45.1983
Ni 231.604	110.372	ppb	0.8160	0.7	375.471
Pb 220.353	33.6999	ppb	1.6068	4.8	74.9478
Sb 206.834	-2.1415	ppb	2.1833	102.0	5.5755
Se 196.026	-5.8568	ppb	1.6810	28.7	-1.1285
Sn 189.925	15.2928	ppb	2.5148	16.4	13.8056
Sr 216.596	48.4439	ppb	0.2588	0.5	720.803
Ti 334.941	917.919	ppb	4.0893	0.4	265599
Tl 190.794	3.9925	ppb	1.4909	37.3	-15.5464
V 292.401	130.157	ppb	0.8274	0.6	4113.88
Zn 206.200	178.137	ppb	2.2421	1.3	357.012

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

680-88915-a-22-b (Samp) 4/6/2013, 4:53:30 AM Rack 3, Tube 45

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-3.1837u	-3.1991u	-3.5650u
Al 308.215	139736	140334	141552
As 188.980	94.8403	93.1458	97.7166
B 249.678	-16.9301u	-17.2018u	-18.2311u
Ba 389.178	702.419	702.010	703.232
Be 313.042	14.6129	14.6216	14.6696
Ca 370.602	20614	20608	20578
Cd 226.502	-1.3241	-1.5056	-1.4564
Co 228.615	135.131	135.367	135.520
Cr 267.716	263.344	264.130	265.659
Cu 324.754	205.041	203.172	201.343
Fe 271.441	380467	380404	380515
K 766.491	21086.4	21044.2	21058.4
Mg 279.078	12620.2	12662.4	12659.6
Mn 257.610	7441.12	7437.93	7451.22
Mo 202.032	3.4565	2.3012u	3.9897
Na 330.237	501.060u	673.848u	456.416u
Ni 231.604	236.256	238.047	238.368
Pb 220.353	206.804	202.517	206.844
Sb 206.834	-6.4456	-4.4807	-1.7848
Se 196.026	-11.5328u	-1.8247	-9.0136u
Sn 189.925	14.3035	17.7831	22.9024
Sr 216.596	62.5847	63.9035	63.7390
Ti 334.941	790.715	791.318	795.387
Tl 190.794	13.5511u	11.9697u	8.3295u
V 292.401	258.173	258.255	258.591
Zn 206.200	611.586	608.753	612.007

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.3159	ppb	0.2159	6.5	-333.777
Al 308.215	140541	ppb	925.528	0.7	504010
As 188.980	95.2343	ppb	2.3107	2.4	69.0248
B 249.678	-17.4544	ppb	0.6863	3.9	-616.305
Ba 389.178	702.554	ppb	0.6221	0.1	19869.8
Be 313.042	14.6347	ppb	0.0305	0.2	30473.2
Ca 370.602	20600	ppb	19.73	0.1	43264
Cd 226.502	-1.4287	ppb	0.0939	6.6	1100.96
Co 228.615	135.339	ppb	0.1963	0.1	1798.94
Cr 267.716	264.378	ppb	1.1772	0.4	13953.4
Cu 324.754	203.185	ppb	1.8489	0.9	10546.8
Fe 271.441	380462	ppb	55.4994	0.0	781677
K 766.491	21063.0	ppb	21.4589	0.1	1132727
Mg 279.078	12647.4	ppb	23.6191	0.2	32911.6
Mn 257.610	7443.42	ppb	6.9378	0.1	2045222
Mo 202.032	3.2491	ppb	0.8632	26.6	14.1979
Na 330.237	543.775	ppb	114.837	21.1	-116.742
Ni 231.604	237.557	ppb	1.1381	0.5	810.263
Pb 220.353	205.389	ppb	2.4866	1.2	466.182
Sb 206.834	-4.2370	ppb	2.3399	55.2	10.7534
Se 196.026	-7.4570	ppb	5.0378	67.6	1.6426
Sn 189.925	18.3297	ppb	4.3254	23.6	16.8859
Sr 216.596	63.4091	ppb	0.7186	1.1	1048.65
Ti 334.941	792.473	ppb	2.5414	0.3	229326
Tl 190.794	11.2834	ppb	2.6776	23.7	-48.0704
V 292.401	258.340	ppb	0.2217	0.1	8153.39
Zn 206.200	610.782	ppb	1.7697	0.3	1220.87

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

680-88915-a-23-b (Samp) 4/6/2013, 5:00:07 AM Rack 3, Tube 46

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-2.5592u	-2.7409u	-2.5352u
Al 308.215	149882	149704	149778
As 188.980	19.6420	19.3285	21.3372
B 249.678	13.0888u	13.6577u	13.6793u
Ba 389.178	582.245	583.514	583.893
Be 313.042	8.7875	8.7952	8.7866
Ca 370.602	8233	8263	8268
Cd 226.502	-1.5807	-1.1237	-1.3602
Co 228.615	53.4287	54.3709	53.2514
Cr 267.716	162.275	162.092	161.786
Cu 324.754	80.4775	81.4366	80.6428
Fe 271.441	181004	181357	181380
K 766.491	20302.0	20392.9	20454.3
Mg 279.078	23690.4	23745.9	23731.6
Mn 257.610	4597.21	4602.35	4601.62
Mo 202.032	1.6481	1.5539	1.2518u
Na 330.237	155.211u	371.346u	165.027u
Ni 231.604	180.865	180.012	184.158
Pb 220.353	38.4125	41.3941	41.2599
Sb 206.834	-0.1457	0.1127	-8.0644u
Se 196.026	-11.0707u	-1.6040	-7.4341u
Sn 189.925	8.7672	15.8106	15.4627
Sr 216.596	36.6046	37.1597	36.3538
Ti 334.941	1986.31	1984.33	1992.87
Tl 190.794	12.6232u	8.8732u	11.6503u
V 292.401	151.928	152.525	151.938
Zn 206.200	246.549	248.049	246.943

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.6118	ppb	0.1125	4.3	-288.887
Al 308.215	149788	ppb	89.3150	0.1	537173
As 188.980	20.1026	ppb	1.0806	5.4	15.1885
B 249.678	13.4753	ppb	0.3349	2.5	2.5076
Ba 389.178	583.218	ppb	0.8633	0.1	16302.0
Be 313.042	8.7898	ppb	0.0047	0.1	18173.8
Ca 370.602	8255	ppb	18.75	0.2	14837
Cd 226.502	-1.3549	ppb	0.2286	16.9	497.924
Co 228.615	53.6837	ppb	0.6017	1.1	764.697
Cr 267.716	162.051	ppb	0.2470	0.2	8547.76
Cu 324.754	80.8523	ppb	0.5127	0.6	4133.91
Fe 271.441	181247	ppb	210.843	0.1	372379
K 766.491	20383.0	ppb	76.6474	0.4	1096167
Mg 279.078	23722.6	ppb	28.8531	0.1	61822.0
Mn 257.610	4600.39	ppb	2.7833	0.1	1264153
Mo 202.032	1.4846	ppb	0.2070	13.9	11.2042
Na 330.237	230.528	ppb	122.051	52.9	-72.4580
Ni 231.604	181.678	ppb	2.1893	1.2	616.880
Pb 220.353	40.3555	ppb	1.6840	4.2	90.3638
Sb 206.834	-2.6991	ppb	4.6482	172.2	6.3431
Se 196.026	-6.7029	ppb	4.7756	71.2	-0.1760
Sn 189.925	13.3469	ppb	3.9699	29.7	11.8279
Sr 216.596	36.7060	ppb	0.4125	1.1	589.657
Ti 334.941	1987.83	ppb	4.4689	0.2	575283
Tl 190.794	11.0489	ppb	1.9460	17.6	-19.5862
V 292.401	152.130	ppb	0.3416	0.2	4827.51
Zn 206.200	247.180	ppb	0.7779	0.3	494.926

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

680-88915-a-24-b (Samp) 4/6/2013, 5:06:35 AM Rack 3, Tube 47

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-3.1142u	-3.1513u	-3.7915u
Al 308.215	107592	106861	108999
As 188.980	45.6480	48.1796	40.5415
B 249.678	0.2673u	1.8428u	-0.6114u
Ba 389.178	703.077	698.962	705.455
Be 313.042	8.0057	7.9517	8.0633
Ca 370.602	9323	9293	9327
Cd 226.502	-1.0749	-1.0988	-1.1574
Co 228.615	105.240	103.777	104.708
Cr 267.716	139.585	138.509	140.880
Cu 324.754	152.640	152.030	153.226
Fe 271.441	191795	190886	192562
K 766.491	13615.2	13506.5	13617.2
Mg 279.078	12597.6	12532.9	12664.7
Mn 257.610	11904.5	11858.2	11983.7
Mo 202.032	2.2137	2.5704	2.6902
Na 330.237	204.169u	366.915u	509.125u
Ni 231.604	184.570	184.784	184.012
Pb 220.353	94.7357	96.6281	95.3264
Sb 206.834	-5.9063u	-6.4811u	-3.0174
Se 196.026	-2.7048	-6.6723	-13.9537u
Sn 189.925	12.7100	12.3278	15.7340
Sr 216.596	75.9479	76.1739	77.1156
Ti 334.941	1043.90	1034.17	1050.25
Tl 190.794	26.9908u	28.4022u	27.4352u
V 292.401	152.628	151.960	153.102
Zn 206.200	202.657	203.309	204.810

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.3523	ppb	0.3808	11.4	-314.535
Al 308.215	107817	ppb	1086.74	1.0	386658
As 188.980	44.7897	ppb	3.8907	8.7	33.5303
B 249.678	0.4996	ppb	1.2435	248.9	-168.063
Ba 389.178	702.498	ppb	3.2854	0.5	19549.6
Be 313.042	8.0069	ppb	0.0558	0.7	16520.0
Ca 370.602	9315	ppb	18.58	0.2	18002
Cd 226.502	-1.1104	ppb	0.0424	3.8	541.310
Co 228.615	104.575	ppb	0.7405	0.7	1407.63
Cr 267.716	139.658	ppb	1.1873	0.9	7413.62
Cu 324.754	152.632	ppb	0.5979	0.4	7864.48
Fe 271.441	191748	ppb	839.012	0.4	393961
K 766.491	13579.6	ppb	63.3147	0.5	730363
Mg 279.078	12598.4	ppb	65.9355	0.5	32662.1
Mn 257.610	11915.4	ppb	63.4716	0.5	3272346
Mo 202.032	2.4915	ppb	0.2479	10.0	19.1735
Na 330.237	360.070	ppb	152.593	42.4	-59.4300
Ni 231.604	184.455	ppb	0.3986	0.2	626.490
Pb 220.353	95.5634	ppb	0.9682	1.0	219.278
Sb 206.834	-5.1349	ppb	1.8562	36.1	3.7228
Se 196.026	-7.7770	ppb	5.7052	73.4	1.4686
Sn 189.925	13.5906	ppb	1.8661	13.7	12.0757
Sr 216.596	76.4125	ppb	0.6193	0.8	1125.66
Ti 334.941	1042.77	ppb	8.1009	0.8	301737
Tl 190.794	27.6094	ppb	0.7216	2.6	-13.5443
V 292.401	152.563	ppb	0.5735	0.4	4825.67
Zn 206.200	203.592	ppb	1.1039	0.5	407.936

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

680-88915-a-25-b (Samp) 4/6/2013, 5:13:02 AM Rack 3, Tube 48

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-3.5134u	-2.8332u	-3.3727u
Al 308.215	116921	117124	116874
As 188.980	91.6939	92.4145	90.7779
B 249.678	-10.1807u	-8.7291u	-8.8205u
Ba 389.178	597.132	597.087	596.760
Be 313.042	12.8195	12.8353	12.8142
Ca 370.602	18124	18130	18116
Cd 226.502	-1.9180	-1.6442	-1.8115
Co 228.615	138.651	142.173	140.965
Cr 267.716	261.106	261.257	260.464
Cu 324.754	201.568	204.368	201.719
Fe 271.441	280498	280787	280222
K 766.491	18008.4	18109.6	18068.9
Mg 279.078	11613.1	11612.4	11593.0
Mn 257.610	3928.49	3933.80	3919.59
Mo 202.032	2.2651	2.3745	2.9534
Na 330.237	544.317u	572.919u	506.741u
Ni 231.604	196.676	193.561	195.662
Pb 220.353	314.298	311.387	310.700
Sb 206.834	-10.2465u	-0.3297	-4.6159
Se 196.026	-8.0907u	-1.2656	-11.9095u
Sn 189.925	14.2147	15.1265	18.3373
Sr 216.596	60.4206	59.4370	59.7523
Ti 334.941	799.736	801.372	800.887
Tl 190.794	3.7651u	7.8876u	12.6853u
V 292.401	238.080	238.815	238.299
Zn 206.200	405.098	411.741	407.002

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.2398	ppb	0.3591	11.1	-345.151
Al 308.215	116973	ppb	133.031	0.1	419491
As 188.980	91.6288	ppb	0.8202	0.9	67.5396
B 249.678	-9.2434	ppb	0.8130	8.8	-395.061
Ba 389.178	596.993	ppb	0.2028	0.0	16810.2
Be 313.042	12.8230	ppb	0.0110	0.1	26660.1
Ca 370.602	18123	ppb	7.087	0.0	43483
Cd 226.502	-1.7913	ppb	0.1380	7.7	780.863
Co 228.615	140.596	ppb	1.7899	1.3	1872.36
Cr 267.716	260.942	ppb	0.4210	0.2	13731.4
Cu 324.754	202.552	ppb	1.5749	0.8	10483.3
Fe 271.441	280503	ppb	282.496	0.1	576314
K 766.491	18062.3	ppb	50.9602	0.3	971386
Mg 279.078	11606.2	ppb	11.4288	0.1	30251.4
Mn 257.610	3927.29	ppb	7.1803	0.2	1079571
Mo 202.032	2.5310	ppb	0.3699	14.6	14.0287
Na 330.237	541.326	ppb	33.1905	6.1	-79.6877
Ni 231.604	195.300	ppb	1.5886	0.8	665.372
Pb 220.353	312.128	ppb	1.9102	0.6	707.512
Sb 206.834	-5.0640	ppb	4.9736	98.2	7.3373
Se 196.026	-7.0886	ppb	5.3922	76.1	0.0961
Sn 189.925	15.8928	ppb	2.1655	13.6	14.4143
Sr 216.596	59.8700	ppb	0.5022	0.8	951.042
Ti 334.941	800.665	ppb	0.8398	0.1	231679
Tl 190.794	8.1127	ppb	4.4644	55.0	-33.6795
V 292.401	238.398	ppb	0.3772	0.2	7524.06
Zn 206.200	407.947	ppb	3.4208	0.8	815.691

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

Cont Calib Verif (CCV) 4/6/2013, 5:19:29 AM Rack 3, Tube 49
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	508.290	502.240	511.577
Al 308.215	5000.54	5003.86	5095.99
As 188.980	481.432	488.025	491.912
B 249.678	504.499	509.402	511.596
Ba 389.178	4779.23	4783.28	4793.44
Be 313.042	478.670	478.028	479.702
Ca 370.602	4874	4881	4910
Cd 226.502	472.198	473.691	474.864
Co 228.615	484.141	485.674	485.467
Cr 267.716	4842.96	4830.23	4862.03
Cu 324.754	4772.99	4831.76	4748.31
Fe 271.441	5125.56	5221.83	5345.93
K 766.491	9900.45	9896.05	9909.27
Mg 279.078	4828.59	4846.04	4870.82
Mn 257.610	4795.55	4796.91	4824.88
Mo 202.032	486.397	487.165	489.461
Na 330.237	7125.00	7068.36	7101.54
Ni 231.604	2365.17	2391.30	2360.31
Pb 220.353	486.598	489.154	492.583
Sb 206.834	969.070	960.185	973.019
Se 196.026	4783.27	4808.60	4811.47
Sn 189.925	4891.41	4872.22	4910.72
Sr 216.596	2368.45	2362.61	2377.43
Ti 334.941	491.380	489.825	492.302
Tl 190.794	4923.76	4925.76	4951.31
V 292.401	4842.75	4852.90	4859.29
Zn 206.200	2390.88	2401.45	2399.34

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	507.369	ppb	4.7358	0.9	41669.4	101.47376
Al 308.215	5033.46	ppb	54.1797	1.1	18043.1	100.66926
As 188.980	487.123	ppb	5.2979	1.1	366.418	97.42455
B 249.678	508.499	ppb	3.6338	0.7	6231.61	20.33996Q
Ba 389.178	4785.32	ppb	7.3232	0.2	130943	95.70634
Be 313.042	478.800	ppb	0.8446	0.2	1007354	95.76005
Ca 370.602	4888	ppb	18.91	0.4	19165	97.76349
Cd 226.502	473.584	ppb	1.3362	0.3	22004.0	94.71690
Co 228.615	485.094	ppb	0.8319	0.2	6411.90	97.01883
Cr 267.716	4845.08	ppb	16.0016	0.3	253024	96.90151
Cu 324.754	4784.35	ppb	42.8700	0.9	248280	95.68709
Fe 271.441	5231.10	ppb	110.478	2.1	10891.2	104.62208
K 766.491	9901.92	ppb	6.7304	0.1	532620	99.01923
Mg 279.078	4848.48	ppb	21.2222	0.4	12575.9	96.96966
Mn 257.610	4805.78	ppb	16.5559	0.3	1319785	96.11566
Mo 202.032	487.674	ppb	1.5943	0.3	4163.04	97.53483
Na 330.237	7098.30	ppb	28.4555	0.4	401.677	94.64402
Ni 231.604	2372.26	ppb	16.6652	0.7	7984.27	94.89035
Pb 220.353	489.445	ppb	3.0036	0.6	1111.28	97.88897
Sb 206.834	967.425	ppb	6.5735	0.7	1098.16	96.74247
Se 196.026	4801.11	ppb	15.5175	0.3	2845.62	96.02229
Sn 189.925	4891.45	ppb	19.2505	0.4	4962.91	97.82900
Sr 216.596	2369.50	ppb	7.4689	0.3	31602.0	94.77983
Ti 334.941	491.169	ppb	1.2522	0.3	142042	98.23381
Tl 190.794	4933.61	ppb	15.3639	0.3	6336.95	98.67222
V 292.401	4851.65	ppb	8.3372	0.2	152809	97.03297
Zn 206.200	2397.22	ppb	5.5940	0.2	4771.46	95.88882

Cont Calib Blank (CCB) 4/6/2013, 5:25:56 AM Rack 3, Tube 50
Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.3210	0.6735	0.1462
Al 308.215	3.7300	11.6985	7.6839
As 188.980	-8.8185u	-1.9681u	-6.1761u
B 249.678	9.3202	6.4654	7.3725
Ba 389.178	0.5198	1.7034	1.7889
Be 313.042	0.0668	0.0952	0.1241
Ca 370.602	5.131	3.957	8.662
Cd 226.502	0.1290	0.0480	0.2094
Co 228.615	0.1001	-0.5338u	-0.2730u
Cr 267.716	0.3839	0.5923	0.9001
Cu 324.754	1.1715	1.4392	1.8486
Fe 271.441	11.5166	16.0573	17.9761
K 766.491	4.5658	5.5193	6.1689
Mg 279.078	0.7858	4.9476	-0.0100u
Mn 257.610	-0.2328u	0.1882	0.5179
Mo 202.032	0.1499	0.3891	0.5529
Na 330.237	-32.3601u	-140.313u	49.9854
Ni 231.604	-0.2051u	-0.8953u	1.0998
Pb 220.353	-0.2807u	-0.2968u	0.6553
Sb 206.834	-2.1549u	5.8945	0.0211
Se 196.026	3.8916	6.3837	0.5716
Sn 189.925	0.4382	2.5041	1.9629
Sr 216.596	0.1315	0.3324	0.3901
Ti 334.941	0.3418	0.2763	0.3455
Tl 190.794	7.2100	2.7769	9.4593
V 292.401	0.5475	0.8917	1.2847
Zn 206.200	0.4510	-0.7349u	0.0202

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.3802	ppb	0.2686	70.6	-64.7225	0.38023
Al 308.215	7.7041	ppb	3.9843	51.7	32.6829	7.70413
As 188.980	-5.6542	ppb	3.4549	61.1	-1.9085	-5.65425
B 249.678	7.7194	ppb	1.4586	18.9	153.654	7.71938
Ba 389.178	1.3373	ppb	0.7093	53.0	1.8185	1.33734
Be 313.042	0.0954	ppb	0.0287	30.1	-134.370	0.09538
Ca 370.602	5.916	ppb	2.449	41.4	16.84	5.91639
Cd 226.502	0.1288	ppb	0.0807	62.7	14.4520	0.12881
Co 228.615	-0.2356	ppb	0.3186	135.3	1.3633	-0.23556
Cr 267.716	0.6254	ppb	0.2597	41.5	44.0008	0.62544
Cu 324.754	1.4865	ppb	0.3410	22.9	-41.8107	1.48645
Fe 271.441	15.1834	ppb	3.3173	21.8	30.3478	15.18336
K 766.491	5.4180	ppb	0.8063	14.9	505.756	5.41800
Mg 279.078	1.9078	ppb	2.6624	139.6	26.3134	1.90783
Mn 257.610	0.1578	ppb	0.3763	238.5	389.553	0.15779
Mo 202.032	0.3640	ppb	0.2026	55.7	12.7455	0.36396
Na 330.237	-40.8961	ppb	95.4361	233.4	-4.0833	-40.89606
Ni 231.604	-0.0002	ppb	1.0132	479101.4	0.5413	-0.00021
Pb 220.353	0.0260	ppb	0.5451	2099.8	2.5916	0.02596
Sb 206.834	1.2536	ppb	4.1639	332.2	4.3333	1.25357
Se 196.026	3.6156	ppb	2.9159	80.6	3.2639	3.61560
Sn 189.925	1.6351	ppb	1.0713	65.5	-0.0581	1.63508
Sr 216.596	0.2847	ppb	0.1358	47.7	13.0616	0.28467
Ti 334.941	0.3212	ppb	0.0389	12.1	-28.2991	0.32123
Tl 190.794	6.4821	ppb	3.4001	52.5	4.5841	6.48209
V 292.401	0.9080	ppb	0.3689	40.6	26.9117	0.90798
Zn 206.200	-0.0879	ppb	0.6003	682.8	3156076	-0.08790

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

680-88915-a-26-b (Samp) 4/6/2013, 5:32:24 AM Rack 3, Tube 51
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-3.1994u	-2.9713u	-2.3074u
Al 308.215	89205.5	88748.8	87700.6
As 188.980	60.8962	58.6878	61.3792
B 249.678	-3.1076u	-0.9134u	-2.3280u
Ba 389.178	449.604	448.573	446.690
Be 313.042	9.0222	9.0034	8.9574
Ca 370.602	13614	13603	13593
Cd 226.502	-1.5177	-1.7782	-1.3333
Co 228.615	82.5513	83.3043	81.8214
Cr 267.716	161.439	160.980	159.859
Cu 324.754	126.242	125.519	126.795
Fe 271.441	223546	223297	222913
K 766.491	13503.2	13511.2	13460.6
Mg 279.078	8576.48	8556.25	8525.65
Mn 257.610	2020.24	2013.89	2009.20
Mo 202.032	2.3434	2.5664	2.3943
Na 330.237	326.120u	242.020u	363.397u
Ni 231.604	169.128	167.130	165.911
Pb 220.353	198.106	198.135	198.782
Sb 206.834	-2.9882	-1.2024	-4.2690
Se 196.026	-2.1950	4.0343	-4.3789u
Sn 189.925	16.3329	13.1792	15.0945
Sr 216.596	43.6120	43.3875	43.0623
Ti 334.941	860.074	859.289	851.688
Tl 190.794	7.6182u	8.4310u	5.2565u
V 292.401	174.370	173.959	173.742
Zn 206.200	371.167	369.607	369.689

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.8260	ppb	0.4634	16.4	-320.332
Al 308.215	88551.6	ppb	771.542	0.9	317567
As 188.980	60.3211	ppb	1.4349	2.4	44.7988
B 249.678	-2.1163	ppb	1.1123	52.6	-238.106
Ba 389.178	448.289	ppb	1.4774	0.3	12634.6
Be 313.042	8.9943	ppb	0.0333	0.4	18600.4
Ca 370.602	13603	ppb	10.20	0.1	31403
Cd 226.502	-1.5431	ppb	0.2235	14.5	616.674
Co 228.615	82.5590	ppb	0.7415	0.9	1110.65
Cr 267.716	160.759	ppb	0.8128	0.5	8475.57
Cu 324.754	126.185	ppb	0.6402	0.5	6500.67
Fe 271.441	223252	ppb	319.031	0.1	458682
K 766.491	13491.6	ppb	27.2026	0.2	725632
Mg 279.078	8552.79	ppb	25.5909	0.3	22318.8
Mn 257.610	2014.45	ppb	5.5399	0.3	554203
Mo 202.032	2.4347	ppb	0.1169	4.8	16.7771
Na 330.237	310.512	ppb	62.1751	20.0	-73.3892
Ni 231.604	167.389	ppb	1.6244	1.0	569.887
Pb 220.353	198.341	ppb	0.3825	0.2	449.755
Sb 206.834	-2.8199	ppb	1.5402	54.6	7.2369
Se 196.026	-0.8465	ppb	4.3657	515.7	2.8067
Sn 189.925	14.8689	ppb	1.5890	10.7	13.3743
Sr 216.596	43.3539	ppb	0.2764	0.6	700.886
Ti 334.941	857.017	ppb	4.6318	0.5	247964
Tl 190.794	7.1019	ppb	1.6490	23.2	-24.5894
V 292.401	174.023	ppb	0.3189	0.2	5498.87
Zn 206.200	370.155	ppb	0.8779	0.2	740.588

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

680-88975-a-1-a (Samp) 4/6/2013, 5:38:51 AM Rack 3, Tube 52

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	5.2049	4.2534	4.5446
Al 308.215	73719.9	73838.1	74059.9
As 188.980	106.728	100.836	98.8727
B 249.678	468.613	471.349	474.323
Ba 389.178	16653.6x	16654.9x	16677.5x
Be 313.042	25.5744	25.5509	25.6075
Ca 370.602	119486	119562	119902
Cd 226.502	261.884	261.799	261.713
Co 228.615	151.938	153.439	151.948
Cr 267.716	4375.22	4383.93	4391.61
Cu 324.754	3564.34	3578.54	3593.32
Fe 271.441	723580	720684	723790
K 766.491	7729.70	7718.96	7739.17
Mg 279.078	24028.0	24077.0	24103.6
Mn 257.610	5521.10	5532.86	5520.71
Mo 202.032	315.978	318.537	318.574
Na 330.237	3310.19u	3225.42u	3220.56u
Ni 231.604	2848.02	2826.90	2837.97
Pb 220.353	4190.50	4189.53	4203.66
Sb 206.834	60.5541	53.1966	60.2164
Se 196.026	-14.9227u	-7.1452	-17.1828u
Sn 189.925	105.911	106.554	115.247
Sr 216.596	2370.33	2372.58	2376.90
Ti 334.941	12814.3	12815.7	12865.3
Tl 190.794	8.8154u	8.1642u	3.0197u
V 292.401	222.311	223.113	223.383
Zn 206.200	39548.5x	39504.2x	39571.3x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	4.6676b	ppb	0.4875	10.4	197.752
Al 308.215	73872.6b	ppb	172.627	0.2	264951
As 188.980	102.146b	ppb	4.0880	4.0	70.8407
B 249.678	471.428b	ppb	2.8555	0.6	4905.58
Ba 389.178	16662.0xb	ppb	13.4378	0.1	457176
Be 313.042	25.5776b	ppb	0.0284	0.1	53477.3
Ca 370.602	119650b	ppb	221.7	0.2	403488
Cd 226.502	261.799b	ppb	0.0854	0.0	14361.1
Co 228.615	152.442b	ppb	0.8638	0.6	2372.06
Cr 267.716	4383.59b	ppb	8.2016	0.2	229187
Cu 324.754	3578.73b	ppb	14.4909	0.4	185942
Fe 271.441	722684b	ppb	1735.77	0.2	1484782
K 766.491	7729.27b	ppb	10.1138	0.1	415801
Mg 279.078	24069.5b	ppb	38.3220	0.2	62856.9
Mn 257.610	5524.89b	ppb	6.9026	0.1	1519743
Mo 202.032	317.696b	ppb	1.4882	0.5	2679.16
Na 330.237	3252.06b	ppb	50.4027	1.5	-529.619
Ni 231.604	2837.63b	ppb	10.5653	0.4	9569.72
Pb 220.353	4194.56b	ppb	7.8923	0.2	9495.76
Sb 206.834	57.9890b	ppb	4.1538	7.2	125.844
Se 196.026	-13.0836b	ppb	5.2655	40.2	0.1510
Sn 189.925	109.238b	ppb	5.2146	4.8	109.192
Sr 216.596	2373.27b	ppb	3.3419	0.1	32032.0
Ti 334.941	12831.8b	ppb	29.0937	0.2	3713511
Tl 190.794	6.6664b	ppb	3.1749	47.6	-90.8140
V 292.401	222.936b	ppb	0.5576	0.3	6889.36
Zn 206.200	39541.3xb	ppb	34.1497	0.1	78974.5

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

680-88975-a-2-a (Samp) 4/6/2013, 5:45:18 AM Rack 3, Tube 53

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	5.8183	6.3012	5.8597
Al 308.215	141033	140688	139590
As 188.980	141.514	129.345	133.164
B 249.678	952.173	957.308	959.888
Ba 389.178	11504.4x	11503.0x	11472.3x
Be 313.042	34.1062	34.1025	34.0110
Ca 370.602	412795	414274	410942
Cd 226.502	6.7343	6.8411	7.1536
Co 228.615	193.798	193.130	194.425
Cr 267.716	4950.79	4947.55	4920.33
Cu 324.754	9530.54	9391.44	9497.41
Fe 271.441	503843	503905	502838
K 766.491	20341.2	20424.1	20434.3
Mg 279.078	61707.7	61744.2	61558.4
Mn 257.610	11112.5	11093.6	11094.1
Mo 202.032	543.331	541.891	538.511
Na 330.237	3664.40u	3589.22u	3486.58u
Ni 231.604	3281.48	3240.92	3230.51
Pb 220.353	157.852	157.086	164.167
Sb 206.834	69.0619	83.9331	90.1456
Se 196.026	-4.4742	-0.9004	-7.9976
Sn 189.925	59.1273	58.6706	57.1946
Sr 216.596	2990.60	2995.93	2969.99
Ti 334.941	14962.7	14971.0	14844.0
Tl 190.794	17.8573u	17.3703u	13.7030u
V 292.401	404.095	403.844	403.328
Zn 206.200	8371.67	8348.77	8354.88

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	5.9931b	ppb	0.2677	4.5	305.689
Al 308.215	140437b	ppb	753.505	0.5	503681
As 188.980	134.674b	ppb	6.2233	4.6	100.799
B 249.678	956.456b	ppb	3.9274	0.4	11066.5
Ba 389.178	11493.2xb	ppb	18.1236	0.2	315491
Be 313.042	34.0732b	ppb	0.0539	0.2	71437.3
Ca 370.602	412670b	ppb	1670	0.4	1587557
Cd 226.502	6.9097b	ppb	0.2179	3.2	1863.28
Co 228.615	193.784b	ppb	0.6479	0.3	2982.62
Cr 267.716	4939.56b	ppb	16.7316	0.3	258200
Cu 324.754	9473.13b	ppb	72.6618	0.8	491953
Fe 271.441	503528b	ppb	599.005	0.1	1034544
K 766.491	20399.8b	ppb	51.0707	0.3	1097071
Mg 279.078	61670.1b	ppb	98.4360	0.2	160791
Mn 257.610	11100.1b	ppb	10.7687	0.1	3049996
Mo 202.032	541.244b	ppb	2.4739	0.5	4600.81
Na 330.237	3580.07b	ppb	89.2643	2.5	-174.771
Ni 231.604	3250.97b	ppb	26.9332	0.8	10954.9
Pb 220.353	159.702b	ppb	3.8857	2.4	352.247
Sb 206.834	81.0468b	ppb	10.8341	13.4	148.002
Se 196.026	-4.4574b	ppb	3.5486	79.6	5.3890
Sn 189.925	58.3308b	ppb	1.0102	1.7	57.6817
Sr 216.596	2985.51b	ppb	13.6975	0.5	40118.4
Ti 334.941	14925.9b	ppb	71.0338	0.5	4319701
Tl 190.794	16.3102b	ppb	2.2710	13.9	-63.2547
V 292.401	403.756b	ppb	0.3908	0.1	12548.1
Zn 206.200	8358.44b	ppb	11.8587	0.1	16679.6

680-88980-b-8-a (Samp) 4/6/2013, 5:51:45 AM Rack 3, Tube 54

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4747	1.5597	0.2396
Al 308.215	88059.2	89404.8	89318.4
As 188.980	256.350	257.465	269.291
B 249.678	33.2141u	29.8502u	30.3807u
Ba 389.178	6600.64	6623.75	6616.23
Be 313.042	15.0722	15.1641	15.1384
Ca 370.602	105799	106346	106343
Cd 226.502	16.9081	16.6535	16.4220
Co 228.615	297.804	295.318	296.751
Cr 267.716	351.352	354.458	353.731
Cu 324.754	488.357	488.956	491.521
Fe 271.441	410084	409036	409196
K 766.491	10759.1	10787.4	10759.8
Mg 279.078	13186.3	13237.1	13254.3
Mn 257.610	58469.0x	58531.2x	58609.1x
Mo 202.032	25.6363	25.1540	25.6906
Na 330.237	1048.33u	954.183u	1017.89u
Ni 231.604	146.333	149.136	148.531
Pb 220.353	2605.90	2626.08	2620.72
Sb 206.834	11.8424	7.7108	17.3055
Se 196.026	5.4116	-0.1740	14.3438
Sn 189.925	76.8613	80.1796	73.7422
Sr 216.596	653.796	660.705	660.769
Ti 334.941	1213.42	1223.81	1224.30
Tl 190.794	152.806	156.486	155.930
V 292.401	447.397	447.440	446.336
Zn 206.200	7154.10	7168.50	7163.58

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.7580b	ppb	0.7041	92.9	234.666
Al 308.215	88927.4b	ppb	753.193	0.8	318914
As 188.980	261.036b	ppb	7.1713	2.7	193.520
B 249.678	31.1483b	ppb	1.8086	5.8	-61.1259
Ba 389.178	6613.54b	ppb	11.7884	0.2	181660
Be 313.042	15.1249b	ppb	0.0474	0.3	31502.4
Ca 370.602	106163b	ppb	314.8	0.3	381239
Cd 226.502	16.6612b	ppb	0.2431	1.5	2028.73
Co 228.615	296.624b	ppb	1.2477	0.4	3937.23
Cr 267.716	353.181b	ppb	1.6246	0.5	18841.4
Cu 324.754	489.611b	ppb	1.6805	0.3	25427.5
Fe 271.441	409439b	ppb	564.871	0.1	841241
K 766.491	10768.8b	ppb	16.1011	0.1	579230
Mg 279.078	13225.9b	ppb	35.3691	0.3	33413.8
Mn 257.610	58536.4xb	ppb	70.1807	0.1	16072340
Mo 202.032	25.4936b	ppb	0.2954	1.2	202.014
Na 330.237	1006.80b	ppb	48.0439	4.8	-160.959
Ni 231.604	148.000b	ppb	1.4751	1.0	509.627
Pb 220.353	2617.57b	ppb	10.4490	0.4	5947.42
Sb 206.834	12.2862b	ppb	4.8127	39.2	29.9757
Se 196.026	6.5271b	ppb	7.3229	112.2	25.5282
Sn 189.925	76.9277b	ppb	3.2192	4.2	76.4033
Sr 216.596	658.423b	ppb	4.0076	0.6	9025.93
Ti 334.941	1220.51b	ppb	6.1436	0.5	353199
Tl 190.794	155.074b	ppb	1.9839	1.3	35.6290
V 292.401	447.058b	ppb	0.6250	0.1	14111.5
Zn 206.200	7162.06b	ppb	7.3155	0.1	14307.7

680-88980-b-8-aSD^5 (Samp) 4/6/2013, 5:58:23 AM Rack 3, Tube 55

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.0748	0.3581	0.1973
Al 308.215	19415.6	20569.4	19184.6
As 188.980	53.3414	60.3765	52.9341
B 249.678	10.0773	9.7881	10.4458
Ba 389.178	1465.09	1551.93	1462.20
Be 313.042	3.3449	3.5394	3.3206
Ca 370.602	23078	24363	23051
Cd 226.502	3.3819	4.1268	3.3551
Co 228.615	65.3395	69.1637	65.3314
Cr 267.716	78.2626	82.9750	77.8560
Cu 324.754	109.782	112.710	106.070
Fe 271.441	92831.0	98232.5	92228.4
K 766.491	2240.31	2338.03	2235.84
Mg 279.078	2987.70	3146.35	2969.01
Mn 257.610	15276.1	16288.3	15327.9
Mo 202.032	5.2699	5.9742	5.7834
Na 330.237	271.126u	280.974u	295.555u
Ni 231.604	33.9484	34.9549	33.5480
Pb 220.353	583.217	613.955	579.857
Sb 206.834	6.3771	3.6545	-1.3456
Se 196.026	-4.2875	3.3285	5.6502
Sn 189.925	17.4565	18.3899	15.1828
Sr 216.596	147.350	155.204	145.057
Ti 334.941	263.006	282.871	265.568
Tl 190.794	43.5881	40.4543	37.0414
V 292.401	98.4731	104.564	98.5988
Zn 206.200	1625.01	1708.44	1604.98

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1602	ppb	0.2188	136.6	-9.9736
Al 308.215	19723.2	ppb	741.867	3.8	70735.6
As 188.980	55.5507	ppb	4.1842	7.5	42.9300
B 249.678	10.1038	ppb	0.3296	3.3	67.5270
Ba 389.178	1493.08	ppb	50.9939	3.4	40988.0
Be 313.042	3.4016	ppb	0.1199	3.5	6824.40
Ca 370.602	23497	ppb	749.4	3.2	84090
Cd 226.502	3.6213	ppb	0.4380	12.1	463.911
Co 228.615	66.6116	ppb	2.2103	3.3	887.448
Cr 267.716	79.6978	ppb	2.8453	3.6	4272.59
Cu 324.754	109.521	ppb	3.3276	3.0	5596.33
Fe 271.441	94430.7	ppb	3306.26	3.5	194018
K 766.491	2271.40	ppb	57.7509	2.5	122343
Mg 279.078	3034.35	ppb	97.4384	3.2	7638.22
Mn 257.610	15630.8	ppb	570.005	3.6	4291938
Mo 202.032	5.6758	ppb	0.3643	6.4	52.2768
Na 330.237	282.552	ppb	12.2908	4.3	-35.1140
Ni 231.604	34.1504	ppb	0.7249	2.1	118.008
Pb 220.353	592.343	ppb	18.7920	3.2	1348.56
Sb 206.834	2.8954	ppb	3.9169	135.3	9.2547
Se 196.026	1.5637	ppb	5.1986	332.4	7.4285
Sn 189.925	17.0097	ppb	1.6496	9.7	15.5560
Sr 216.596	149.204	ppb	5.3212	3.6	2053.28
Ti 334.941	270.481	ppb	10.8055	4.0	78180.0
Tl 190.794	40.3612	ppb	3.2743	8.1	7.1513
V 292.401	100.545	ppb	3.4807	3.5	3172.42
Zn 206.200	1646.14	ppb	54.8686	3.3	3289.90

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

680-88980-b-8-aPDS (Samp) 4/6/2013, 6:04:50 AM Rack 3, Tube 56**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.0860	50.6648	50.2823
Al 308.215	88858.5	89643.0	89607.0
As 188.980	2449.48	2451.23	2444.60
B 249.678	13.4373u	13.8574u	14.5039u
Ba 389.178	8519.19	8538.52	8517.73
Be 313.042	64.5373	64.7265	64.5489
Ca 370.602	104575	104847	104754
Cd 226.502	64.6395	64.5548	64.2949
Co 228.615	784.830	787.825	793.008
Cr 267.716	546.885	549.517	548.322
Cu 324.754	749.850	741.369	739.633
Fe 271.441	405814	405877	403956
K 766.491	10668.0	10645.3	10614.2
Mg 279.078	13019.7	13069.0	13063.6
Mn 257.610	58207.1x	58330.3x	58170.4x
Mo 202.032	24.2728	25.5286	24.6502
Na 330.237	928.185u	972.426u	955.450u
Ni 231.604	633.303	638.314	638.584
Pb 220.353	3017.93	3018.76	3019.37
Sb 206.834	493.245	490.752	490.187
Se 196.026	1953.73	1977.44	1953.81
Sn 189.925	69.0370	73.7261	74.1755
Sr 216.596	648.400	653.508	650.007
Ti 334.941	1200.33	1206.25	1204.42
Tl 190.794	2054.21	2062.18	2048.00
V 292.401	921.289	922.399	917.639
Zn 206.200	7538.48	7565.20	7560.37

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.6777b	ppb	0.4020	0.8	4351.83
Al 308.215	89369.5b	ppb	442.887	0.5	320494
As 188.980	2448.44b	ppb	3.4337	0.1	1829.32
B 249.678	13.9328b	ppb	0.5373	3.9	-265.003
Ba 389.178	8525.15b	ppb	11.6061	0.1	233960
Be 313.042	64.6042b	ppb	0.1060	0.2	135645
Ca 370.602	104725b	ppb	138.2	0.1	375976
Cd 226.502	64.4964b	ppb	0.1795	0.3	4235.59
Co 228.615	788.554b	ppb	4.1375	0.5	10425.5
Cr 267.716	548.241b	ppb	1.3178	0.2	29020.6
Cu 324.754	743.617b	ppb	5.4670	0.7	38610.8
Fe 271.441	405216b	ppb	1090.97	0.3	832659
K 766.491	10642.5b	ppb	27.0132	0.3	572438
Mg 279.078	13050.8b	ppb	27.0650	0.2	32962.1
Mn 257.610	58235.9xb	ppb	83.7902	0.1	15989819
Mo 202.032	24.8172b	ppb	0.6443	2.6	195.440
Na 330.237	952.020b	ppb	22.3192	2.3	-166.062
Ni 231.604	636.734b	ppb	2.9738	0.5	2154.29
Pb 220.353	3018.69b	ppb	0.7253	0.0	6855.89
Sb 206.834	491.395b	ppb	1.6272	0.3	550.137
Se 196.026	1961.66b	ppb	13.6636	0.7	1183.15
Sn 189.925	72.3128b	ppb	2.8459	3.9	71.7187
Sr 216.596	650.638b	ppb	2.6121	0.4	8909.14
Ti 334.941	1203.67b	ppb	3.0300	0.3	348323
Tl 190.794	2054.79b	ppb	7.1096	0.3	2481.50
V 292.401	920.442b	ppb	2.4901	0.3	29051.4
Zn 206.200	7554.68b	ppb	14.2389	0.2	15091.3

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

680-88980-b-8-d ms (Samp) 4/6/2013, 6:11:17 AM Rack 3, Tube 57

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	27.8693	26.6109	27.3097
Al 308.215	97364.2	97398.5	97092.1
As 188.980	357.750	352.653	353.227
B 249.678	191.048	192.669	193.200
Ba 389.178	2262.14	2259.15	2262.52
Be 313.042	61.5926	61.6379	61.5528
Ca 370.602	117768	117761	117649
Cd 226.502	61.2735	61.0062	61.5620
Co 228.615	156.328	153.060	153.157
Cr 267.716	467.672	466.672	466.023
Cu 324.754	739.954	729.666	744.715
Fe 271.441	341246	340905	341966
K 766.491	17126.1	17114.2	17142.6
Mg 279.078	19187.4	19120.4	19116.9
Mn 257.610	8735.39	8736.62	8726.64
Mo 202.032	109.728	110.658	109.710
Na 330.237	5714.35	6085.97	6040.57
Ni 231.604	248.762	251.117	253.043
Pb 220.353	2825.34	2834.90	2826.71
Sb 206.834	25.1847	31.1182	28.2646
Se 196.026	79.0457	82.9627	83.8369
Sn 189.925	312.219	311.746	312.925
Sr 216.596	712.685	711.934	707.967
Ti 334.941	1476.65	1478.15	1474.94
Tl 190.794	56.4992	52.0851	54.6246
V 292.401	451.518	452.031	452.571
Zn 206.200	8034.55	8034.82	8024.16

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	27.2633	ppb	0.6305	2.3	2162.36
Al 308.215	97284.9	ppb	167.869	0.2	348892
As 188.980	354.544	ppb	2.7919	0.8	264.378
B 249.678	192.306	ppb	1.1211	0.6	1980.07
Ba 389.178	2261.27	ppb	1.8481	0.1	62475.1
Be 313.042	61.5944	ppb	0.0426	0.1	129339
Ca 370.602	117726	ppb	67.12	0.1	432295
Cd 226.502	61.2806	ppb	0.2780	0.5	3892.07
Co 228.615	154.181	ppb	1.8593	1.2	2065.71
Cr 267.716	466.789	ppb	0.8305	0.2	24519.0
Cu 324.754	738.112	ppb	7.6916	1.0	38312.5
Fe 271.441	341372	ppb	541.448	0.2	701374
K 766.491	17127.6	ppb	14.2718	0.1	921129
Mg 279.078	19141.6	ppb	39.7244	0.2	49838.4
Mn 257.610	8732.88	ppb	5.4418	0.1	2399164
Mo 202.032	110.032	ppb	0.5421	0.5	927.971
Na 330.237	5946.97	ppb	202.724	3.4	153.137
Ni 231.604	250.974	ppb	2.1439	0.9	854.355
Pb 220.353	2828.98	ppb	5.1682	0.2	6411.01
Sb 206.834	28.1892	ppb	2.9675	10.5	45.8512
Se 196.026	81.9484	ppb	2.5516	3.1	54.6946
Sn 189.925	312.297	ppb	0.5933	0.2	315.303
Sr 216.596	710.862	ppb	2.5352	0.4	9687.17
Ti 334.941	1476.58	ppb	1.6066	0.1	427324
Tl 190.794	54.4030	ppb	2.2154	4.1	9.6313
V 292.401	452.040	ppb	0.5266	0.1	14246.0
Zn 206.200	8031.18	ppb	6.0774	0.1	15943.5

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

680-88980-b-8-e msd (Samp) 4/6/2013, 6:17:45 AM Rack 3, Tube 58**Weight: 1****Volume: 1****Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	27.1041	27.4970	26.6601
Al 308.215	87885.9	88448.5	88755.5
As 188.980	308.944	312.057	314.113
B 249.678	205.524	203.437	209.354
Ba 389.178	2279.68	2282.15	2283.69
Be 313.042	60.7816	60.9698	60.9325
Ca 370.602	117620	118123	118348
Cd 226.502	62.5091	61.9547	62.0651
Co 228.615	152.957	152.564	150.967
Cr 267.716	438.135	440.673	441.262
Cu 324.754	751.644	743.006	743.558
Fe 271.441	322279	323733	322869
K 766.491	16481.0	16456.4	16404.0
Mg 279.078	18240.9	18302.4	18336.5
Mn 257.610	8985.29	8983.89	8995.84
Mo 202.032	112.832	113.976	113.863
Na 330.237	5765.79	5696.12	5476.76
Ni 231.604	254.641	251.477	254.655
Pb 220.353	3091.80	3106.58	3124.49
Sb 206.834	31.7020	35.8057	26.5998
Se 196.026	82.8514	93.6137	88.3370
Sn 189.925	280.668	287.168	283.942
Sr 216.596	734.321	738.411	741.128
Ti 334.941	1299.25	1304.42	1306.91
Tl 190.794	47.6207	55.9268	53.6622
V 292.401	399.581	400.108	400.284
Zn 206.200	7678.87	7687.65	7726.76

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	27.0871	ppb	0.4187	1.5	2147.31
Al 308.215	88363.3	ppb	440.982	0.5	316898
As 188.980	311.705	ppb	2.6025	0.8	232.572
B 249.678	206.105	ppb	3.0007	1.5	2169.97
Ba 389.178	2281.84	ppb	2.0207	0.1	63004.5
Be 313.042	60.8946	ppb	0.0997	0.2	127866
Ca 370.602	118030	ppb	372.9	0.3	435330
Cd 226.502	62.1763	ppb	0.2935	0.5	3878.09
Co 228.615	152.163	ppb	1.0539	0.7	2034.45
Cr 267.716	440.024	ppb	1.6615	0.4	23117.7
Cu 324.754	746.070	ppb	4.8356	0.6	38720.8
Fe 271.441	322960	ppb	731.364	0.2	663546
K 766.491	16447.1	ppb	39.3377	0.2	884543
Mg 279.078	18293.3	ppb	48.4441	0.3	47618.5
Mn 257.610	8988.34	ppb	6.5313	0.1	2469229
Mo 202.032	113.557	ppb	0.6306	0.6	959.276
Na 330.237	5646.23	ppb	150.836	2.7	145.883
Ni 231.604	253.591	ppb	1.8307	0.7	862.670
Pb 220.353	3107.62	ppb	16.3675	0.5	7042.70
Sb 206.834	31.3692	ppb	4.6120	14.7	48.4886
Se 196.026	88.2674	ppb	5.3815	6.1	58.3830
Sn 189.925	283.926	ppb	3.2498	1.1	286.509
Sr 216.596	737.954	ppb	3.4267	0.5	10039.7
Ti 334.941	1303.53	ppb	3.9045	0.3	377237
Tl 190.794	52.4032	ppb	4.2938	8.2	8.6865
V 292.401	399.991	ppb	0.3657	0.1	12599.6
Zn 206.200	7697.76	ppb	25.4962	0.3	15377.5

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

680-88939-a-1-a (Samp) 4/6/2013, 6:24:12 AM Rack 3, Tube 59

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	10.8272u	11.2319u	10.5097u
Al 308.215	17429.4	17601.4	17606.9
As 188.980	4.3199	6.3701	6.2160
B 249.678	38.3831	37.8343	38.1921
Ba 389.178	41200.5x	41281.1x	41300.6x
Be 313.042	0.6357	0.7331	0.7831
Ca 370.602	39366	39614	39629
Cd 226.502	3.3105	3.6565	3.3726
Co 228.615	16.9016	16.5801	17.4048
Cr 267.716	158.806	159.724	159.932
Cu 324.754	885.426	883.901	883.106
Fe 271.441	13327.3	13798.3	14034.1
K 766.491	1179.80	1209.52	1230.45
Mg 279.078	3452.34	3500.50	3510.00
Mn 257.610	187.136	207.640	221.749
Mo 202.032	255.869	256.555	255.804
Na 330.237	3973.66	3905.97	3873.64
Ni 231.604	223.423	222.683	224.155
Pb 220.353	26.1864	30.7839	33.5934
Sb 206.834	2.7091	-6.0995u	-3.9072u
Se 196.026	-2.0896u	2.4359	4.8748
Sn 189.925	1235.99	1229.68	1231.37
Sr 216.596	23388.4x	23413.7x	23331.5x
Ti 334.941	785.488	789.787	790.251
Tl 190.794	0.2747u	1.9483	5.9381
V 292.401	360.797	361.887	362.592
Zn 206.200	1429.49	1442.48	1443.39

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.8563b	ppb	0.3620	3.3	-365.851
Al 308.215	17545.9b	ppb	100.943	0.6	62945.8
As 188.980	5.6353b	ppb	1.1418	20.3	6.6814
B 249.678	38.1365b	ppb	0.2786	0.7	506.489
Ba 389.178	41260.7xb	ppb	53.0252	0.1	1129002
Be 313.042	0.7173b	ppb	0.0750	10.4	1113.21
Ca 370.602	39536b	ppb	148.0	0.4	155436
Cd 226.502	3.4465b	ppb	0.1845	5.4	210.221
Co 228.615	16.9621b	ppb	0.4157	2.5	240.646
Cr 267.716	159.487b	ppb	0.5989	0.4	8343.42
Cu 324.754	884.144b	ppb	1.1786	0.1	45799.3
Fe 271.441	13719.9b	ppb	359.878	2.6	28192.6
K 766.491	1206.59b	ppb	25.4479	2.1	65090.3
Mg 279.078	3487.61b	ppb	30.9162	0.9	9115.17
Mn 257.610	205.508b	ppb	17.4045	8.5	56845.2
Mo 202.032	256.076b	ppb	0.4162	0.2	2194.79
Na 330.237	3917.76b	ppb	51.0430	1.3	211.346
Ni 231.604	223.420b	ppb	0.7360	0.3	752.815
Pb 220.353	30.1879b	ppb	3.7393	12.4	69.5179
Sb 206.834	-2.4326b	ppb	4.5857	188.5	-1.1871
Se 196.026	1.7404b	ppb	3.5339	203.1	2.3067
Sn 189.925	1232.35b	ppb	3.2660	0.3	1249.09
Sr 216.596	23377.8xb	ppb	42.1121	0.2	312390
Ti 334.941	788.509b	ppb	2.6259	0.3	228086
Tl 190.794	2.7204b	ppb	2.9096	107.0	-2.1690
V 292.401	361.759b	ppb	0.9046	0.3	11369.9
Zn 206.200	1438.45b	ppb	7.7764	0.5	2874.69

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680-88939-a-2-a (Samp) 4/6/2013, 6:30:39 AM Rack 3, Tube 60

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	11.2973	11.1669	10.2884
Al 308.215	242490	243452	245174
As 188.980	217.071	207.524	213.911
B 249.678	320.153	319.524	319.453
Ba 389.178	11771.8x	11788.0x	11783.2x
Be 313.042	17.8868	17.8912	17.9218
Ca 370.602	830276x	827530x	829791x
Cd 226.502	2.9037	2.6253	2.0028
Co 228.615	278.864	281.123	278.639
Cr 267.716	2049.41	2056.22	2066.01
Cu 324.754	16338.6	16201.5	16251.2
Fe 271.441	833507	834442	833917
K 766.491	36170.7	36048.2	36066.5
Mg 279.078	122162	122294	122589
Mn 257.610	18666.6	18692.3	18746.9
Mo 202.032	202.125	204.151	204.109
Na 330.237	6193.09u	6357.64u	6460.96u
Ni 231.604	1453.12	1451.00	1459.26
Pb 220.353	105.955	100.610	94.7356
Sb 206.834	53.9654	40.0726	45.3525
Se 196.026	-23.4631u	-7.7315	-13.3845
Sn 189.925	40.3750	41.5386	44.0013
Sr 216.596	2106.89	2114.90	2123.91
Ti 334.941	13341.9	13334.4	13383.0
Tl 190.794	21.6028u	28.7508u	27.8680u
V 292.401	715.227	714.809	715.275
Zn 206.200	5152.16	5168.01	5168.67

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.9175b	ppb	0.5487	5.0	792.325
Al 308.215	243705b	ppb	1360.00	0.6	873990
As 188.980	212.835b	ppb	4.8638	2.3	159.486
B 249.678	319.710b	ppb	0.3854	0.1	2926.00
Ba 389.178	11781.0xb	ppb	8.3165	0.1	324108
Be 313.042	17.8999b	ppb	0.0191	0.1	37594.8
Ca 370.602	829199xb	ppb	1466	0.2	3204020
Cd 226.502	2.5106b	ppb	0.4613	18.4	2668.88
Co 228.615	279.542b	ppb	1.3736	0.5	4055.48
Cr 267.716	2057.22b	ppb	8.3454	0.4	107781
Cu 324.754	16263.8b	ppb	69.4245	0.4	844655
Fe 271.441	833955b	ppb	469.041	0.1	1713408
K 766.491	36095.1b	ppb	66.0864	0.2	1940973
Mg 279.078	122349b	ppb	218.696	0.2	319019
Mn 257.610	18701.9b	ppb	41.0003	0.2	5138672
Mo 202.032	203.462b	ppb	1.1577	0.6	1695.90
Na 330.237	6337.23b	ppb	135.095	2.1	-82.4270
Ni 231.604	1454.46b	ppb	4.2902	0.3	4917.82
Pb 220.353	100.433b	ppb	5.6116	5.6	219.581
Sb 206.834	46.4635b	ppb	7.0127	15.1	93.1052
Se 196.026	-14.8597b	ppb	7.9689	53.6	3.8574
Sn 189.925	41.9716b	ppb	1.8516	4.4	41.2820
Sr 216.596	2115.23b	ppb	8.5190	0.4	28765.1
Ti 334.941	13353.1b	ppb	26.1396	0.2	3864853
Tl 190.794	26.0739b	ppb	3.8972	14.9	-103.797
V 292.401	715.104b	ppb	0.2560	0.0	22637.1
Zn 206.200	5162.94b	ppb	9.3445	0.2	10307.4

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

Cont Calib Verif (CCV) 4/6/2013, 6:37:06 AM Rack 4, Tube 1
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	503.917	498.612	500.252
Al 308.215	5070.89	5104.53	5156.62
As 188.980	500.943	489.884	488.456
B 249.678	515.599	508.347	508.728
Ba 389.178	4818.48	4786.29	4779.74
Be 313.042	479.757	476.780	474.304
Ca 370.602	5514	5664	5910
Cd 226.502	475.885	471.033	469.595
Co 228.615	487.443	482.697	481.749
Cr 267.716	4860.94	4821.44	4804.00
Cu 324.754	4729.97	4673.47	4800.19
Fe 271.441	5492.85	5680.82	5980.94
K 766.491	9907.28	9896.87	9880.98
Mg 279.078	4942.30	4915.78	4944.90
Mn 257.610	4822.48	4794.21	4779.65
Mo 202.032	491.587	485.740	482.807
Na 330.237	7066.95	7078.91	6937.66
Ni 231.604	2405.50	2357.36	2355.71
Pb 220.353	495.831	491.535	487.535
Sb 206.834	981.755	969.432	965.238
Se 196.026	4820.94	4760.34	4747.36
Sn 189.925	4870.72	4909.86	4821.38
Sr 216.596	2381.16	2360.02	2357.03
Ti 334.941	503.975	503.671	505.860
Tl 190.794	4955.35	4906.64	4880.33
V 292.401	4859.21	4824.40	4810.52
Zn 206.200	2410.09	2388.33	2377.77

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	500.927	ppb	2.7163	0.5	41138.2	100.18544
Al 308.215	5110.68	ppb	43.1942	0.8	18320.2	102.21365
As 188.980	493.094	ppb	6.8350	1.4	370.886	98.61884
B 249.678	510.891	ppb	4.0813	0.8	6260.08	20.43565Q
Ba 389.178	4794.84	ppb	20.7325	0.4	131205	95.89673
Be 313.042	476.947	ppb	2.7301	0.6	1003454	95.38943
Ca 370.602	5696	ppb	200.2	3.5	22318	113.92274Q
Cd 226.502	472.171	ppb	3.2958	0.7	21939.9	94.43416
Co 228.615	483.963	ppb	3.0510	0.6	6397.30	96.79265
Cr 267.716	4828.79	ppb	29.1730	0.6	252174	96.57586
Cu 324.754	4734.54	ppb	63.4859	1.3	245694	94.69084
Fe 271.441	5718.20	ppb	246.183	4.3	11891.1	114.36407Q
K 766.491	9895.04	ppb	13.2421	0.1	532250	98.95042
Mg 279.078	4934.33	ppb	16.1126	0.3	12800.2	98.68653
Mn 257.610	4798.78	ppb	21.7796	0.5	1317864	95.97559
Mo 202.032	486.711	ppb	4.4699	0.9	4154.83	97.34225
Na 330.237	7027.84	ppb	78.3281	1.1	397.162	93.70448
Ni 231.604	2372.86	ppb	28.2849	1.2	7986.30	94.91433
Pb 220.353	491.634	ppb	4.1485	0.8	1116.23	98.32677
Sb 206.834	972.142	ppb	8.5852	0.9	1103.16	97.21416
Se 196.026	4776.21	ppb	39.2731	0.8	2830.88	95.52427
Sn 189.925	4867.32	ppb	44.3423	0.9	4938.42	97.34641
Sr 216.596	2366.07	ppb	13.1544	0.6	31556.5	94.64275
Ti 334.941	504.502	ppb	1.1860	0.2	145901	100.90044
Tl 190.794	4914.10	ppb	38.0625	0.8	6311.80	98.28207
V 292.401	4831.38	ppb	25.0807	0.5	152170	96.62753
Zn 206.200	2392.06	ppb	16.4827	0.7	4761.19	95.68244

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

Cont Calib Blank (CCB) 4/6/2013, 6:43:34 AM Rack 4, Tube 2
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1790	0.1862	0.3637
Al 308.215	13.1976	27.0608	42.1652
As 188.980	-7.6239u	-5.6899u	-2.8431u
B 249.678	11.2023	9.9299	10.9648
Ba 389.178	3.1803	4.6039	7.9133
Be 313.042	0.1008	0.1506	0.2446
Ca 370.602	47.63	73.21	121.9
Cd 226.502	-0.0213u	0.2397	0.2734
Co 228.615	0.1044	0.0305	0.2842
Cr 267.716	0.8360	1.3991	2.3134
Cu 324.754	2.1683	2.3488	4.8596
Fe 271.441	54.7394	92.5564	152.553
K 766.491	6.5700	8.1641	13.3788
Mg 279.078	10.4120	9.2387	19.1241
Mn 257.610	1.3108	3.1430	6.3222
Mo 202.032	0.4768	0.4566	0.7338
Na 330.237	-173.708u	-146.809u	-88.5578u
Ni 231.604	1.0953	1.3376	2.0684
Pb 220.353	-0.5391u	2.4542	3.3412
Sb 206.834	3.1205	2.3488	-2.7837u
Se 196.026	4.5896	7.0673	3.8656
Sn 189.925	3.7786	0.7953	2.4698
Sr 216.596	0.6783	1.5110	3.2111
Ti 334.941	1.1995	1.6622	2.6083
Tl 190.794	6.7883	5.7803	8.3728
V 292.401	0.8945	1.8965	2.6934
Zn 206.200	0.9850	0.8398	3.5687

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2430	ppb	0.1046	43.1	-76.0998	0.24298
Al 308.215	27.4745	ppb	14.4882	52.7	103.589	27.47450
As 188.980	-5.3856	ppb	2.4049	44.7	-1.7080	-5.38561
B 249.678	10.6990	ppb	0.6765	6.3	189.751	10.69899
Ba 389.178	5.2325	ppb	2.4283	46.4	108.579	5.23248Z
Be 313.042	0.1653	ppb	0.0730	44.2	12.8629	0.16533
Ca 370.602	80.92	ppb	37.73	46.6	305.8	80.91553
Cd 226.502	0.1640	ppb	0.1613	98.4	16.3443	0.16395
Co 228.615	0.1397	ppb	0.1304	93.4	6.3488	0.13972
Cr 267.716	1.5162	ppb	0.7456	49.2	90.5501	1.51616
Cu 324.754	3.1256	ppb	1.5044	48.1	43.3245	3.12556
Fe 271.441	99.9495	ppb	49.3239	49.3	204.513	99.94949Z
K 766.491	9.3709	ppb	3.5612	38.0	718.297	9.37095
Mg 279.078	12.9249	ppb	5.4006	41.8	55.0058	12.92492
Mn 257.610	3.5920	ppb	2.5357	70.6	1332.76	3.59201
Mo 202.032	0.5557	ppb	0.1546	27.8	14.3762	0.55574
Na 330.237	-136.358	ppb	43.5264	31.9	-9.9370	-136.35820
Ni 231.604	1.5005	ppb	0.5066	33.8	5.5939	1.50046
Pb 220.353	1.7521	ppb	2.0332	116.0	6.5015	1.75210
Sb 206.834	0.8952	ppb	3.2093	358.5	3.9549	0.89523
Se 196.026	5.1742	ppb	1.6790	32.4	4.1884	5.17419
Sn 189.925	2.3479	ppb	1.4954	63.7	0.6654	2.34789
Sr 216.596	1.8001	ppb	1.2909	71.7	33.3337	1.80012
Ti 334.941	1.8233	ppb	0.7181	39.4	406.470	1.82334
Tl 190.794	6.9805	ppb	1.3069	18.7	5.2091	6.98047
V 292.401	1.8281	ppb	0.9014	49.3	55.9053	1.82814
Zn 206.200	1.7978	ppb	1.5353	85.4	5.3714	1.79785

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

mb 680-271798/1-a (Samp) **4/6/2013, 6:50:02 AM** **Rack 4, Tube 3**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0564u	0.4397	0.0005
Al 308.215	6.3353	9.6153	11.8690
As 188.980	-4.9101u	-0.6973u	-3.8075u
B 249.678	4.5693	5.0726	4.6235
Ba 389.178	0.2415	0.6678	-0.0047u
Be 313.042	0.0096	0.0157	0.0139
Ca 370.602	23.54	18.94	22.74
Cd 226.502	0.0065	0.1051	-0.0296u
Co 228.615	-0.3331u	-0.7533u	-0.2898u
Cr 267.716	0.1351	0.3634	0.3784
Cu 324.754	1.3756	0.3915	0.4375
Fe 271.441	29.8376	28.4383	33.4690
K 766.491	12.6765	11.7017	11.7753
Mg 279.078	16.1223	8.1175	11.9193
Mn 257.610	-0.7633u	-0.7284u	-0.7696u
Mo 202.032	0.4299	0.0596	0.2837
Na 330.237	2.4159	34.6379	-5.7554u
Ni 231.604	1.0462	0.0177	0.5803
Pb 220.353	-1.0417u	-0.0448u	0.9665
Sb 206.834	0.0249	-0.2022u	-1.6835u
Se 196.026	3.8684	3.6705	4.1934
Sn 189.925	15.5649	13.5001	12.4932
Sr 216.596	0.0699	-0.1323u	0.2733
Ti 334.941	0.5475	0.5898	0.5509
Tl 190.794	4.6813	0.0623	-0.3561u
V 292.401	0.0104	0.1610	0.0259
Zn 206.200	1.2543	0.1176	0.3892

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1279	ppb	0.2715	212.2	-85.4970
Al 308.215	9.2732	ppb	2.7827	30.0	38.3144
As 188.980	-3.1383	ppb	2.1847	69.6	-0.0271
B 249.678	4.7551	ppb	0.2763	5.8	117.621
Ba 389.178	0.3015	ppb	0.3402	112.8	-26.4704
Be 313.042	0.0131	ppb	0.0031	23.9	-307.600
Ca 370.602	21.74	ppb	2.459	11.3	78.06
Cd 226.502	0.0273	ppb	0.0697	255.1	9.7876
Co 228.615	-0.4587	ppb	0.2560	55.8	-1.5829
Cr 267.716	0.2923	ppb	0.1363	46.6	26.6124
Cu 324.754	0.7349	ppb	0.5554	75.6	-80.8254
Fe 271.441	30.5816	ppb	2.5966	8.5	61.9164
K 766.491	12.0512	ppb	0.5428	4.5	862.407
Mg 279.078	12.0530	ppb	4.0041	33.2	52.8085
Mn 257.610	-0.7538	ppb	0.0222	2.9	139.438
Mo 202.032	0.2578	ppb	0.1865	72.4	11.8396
Na 330.237	10.4328	ppb	21.3567	204.7	-0.9817
Ni 231.604	0.5481	ppb	0.5150	94.0	2.3869
Pb 220.353	-0.0400	ppb	1.0041	2509.8	2.4418
Sb 206.834	-0.6203	ppb	0.9278	149.6	2.3079
Se 196.026	3.9108	ppb	0.2640	6.8	3.4385
Sn 189.925	13.8527	ppb	1.5659	11.3	12.3424
Sr 216.596	0.0703	ppb	0.2028	288.5	10.1946
Ti 334.941	0.5627	ppb	0.0235	4.2	41.6348
Tl 190.794	1.4625	ppb	2.7954	191.1	-1.8746
V 292.401	0.0658	ppb	0.0829	126.0	0.3479
Zn 206.200	0.5871	ppb	0.5936	101.1	2.9572

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

ics 680-271798/2-a (Samp) 4/6/2013, 6:56:30 AM Rack 4, Tube 4
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	6.5692	7.0967	7.1539
Al 308.215	4921.08	4875.41	4874.56
As 188.980	101.685	95.2485	99.5103
B 249.678	184.052	185.392	185.318
Ba 389.178	102.129	102.229	101.434
Be 313.042	51.4748	51.2918	51.2198
Ca 370.602	4895	4877	4871
Cd 226.502	50.2021	50.4714	50.5204
Co 228.615	51.6463	51.0395	52.1286
Cr 267.716	103.044	102.530	102.432
Cu 324.754	101.753	104.121	103.545
Fe 271.441	4864.69	4853.59	4854.65
K 766.491	5097.59	5080.13	5068.03
Mg 279.078	4800.75	4796.82	4781.18
Mn 257.610	517.782	517.512	517.349
Mo 202.032	99.0391	99.2540	98.5994
Na 330.237	4411.16	4568.44	4617.93
Ni 231.604	98.0284	99.7946	99.4573
Pb 220.353	52.0074	49.6549	51.3268
Sb 206.834	51.3166	47.4859	44.4655
Se 196.026	85.8141	91.2732	91.7981
Sn 189.925	206.135	207.998	206.778
Sr 216.596	97.9884	98.4942	97.8674
Ti 334.941	98.4248	97.7810	97.6421
Tl 190.794	41.4718	41.6434	41.3868
V 292.401	99.1516	98.9486	98.8651
Zn 206.200	102.679	104.083	102.369

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	6.9399	ppb	0.3223	4.6	474.420
Al 308.215	4890.35	ppb	26.6189	0.5	17550.1
As 188.980	98.8145	ppb	3.2741	3.3	76.1709
B 249.678	184.920	ppb	0.7533	0.4	2300.70
Ba 389.178	101.931	ppb	0.4334	0.4	2777.95
Be 313.042	51.3288	ppb	0.1314	0.3	107702
Ca 370.602	4881	ppb	12.18	0.2	18879
Cd 226.502	50.3979	ppb	0.1714	0.3	2362.30
Co 228.615	51.6048	ppb	0.5457	1.1	684.155
Cr 267.716	102.668	ppb	0.3289	0.3	5375.91
Cu 324.754	103.140	ppb	1.2351	1.2	5240.03
Fe 271.441	4857.65	ppb	6.1248	0.1	9989.81
K 766.491	5081.91	ppb	14.8576	0.3	273458
Mg 279.078	4792.92	ppb	10.3528	0.2	12517.5
Mn 257.610	517.548	ppb	0.2187	0.0	142495
Mo 202.032	98.9642	ppb	0.3337	0.3	854.241
Na 330.237	4532.51	ppb	107.967	2.4	269.953
Ni 231.604	99.0934	ppb	0.9377	0.9	334.163
Pb 220.353	50.9964	ppb	1.2106	2.4	117.835
Sb 206.834	47.7560	ppb	3.4335	7.2	54.7972
Se 196.026	89.6285	ppb	3.3137	3.7	54.3872
Sn 189.925	206.970	ppb	0.9460	0.5	208.353
Sr 216.596	98.1167	ppb	0.3325	0.3	1316.80
Ti 334.941	97.9493	ppb	0.4176	0.4	28247.1
Tl 190.794	41.5007	ppb	0.1307	0.3	48.1146
V 292.401	98.9884	ppb	0.1473	0.1	3096.96
Zn 206.200	103.043	ppb	0.9132	0.9	207.225

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

ics 680-271798/3-a (Samp) 4/6/2013, 7:02:58 AM Rack 4, Tube 5
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	211.286	210.375	215.775
Al 308.215	2115.41	2124.04	2120.63
As 188.980	219.331	224.119	223.593
B 249.678	387.111	390.190	391.163
Ba 389.178	210.356	209.609	211.222
Be 313.042	216.010	216.542	216.446
Ca 370.602	20302	20337	20361
Cd 226.502	206.412	206.996	206.473
Co 228.615	212.933	213.607	210.433
Cr 267.716	216.029	216.749	216.186
Cu 324.754	214.888	212.403	217.278
Fe 271.441	20989.9	21106.5	21044.4
K 766.491	20294.3	20354.7	20376.7
Mg 279.078	20294.2	20320.1	20294.5
Mn 257.610	2149.35	2146.42	2130.79
Mo 202.032	206.612	207.753	206.882
Na 330.237	17288.8	17172.6	16973.3
Ni 231.604	205.582	205.743	207.445
Pb 220.353	206.616	203.007	204.228
Sb 206.834	200.910	192.417	197.783
Se 196.026	199.084	205.304	194.145
Sn 189.925	214.959	217.040	212.756
Sr 216.596	215.542	216.798	215.300
Ti 334.941	206.465	206.812	207.119
Tl 190.794	51.2579	44.1085	46.1544
V 292.401	205.028	205.898	205.925
Zn 206.200	197.261	197.231	196.683

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	212.479	ppb	2.8905	1.4	17421.5
Al 308.215	2120.03	ppb	4.3506	0.2	7623.06
As 188.980	222.348	ppb	2.6262	1.2	168.469
B 249.678	389.488	ppb	2.1152	0.5	4766.35
Ba 389.178	210.396	ppb	0.8073	0.4	5821.40
Be 313.042	216.332	ppb	0.2836	0.1	455047
Ca 370.602	20333	ppb	29.69	0.1	78528
Cd 226.502	206.627	ppb	0.3209	0.2	9662.70
Co 228.615	212.324	ppb	1.6723	0.8	2802.63
Cr 267.716	216.322	ppb	0.3787	0.2	11321.4
Cu 324.754	214.856	ppb	2.4377	1.1	11048.1
Fe 271.441	21046.9	ppb	58.3591	0.3	43281.7
K 766.491	20341.9	ppb	42.6774	0.2	1093954
Mg 279.078	20302.9	ppb	14.8376	0.1	52963.2
Mn 257.610	2142.19	ppb	9.9780	0.5	588723
Mo 202.032	207.082	ppb	0.5962	0.3	1776.31
Na 330.237	17144.9	ppb	159.544	0.9	1027.82
Ni 231.604	206.257	ppb	1.0319	0.5	695.243
Pb 220.353	204.617	ppb	1.8356	0.9	466.087
Sb 206.834	197.037	ppb	4.2949	2.2	217.516
Se 196.026	199.511	ppb	5.5920	2.8	120.060
Sn 189.925	214.919	ppb	2.1421	1.0	216.434
Sr 216.596	215.880	ppb	0.8042	0.4	2893.45
Ti 334.941	206.799	ppb	0.3270	0.2	59819.4
Tl 190.794	47.1736	ppb	3.6821	7.8	50.4945
V 292.401	205.617	ppb	0.5102	0.2	6434.44
Zn 206.200	197.058	ppb	0.3252	0.2	394.586

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

680-88913-b-2-d (Samp) 4/6/2013, 7:09:26 AM Rack 4, Tube 6

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.0153	0.6634	1.3064
Al 308.215	76324.5	75966.0	75704.4
As 188.980	182.467	185.121	191.634
B 249.678	-1.6406u	-0.5906u	0.3406u
Ba 389.178	1183.42	1183.46	1181.76
Be 313.042	9.6847	9.7676	9.8050
Ca 370.602	38772	38734	38714
Cd 226.502	10.3276	10.6705	10.7413
Co 228.615	97.4939	97.9457	97.2663
Cr 267.716	309.819	308.783	308.833
Cu 324.754	428.049	425.778	423.136
Fe 271.441	268026	268280	268455
K 766.491	9063.91	9087.25	9055.72
Mg 279.078	9799.94	9772.51	9802.17
Mn 257.610	13370.6	13372.4	13348.5
Mo 202.032	14.3908	14.0517	15.3189
Na 330.237	512.504u	853.730u	833.381u
Ni 231.604	989.002	983.799	986.232
Pb 220.353	1166.60	1163.37	1170.94
Sb 206.834	0.2010	4.2368	4.4873
Se 196.026	1.4401	-3.0393	1.2992
Sn 189.925	82.3058	87.1174	84.6078
Sr 216.596	161.018	161.307	161.673
Ti 334.941	914.938	913.059	910.667
Tl 190.794	31.5209u	32.3859u	31.9790u
V 292.401	365.196	365.529	364.926
Zn 206.200	2980.46	2966.95	2980.08

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.9950	ppb	0.3220	32.4	47.9178
Al 308.215	75998.3	ppb	311.339	0.4	272547
As 188.980	186.407	ppb	4.7171	2.5	138.775
B 249.678	-0.6302	ppb	0.9912	157.3	-275.412
Ba 389.178	1182.88	ppb	0.9712	0.1	32815.4
Be 313.042	9.7524	ppb	0.0616	0.6	20190.1
Ca 370.602	38740	ppb	29.33	0.1	126787
Cd 226.502	10.5798	ppb	0.2212	2.1	1317.51
Co 228.615	97.5687	ppb	0.3458	0.4	1308.35
Cr 267.716	309.145	ppb	0.5841	0.2	16289.1
Cu 324.754	425.654	ppb	2.4590	0.6	22063.4
Fe 271.441	268254	ppb	215.690	0.1	551142
K 766.491	9068.96	ppb	16.3596	0.2	487833
Mg 279.078	9791.54	ppb	16.5201	0.2	25336.9
Mn 257.610	13363.8	ppb	13.3198	0.1	3670215
Mo 202.032	14.5871	ppb	0.6560	4.5	117.430
Na 330.237	733.205	ppb	191.403	26.1	-87.4117
Ni 231.604	986.344	ppb	2.6034	0.3	3327.20
Pb 220.353	1166.97	ppb	3.7971	0.3	2647.96
Sb 206.834	2.9750	ppb	2.4056	80.9	16.0600
Se 196.026	-0.1000	ppb	2.5465	2546.9	6.9871
Sn 189.925	84.6770	ppb	2.4066	2.8	84.2383
Sr 216.596	161.332	ppb	0.3283	0.2	2285.69
Ti 334.941	912.888	ppb	2.1407	0.2	264143
Tl 190.794	31.9619	ppb	0.4328	1.4	-19.5914
V 292.401	365.217	ppb	0.3024	0.1	11526.1
Zn 206.200	2975.83	ppb	7.6920	0.3	5945.25

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

680-88913-b-2-dSD^5 (Samp) 4/6/2013, 7:15:54 AM Rack 4, Tube 7

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.2510	0.0624	0.3642
Al 308.215	18138.2	16747.6	16603.9
As 188.980	41.8152	37.4065	32.2395
B 249.678	0.7517u	0.3940u	0.8391u
Ba 389.178	288.718	266.874	265.829
Be 313.042	2.3366	2.1735	2.1775
Ca 370.602	9414	8835	8791
Cd 226.502	2.7713	2.1065	2.1993
Co 228.615	23.7559	21.4565	22.0777
Cr 267.716	76.1930	70.1191	69.6516
Cu 324.754	103.950	93.3919	96.4330
Fe 271.441	66597.7	61390.5	60737.6
K 766.491	2044.53	1927.07	1917.01
Mg 279.078	2423.35	2254.16	2239.46
Mn 257.610	3299.99	3060.93	3026.33
Mo 202.032	3.2753	2.1283	3.1668
Na 330.237	86.8607u	35.4406u	183.153u
Ni 231.604	241.815	224.674	221.311
Pb 220.353	289.107	265.228	263.016
Sb 206.834	0.9030	-0.0377	4.1797
Se 196.026	3.6750	6.2267	2.5474
Sn 189.925	20.7292	22.5554	19.5239
Sr 216.596	40.1816	37.6707	37.7441
Ti 334.941	221.668	205.639	204.065
Tl 190.794	8.1836u	7.4674u	8.6458u
V 292.401	89.2107	82.5417	81.2422
Zn 206.200	731.403	679.262	675.624

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2259	ppb	0.1524	67.5	-62.9394
Al 308.215	17163.2	ppb	847.422	4.9	61555.1
As 188.980	37.1537	ppb	4.7928	12.9	29.4135
B 249.678	0.6616	ppb	0.2358	35.6	-8.9441
Ba 389.178	273.807	ppb	12.9237	4.7	7570.72
Be 313.042	2.2292	ppb	0.0931	4.2	4356.60
Ca 370.602	9013	ppb	347.4	3.9	29441
Cd 226.502	2.3590	ppb	0.3601	15.3	309.833
Co 228.615	22.4300	ppb	1.1895	5.3	304.201
Cr 267.716	71.9879	ppb	3.6492	5.1	3802.00
Cu 324.754	97.9251	ppb	5.4351	5.6	4984.59
Fe 271.441	62908.6	ppb	3211.48	5.1	129248
K 766.491	1962.87	ppb	70.8962	3.6	105754
Mg 279.078	2305.66	ppb	102.189	4.4	5983.12
Mn 257.610	3129.09	ppb	149.018	4.8	859630
Mo 202.032	2.8568	ppb	0.6332	22.2	30.1033
Na 330.237	101.818	ppb	74.9833	73.6	-25.9271
Ni 231.604	229.267	ppb	10.9961	4.8	773.809
Pb 220.353	272.450	ppb	14.4674	5.3	620.182
Sb 206.834	1.6817	ppb	2.2139	131.6	7.1063
Se 196.026	4.1497	ppb	1.8850	45.4	4.9685
Sn 189.925	20.9362	ppb	1.5263	7.3	19.5346
Sr 216.596	38.5321	ppb	1.4290	3.7	552.522
Ti 334.941	210.457	ppb	9.7409	4.6	60802.6
Tl 190.794	8.0989	ppb	0.5938	7.3	-6.6900
V 292.401	84.3315	ppb	4.2751	5.1	2660.28
Zn 206.200	695.430	ppb	31.2066	4.5	1390.73

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

680-88913-b-2-dPDS (Samp) 4/6/2013, 7:22:32 AM Rack 4, Tube 8

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	49.6616	50.8924	50.5304
Al 308.215	76840.8	76611.8	76213.1
As 188.980	2388.32	2393.99	2381.80
B 249.678	947.910	955.744	959.778
Ba 389.178	3176.38	3173.85	3168.14
Be 313.042	60.3797	60.3195	60.1290
Ca 370.602	42902	42828	42796
Cd 226.502	59.1680	59.2415	59.3218
Co 228.615	593.692	603.381	596.799
Cr 267.716	507.675	506.122	504.530
Cu 324.754	666.531	673.837	668.728
Fe 271.441	265872	265072	263941
K 766.491	13852.9	13891.9	13802.8
Mg 279.078	14397.6	14412.0	14400.8
Mn 257.610	13558.0	13588.0	13582.0
Mo 202.032	513.042	512.636	514.546
Na 330.237	5495.81	5547.70	5312.64
Ni 231.604	1465.22	1464.28	1461.49
Pb 220.353	1624.04	1627.41	1625.56
Sb 206.834	494.730	493.072	496.623
Se 196.026	1935.68	1941.94	1955.26
Sn 189.925	1068.53	1063.81	1062.13
Sr 216.596	648.835	644.974	645.220
Ti 334.941	1843.14	1837.69	1830.04
Tl 190.794	1982.40	2006.42	1994.53
V 292.401	852.244	852.432	851.666
Zn 206.200	3408.31	3418.80	3417.49

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.3615	ppb	0.6325	1.3	4097.72
Al 308.215	76555.3	ppb	317.620	0.4	274581
As 188.980	2388.04	ppb	6.1021	0.3	1785.09
B 249.678	954.478	ppb	6.0345	0.6	11333.0
Ba 389.178	3172.79	ppb	4.2195	0.1	87277.4
Be 313.042	60.2761	ppb	0.1309	0.2	126444
Ca 370.602	42842	ppb	54.24	0.1	143598
Cd 226.502	59.2438	ppb	0.0769	0.1	3566.15
Co 228.615	597.958	ppb	4.9473	0.8	7915.75
Cr 267.716	506.109	ppb	1.5724	0.3	26572.5
Cu 324.754	669.698	ppb	3.7484	0.6	34744.2
Fe 271.441	264962	ppb	970.334	0.4	544477
K 766.491	13849.2	ppb	44.6911	0.3	744856
Mg 279.078	14403.5	ppb	7.5402	0.1	37366.7
Mn 257.610	13576.0	ppb	15.8812	0.1	3728499
Mo 202.032	513.408	ppb	1.0061	0.2	4376.25
Na 330.237	5452.05	ppb	123.490	2.3	187.790
Ni 231.604	1463.66	ppb	1.9398	0.1	4933.48
Pb 220.353	1625.67	ppb	1.6870	0.1	3685.43
Sb 206.834	494.808	ppb	1.7770	0.4	542.710
Se 196.026	1944.29	ppb	10.0021	0.5	1158.41
Sn 189.925	1064.82	ppb	3.3211	0.3	1079.05
Sr 216.596	646.343	ppb	2.1616	0.3	8732.31
Ti 334.941	1836.96	ppb	6.5794	0.4	531583
Tl 190.794	1994.45	ppb	12.0100	0.6	2505.61
V 292.401	852.114	ppb	0.3991	0.0	26794.3
Zn 206.200	3414.86	ppb	5.7160	0.2	6821.51

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

680-88913-b-2-e ms (Samp) 4/6/2013, 7:29:01 AM Rack 4, Tube 9

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	8.0312	7.9338	7.5758
Al 308.215	84105.9	85376.1	85966.6
As 188.980	300.515	298.490	301.483
B 249.678	153.329	152.638	152.378
Ba 389.178	1176.31	1176.14	1173.76
Be 313.042	60.2774	60.2768	60.3462
Ca 370.602	42958	42903	42915
Cd 226.502	58.1577	57.7386	58.0037
Co 228.615	151.229	150.502	152.201
Cr 267.716	436.879	436.942	436.156
Cu 324.754	457.774	454.758	457.435
Fe 271.441	284112	283923	284333
K 766.491	12471.9	12517.4	12508.3
Mg 279.078	15595.2	15585.0	15576.1
Mn 257.610	11177.2	11178.1	11165.9
Mo 202.032	110.386	108.983	110.192
Na 330.237	4975.37	5233.20	5166.17
Ni 231.604	756.668	748.206	752.786
Pb 220.353	1136.14	1128.19	1130.25
Sb 206.834	23.2210	24.9932	25.1902
Se 196.026	91.0030	92.4470	90.8044
Sn 189.925	243.339	237.529	240.025
Sr 216.596	245.672	246.047	246.602
Ti 334.941	962.438	964.127	964.054
Tl 190.794	67.9867	64.8383	66.8158
V 292.401	444.571	444.021	444.696
Zn 206.200	2761.24	2758.69	2757.21

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	7.8469	ppb	0.2398	3.1	597.856
Al 308.215	85149.5	ppb	950.784	1.1	305372
As 188.980	300.163	ppb	1.5272	0.5	223.652
B 249.678	152.782	ppb	0.4915	0.3	1568.86
Ba 389.178	1175.41	ppb	1.4238	0.1	32656.6
Be 313.042	60.3001	ppb	0.0399	0.1	126585
Ca 370.602	42925	ppb	29.09	0.1	141660
Cd 226.502	57.9666	ppb	0.2120	0.4	3565.91
Co 228.615	151.311	ppb	0.8525	0.6	2014.54
Cr 267.716	436.659	ppb	0.4365	0.1	22941.4
Cu 324.754	456.656	ppb	1.6522	0.4	23680.1
Fe 271.441	284123	ppb	204.813	0.1	583755
K 766.491	12499.2	ppb	24.1015	0.2	672271
Mg 279.078	15585.5	ppb	9.5746	0.1	40501.1
Mn 257.610	11173.7	ppb	6.7674	0.1	3069049
Mo 202.032	109.854	ppb	0.7600	0.7	929.831
Na 330.237	5124.91	ppb	133.771	2.6	174.896
Ni 231.604	752.553	ppb	4.2358	0.6	2540.84
Pb 220.353	1131.53	ppb	4.1246	0.4	2566.57
Sb 206.834	24.4681	ppb	1.0845	4.4	40.0726
Se 196.026	91.4181	ppb	0.8965	1.0	60.6364
Sn 189.925	240.298	ppb	2.9146	1.2	242.191
Sr 216.596	246.107	ppb	0.4676	0.2	3427.87
Ti 334.941	963.540	ppb	0.9545	0.1	278830
Tl 190.794	66.5469	ppb	1.5913	2.4	27.2310
V 292.401	444.429	ppb	0.3594	0.1	13998.4
Zn 206.200	2759.05	ppb	2.0356	0.1	5511.69

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

680-88913-b-2-f msd (Samp) 4/6/2013, 7:35:29 AM Rack 4, Tube 10

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	7.2490	6.7989	6.7434
Al 308.215	75062.0	75178.5	74380.6
As 188.980	273.559	279.243	276.647
B 249.678	136.049	137.250	137.292
Ba 389.178	1299.18	1299.79	1295.86
Be 313.042	55.9570	56.0043	55.7790
Ca 370.602	31210	31220	31153
Cd 226.502	58.3789	58.2578	58.5547
Co 228.615	138.256	137.456	137.947
Cr 267.716	377.881	377.916	375.505
Cu 324.754	489.573	484.197	474.749
Fe 271.441	248252	248690	248237
K 766.491	11983.7	11982.4	11975.1
Mg 279.078	11475.1	11479.8	11450.3
Mn 257.610	12288.6	12295.5	12285.0
Mo 202.032	105.206	105.157	105.571
Na 330.237	5084.85	4901.92	4994.24
Ni 231.604	622.096	623.340	615.548
Pb 220.353	1292.48	1291.76	1300.63
Sb 206.834	23.2722	19.2230	29.7881
Se 196.026	92.3170	88.0388	83.1967
Sn 189.925	232.205	232.942	229.072
Sr 216.596	231.952	232.671	230.145
Ti 334.941	940.679	942.321	934.273
Tl 190.794	67.8209	66.3546	65.6777
V 292.401	352.411	353.269	352.138
Zn 206.200	3217.84	3219.56	3230.67

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	6.9304	ppb	0.2773	4.0	528.118
Al 308.215	74873.7	ppb	431.009	0.6	268522
As 188.980	276.483	ppb	2.8460	1.0	206.277
B 249.678	136.864	ppb	0.7060	0.5	1419.45
Ba 389.178	1298.28	ppb	2.1178	0.2	35945.1
Be 313.042	55.9134	ppb	0.1188	0.2	117350
Ca 370.602	31194	ppb	36.22	0.1	98892
Cd 226.502	58.3971	ppb	0.1493	0.3	3476.00
Co 228.615	137.886	ppb	0.4032	0.3	1838.27
Cr 267.716	377.100	ppb	1.3822	0.4	19827.6
Cu 324.754	482.840	ppb	7.5044	1.6	25029.4
Fe 271.441	248393	ppb	257.366	0.1	510347
K 766.491	11980.4	ppb	4.6369	0.0	644375
Mg 279.078	11468.4	ppb	15.8726	0.1	29730.4
Mn 257.610	12289.7	ppb	5.3294	0.0	3375264
Mo 202.032	105.312	ppb	0.2262	0.2	893.391
Na 330.237	4993.67	ppb	91.4679	1.8	175.804
Ni 231.604	620.328	ppb	4.1861	0.7	2094.88
Pb 220.353	1294.96	ppb	4.9282	0.4	2937.42
Sb 206.834	24.0945	ppb	5.3304	22.1	38.1755
Se 196.026	87.8508	ppb	4.5631	5.2	58.6026
Sn 189.925	231.406	ppb	2.0546	0.9	233.161
Sr 216.596	231.589	ppb	1.3017	0.6	3216.98
Ti 334.941	939.091	ppb	4.2528	0.5	271731
Tl 190.794	66.6178	ppb	1.0956	1.6	29.3749
V 292.401	352.606	ppb	0.5899	0.2	11102.4
Zn 206.200	3222.69	ppb	6.9630	0.2	6438.12

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

680-88913-b-4-b (Samp) 4/6/2013, 7:42:08 AM Rack 4, Tube 11

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	4.3766	3.3918	4.5373
Al 308.215	81378.0	81074.0	81269.2
As 188.980	377.807	374.968	379.908
B 249.678	25.5203u	26.1894u	25.5304u
Ba 389.178	1918.86	1909.68	1917.51
Be 313.042	9.9290	9.9046	9.9489
Ca 370.602	251421	250680	250998
Cd 226.502	14.3702	14.2584	13.9042
Co 228.615	147.104	147.755	145.871
Cr 267.716	398.193	397.020	398.251
Cu 324.754	558.762	565.587	567.161
Fe 271.441	265082	264716	265654
K 766.491	8768.20	8778.72	8813.21
Mg 279.078	94852.3	94566.9	94720.3
Mn 257.610	18007.3	17963.7	18015.5
Mo 202.032	16.0667	15.9809	15.9707
Na 330.237	757.760u	687.171u	893.729u
Ni 231.604	142.937	143.966	143.117
Pb 220.353	1483.57	1482.50	1483.20
Sb 206.834	10.0290	10.8444	11.3348
Se 196.026	-3.8477	-6.3392	9.1954
Sn 189.925	72.1992	73.5816	73.7610
Sr 216.596	349.518	347.250	348.425
Ti 334.941	1140.14	1137.98	1142.37
Tl 190.794	42.5933u	42.4486u	42.4130u
V 292.401	295.045	294.471	295.318
Zn 206.200	6066.86	6045.67	6060.45

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	4.1019	ppb	0.6202	15.1	316.007
Al 308.215	81240.4	ppb	153.996	0.2	291347
As 188.980	377.561	ppb	2.4789	0.7	283.915
B 249.678	25.7467	ppb	0.3834	1.5	48.7699
Ba 389.178	1915.35	ppb	4.9584	0.3	53111.2
Be 313.042	9.9275	ppb	0.0222	0.2	20638.5
Ca 370.602	251033	ppb	372.1	0.1	968448
Cd 226.502	14.1776	ppb	0.2432	1.7	1476.55
Co 228.615	146.910	ppb	0.9571	0.7	1966.42
Cr 267.716	397.821	ppb	0.6944	0.2	20942.9
Cu 324.754	563.837	ppb	4.4646	0.8	29238.5
Fe 271.441	265151	ppb	472.621	0.2	544776
K 766.491	8786.71	ppb	23.5447	0.3	472657
Mg 279.078	94713.1	ppb	142.833	0.2	246846
Mn 257.610	17995.5	ppb	27.8226	0.2	4942586
Mo 202.032	16.0061	ppb	0.0527	0.3	129.886
Na 330.237	779.553	ppb	104.989	13.5	-112.925
Ni 231.604	143.340	ppb	0.5496	0.4	490.087
Pb 220.353	1483.09	ppb	0.5428	0.0	3365.25
Sb 206.834	10.7360	ppb	0.6596	6.1	25.3018
Se 196.026	-0.3305	ppb	8.3432	2524.4	8.2252
Sn 189.925	73.1806	ppb	0.8546	1.2	72.6779
Sr 216.596	348.397	ppb	1.1342	0.3	4828.39
Ti 334.941	1140.17	ppb	2.1930	0.2	330307
Tl 190.794	42.4850	ppb	0.0955	0.2	-14.6012
V 292.401	294.945	ppb	0.4325	0.1	9304.95
Zn 206.200	6057.66	ppb	10.8659	0.2	312101.3

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

680-88915-a-1-b (Samp) 4/6/2013, 7:48:36 AM Rack 4, Tube 12

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3454	0.5756	0.7443
Al 308.215	110041	109721	109174
As 188.980	145.796	149.475	156.564
B 249.678	24.8556u	26.2413	25.4032
Ba 389.178	1994.80	1997.80	1994.80
Be 313.042	5.3963	5.3929	5.3910
Ca 370.602	147563	147223	147577
Cd 226.502	26.4509	26.4148	26.4703
Co 228.615	154.345	152.191	152.607
Cr 267.716	304.745	305.269	304.160
Cu 324.754	589.493	588.569	590.740
Fe 271.441	247563	248173	247962
K 766.491	11057.4	11048.0	11023.5
Mg 279.078	36794.8	36810.6	36774.9
Mn 257.610	10635.3	10657.8	10640.9
Mo 202.032	18.3891	18.1126	17.7180
Na 330.237	394.035u	446.972u	282.594u
Ni 231.604	97.9191	101.869	103.842
Pb 220.353	6704.10	6702.46	6696.28
Sb 206.834	17.1253	20.7060	13.5710
Se 196.026	6.7429	-1.3647	-5.4386
Sn 189.925	110.723	109.988	108.715
Sr 216.596	238.393	238.272	237.519
Ti 334.941	1046.36	1047.30	1042.82
Tl 190.794	28.9547u	25.4617u	26.3763u
V 292.401	254.064	254.161	253.662
Zn 206.200	5844.18	5826.82	5826.92

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3248	ppb	0.5865	180.6	-26.5030
Al 308.215	109646	ppb	438.331	0.4	393215
As 188.980	150.612	ppb	5.4733	3.6	113.372
B 249.678	25.5000	ppb	0.6979	2.7	67.2261
Ba 389.178	1995.80	ppb	1.7342	0.1	55106.5
Be 313.042	5.3934	ppb	0.0027	0.0	11061.3
Ca 370.602	147454	ppb	200.2	0.1	559564
Cd 226.502	26.4453	ppb	0.0282	0.1	1991.58
Co 228.615	153.048	ppb	1.1425	0.7	2044.79
Cr 267.716	304.725	ppb	0.5549	0.2	16041.4
Cu 324.754	589.601	ppb	1.0897	0.2	30571.4
Fe 271.441	247899	ppb	309.810	0.1	509333
K 766.491	11043.0	ppb	17.4972	0.2	593973
Mg 279.078	36793.4	ppb	17.9077	0.0	95837.6
Mn 257.610	10644.7	ppb	11.6909	0.1	2923884
Mo 202.032	18.0732	ppb	0.3373	1.9	148.674
Na 330.237	374.534	ppb	83.9066	22.4	-128.411
Ni 231.604	101.210	ppb	3.0160	3.0	347.847
Pb 220.353	6700.95	ppb	4.1286	0.1	15184.3
Sb 206.834	17.1341	ppb	3.5675	20.8	30.7322
Se 196.026	-0.0201	ppb	6.2011	30862.6	6.0676
Sn 189.925	109.809	ppb	1.0157	0.9	109.802
Sr 216.596	238.061	ppb	0.4735	0.2	3332.87
Ti 334.941	1045.49	ppb	2.3620	0.2	302642
Tl 190.794	26.9309	ppb	1.8113	6.7	-18.4438
V 292.401	253.963	ppb	0.2645	0.1	8013.72
Zn 206.200	5832.64	ppb	9.9913	0.2	31652.2

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

Cont Calib Verif (CCV) 4/6/2013, 7:55:04 AM Rack 4, Tube 13
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	507.259	503.717	506.802
Al 308.215	5005.71	5003.02	5027.53
As 188.980	485.632	489.156	480.372
B 249.678	507.872	507.327	508.612
Ba 389.178	4810.19	4784.31	4791.04
Be 313.042	479.048	478.061	477.832
Ca 370.602	5030	5033	5071
Cd 226.502	474.820	472.666	472.641
Co 228.615	487.086	483.874	484.308
Cr 267.716	4864.52	4839.99	4842.44
Cu 324.754	4786.08	4791.76	4760.67
Fe 271.441	5102.25	5140.13	5188.58
K 766.491	9940.68	9901.67	9911.54
Mg 279.078	4882.67	4871.09	4876.59
Mn 257.610	4817.43	4790.92	4794.29
Mo 202.032	489.024	489.356	488.411
Na 330.237	6976.18	7042.93	6938.85
Ni 231.604	2397.65	2368.19	2389.88
Pb 220.353	495.933	494.230	495.378
Sb 206.834	972.468	971.585	976.807
Se 196.026	4814.91	4780.98	4800.60
Sn 189.925	4881.54	4900.68	4892.24
Sr 216.596	2380.93	2366.86	2368.54
Ti 334.941	494.676	492.359	493.826
Tl 190.794	4954.99	4931.53	4925.67
V 292.401	4868.01	4841.41	4843.01
Zn 206.200	2407.28	2392.23	2393.17

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	505.926	ppb	1.9264	0.4	41550.4	101.18520
Al 308.215	5012.09	ppb	13.4439	0.3	17966.6	100.24177
As 188.980	485.053	ppb	4.4204	0.9	364.872	97.01062
B 249.678	507.937	ppb	0.6446	0.1	6224.88	20.31748Q
Ba 389.178	4795.18	ppb	13.4286	0.3	131213	95.90363
Be 313.042	478.314	ppb	0.6458	0.1	1006330	95.66276
Ca 370.602	5044	ppb	23.25	0.5	19792	100.88971
Cd 226.502	473.376	ppb	1.2507	0.3	21994.0	94.67516
Co 228.615	485.089	ppb	1.7430	0.4	6411.77	97.01784
Cr 267.716	4848.99	ppb	13.5111	0.3	253228	96.97971
Cu 324.754	4779.51	ppb	16.5560	0.3	248028	95.59016
Fe 271.441	5143.65	ppb	43.2739	0.8	10711.2	102.87308
K 766.491	9917.96	ppb	20.2818	0.2	533482	99.17965
Mg 279.078	4876.78	ppb	5.7928	0.1	12649.9	97.53569
Mn 257.610	4800.88	ppb	14.4271	0.3	1318439	96.01765
Mo 202.032	488.930	ppb	0.4792	0.1	4173.77	97.78606
Na 330.237	6985.99	ppb	52.7314	0.8	394.927	93.14648
Ni 231.604	2385.24	ppb	15.2694	0.6	8027.95	95.40948
Pb 220.353	495.180	ppb	0.8686	0.2	1124.27	99.03603
Sb 206.834	973.620	ppb	2.7950	0.3	1104.91	97.36198
Se 196.026	4798.83	ppb	17.0379	0.4	2844.27	95.97660
Sn 189.925	4891.49	ppb	9.5915	0.2	4962.95	97.82973
Sr 216.596	2372.11	ppb	7.6846	0.3	31636.5	94.88454
Ti 334.941	493.620	ppb	1.1722	0.2	142752	98.72401
Tl 190.794	4937.40	ppb	15.5154	0.3	6341.85	98.74791
V 292.401	4850.81	ppb	14.9173	0.3	152782	97.01617
Zn 206.200	2397.56	ppb	8.4335	0.4	4772.11	95.90238

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

Cont Calib Blank (CCB) 4/6/2013, 8:01:32 AM Rack 4, Tube 14

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.4340	0.1681	0.7123
Al 308.215	11.1124	11.9181	28.7353
As 188.980	-6.2992u	-5.5256u	-2.1734u
B 249.678	9.4424	9.1467	9.2462
Ba 389.178	2.5433	3.0404	5.1821
Be 313.042	0.1618	0.2199	0.3709
Ca 370.602	19.57	25.19	49.38
Cd 226.502	0.1566	0.2213	0.5583
Co 228.615	-0.5786u	-0.4973u	0.4527
Cr 267.716	1.1584	1.9181	3.2393
Cu 324.754	2.2036	2.6134	4.0940
Fe 271.441	27.2041	33.3218	71.1927
K 766.491	8.0884	9.5958	15.8283
Mg 279.078	7.3179	10.9961	18.8606
Mn 257.610	1.6852	2.8038	6.4519
Mo 202.032	0.3016	0.1547	0.5277
Na 330.237	-153.805u	-143.795u	-161.281u
Ni 231.604	2.4444	1.3349	1.9904
Pb 220.353	0.3245	1.9385	0.4491
Sb 206.834	-3.0183u	4.8811	-3.9443u
Se 196.026	4.7205	-0.6336u	9.6429
Sn 189.925	3.2996	1.9648	3.6542
Sr 216.596	0.8554	1.0553	1.5714
Ti 334.941	0.5149	0.5547	1.0757
Tl 190.794	4.7173	10.6085	7.8134
V 292.401	2.2833	2.4102	3.9749
Zn 206.200	1.3121	1.1864	3.7976

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.4381	ppb	0.2721	62.1	-59.9677	0.43815
Al 308.215	17.2553	ppb	9.9501	57.7	66.9143	17.25525
As 188.980	-4.6661	ppb	2.1931	47.0	-1.1697	-4.66609
B 249.678	9.2785	ppb	0.1505	1.6	172.560	9.27846
Ba 389.178	3.5886	ppb	1.4022	39.1	63.5047	3.58859
Be 313.042	0.2509	ppb	0.1079	43.0	192.979	0.25090
Ca 370.602	31.38	ppb	15.84	50.5	114.9	31.38162
Cd 226.502	0.3120	ppb	0.2157	69.1	23.0478	0.31203
Co 228.615	-0.2078	ppb	0.5734	276.0	1.7426	-0.20775
Cr 267.716	2.1053	ppb	1.0530	50.0	121.287	2.10529
Cu 324.754	2.9703	ppb	0.9945	33.5	35.2286	2.97029
Fe 271.441	43.9062	ppb	23.8279	54.3	89.3422	43.90619Z
K 766.491	11.1708	ppb	4.1033	36.7	815.073	11.17083
Mg 279.078	12.3915	ppb	5.8965	47.6	53.6041	12.39155
Mn 257.610	3.6470	ppb	2.4927	68.3	1347.66	3.64696
Mo 202.032	0.3280	ppb	0.1879	57.3	12.4325	0.32803
Na 330.237	-152.960	ppb	8.7737	5.7	-10.9175	-152.96028
Ni 231.604	1.9232	ppb	0.5578	29.0	7.0153	1.92325
Pb 220.353	0.9040	ppb	0.8981	99.3	4.5816	0.90405
Sb 206.834	-0.6938	ppb	4.8502	699.1	2.2470	-0.69381
Se 196.026	4.5766	ppb	5.1397	112.3	3.8342	4.57657
Sn 189.925	2.9729	ppb	0.8908	30.0	1.2997	2.97288
Sr 216.596	1.1607	ppb	0.3695	31.8	24.7574	1.16069
Ti 334.941	0.7151	ppb	0.3129	43.8	85.7583	0.71512
Tl 190.794	7.7130	ppb	2.9469	38.2	6.1587	7.71303
V 292.401	2.8895	ppb	0.9422	32.6	89.4044	2.88949
Zn 206.200	2.0987	ppb	1.4726	70.2	5.9698	2.09870

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

680-88915-a-2-b (Samp) 4/6/2013, 8:08:00 AM Rack 4, Tube 15

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.5225	2.0489	2.1750
Al 308.215	13637.5	13625.7	13711.5
As 188.980	26.8620	28.9070	33.9274
B 249.678	126.922	128.420	128.245
Ba 389.178	1085.80	1085.98	1087.22
Be 313.042	0.4420	0.4497	0.4404
Ca 370.602	16879	16851	16857
Cd 226.502	-0.0083	0.1408	-0.0289
Co 228.615	1.4877	2.0679	1.1662
Cr 267.716	21.6192	21.8520	22.0020
Cu 324.754	266.127	264.647	264.489
Fe 271.441	11961.0	11954.2	11946.3
K 766.491	7122.12	7107.88	7109.54
Mg 279.078	923.202	925.510	919.594
Mn 257.610	27.6571	27.5921	27.5486
Mo 202.032	3.4205	3.4026	2.6193
Na 330.237	92.3569u	68.7342u	220.959u
Ni 231.604	6.8773	7.5595	7.3936
Pb 220.353	4244.88	4250.67	4256.42
Sb 206.834	93.9091	95.1291	91.1124
Se 196.026	7.0913	-0.8077u	12.5073
Sn 189.925	541.053	537.813	540.767
Sr 216.596	102.799	102.434	102.374
Ti 334.941	1316.18	1316.17	1321.32
Tl 190.794	1.1179u	2.3478	5.8896
V 292.401	21.6559	21.4125	21.2866
Zn 206.200	65.2965	67.2079	65.5831

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.9155	ppb	0.3461	18.1	56.9942
Al 308.215	13658.2	ppb	46.5078	0.3	48986.1
As 188.980	29.8988	ppb	3.6356	12.2	24.7003
B 249.678	127.862	ppb	0.8188	0.6	1598.81
Ba 389.178	1086.33	ppb	0.7735	0.1	29713.2
Be 313.042	0.4440	ppb	0.0050	1.1	603.893
Ca 370.602	16863	ppb	14.70	0.1	65891
Cd 226.502	0.0345	ppb	0.0926	268.2	46.5550
Co 228.615	1.5739	ppb	0.4570	29.0	63.3858
Cr 267.716	21.8244	ppb	0.1929	0.9	1157.04
Cu 324.754	265.088	ppb	0.9034	0.3	13649.6
Fe 271.441	11953.9	ppb	7.3985	0.1	24559.2
K 766.491	7113.18	ppb	7.7872	0.1	382675
Mg 279.078	922.769	ppb	2.9820	0.3	2426.74
Mn 257.610	27.5993	ppb	0.0546	0.2	7971.53
Mo 202.032	3.1475	ppb	0.4575	14.5	35.7581
Na 330.237	127.350	ppb	81.9237	64.3	-10.7601
Ni 231.604	7.2768	ppb	0.3558	4.9	25.3573
Pb 220.353	4250.65	ppb	5.7703	0.1	9631.76
Sb 206.834	93.3836	ppb	2.0593	2.2	104.494
Se 196.026	6.2636	ppb	6.6960	106.9	4.9245
Sn 189.925	539.878	ppb	1.7940	0.3	546.245
Sr 216.596	102.536	ppb	0.2301	0.2	1387.34
Ti 334.941	1317.89	ppb	2.9697	0.2	381275
Tl 190.794	3.1184	ppb	2.4774	79.4	-1.1868
V 292.401	21.4517	ppb	0.1877	0.9	697.575
Zn 206.200	66.0292	ppb	1.0308	1.6	133.603

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

680-88915-a-3-b (Samp) 4/6/2013, 8:14:28 AM Rack 4, Tube 16

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	31.4583	30.8327	32.4705
Al 308.215	12877.7	12849.2	12807.0
As 188.980	112.270	119.344	114.939
B 249.678	65.5816	65.2071	65.8939
Ba 389.178	5389.12	5380.63	5382.44
Be 313.042	1.9525	1.9391	1.9356
Ca 370.602	32007	31921	31942
Cd 226.502	24.1970	23.9704	24.4325
Co 228.615	12.6686	12.3495	12.6026
Cr 267.716	52.1640	51.8941	51.5272
Cu 324.754	7021.52	6941.08	6974.88
Fe 271.441	101652	101171	101566
K 766.491	6641.85	6635.01	6651.90
Mg 279.078	4662.37	4646.60	4657.30
Mn 257.610	334.098	333.172	333.808
Mo 202.032	15.3394	15.1263	15.7562
Na 330.237	356.368u	237.457u	567.953u
Ni 231.604	40.1956	38.3263	38.4178
Pb 220.353	110743x	110119x	110267x
Sb 206.834	272.554	274.418	273.147
Se 196.026	5.3795	0.9253	5.0713
Sn 189.925	4292.57	4309.52	4321.30
Sr 216.596	406.404	405.432	404.397
Ti 334.941	1641.27	1639.07	1637.17
Tl 190.794	5.8817u	6.6571u	4.7864u
V 292.401	109.324	109.309	109.452
Zn 206.200	2887.07	2874.50	2878.16

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	31.5871b	ppb	0.8265	2.6	2489.53
Al 308.215	12844.7b	ppb	35.5734	0.3	46068.6
As 188.980	115.518b	ppb	3.5722	3.1	87.7671
B 249.678	65.5609b	ppb	0.3438	0.5	732.646
Ba 389.178	5384.06b	ppb	4.4737	0.1	147473
Be 313.042	1.9424b	ppb	0.0089	0.5	3725.93
Ca 370.602	31957b	ppb	45.06	0.1	116652
Cd 226.502	24.1999b	ppb	0.2311	1.0	1442.83
Co 228.615	12.5402b	ppb	0.1684	1.3	210.648
Cr 267.716	51.8618b	ppb	0.3196	0.6	2749.85
Cu 324.754	6979.16b	ppb	40.3866	0.6	362313
Fe 271.441	101463b	ppb	256.281	0.3	208457
K 766.491	6642.92b	ppb	8.4992	0.1	357390
Mg 279.078	4655.42b	ppb	8.0491	0.2	12181.5
Mn 257.610	333.693b	ppb	0.4738	0.1	92335.5
Mo 202.032	15.4073b	ppb	0.3204	2.1	134.935
Na 330.237	387.259b	ppb	167.399	43.2	-54.6824
Ni 231.604	38.9799b	ppb	1.0539	2.7	134.450
Pb 220.353	110376xb	ppb	326.448	0.3	250075
Sb 206.834	273.373b	ppb	0.9523	0.3	302.172
Se 196.026	3.7920b	ppb	2.4875	65.6	4.1852
Sn 189.925	4307.80b	ppb	14.4437	0.3	4370.53
Sr 216.596	405.411b	ppb	1.0032	0.2	5480.98
Ti 334.941	1639.17b	ppb	2.0475	0.1	474279
Tl 190.794	5.7751b	ppb	0.9399	16.3	-8.8349
V 292.401	109.362b	ppb	0.0786	0.1	3475.51
Zn 206.200	2879.91b	ppb	6.4648	0.2	5754.65

680-88915-a-4-b (Samp) 4/6/2013, 8:20:56 AM Rack 4, Tube 17

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.6193u	-2.3791u	-1.5256u
Al 308.215	73519.0	73942.5	74148.5
As 188.980	45.1512	40.8954	41.9261
B 249.678	3.3718u	2.7283u	3.0982u
Ba 389.178	569.587	569.557	569.959
Be 313.042	6.2626	6.2718	6.2799
Ca 370.602	17077	17058	17072
Cd 226.502	-1.1204	-1.0672	-1.2003
Co 228.615	120.590	120.493	119.155
Cr 267.716	144.345	145.001	145.027
Cu 324.754	698.130	694.129	697.395
Fe 271.441	272433	271698	270501
K 766.491	5390.37	5373.20	5375.92
Mg 279.078	3156.98	3158.73	3160.78
Mn 257.610	11261.7	11238.4	11211.1
Mo 202.032	5.1435	4.9093	4.7578
Na 330.237	954.477u	864.679u	988.019u
Ni 231.604	57.1920	59.2821	59.7928
Pb 220.353	308.540	310.043	306.320
Sb 206.834	1.0733	-0.0001	-2.6703
Se 196.026	-1.8597	1.2833	-0.1632
Sn 189.925	51.8410	49.9027	45.8350
Sr 216.596	51.0639	50.9149	51.7390
Ti 334.941	685.521	687.484	688.322
Tl 190.794	27.9900u	25.8062u	25.6389u
V 292.401	152.252	151.971	152.082
Zn 206.200	1480.93	1482.19	1482.11

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.8414	ppb	0.4681	25.4	-192.795
Al 308.215	73870.0	ppb	320.932	0.4	264916
As 188.980	42.6576	ppb	2.2202	5.2	31.0237
B 249.678	3.0661	ppb	0.3229	10.5	-234.182
Ba 389.178	569.701	ppb	0.2237	0.0	16021.6
Be 313.042	6.2714	ppb	0.0087	0.1	12865.1
Ca 370.602	17069	ppb	9.702	0.1	40487
Cd 226.502	-1.1293	ppb	0.0670	5.9	783.125
Co 228.615	120.080	ppb	0.8019	0.7	1598.24
Cr 267.716	144.791	ppb	0.3863	0.3	7697.87
Cu 324.754	696.551	ppb	2.1295	0.3	36132.9
Fe 271.441	271544	ppb	975.210	0.4	557903
K 766.491	5379.83	ppb	9.2271	0.2	289477
Mg 279.078	3158.83	ppb	1.8984	0.1	8073.21
Mn 257.610	11237.1	ppb	25.3339	0.2	3086277
Mo 202.032	4.9369	ppb	0.1943	3.9	35.3182
Na 330.237	935.725	ppb	63.7722	6.8	-60.8966
Ni 231.604	58.7556	ppb	1.3780	2.3	205.582
Pb 220.353	308.301	ppb	1.8728	0.6	702.099
Sb 206.834	-0.5323	ppb	1.9278	362.1	10.6934
Se 196.026	-0.2465	ppb	1.5731	638.1	6.2789
Sn 189.925	49.1929	ppb	3.0653	6.2	48.2124
Sr 216.596	51.2392	ppb	0.4392	0.9	833.614
Ti 334.941	687.109	ppb	1.4381	0.2	198774
Tl 190.794	26.4784	ppb	1.3118	5.0	-23.0224
V 292.401	152.102	ppb	0.1416	0.1	4803.80
Zn 206.200	1481.74	ppb	0.7079	0.0	2961.22

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

680-88915-a-5-b (Samp) 4/6/2013, 8:27:24 AM Rack 4, Tube 18

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.5195u	-1.6541u	-2.5137u
Al 308.215	160216	160011	159975
As 188.980	61.0611	49.6235	50.6821
B 249.678	9.9458u	8.2056u	10.9769u
Ba 389.178	2104.72	2101.08	2104.52
Be 313.042	15.2814	15.2651	15.3323
Ca 370.602	29616	29614	29637
Cd 226.502	-0.8653	-0.8696	-0.6573
Co 228.615	95.4310	94.6388	95.7815
Cr 267.716	234.885	234.078	234.867
Cu 324.754	60.3763	60.3666	59.9107
Fe 271.441	230454	230182	231242
K 766.491	15201.0	15207.5	15290.8
Mg 279.078	11227.1	11224.0	11230.5
Mn 257.610	8203.56	8185.51	8208.90
Mo 202.032	3.8383	4.5915	3.9430
Na 330.237	7604.78	7954.19	7612.37
Ni 231.604	123.612	122.139	124.920
Pb 220.353	197.427	198.741	196.316
Sb 206.834	4.2069	2.3660	-4.7977
Se 196.026	0.4093	-1.1721	-6.2927
Sn 189.925	17.0773	16.5810	16.8240
Sr 216.596	124.392	125.002	125.085
Ti 334.941	647.803	646.715	648.115
Tl 190.794	19.8658u	25.0509u	19.2619u
V 292.401	296.784	296.917	298.565
Zn 206.200	293.086	292.955	293.993

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.8958	ppb	0.5394	28.5	-214.977
Al 308.215	160067	ppb	130.083	0.1	574035
As 188.980	53.7889	ppb	6.3201	11.7	39.9825
B 249.678	9.7095	ppb	1.4007	14.4	-103.595
Ba 389.178	2103.44	ppb	2.0484	0.1	57944.7
Be 313.042	15.2929	ppb	0.0351	0.2	31864.3
Ca 370.602	29622	ppb	12.99	0.0	94277
Cd 226.502	-0.7974	ppb	0.1213	15.2	674.168
Co 228.615	95.2837	ppb	0.5854	0.6	1272.03
Cr 267.716	234.610	ppb	0.4610	0.2	12363.2
Cu 324.754	60.2179	ppb	0.2660	0.4	3076.32
Fe 271.441	230626	ppb	550.573	0.2	473836
K 766.491	15233.1	ppb	50.0486	0.3	819267
Mg 279.078	11227.2	ppb	3.2731	0.0	29150.0
Mn 257.610	8199.32	ppb	12.2552	0.1	2252241
Mo 202.032	4.1242	ppb	0.4080	9.9	30.4831
Na 330.237	7723.78	ppb	199.578	2.6	376.509
Ni 231.604	123.557	ppb	1.3912	1.1	422.606
Pb 220.353	197.494	ppb	1.2138	0.6	448.171
Sb 206.834	0.5917	ppb	4.7573	804.0	11.9396
Se 196.026	-2.3518	ppb	3.5033	149.0	3.8292
Sn 189.925	16.8274	ppb	0.2482	1.5	15.3734
Sr 216.596	124.826	ppb	0.3788	0.3	1796.25
Ti 334.941	647.545	ppb	0.7349	0.1	187360
Tl 190.794	21.3928	ppb	3.1823	14.9	-18.8564
V 292.401	297.422	ppb	0.9923	0.3	9386.79
Zn 206.200	293.345	ppb	0.5654	0.2	586.853

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

680-88915-a-6-b (Samp) 4/6/2013, 8:33:52 AM Rack 4, Tube 19

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.2921	-0.3578	-0.0399
Al 308.215	85904.7	85345.0	85805.5
As 188.980	75.0843	79.4085	70.7704
B 249.678	16.9854u	15.7183u	16.2500u
Ba 389.178	217.959	217.516	218.387
Be 313.042	2.7248	2.7213	2.7246
Ca 370.602	11958	11941	11932
Cd 226.502	-1.5105	-1.8935	-1.6605
Co 228.615	79.0801	78.1033	77.7557
Cr 267.716	173.540	173.909	174.955
Cu 324.754	59.8994	59.8734	60.8917
Fe 271.441	218823	218321	218634
K 766.491	7271.97	7262.44	7261.64
Mg 279.078	4541.17	4544.61	4553.20
Mn 257.610	7046.95	7029.34	7047.82
Mo 202.032	6.8563	6.8002	6.4635
Na 330.237	154.278u	414.234u	371.599u
Ni 231.604	37.4217	36.7088	37.1984
Pb 220.353	165.360	167.864	169.397
Sb 206.834	-14.2752u	-7.8155u	2.8998
Se 196.026	4.1633	7.9969	8.6760
Sn 189.925	12.0926	17.2853	15.6567
Sr 216.596	68.7951	68.2269	68.7306
Ti 334.941	725.946	727.890	730.835
Tl 190.794	18.1124u	17.2701u	18.4679u
V 292.401	251.527	250.338	251.710
Zn 206.200	176.531	171.397	174.359

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2299	ppb	0.1678	73.0	-81.3142
Al 308.215	85685.1	ppb	298.650	0.3	307286
As 188.980	75.0877	ppb	4.3190	5.8	55.8802
B 249.678	16.3179	ppb	0.6363	3.9	-8.5139
Ba 389.178	217.954	ppb	0.4356	0.2	6312.04
Be 313.042	2.7236	ppb	0.0020	0.1	5393.30
Ca 370.602	11943	ppb	12.99	0.1	25445
Cd 226.502	-1.6882	ppb	0.1930	11.4	595.814
Co 228.615	78.3131	ppb	0.6866	0.9	1050.79
Cr 267.716	174.135	ppb	0.7337	0.4	9195.81
Cu 324.754	60.2215	ppb	0.5806	1.0	3073.31
Fe 271.441	218592	ppb	253.499	0.1	449109
K 766.491	7265.35	ppb	5.7483	0.1	390857
Mg 279.078	4546.33	ppb	6.1970	0.1	11762.6
Mn 257.610	7041.37	ppb	10.4260	0.1	1934235
Mo 202.032	6.7067	ppb	0.2125	3.2	53.3601
Na 330.237	313.370	ppb	139.417	44.5	-68.6270
Ni 231.604	37.1096	ppb	0.3646	1.0	131.320
Pb 220.353	167.541	ppb	2.0381	1.2	381.642
Sb 206.834	-6.3970	ppb	8.6749	135.6	3.2842
Se 196.026	6.9454	ppb	2.4332	35.0	8.8997
Sn 189.925	15.0115	ppb	2.6558	17.7	13.5184
Sr 216.596	68.5842	ppb	0.3111	0.5	1038.01
Ti 334.941	728.224	ppb	2.4616	0.3	210673
Tl 190.794	17.9501	ppb	0.6151	3.4	-19.6742
V 292.401	251.192	ppb	0.7450	0.3	7932.14
Zn 206.200	174.095	ppb	2.5770	1.5	348.875

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

680-88915-a-7-b (Samp) 4/6/2013, 8:40:20 AM Rack 4, Tube 20

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1.2157	0.9960	0.9479
Al 308.215	47680.0	47476.4	47702.1
As 188.980	157.741	153.348	154.973
B 249.678	12.3542u	13.2055u	12.7425u
Ba 389.178	1108.07	1105.85	1107.34
Be 313.042	3.5447	3.5311	3.5357
Ca 370.602	984944x	979300x	979161x
Cd 226.502	27.0971	26.6612	26.7835
Co 228.615	98.7561	99.5975	100.369
Cr 267.716	910.589	905.493	908.078
Cu 324.754	1488.37	1484.83	1467.63
Fe 271.441	589690	585004	587845
K 766.491	13368.0	13324.1	13357.2
Mg 279.078	253686	253669	254024
Mn 257.610	18418.7	18285.3	18370.6
Mo 202.032	73.5849	72.2944	70.5142
Na 330.237	1095.52u	1205.52u	1356.46u
Ni 231.604	433.526	429.662	432.318
Pb 220.353	1444.60	1438.28	1442.32
Sb 206.834	42.3273	37.4737	40.1595
Se 196.026	-7.9278	-17.0890u	-7.0324
Sn 189.925	99.9104	98.0693	106.282
Sr 216.596	815.518	812.965	813.307
Ti 334.941	1697.44	1690.37	1694.72
Tl 190.794	30.7040u	29.7391u	31.6365u
V 292.401	162.380	160.569	160.467
Zn 206.200	4969.40	4952.55	4963.31

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.0532b	ppb	0.1428	13.6	36.5740
Al 308.215	47619.5b	ppb	124.399	0.3	170782
As 188.980	155.354b	ppb	2.2214	1.4	121.122
B 249.678	12.7674b	ppb	0.4262	3.3	-502.127
Ba 389.178	1107.09b	ppb	1.1320	0.1	32021.8
Be 313.042	3.5372b	ppb	0.0069	0.2	7444.80
Ca 370.602	981135xb	ppb	3300	0.3	3828480
Cd 226.502	26.8473b	ppb	0.2248	0.8	3048.53
Co 228.615	99.5741b	ppb	0.8065	0.8	1345.28
Cr 267.716	908.053b	ppb	2.5485	0.3	47677.9
Cu 324.754	1480.27b	ppb	11.0919	0.7	76928.5
Fe 271.441	587513b	ppb	2360.84	0.4	1207052
K 766.491	13349.8b	ppb	22.8646	0.2	718003
Mg 279.078	253793b	ppb	200.285	0.1	662046
Mn 257.610	18358.2b	ppb	67.5779	0.4	5044745
Mo 202.032	72.1312b	ppb	1.5418	2.1	590.313
Na 330.237	1219.17b	ppb	131.003	10.7	-196.205
Ni 231.604	431.835b	ppb	1.9766	0.5	1469.60
Pb 220.353	1441.73b	ppb	3.2004	0.2	3271.98
Sb 206.834	39.9869b	ppb	2.4314	6.1	69.4607
Se 196.026	-10.6831b	ppb	5.5657	52.1	4.4813
Sn 189.925	101.421b	ppb	4.3098	4.2	101.702
Sr 216.596	813.930b	ppb	1.3856	0.2	11296.7
Ti 334.941	1694.17b	ppb	3.5677	0.2	491400
Tl 190.794	30.6932b	ppb	0.9488	3.1	-68.5487
V 292.401	161.139b	ppb	1.0761	0.7	5041.40
Zn 206.200	4961.75b	ppb	8.5306	0.2	9910.07

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680-88915-a-8-b (Samp) **4/6/2013, 8:46:47 AM** **Rack 4, Tube 21**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	53.0794	52.3187	52.7990
Al 308.215	68739.8	69059.9	69819.4
As 188.980	798.716	790.526	787.315
B 249.678	50.3613	51.1734	50.4235
Ba 389.178	1903.62	1898.68	1905.72
Be 313.042	4.9832	4.9690	4.9960
Ca 370.602	1171386x	1170781x	1179870x
Cd 226.502	18.0557	17.2655	17.4299
Co 228.615	81.5292	81.2297	83.0584
Cr 267.716	653.891	655.684	660.373
Cu 324.754	32376.6	31441.5	31771.9
Fe 271.441	436593	436373	436508
K 766.491	9828.54	10140.5	9770.51
Mg 279.078	128013	128009	128552
Mn 257.610	4619.75	4601.41	4617.18
Mo 202.032	21.5227	20.6721	21.3269
Na 330.237	1125.44u	1072.24u	828.934u
Ni 231.604	240.633	242.020	241.447
Pb 220.353	291490x	290943x	293733x
Sb 206.834	27759.3x	27778.3x	27983.7x
Se 196.026	-4.4546	15.6394	1.8418
Sn 189.925	15616.8x	15645.6x	15660.4x
Sr 216.596	1023.84	1023.68	1031.92
Ti 334.941	1165.06	1167.69	1174.35
Tl 190.794	6.2134u	10.0151u	9.0380u
V 292.401	146.312	145.853	146.760
Zn 206.200	4713.57	4705.92	4725.70

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.7324b	ppb	0.3847	0.7	4217.85
Al 308.215	69206.4b	ppb	554.506	0.8	248193
As 188.980	792.185b	ppb	5.8790	0.7	601.221
B 249.678	50.6527b	ppb	0.4520	0.9	143.111
Ba 389.178	1902.67b	ppb	3.6098	0.2	53153.9
Be 313.042	4.9827b	ppb	0.0135	0.3	10507.3
Ca 370.602	1174012xb	ppb	5082	0.4	4607540
Cd 226.502	17.5837b	ppb	0.4170	2.4	2160.04
Co 228.615	81.9391b	ppb	0.9808	1.2	1092.20
Cr 267.716	656.649b	ppb	3.3471	0.5	34442.3
Cu 324.754	31863.3b	ppb	474.195	1.5	1654558
Fe 271.441	436491b	ppb	110.831	0.0	896777
K 766.491	9913.19b	ppb	198.993	2.0	533226
Mg 279.078	128191b	ppb	312.532	0.2	334521
Mn 257.610	4612.78b	ppb	9.9335	0.2	1269405
Mo 202.032	21.1739b	ppb	0.4455	2.1	164.203
Na 330.237	1008.87b	ppb	158.084	15.7	-148.143
Ni 231.604	241.366b	ppb	0.6969	0.3	824.548
Pb 220.353	292055xb	ppb	1478.11	0.5	661697
Sb 206.834	27840.4xb	ppb	124.434	0.4	30109.6
Se 196.026	4.3422b	ppb	10.2777	236.7	8.1664
Sn 189.925	15640.9xb	ppb	22.2012	0.1	15873.8
Sr 216.596	1026.48b	ppb	4.7140	0.5	14090.2
Ti 334.941	1169.03b	ppb	4.7893	0.4	338834
Tl 190.794	8.4222b	ppb	1.9742	23.4	-52.9744
V 292.401	146.308b	ppb	0.4534	0.3	4591.47
Zn 206.200	4715.06b	ppb	9.9730	0.2	9418.25

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

680-88915-a-9-b (Samp) 4/6/2013, 8:53:15 AM Rack 4, Tube 22

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	4.8652	4.3426	4.0828
Al 308.215	37534.3	37532.7	37317.6
As 188.980	1084.37	1080.37	1083.61
B 249.678	73.4142u	77.9502u	80.0962u
Ba 389.178	2268.10	2265.82	2268.65
Be 313.042	5.5156	5.5087	5.5104
Ca 370.602	168399	169374	168550
Cd 226.502	32.6018	32.4636	33.8395
Co 228.615	216.932	218.994	219.355
Cr 267.716	309.076	308.984	308.115
Cu 324.754	5228.07	5233.73	5143.99
Fe 271.441	1823462x	1822951x	1823330x
K 766.491	5486.59	5501.12	5497.50
Mg 279.078	21813.3	21792.3	21745.7
Mn 257.610	11545.0	11556.0	11547.2
Mo 202.032	39.3863	39.1768	39.1802
Na 330.237	803.695u	643.149u	862.289u
Ni 231.604	389.120	380.440	387.801
Pb 220.353	17805.0	17755.3	17746.4
Sb 206.834	670.913	667.241	662.991
Se 196.026	0.1354	-14.9540	-12.1019
Sn 189.925	653.548	650.911	651.247
Sr 216.596	807.568	809.156	803.786
Ti 334.941	1888.15	1892.22	1886.24
Tl 190.794	-11.8747u	-12.5966u	-21.1996u
V 292.401	554.132	554.539	553.438
Zn 206.200	9450.19	9445.54	9459.48

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	4.4302b	ppb	0.3985	9.0	283.325
Al 308.215	37461.5b	ppb	124.653	0.3	134346
As 188.980	1082.79b	ppb	2.1230	0.2	791.088
B 249.678	77.1535b	ppb	3.4115	4.4	-1226.54
Ba 389.178	2267.52b	ppb	1.5020	0.1	65153.1
Be 313.042	5.5116b	ppb	0.0036	0.1	11259.9
Ca 370.602	168774b	ppb	524.7	0.3	483654
Cd 226.502	32.9683b	ppb	0.7576	2.3	7090.29
Co 228.615	218.427b	ppb	1.3073	0.6	2868.91
Cr 267.716	308.725b	ppb	0.5300	0.2	16659.9
Cu 324.754	5201.93b	ppb	50.2575	1.0	270558
Fe 271.441	1823248xb	ppb	265.372	0.0	3745862
K 766.491	5495.07b	ppb	7.5600	0.1	295673
Mg 279.078	21783.8b	ppb	34.6073	0.2	57031.8
Mn 257.610	11549.4b	ppb	5.8249	0.1	3177281
Mo 202.032	39.2478b	ppb	0.1200	0.3	235.224
Na 330.237	769.711b	ppb	113.454	14.7	-704.814
Ni 231.604	385.787b	ppb	4.6773	1.2	1347.68
Pb 220.353	17768.9b	ppb	31.5492	0.2	40261.7
Sb 206.834	667.048b	ppb	3.9644	0.6	772.005
Se 196.026	-8.9735b	ppb	8.0164	89.3	12.1694
Sn 189.925	651.902b	ppb	1.4354	0.2	659.967
Sr 216.596	806.837b	ppb	2.7587	0.3	11734.2
Ti 334.941	1888.87b	ppb	3.0541	0.2	546825
Tl 190.794	-15.2236b	ppb	5.1879	34.1	-259.544
V 292.401	554.036b	ppb	0.5569	0.1	17504.8
Zn 206.200	9451.73b	ppb	7.0961	0.1	18881.9

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

680-88915-a-10-b (Samp) 4/6/2013, 8:59:43 AM Rack 4, Tube 23

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.3168	-0.8222	-0.8652
Al 308.215	88367.2	87816.4	88555.4
As 188.980	108.968	109.490	109.315
B 249.678	-2.5012u	-2.6032u	-4.0596u
Ba 389.178	314.093	313.736	313.235
Be 313.042	4.6985	4.7018	4.7110
Ca 370.602	13608	13616	13584
Cd 226.502	-2.0261	-2.0046	-2.1026
Co 228.615	192.138	190.196	194.703
Cr 267.716	311.687	311.223	312.584
Cu 324.754	76.5134	76.2792	75.6379
Fe 271.441	340321	339097	339505
K 766.491	6750.30	6725.20	6727.68
Mg 279.078	4512.13	4513.26	4545.42
Mn 257.610	17097.3	17099.5	17116.8
Mo 202.032	10.4636	9.8013	11.0071
Na 330.237	278.504u	144.158u	361.694u
Ni 231.604	46.8186	49.6989	48.2525
Pb 220.353	326.321	327.764	325.624
Sb 206.834	11.5137	8.0345	9.6670
Se 196.026	2.7614	-0.2304	1.5074
Sn 189.925	16.0437	17.1256	15.9147
Sr 216.596	82.7863	81.9143	83.4846
Ti 334.941	769.157	765.518	770.139
Tl 190.794	39.3045u	37.3244u	38.2314u
V 292.401	325.389	325.074	325.534
Zn 206.200	342.958	344.641	344.914

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6681	ppb	0.3050	45.6	-66.7567
Al 308.215	88246.3	ppb	384.080	0.4	316471
As 188.980	109.258	ppb	0.2656	0.2	79.9492
B 249.678	-3.0546	ppb	0.8718	28.5	-391.243
Ba 389.178	313.688	ppb	0.4310	0.1	9135.21
Be 313.042	4.7038	ppb	0.0065	0.1	9553.60
Ca 370.602	13603	ppb	16.64	0.1	20067
Cd 226.502	-2.0444	ppb	0.0515	2.5	947.110
Co 228.615	192.346	ppb	2.2607	1.2	2551.55
Cr 267.716	311.831	ppb	0.6918	0.2	16465.9
Cu 324.754	76.1435	ppb	0.4533	0.6	3936.81
Fe 271.441	339641	ppb	623.189	0.2	697822
K 766.491	6734.39	ppb	13.8304	0.2	362309
Mg 279.078	4523.60	ppb	18.9008	0.4	11527.1
Mn 257.610	17104.5	ppb	10.6469	0.1	4697356
Mo 202.032	10.4240	ppb	0.6039	5.8	77.7608
Na 330.237	261.452	ppb	109.766	42.0	-116.653
Ni 231.604	48.2567	ppb	1.4402	3.0	172.068
Pb 220.353	326.570	ppb	1.0918	0.3	744.820
Sb 206.834	9.7384	ppb	1.7407	17.9	25.1690
Se 196.026	1.3462	ppb	1.5024	111.6	9.4639
Sn 189.925	16.3613	ppb	0.6650	4.1	14.8857
Sr 216.596	82.7284	ppb	0.7868	1.0	1288.58
Ti 334.941	768.271	ppb	2.4343	0.3	222277
Tl 190.794	38.2868	ppb	0.9912	2.6	-26.8794
V 292.401	325.332	ppb	0.2350	0.1	10264.2
Zn 206.200	344.171	ppb	1.0594	0.3	688.075

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

680-88915-a-11-b (Samp) 4/6/2013, 9:06:11 AM Rack 4, Tube 24

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-4.1161u	-3.3743u	-3.8424u
Al 308.215	112471	112442	112440
As 188.980	116.851	116.944	114.795
B 249.678	-21.9183u	-21.1067u	-21.9794u
Ba 389.178	1188.43	1190.31	1192.77
Be 313.042	38.5802	38.5875	38.5228
Ca 370.602	29264	29357	29586
Cd 226.502	-1.4218	-1.1852	-1.1750
Co 228.615	228.901	230.628	229.804
Cr 267.716	191.417	192.042	191.826
Cu 324.754	225.415	229.784	232.248
Fe 271.441	361476	362375	362740
K 766.491	10165.1	10180.5	10206.9
Mg 279.078	7932.54	7951.63	7984.95
Mn 257.610	14882.9	14910.4	14918.8
Mo 202.032	4.2670	4.8913	4.3255
Na 330.237	361.550u	389.569u	344.712u
Ni 231.604	404.737	403.153	402.599
Pb 220.353	404.169	421.457	467.325
Sb 206.834	1.6143	1.4300	4.5815
Se 196.026	-6.8366	-5.8335	-12.7799u
Sn 189.925	16.9759	16.8558	22.0577
Sr 216.596	80.0980	79.9332	81.3483
Ti 334.941	809.344	810.797	812.277
Tl 190.794	36.9992u	34.5036u	33.4627u
V 292.401	320.172	321.216	321.574
Zn 206.200	1096.36	1102.26	1102.37

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.7776	ppb	0.3751	9.9	-334.172
Al 308.215	112451	ppb	17.1303	0.0	403273
As 188.980	116.197	ppb	1.2147	1.0	85.0129
B 249.678	-21.6681	ppb	0.4872	2.2	-645.479
Ba 389.178	1190.50	ppb	2.1736	0.2	33176.4
Be 313.042	38.5635	ppb	0.0355	0.1	80844.5
Ca 370.602	29402	ppb	165.9	0.6	80250
Cd 226.502	-1.2607	ppb	0.1396	11.1	1053.66
Co 228.615	229.778	ppb	0.8636	0.4	3045.13
Cr 267.716	191.762	ppb	0.3174	0.2	10190.9
Cu 324.754	229.149	ppb	3.4606	1.5	11888.8
Fe 271.441	362197	ppb	650.433	0.2	744171
K 766.491	10184.1	ppb	21.1078	0.2	547794
Mg 279.078	7956.38	ppb	26.5251	0.3	20526.3
Mn 257.610	14904.0	ppb	18.7710	0.1	4093347
Mo 202.032	4.4946	ppb	0.3448	7.7	25.7670
Na 330.237	365.277	ppb	22.6593	6.2	-125.534
Ni 231.604	403.496	ppb	1.1095	0.3	1368.22
Pb 220.353	430.984	ppb	32.6379	7.6	980.164
Sb 206.834	2.5419	ppb	1.7687	69.6	17.0414
Se 196.026	-8.4834	ppb	3.7546	44.3	3.1478
Sn 189.925	18.6298	ppb	2.9692	15.9	17.1954
Sr 216.596	80.4598	ppb	0.7739	1.0	1264.76
Ti 334.941	810.806	ppb	1.4665	0.2	234605
Tl 190.794	34.9885	ppb	1.8174	5.2	-29.6142
V 292.401	320.987	ppb	0.7284	0.2	10137.7
Zn 206.200	1100.33	ppb	3.4360	0.3	2199.11

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

Cont Calib Verif (CCV) 4/6/2013, 9:12:39 AM Rack 4, Tube 25
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	502.957	502.854	502.830
Al 308.215	4988.21	5052.13	5074.81
As 188.980	485.853	487.238	486.470
B 249.678	498.236	506.011	511.239
Ba 389.178	4740.07	4795.58	4807.03
Be 313.042	473.657	477.806	478.588
Ca 370.602	4879	4956	4981
Cd 226.502	466.782	473.041	474.162
Co 228.615	476.168	483.896	484.869
Cr 267.716	4788.89	4829.47	4852.21
Cu 324.754	4796.90	4804.76	4745.18
Fe 271.441	5153.38	5375.96	5467.36
K 766.491	9836.65	9960.63	9929.69
Mg 279.078	4790.93	4854.30	4878.37
Mn 257.610	4740.49	4796.92	4821.27
Mo 202.032	480.784	489.906	491.139
Na 330.237	7027.37	7154.45	7012.97
Ni 231.604	2349.10	2391.02	2367.03
Pb 220.353	487.298	498.664	505.911
Sb 206.834	961.554	977.658	983.120
Se 196.026	4748.07	4790.13	4818.85
Sn 189.925	4926.06	4926.44	4880.72
Sr 216.596	2344.67	2365.24	2373.83
Ti 334.941	490.045	494.092	495.369
Tl 190.794	4875.70	4924.14	4953.75
V 292.401	4794.02	4851.74	4862.69
Zn 206.200	2350.02	2382.47	2396.41

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	502.880	ppb	0.0674	0.0	41299.5	100.57610
Al 308.215	5038.38	ppb	44.9058	0.9	18061.0	100.76761
As 188.980	486.520	ppb	0.6940	0.1	365.966	97.30408
B 249.678	505.162	ppb	6.5427	1.3	6190.95	20.20648Q
Ba 389.178	4780.89	ppb	35.8121	0.7	130822	95.61785
Be 313.042	476.684	ppb	2.6500	0.6	1002899	95.33675
Ca 370.602	4939	ppb	53.15	1.1	19354	98.77489
Cd 226.502	471.328	ppb	3.9771	0.8	21899.5	94.26563
Co 228.615	481.644	ppb	4.7677	1.0	6366.17	96.32885
Cr 267.716	4823.52	ppb	32.0776	0.7	251898	96.47041
Cu 324.754	4782.28	ppb	32.3683	0.7	248172	95.64557
Fe 271.441	5332.23	ppb	161.489	3.0	11098.0	106.64467
K 766.491	9908.99	ppb	64.5314	0.7	533000	99.08990
Mg 279.078	4841.20	ppb	45.1719	0.9	12557.5	96.82398
Mn 257.610	4786.23	ppb	41.4349	0.9	1314416	95.72453
Mo 202.032	487.276	ppb	5.6562	1.2	4159.66	97.45519
Na 330.237	7064.93	ppb	77.8603	1.1	399.849	94.19904
Ni 231.604	2369.05	ppb	21.0327	0.9	7973.48	94.76208
Pb 220.353	497.291	ppb	9.3822	1.9	1129.05	99.45811
Sb 206.834	974.111	ppb	11.2121	1.2	1105.06	97.41106
Se 196.026	4785.68	ppb	35.6022	0.7	2836.48	95.71363
Sn 189.925	4911.07	ppb	26.2859	0.5	4982.83	98.22146
Sr 216.596	2361.25	ppb	14.9814	0.6	31491.8	94.44987
Ti 334.941	493.169	ppb	2.7798	0.6	142621	98.63374
Tl 190.794	4917.87	ppb	39.4026	0.8	6316.74	98.35731
V 292.401	4836.15	ppb	36.8927	0.8	152321	96.72301
Zn 206.200	2376.30	ppb	23.8950	1.0	4729.77	95.05197

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

Cont Calib Blank (CCB) 4/6/2013, 9:19:18 AM Rack 4, Tube 26

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.9710	0.7722	0.2872
Al 308.215	8.3011	12.5561	12.3049
As 188.980	-6.7262u	-6.0189u	-5.5271u
B 249.678	9.0458	7.9281	7.6898
Ba 389.178	1.8603	1.2305	3.1109
Be 313.042	0.1164	0.1518	0.1756
Ca 370.602	21.02	19.94	24.73
Cd 226.502	0.1481	0.2837	0.2062
Co 228.615	-0.4826u	0.3493	-0.4477u
Cr 267.716	0.7437	1.3691	1.1543
Cu 324.754	1.4989	1.5553	2.8438
Fe 271.441	38.6535	47.2126	57.9752
K 766.491	6.0847	6.4380	6.7074
Mg 279.078	0.4813	3.7655	4.5695
Mn 257.610	1.4346	2.0573	2.6675
Mo 202.032	0.1042	0.3881	0.4687
Na 330.237	-73.3875u	-91.9145u	87.6866
Ni 231.604	0.9098	0.3356	1.8807
Pb 220.353	4.2816	0.6256	3.9452
Sb 206.834	0.0781	6.3081	2.7024
Se 196.026	5.3351	0.0647	5.9097
Sn 189.925	0.9119	3.0005	1.8454
Sr 216.596	0.8135	0.7286	1.3267
Ti 334.941	0.4455	0.4542	0.4799
Tl 190.794	5.6106	4.9735	7.0460
V 292.401	1.5227	1.4325	2.0058
Zn 206.200	1.6585	0.2027	1.8327

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.6768	ppb	0.3517	52.0	-40.2902	0.67679
Al 308.215	11.0540	ppb	2.3874	21.6	44.7063	11.05405
As 188.980	-6.0907	ppb	0.6028	9.9	-2.2353	-6.09075
B 249.678	8.2212	ppb	0.7240	8.8	159.708	8.22121
Ba 389.178	2.0672	ppb	0.9571	46.3	21.8539	2.06723
Be 313.042	0.1479	ppb	0.0298	20.2	-23.7848	0.14794
Ca 370.602	21.90	ppb	2.512	11.5	76.70	21.89614
Cd 226.502	0.2127	ppb	0.0680	32.0	18.4502	0.21267
Co 228.615	-0.1937	ppb	0.4706	243.0	1.9096	-0.19367
Cr 267.716	1.0890	ppb	0.3178	29.2	68.2227	1.08903
Cu 324.754	1.9660	ppb	0.7607	38.7	-16.9006	1.96599
Fe 271.441	47.9471	ppb	9.6817	20.2	97.6353	47.94708Z
K 766.491	6.4100	ppb	0.3123	4.9	559.095	6.41002
Mg 279.078	2.9388	ppb	2.1659	73.7	28.9711	2.93878
Mn 257.610	2.0531	ppb	0.6164	30.0	910.018	2.05313
Mo 202.032	0.3203	ppb	0.1915	59.8	12.3692	0.32033
Na 330.237	-25.8718	ppb	98.7798	381.8	-3.1956	-25.87181
Ni 231.604	1.0420	ppb	0.7810	74.9	4.0498	1.04204
Pb 220.353	2.9508	ppb	2.0207	68.5	9.2183	2.95081
Sb 206.834	3.0295	ppb	3.1279	103.2	6.2559	3.02953
Se 196.026	3.7698	ppb	3.2216	85.5	3.3560	3.76984
Sn 189.925	1.9193	ppb	1.0462	54.5	0.2304	1.91927
Sr 216.596	0.9563	ppb	0.3236	33.8	22.0299	0.95626
Ti 334.941	0.4599	ppb	0.0179	3.9	11.8242	0.45986
Tl 190.794	5.8767	ppb	1.0615	18.1	3.7977	5.87669
V 292.401	1.6537	ppb	0.3082	18.6	50.3838	1.65366
Zn 206.200	1.2313	ppb	0.8950	72.7	4.2409	1.23129

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

680-88915-a-12-d (Samp) 4/6/2013, 9:25:47 AM Rack 4, Tube 27

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-3.7358u	-3.4724u	-3.5118u
Al 308.215	99127.3	98138.9	98137.7
As 188.980	171.562	171.801	173.025
B 249.678	-32.8887u	-32.4510u	-30.6238u
Ba 389.178	857.674	854.509	855.777
Be 313.042	18.3969	18.2970	18.2909
Ca 370.602	30239	30229	30197
Cd 226.502	-1.6292	-1.4312	-1.2450
Co 228.615	179.358	177.893	180.298
Cr 267.716	219.206	217.949	218.033
Cu 324.754	268.210	266.321	265.353
Fe 271.441	420147	419336	420070
K 766.491	8758.56	8722.61	8704.02
Mg 279.078	7648.58	7631.41	7642.93
Mn 257.610	10601.1	10587.7	10574.1
Mo 202.032	3.6100	3.5375	3.0295
Na 330.237	608.272u	362.692u	276.533u
Ni 231.604	268.809	266.498	267.113
Pb 220.353	477.034	475.728	472.992
Sb 206.834	-4.1068	0.0031	-8.2491
Se 196.026	-15.7376u	-3.2479	-7.4744
Sn 189.925	16.7279	14.8437	14.0404
Sr 216.596	53.9079	53.3050	52.7871
Ti 334.941	655.399	651.054	649.627
Tl 190.794	20.4387u	22.3640u	23.6199u
V 292.401	339.769	338.521	339.848
Zn 206.200	1228.78	1218.83	1221.81

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-3.5733	ppb	0.1421	4.0	-338.372
Al 308.215	98468.0	ppb	570.991	0.6	353127
As 188.980	172.129	ppb	0.7847	0.5	126.141
B 249.678	-31.9878	ppb	1.2014	3.8	-840.459
Ba 389.178	855.987	ppb	1.5932	0.2	24118.6
Be 313.042	18.3283	ppb	0.0595	0.3	38244.0
Ca 370.602	30221	ppb	21.99	0.1	77490
Cd 226.502	-1.4351	ppb	0.1921	13.4	1219.28
Co 228.615	179.183	ppb	1.2121	0.7	2371.24
Cr 267.716	218.396	ppb	0.7030	0.3	11575.3
Cu 324.754	266.628	ppb	1.4528	0.5	13852.4
Fe 271.441	419851	ppb	447.884	0.1	862609
K 766.491	8728.39	ppb	27.7262	0.3	469522
Mg 279.078	7640.97	ppb	8.7501	0.1	19807.7
Mn 257.610	10587.6	ppb	13.4824	0.1	2908511
Mo 202.032	3.3923	ppb	0.3163	9.3	12.9229
Na 330.237	415.833	ppb	172.135	41.4	-142.500
Ni 231.604	267.474	ppb	1.1969	0.4	911.968
Pb 220.353	475.251	ppb	2.0628	0.4	1079.59
Sb 206.834	-4.1176	ppb	4.1261	100.2	11.3921
Se 196.026	-8.8200	ppb	6.3527	72.0	2.0492
Sn 189.925	15.2040	ppb	1.3795	9.1	13.7171
Sr 216.596	53.3334	ppb	0.5610	1.1	934.520
Ti 334.941	652.027	ppb	3.0060	0.5	188661
Tl 190.794	22.1409	ppb	1.6023	7.2	-44.5827
V 292.401	339.379	ppb	0.7444	0.2	10714.2
Zn 206.200	1223.14	ppb	5.1061	0.4	2444.33

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

680-88915-a-12-e ms (Samp) 4/6/2013, 9:32:15 AM Rack 4, Tube 28

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	7.6987	8.4789	7.1202
Al 308.215	120194	118109	119246
As 188.980	234.278	220.583	229.526
B 249.678	29.4527u	29.4316u	30.6819u
Ba 389.178	899.355	880.072	888.916
Be 313.042	61.8237	60.5133	61.1234
Ca 370.602	39146	38510	38771
Cd 226.502	37.9622	36.2445	36.9117
Co 228.615	164.939	161.263	162.228
Cr 267.716	314.200	308.168	310.838
Cu 324.754	292.146	284.185	287.801
Fe 271.441	446440	435660	441410
K 766.491	12220.3	11970.6	12099.6
Mg 279.078	11904.0	11636.6	11752.0
Mn 257.610	9279.49	9067.37	9183.05
Mo 202.032	79.6793	77.9573	79.0009
Na 330.237	4114.73	4230.06	4114.40
Ni 231.604	353.267	343.251	345.090
Pb 220.353	345.620	338.753	344.186
Sb 206.834	13.8394	11.8605	15.3185
Se 196.026	62.7353	61.0318	60.0249
Sn 189.925	154.160	160.148	157.040
Sr 216.596	138.912	136.447	137.296
Ti 334.941	733.347	719.122	727.992
Tl 190.794	46.5534u	46.6612u	43.9922u
V 292.401	391.537	383.500	387.980
Zn 206.200	995.831	974.641	981.769

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	7.7659	ppb	0.6818	8.8	585.365
Al 308.215	119183	ppb	1044.03	0.9	427420
As 188.980	228.129	ppb	6.9536	3.0	167.809
B 249.678	29.8554	ppb	0.7159	2.4	-115.409
Ba 389.178	889.448	ppb	9.6526	1.1	25083.7
Be 313.042	61.1535	ppb	0.6557	1.1	128389
Ca 370.602	38809	ppb	319.8	0.8	109279
Cd 226.502	37.0395	ppb	0.8660	2.3	3070.71
Co 228.615	162.810	ppb	1.9058	1.2	2153.89
Cr 267.716	311.069	ppb	3.0228	1.0	16413.7
Cu 324.754	288.044	ppb	3.9863	1.4	14972.8
Fe 271.441	441170	ppb	5394.09	1.2	906406
K 766.491	12096.8	ppb	124.887	1.0	650635
Mg 279.078	11764.2	ppb	134.120	1.1	30593.6
Mn 257.610	9176.64	ppb	106.204	1.2	2521246
Mo 202.032	78.8792	ppb	0.8674	1.1	656.157
Na 330.237	4153.06	ppb	66.6847	1.6	78.0958
Ni 231.604	347.203	ppb	5.3315	1.5	1180.87
Pb 220.353	342.853	ppb	3.6225	1.1	778.550
Sb 206.834	13.6728	ppb	1.7350	12.7	31.3993
Se 196.026	61.2640	ppb	1.3700	2.2	43.2793
Sn 189.925	157.116	ppb	2.9948	1.9	157.757
Sr 216.596	137.552	ppb	1.2521	0.9	2066.83
Ti 334.941	726.820	ppb	7.1845	1.0	210328
Tl 190.794	45.7356	ppb	1.5108	3.3	-14.0958
V 292.401	387.672	ppb	4.0271	1.0	12217.1
Zn 206.200	984.080	ppb	10.7823	1.1	1966.41

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

680-88915-a-12-f msd (Samp) 4/6/2013, 9:38:43 AM Rack 4, Tube 29

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	47.2490	46.6970	46.8156
Al 308.215	117249	117616	116718
As 188.980	201.930	200.507	199.622
B 249.678	35.8666u	35.0392u	37.0043u
Ba 389.178	875.449	876.788	877.444
Be 313.042	58.3660	58.4719	58.3423
Ca 370.602	39037	39026	39020
Cd 226.502	37.8434	37.7200	38.0594
Co 228.615	147.697	148.778	148.964
Cr 267.716	294.411	295.009	293.418
Cu 324.754	253.802	252.180	252.622
Fe 271.441	378355	379115	379426
K 766.491	12201.3	12221.6	12225.3
Mg 279.078	11672.1	11684.3	11665.1
Mn 257.610	7424.69	7423.50	7424.13
Mo 202.032	77.4501	77.0616	78.0380
Na 330.237	4210.60	4325.38	4221.58
Ni 231.604	315.981	317.612	316.138
Pb 220.353	278.955	284.412	283.072
Sb 206.834	15.0091	13.3507	14.2459
Se 196.026	75.0525	60.1175	67.7077
Sn 189.925	160.707	156.502	155.672
Sr 216.596	138.917	139.017	139.044
Ti 334.941	668.467	669.477	667.033
Tl 190.794	41.7437u	45.1838u	41.0432u
V 292.401	341.666	341.591	341.748
Zn 206.200	844.755	851.044	849.265

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	46.9205	ppb	0.2906	0.6	3804.10
Al 308.215	117194	ppb	451.453	0.4	420290
As 188.980	200.686	ppb	1.1644	0.6	148.064
B 249.678	35.9700	ppb	0.9866	2.7	34.8131
Ba 389.178	876.560	ppb	1.0169	0.1	24625.7
Be 313.042	58.3934	ppb	0.0690	0.1	122582
Ca 370.602	39028	ppb	8.740	0.0	116419
Cd 226.502	37.8743	ppb	0.1718	0.5	2919.91
Co 228.615	148.480	ppb	0.6839	0.5	1965.58
Cr 267.716	294.279	ppb	0.8040	0.3	15512.7
Cu 324.754	252.868	ppb	0.8389	0.3	13127.5
Fe 271.441	378965	ppb	551.108	0.1	778605
K 766.491	12216.1	ppb	12.9268	0.1	657047
Mg 279.078	11673.8	ppb	9.6882	0.1	30379.8
Mn 257.610	7424.11	ppb	0.5980	0.0	2039905
Mo 202.032	77.5166	ppb	0.4916	0.6	648.322
Na 330.237	4252.52	ppb	63.3350	1.5	108.037
Ni 231.604	316.577	ppb	0.9000	0.3	1076.14
Pb 220.353	282.146	ppb	2.8438	1.0	640.582
Sb 206.834	14.2019	ppb	0.8301	5.8	30.2368
Se 196.026	67.6259	ppb	7.4679	11.0	46.0792
Sn 189.925	157.627	ppb	2.6996	1.7	158.278
Sr 216.596	138.992	ppb	0.0669	0.0	2054.98
Ti 334.941	668.326	ppb	1.2281	0.2	193392
Tl 190.794	42.6569	ppb	2.2162	5.2	-7.4103
V 292.401	341.669	ppb	0.0783	0.0	10764.2
Zn 206.200	848.355	ppb	3.2416	0.4	1695.34

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

680-88915-a-13-b (Samp) 4/6/2013, 9:45:11 AM Rack 4, Tube 30

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-0.8799u	-0.7641u	-1.1497u
Al 308.215	110802	111836	112459
As 188.980	67.9969	73.3957	72.4743
B 249.678	-1.1680u	-3.9758u	-2.4676u
Ba 389.178	793.551	790.911	794.046
Be 313.042	11.8067	11.8214	11.8863
Ca 370.602	1057055x	1059633x	1068114x
Cd 226.502	0.2411	0.0830	0.2233
Co 228.615	60.5194	58.8830	59.9764
Cr 267.716	158.763	159.618	160.845
Cu 324.754	220.269	220.051	222.609
Fe 271.441	229789	229713	230331
K 766.491	12610.7	12552.2	12587.6
Mg 279.078	12532.1	12492.3	12579.9
Mn 257.610	2546.71	2550.86	2562.85
Mo 202.032	3.1047	3.9204	4.1869
Na 330.237	833.380u	842.417u	871.672u
Ni 231.604	132.160	125.837	129.473
Pb 220.353	387.438	385.191	396.206
Sb 206.834	-3.2091	-5.2097	0.0730
Se 196.026	-5.5161u	-2.9348	-20.2758u
Sn 189.925	10.0990	7.6452	12.3063
Sr 216.596	570.714	576.219	577.894
Ti 334.941	644.685	647.597	651.468
Tl 190.794	2.4749u	0.8221u	-1.4186u
V 292.401	232.525	232.046	232.942
Zn 206.200	500.370	497.866	500.570

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9312b	ppb	0.1978	21.2	-189.929
Al 308.215	111699b	ppb	837.430	0.7	400578
As 188.980	71.2890b	ppb	2.8880	4.1	63.5302
B 249.678	-2.5371b	ppb	1.4052	55.4	-251.324
Ba 389.178	792.836b	ppb	1.6857	0.2	22085.6
Be 313.042	11.8381b	ppb	0.0424	0.4	24988.6
Ca 370.602	1061601xb	ppb	5786	0.5	4183005
Cd 226.502	0.1824b	ppb	0.0866	47.5	717.042
Co 228.615	59.7929b	ppb	0.8335	1.4	803.664
Cr 267.716	159.742b	ppb	1.0467	0.7	8425.86
Cu 324.754	220.976b	ppb	1.4178	0.6	11424.3
Fe 271.441	229944b	ppb	336.751	0.1	472428
K 766.491	12583.5b	ppb	29.4435	0.2	676804
Mg 279.078	12534.7b	ppb	43.8991	0.4	32692.7
Mn 257.610	2553.48b	ppb	8.3822	0.3	702263
Mo 202.032	3.7374b	ppb	0.5639	15.1	27.3762
Na 330.237	849.156b	ppb	20.0156	2.4	-42.2240
Ni 231.604	129.157b	ppb	3.1732	2.5	441.407
Pb 220.353	389.612b	ppb	5.8203	1.5	882.910
Sb 206.834	-2.7819b	ppb	2.6671	95.9	7.4370
Se 196.026	-9.5755b	ppb	9.3561	97.7	-2.1546
Sn 189.925	10.0168b	ppb	2.3316	23.3	8.9818
Sr 216.596	574.942b	ppb	3.7566	0.7	7939.62
Ti 334.941	647.917b	ppb	3.4027	0.5	187472
Tl 190.794	0.6261b	ppb	1.9541	312.1	-34.7058
V 292.401	232.504b	ppb	0.4482	0.2	7342.00
Zn 206.200	499.602b	ppb	1.5069	0.3	999.185

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

680-88915-a-14-b (Samp) 4/6/2013, 9:51:40 AM Rack 4, Tube 31

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	2.0174	1.6602	1.2508
Al 308.215	79467.3	79350.9	79102.3
As 188.980	255.249	262.573	252.716
B 249.678	1.2585u	2.7718u	3.2622u
Ba 389.178	2157.21	2152.26	2151.13
Be 313.042	4.2706	4.2518	4.2612
Ca 370.602	209606	209564	210073
Cd 226.502	29.1390	28.6312	28.7026
Co 228.615	97.6883	98.7003	97.7996
Cr 267.716	484.289	482.298	481.809
Cu 324.754	1078.70	1064.44	1071.63
Fe 271.441	391655	388547	388663
K 766.491	12517.7	12458.7	12470.2
Mg 279.078	75216.7	74895.7	74769.5
Mn 257.610	4025.18	4007.99	4003.47
Mo 202.032	23.9036	23.0770	23.7546
Na 330.237	538.872u	210.485u	252.770u
Ni 231.604	148.128	146.060	147.243
Pb 220.353	4842.23	4840.04	4841.74
Sb 206.834	41.2476	46.1496	45.9776
Se 196.026	-10.7941u	-11.1275u	4.8031
Sn 189.925	93.9563	94.2011	93.9230
Sr 216.596	246.252	247.172	246.214
Ti 334.941	1000.25	998.556	997.485
Tl 190.794	9.2411u	11.6918u	10.7319u
V 292.401	222.604	221.737	221.290
Zn 206.200	6659.72	6637.15	6623.33

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.6428	ppb	0.3836	23.3	46.1947
Al 308.215	79306.9	ppb	186.433	0.2	284415
As 188.980	256.846	ppb	5.1187	2.0	191.673
B 249.678	2.4308	ppb	1.0445	43.0	-385.684
Ba 389.178	2153.53	ppb	3.2360	0.2	59776.8
Be 313.042	4.2612	ppb	0.0094	0.2	8696.55
Ca 370.602	209748	ppb	282.2	0.1	791701
Cd 226.502	28.8243	ppb	0.2749	1.0	2533.44
Co 228.615	98.0628	ppb	0.5549	0.6	1312.88
Cr 267.716	482.799	ppb	1.3135	0.3	25346.4
Cu 324.754	1071.59	ppb	7.1262	0.7	55643.6
Fe 271.441	389622	ppb	1761.62	0.5	800488
K 766.491	12482.2	ppb	31.2594	0.3	671356
Mg 279.078	74960.6	ppb	230.558	0.3	195613
Mn 257.610	4012.22	ppb	11.4516	0.3	1103848
Mo 202.032	23.5784	ppb	0.4406	1.9	187.349
Na 330.237	334.042	ppb	178.643	53.5	-187.782
Ni 231.604	147.144	ppb	1.0377	0.7	506.207
Pb 220.353	4841.34	ppb	1.1486	0.0	10969.9
Sb 206.834	44.4583	ppb	2.7819	6.3	65.5442
Se 196.026	-5.7062	ppb	9.1028	159.5	1.7043
Sn 189.925	94.0268	ppb	0.1519	0.2	93.8106
Sr 216.596	246.546	ppb	0.5426	0.2	3525.09
Ti 334.941	998.762	ppb	1.3924	0.1	289309
Tl 190.794	10.5549	ppb	1.2349	11.7	-43.5107
V 292.401	221.877	ppb	0.6678	0.3	6986.28
Zn 206.200	6640.07	ppb	18.3700	0.3	13264.5

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

680-88915-a-15-b (Samp) 4/6/2013, 9:58:08 AM Rack 4, Tube 32

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.5564	0.3236	0.1240
Al 308.215	83840.5	83880.2	84301.4
As 188.980	184.775	191.670	191.930
B 249.678	163.771	165.714	165.845
Ba 389.178	2119.52	2116.56	2118.40
Be 313.042	5.8342	5.8369	5.8488
Ca 370.602	920356x	919500x	923972x
Cd 226.502	30.5179	30.3408	30.5627
Co 228.615	144.359	145.745	146.296
Cr 267.716	329.399	329.796	331.102
Cu 324.754	645.322	652.089	653.003
Fe 271.441	271984	272685	272232
K 766.491	13132.8	13088.1	13046.5
Mg 279.078	149582	149757	150040
Mn 257.610	13326.5	13366.5	13364.1
Mo 202.032	18.2876	18.9515	18.0169
Na 330.237	623.702u	604.741u	486.184u
Ni 231.604	118.829	119.556	119.773
Pb 220.353	1272.33	1278.75	1285.73
Sb 206.834	14.5615	20.5414	26.1655
Se 196.026	3.6629	-9.7762	-2.8900
Sn 189.925	57.7062	58.6896	57.8555
Sr 216.596	818.100	818.368	821.089
Ti 334.941	1030.38	1030.40	1032.68
Tl 190.794	33.3914u	28.1196u	24.1417u
V 292.401	212.384	213.521	212.738
Zn 206.200	7143.77	7157.51	7180.77

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3347b	ppb	0.2164	64.7	-45.2460
Al 308.215	84007.4b	ppb	255.423	0.3	301271
As 188.980	189.458b	ppb	4.0576	2.1	149.982
B 249.678	165.110b	ppb	1.1617	0.7	1734.20
Ba 389.178	2118.16b	ppb	1.4982	0.1	58838.3
Be 313.042	5.8400b	ppb	0.0078	0.1	12293.8
Ca 370.602	921276xb	ppb	2374	0.3	3623196
Cd 226.502	30.4738b	ppb	0.1173	0.4	2253.23
Co 228.615	145.466b	ppb	0.9983	0.7	1943.50
Cr 267.716	330.099b	ppb	0.8907	0.3	17385.8
Cu 324.754	650.138b	ppb	4.1958	0.6	33722.7
Fe 271.441	272300b	ppb	355.200	0.1	559463
K 766.491	13089.1b	ppb	43.1761	0.3	703989
Mg 279.078	149793b	ppb	231.437	0.2	390673
Mn 257.610	13352.4b	ppb	22.4154	0.2	3668422
Mo 202.032	18.4187b	ppb	0.4809	2.6	150.290
Na 330.237	571.542b	ppb	74.5279	13.0	-136.500
Ni 231.604	119.386b	ppb	0.4943	0.4	409.648
Pb 220.353	1278.93b	ppb	6.7016	0.5	2901.32
Sb 206.834	20.4228b	ppb	5.8029	28.4	35.1294
Se 196.026	-3.0011b	ppb	6.7202	223.9	5.2841
Sn 189.925	58.0838b	ppb	0.5299	0.9	57.6964
Sr 216.596	819.186b	ppb	1.6537	0.2	11207.2
Ti 334.941	1031.15b	ppb	1.3213	0.1	299012
Tl 190.794	28.5509b	ppb	4.6399	16.3	-24.3890
V 292.401	212.881b	ppb	0.5819	0.3	6715.61
Zn 206.200	7160.69b	ppb	18.7029	0.3	14305.1

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

680-88915-a-16-b (Samp) 4/6/2013, 10:04:36 AM Rack 4, Tube 33

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	-1.8837u	-1.3897u	-1.2636u
Al 308.215	87701.3	87255.1	87154.2
As 188.980	44.5173	41.6160	50.4955
B 249.678	1.4945u	2.3454u	2.3138u
Ba 389.178	550.766	549.122	549.823
Be 313.042	3.3334	3.3111	3.3062
Ca 370.602	8866	8825	8836
Cd 226.502	-0.4900	-0.5521	-0.3772
Co 228.615	84.5710	83.0537	83.9965
Cr 267.716	115.152	114.659	114.242
Cu 324.754	51.6985	51.4381	51.9379
Fe 271.441	115605	114871	114892
K 766.491	4964.31	4944.09	4942.45
Mg 279.078	4137.05	4128.31	4128.70
Mn 257.610	9684.70	9621.04	9654.30
Mo 202.032	5.0810	5.0271	4.6315
Na 330.237	155.969u	153.723u	155.257u
Ni 231.604	48.7717	49.1941	46.9077
Pb 220.353	170.977	170.042	171.313
Sb 206.834	-3.0977	0.5725	3.0399
Se 196.026	0.0091	-0.3222	0.5004
Sn 189.925	15.6862	17.8079	16.5883
Sr 216.596	56.0812	55.8800	55.9643
Ti 334.941	954.846	951.257	950.756
Tl 190.794	27.6246	24.2922u	23.4467u
V 292.401	187.806	186.660	187.151
Zn 206.200	159.311	158.401	156.941

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.5123	ppb	0.3277	21.7	-173.058
Al 308.215	87370.2	ppb	291.144	0.3	313330
As 188.980	45.5429	ppb	4.5277	9.9	35.0402
B 249.678	2.0512	ppb	0.4824	23.5	-55.4890
Ba 389.178	549.904	ppb	0.8254	0.2	15218.8
Be 313.042	3.3169	ppb	0.0145	0.4	6645.44
Ca 370.602	8842	ppb	21.20	0.2	23862
Cd 226.502	-0.4731	ppb	0.0887	18.7	336.764
Co 228.615	83.8737	ppb	0.7661	0.9	1134.46
Cr 267.716	114.684	ppb	0.4557	0.4	6077.67
Cu 324.754	51.6915	ppb	0.2500	0.5	2598.92
Fe 271.441	115123	ppb	418.034	0.4	236534
K 766.491	4950.28	ppb	12.1731	0.2	266381
Mg 279.078	4131.35	ppb	4.9398	0.1	10603.5
Mn 257.610	9653.35	ppb	31.8369	0.3	2650980
Mo 202.032	4.9132	ppb	0.2454	5.0	44.3429
Na 330.237	154.983	ppb	1.1477	0.7	-43.1914
Ni 231.604	48.2912	ppb	1.2166	2.5	166.178
Pb 220.353	170.777	ppb	0.6583	0.4	389.577
Sb 206.834	0.1716	ppb	3.0884	1800.1	7.2049
Se 196.026	0.0625	ppb	0.4139	662.6	4.8761
Sn 189.925	16.6941	ppb	1.0648	6.4	15.2275
Sr 216.596	55.9752	ppb	0.1010	0.2	815.955
Ti 334.941	952.286	ppb	2.2309	0.2	275501
Tl 190.794	25.1212	ppb	2.2089	8.8	-3.2892
V 292.401	187.206	ppb	0.5750	0.3	5919.41
Zn 206.200	158.218	ppb	1.1956	311.8	317.395

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

680-88915-a-17-b (Samp) 4/6/2013, 10:11:04 AM Rack 4, Tube 34

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1882	-0.1645u	-0.4904u
Al 308.215	101321	101074	100497
As 188.980	30.6409	32.8943	32.1684
B 249.678	-0.5437u	-0.3291u	-0.1669u
Ba 389.178	351.461	351.622	351.229
Be 313.042	1.3763	1.3731	1.3751
Ca 370.602	10652	10640	10635
Cd 226.502	-0.7312	-0.9693	-0.8147
Co 228.615	15.7121	15.3087	15.4062
Cr 267.716	130.821	130.130	130.176
Cu 324.754	33.2694	33.4056	32.5555
Fe 271.441	125458	125183	125667
K 766.491	8278.25	8281.13	8290.65
Mg 279.078	4702.85	4691.66	4690.32
Mn 257.610	452.544	451.469	452.674
Mo 202.032	3.9514	4.0686	3.9052
Na 330.237	260.769u	223.811u	205.802u
Ni 231.604	35.4788	35.6109	34.4703
Pb 220.353	52.3390	55.9695	56.7134
Sb 206.834	4.8501	-0.9468	0.4810
Se 196.026	8.4169	-3.2746u	5.9001
Sn 189.925	17.6538	12.5270	12.7846
Sr 216.596	56.5902	55.4927	55.7934
Ti 334.941	724.365	722.723	720.824
Tl 190.794	1.7311u	-0.3259u	2.2116u
V 292.401	187.045	187.494	187.628
Zn 206.200	83.0392	82.2591	83.1651

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1555	ppb	0.3394	218.2	-108.159
Al 308.215	100964	ppb	423.047	0.4	362081
As 188.980	31.9012	ppb	1.1502	3.6	24.7299
B 249.678	-0.3466	ppb	0.1890	54.5	-97.0921
Ba 389.178	351.437	ppb	0.1978	0.1	9807.41
Be 313.042	1.3749	ppb	0.0016	0.1	2561.96
Ca 370.602	10643	ppb	8.566	0.1	29574
Cd 226.502	-0.8384	ppb	0.1208	14.4	350.963
Co 228.615	15.4757	ppb	0.2105	1.4	225.371
Cr 267.716	130.376	ppb	0.3862	0.3	6855.55
Cu 324.754	33.0768	ppb	0.4566	1.4	1635.47
Fe 271.441	125436	ppb	242.501	0.2	257709
K 766.491	8283.34	ppb	6.4897	0.1	445592
Mg 279.078	4694.94	ppb	6.8788	0.1	12257.0
Mn 257.610	452.229	ppb	0.6616	0.1	124956
Mo 202.032	3.9750	ppb	0.0842	2.1	35.7236
Na 330.237	230.127	ppb	28.0225	12.2	-39.5422
Ni 231.604	35.1867	ppb	0.6239	1.8	122.356
Pb 220.353	55.0073	ppb	2.3406	4.3	124.400
Sb 206.834	1.4614	ppb	3.0203	206.7	9.0162
Se 196.026	3.6808	ppb	6.1536	167.2	4.3235
Sn 189.925	14.3218	ppb	2.8885	20.2	12.8203
Sr 216.596	55.9588	ppb	0.5671	1.0	821.538
Ti 334.941	722.637	ppb	1.7721	0.2	209047
Tl 190.794	1.2056	ppb	1.3479	111.8	-17.6781
V 292.401	187.389	ppb	0.3054	0.2	5920.14
Zn 206.200	82.8212	ppb	0.4908	0.6	166.717

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

X (Samp) 4/6/2013, 10:17:33 AM Rack 4, Tube 35

Weight: 1

Volume: 1

Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.1002	1.3330	0.7077
Al 308.215	113.991	139.373	145.567
As 188.980	-5.4682u	-7.3502u	-2.3706u
B 249.678	0.2059	0.8925	0.4190
Ba 389.178	2.0059	1.2443	2.1870
Be 313.042	0.0193	0.0209	0.0248
Ca 370.602	134.1	194.8	217.8
Cd 226.502	0.0150	-0.1424u	-0.0258u
Co 228.615	-0.3232u	-0.2018u	-0.4844u
Cr 267.716	0.0224	0.1148	0.0268
Cu 324.754	0.5037	1.1639	1.3350
Fe 271.441	194.071	249.654	274.281
K 766.491	14.3549	18.8345	19.6214
Mg 279.078	16.3035	31.0487	30.3774
Mn 257.610	2.7413	4.2320	4.8396
Mo 202.032	-0.2038u	0.0475	0.0338
Na 330.237	91.9175	-57.3306u	113.825
Ni 231.604	-0.5676u	-1.2974u	0.0506
Pb 220.353	0.5990	2.2566	4.8007
Sb 206.834	-0.6134u	-4.5755u	-3.2938u
Se 196.026	-8.3057u	-0.6422u	-3.6704u
Sn 189.925	-1.8196u	-0.5231u	0.5398
Sr 216.596	0.3422	-0.0707u	0.3458
Ti 334.941	1.3342	1.4690	1.5149
Tl 190.794	2.2800	3.3360	5.1732
V 292.401	0.1260	0.3094	0.6540
Zn 206.200	1.9380	2.0528	1.0160

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.7136	ppb	0.6164	86.4	-37.2096
Al 308.215	132.977	ppb	16.7315	12.6	481.920
As 188.980	-5.0630	ppb	2.5144	49.7	-1.4674
B 249.678	0.5058	ppb	0.3514	69.5	65.7352
Ba 389.178	1.8124	ppb	0.5003	27.6	15.2654
Be 313.042	0.0217	ppb	0.0028	13.0	-289.432
Ca 370.602	182.2	ppb	43.24	23.7	692.7
Cd 226.502	-0.0510	ppb	0.0817	160.1	6.7916
Co 228.615	-0.3365	ppb	0.1417	42.1	0.0642
Cr 267.716	0.0547	ppb	0.0521	95.3	14.2799
Cu 324.754	1.0009	ppb	0.4389	43.9	-66.9567
Fe 271.441	239.335	ppb	41.0886	17.2	490.786
K 766.491	17.6036	ppb	2.8408	16.1	1160.95
Mg 279.078	25.9098	ppb	8.3261	32.1	88.8779
Mn 257.610	3.9376	ppb	1.0797	27.4	1428.23
Mo 202.032	-0.0408	ppb	0.1413	345.9	9.2765
Na 330.237	49.4707	ppb	93.1390	188.3	1.2964
Ni 231.604	-0.6048	ppb	0.6748	111.6	-1.4872
Pb 220.353	2.5521	ppb	2.1164	82.9	8.3130
Sb 206.834	-2.8276	ppb	2.0218	71.5	-0.0750
Se 196.026	-4.2061	ppb	3.8597	91.8	-1.3651
Sn 189.925	-0.6010	ppb	1.1816	196.6	-2.3275
Sr 216.596	0.2058	ppb	0.2395	116.4	12.1699
Ti 334.941	1.4393	ppb	0.0939	6.5	295.413
Tl 190.794	3.5964	ppb	1.4641	40.7	0.8373
V 292.401	0.3631	ppb	0.2681	73.8	9.8191
Zn 206.200	1.6690	ppb	0.5684	34.1	5.1195

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

CRI (Samp) 4/6/2013, 10:24:01 AM **Rack 4, Tube 36**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	11.1398	10.6143	10.6518
Al 308.215	218.286	222.206	223.531
As 188.980	18.5690	14.7075	17.7234
B 249.678	95.7948	97.5313	98.0581
Ba 389.178	9.8336	10.6933	11.1884
Be 313.042	4.2742	4.2863	4.3117
Ca 370.602	541.6	543.8	552.3
Cd 226.502	5.1485	5.1523	5.3198
Co 228.615	10.2282	10.4728	10.5415
Cr 267.716	10.4605	10.5459	10.6431
Cu 324.754	21.5465	22.5970	21.6175
Fe 271.441	73.4983	78.2890	82.5522
K 766.491	1089.18	1094.28	1104.05
Mg 279.078	519.174	516.893	521.404
Mn 257.610	10.3807	10.6268	10.7984
Mo 202.032	10.2849	10.5659	9.9353
Na 330.237	1240.14	965.811	1001.77
Ni 231.604	42.3877	42.3058	41.7166
Pb 220.353	9.0069	8.2760	10.4545
Sb 206.834	20.9488	20.7740	18.7778
Se 196.026	24.8543	25.7538	11.5862
Sn 189.925	50.3466	49.1850	52.4365
Sr 216.596	10.0899	9.9126	10.3623
Ti 334.941	10.2829	10.2796	10.3232
Tl 190.794	26.0832	20.8833	23.1123
V 292.401	10.3385	10.0784	10.5080
Zn 206.200	22.2301	21.0736	20.8292

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.8019	ppb	0.2932	2.7	794.045
Al 308.215	221.341	ppb	2.7276	1.2	799.563
As 188.980	17.0000	ppb	2.0298	11.9	15.0338
B 249.678	97.1281	ppb	1.1843	1.2	1239.88
Ba 389.178	10.5717	ppb	0.6855	6.5	256.255
Be 313.042	4.2907	ppb	0.0192	0.4	8695.60
Ca 370.602	545.9	ppb	5.602	1.0	2153
Cd 226.502	5.2069	ppb	0.0978	1.9	250.322
Co 228.615	10.4142	ppb	0.1647	1.6	141.723
Cr 267.716	10.5498	ppb	0.0914	0.9	562.279
Cu 324.754	21.9203	ppb	0.5871	2.7	1019.46
Fe 271.441	78.1132	ppb	4.5295	5.8	161.728
K 766.491	1095.84	ppb	7.5536	0.7	59135.4
Mg 279.078	519.157	ppb	2.2556	0.4	1375.82
Mn 257.610	10.6020	ppb	0.2099	2.0	3262.02
Mo 202.032	10.2621	ppb	0.3159	3.1	97.2462
Na 330.237	1069.24	ppb	149.094	13.9	62.9908
Ni 231.604	42.1367	ppb	0.3662	0.9	142.350
Pb 220.353	9.2458	ppb	1.1087	12.0	23.4480
Sb 206.834	20.1669	ppb	1.2061	6.0	24.7755
Se 196.026	20.7314	ppb	7.9327	38.3	13.4027
Sn 189.925	50.6560	ppb	1.6477	3.3	49.6969
Sr 216.596	10.1216	ppb	0.2265	2.2	143.266
Ti 334.941	10.2952	ppb	0.0243	0.2	2860.42
Tl 190.794	23.3596	ppb	2.6087	11.2	26.2781
V 292.401	10.3083	ppb	0.2164	2.1	321.039
Zn 206.200	21.3776	ppb	0.7483	3.5	44.4492

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

Cont Calib Verif (CCV) 4/6/2013, 10:30:29 AM Rack 4, Tube 37
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	504.288	501.071	504.400
Al 308.215	4919.41	4898.93	4942.79
As 188.980	491.154	485.875	486.412
B 249.678	502.024	505.821	510.734
Ba 389.178	4791.44	4787.87	4800.79
Be 313.042	478.104	476.688	477.804
Ca 370.602	4871	4870	4882
Cd 226.502	471.852	472.879	473.840
Co 228.615	482.663	484.371	485.376
Cr 267.716	4818.55	4814.88	4841.97
Cu 324.754	4710.72	4780.58	4894.39
Fe 271.441	4903.57	4884.39	4909.73
K 766.491	10006.1	9961.27	9968.38
Mg 279.078	4839.86	4848.08	4857.16
Mn 257.610	4763.65	4765.11	4782.82
Mo 202.032	485.571	488.349	490.065
Na 330.237	7013.94	7155.14	7084.98
Ni 231.604	2356.53	2388.56	2378.46
Pb 220.353	494.603	493.720	499.624
Sb 206.834	968.653	964.283	979.434
Se 196.026	4814.61	4825.82	4848.81
Sn 189.925	4885.62	4910.71	4878.71
Sr 216.596	2359.41	2356.63	2370.68
Ti 334.941	491.865	490.558	491.951
Tl 190.794	4924.65	4948.41	4964.45
V 292.401	4835.83	4838.33	4851.78
Zn 206.200	2366.08	2390.43	2389.76

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	503.253	ppb	1.8903	0.4	41329.7	100.65065
Al 308.215	4920.38	ppb	21.9471	0.4	17637.9	98.40753
As 188.980	487.813	ppb	2.9056	0.6	366.937	97.56270
B 249.678	506.193	ppb	4.3667	0.9	6204.02	20.24773Q
Ba 389.178	4793.37	ppb	6.6728	0.1	131163	95.86737
Be 313.042	477.532	ppb	0.7462	0.2	1004684	95.50639
Ca 370.602	4874	ppb	6.495	0.1	19142	97.48496
Cd 226.502	472.857	ppb	0.9940	0.2	21969.2	94.57138
Co 228.615	484.137	ppb	1.3714	0.3	6398.96	96.82735
Cr 267.716	4825.13	ppb	14.6958	0.3	251982	96.50269
Cu 324.754	4795.23	ppb	92.7093	1.9	248845	95.90463
Fe 271.441	4899.23	ppb	13.2154	0.3	10208.7	97.98453
K 766.491	9978.57	ppb	24.0729	0.2	536741	99.78571
Mg 279.078	4848.37	ppb	8.6528	0.2	12576.6	96.96739
Mn 257.610	4770.53	ppb	10.6705	0.2	1310104	95.41051
Mo 202.032	487.995	ppb	2.2679	0.5	4165.81	97.59902
Na 330.237	7084.68	ppb	70.5984	1.0	401.152	94.46246
Ni 231.604	2374.52	ppb	16.3731	0.7	7991.86	94.98072
Pb 220.353	495.983	ppb	3.1844	0.6	1126.07	99.19651
Sb 206.834	970.790	ppb	7.7980	0.8	1101.44	97.07898
Se 196.026	4829.75	ppb	17.4305	0.4	2862.56	96.59494
Sn 189.925	4891.68	ppb	16.8387	0.3	4963.14	97.83356
Sr 216.596	2362.24	ppb	7.4375	0.3	31504.7	94.48965
Ti 334.941	491.458	ppb	0.7807	0.2	142126	98.29155
Tl 190.794	4945.84	ppb	20.0215	0.4	6352.82	98.91676
V 292.401	4841.98	ppb	8.5788	0.2	152505	96.83958
Zn 206.200	2382.09	ppb	13.8718	0.6	4741.35	95.28367

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

Cont Calib Blank (CCB) 4/6/2013, 10:36:58 AM Rack 4, Tube 38
 Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	0.6090	0.4388	-0.1000u
Al 308.215	4.4044	4.5464	8.4071
As 188.980	-4.7204u	-2.8010u	-9.9615u
B 249.678	8.9124	8.4064	7.9289
Ba 389.178	0.1584	0.5218	0.9302
Be 313.042	0.0346	0.0615	0.0662
Ca 370.602	4.687	6.958	7.952
Cd 226.502	0.1036	-0.0009u	0.0938
Co 228.615	-0.0058u	0.4667	-0.3148u
Cr 267.716	0.1662	0.2249	0.3562
Cu 324.754	1.0163	1.2248	1.0602
Fe 271.441	9.7510	7.0404	13.7590
K 766.491	1.4150	2.7269	2.6557
Mg 279.078	1.5399	3.6228	5.1036
Mn 257.610	-0.6007u	-0.4276u	-0.3989u
Mo 202.032	0.8541	-0.1035u	0.1359
Na 330.237	140.752	-84.4515u	90.2318
Ni 231.604	0.6497	0.6794	0.8494
Pb 220.353	0.5862	-2.2283u	-0.9191u
Sb 206.834	3.3342	1.0528	-3.8863u
Se 196.026	-5.7356u	-6.5429u	-3.6950u
Sn 189.925	2.2943	1.1046	0.4221
Sr 216.596	0.4209	0.1438	0.1015
Ti 334.941	0.2266	0.2522	0.2118
Tl 190.794	1.7332	3.8267	4.6514
V 292.401	0.6752	0.8800	0.8453
Zn 206.200	-0.6180u	0.6517	0.0913

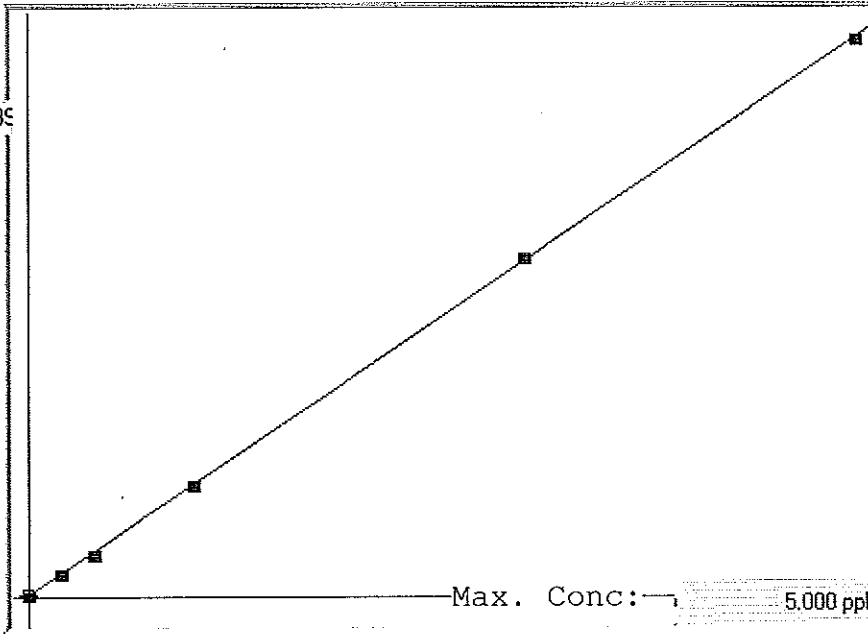
Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.3160	ppb	0.3702	117.2	-70.0131	0.31595
Al 308.215	5.7859	ppb	2.2711	39.3	25.8105	5.78595
As 188.980	-5.8276	ppb	3.7064	63.6	-2.0381	-5.82761
B 249.678	8.4159	ppb	0.4918	5.8	162.123	8.41590
Ba 389.178	0.5368	ppb	0.3861	71.9	-20.0920	0.53682
Be 313.042	0.0541	ppb	0.0171	31.6	-221.287	0.05410
Ca 370.602	6.532	ppb	1.674	25.6	19.76	6.53220
Cd 226.502	0.0655	ppb	0.0577	88.1	11.4974	0.06550
Co 228.615	0.0487	ppb	0.3936	807.7	5.1050	0.04873
Cr 267.716	0.2491	ppb	0.0973	39.0	24.3436	0.24909
Cu 324.754	1.1004	ppb	0.1099	10.0	-61.8544	1.10042
Fe 271.441	10.1835	ppb	3.3801	33.2	20.0875	10.18349
K 766.491	2.2659	ppb	0.7377	32.6	336.272	2.26586
Mg 279.078	3.4221	ppb	1.7903	52.3	30.2780	3.42212
Mn 257.610	-0.4758	ppb	0.1092	22.9	215.610	-0.47576
Mo 202.032	0.2955	ppb	0.4983	168.6	12.1615	0.29551
Na 330.237	48.8443	ppb	118.169	241.9	1.3644	48.84427
Ni 231.604	0.7262	ppb	0.1077	14.8	2.9857	0.72616
Pb 220.353	-0.8537	ppb	1.4084	165.0	0.5983	-0.85375
Sb 206.834	0.1669	ppb	3.6909	2211.7	3.1535	0.16688
Se 196.026	-5.3245	ppb	1.4678	27.6	-2.0303	-5.32452
Sn 189.925	1.2737	ppb	0.9475	74.4	-0.4248	1.27369
Sr 216.596	0.2221	ppb	0.1735	78.1	12.2222	0.22206
Ti 334.941	0.2302	ppb	0.0205	8.9	-54.6432	0.23020
Tl 190.794	3.4038	ppb	1.5043	44.2	0.6254	3.40376
V 292.401	0.8001	ppb	0.1096	13.7	23.5125	0.80015
Zn 206.200	0.0417	ppb	0.6363	1527.1	335.8678	0.04167

Hg Norm2

Linear

μ Abs. :

19188



A= 0.0000e+000
 B= 2.6025e-004
 C= -1.4024e-002
 Rho= 0.9999435
 Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
blank	0.000	0.009	0.009	87	1.247	86	87	89		
0.2	0.200	0.198	-0.002	813	0.6 %	817	816	807		
0.4	0.400	0.381	-0.019	1517	0.6 %	1506	1518	1529		
1.0	1.000	0.996	-0.004	3880	0.7 %	3909	3890	3843		
3.0	3.000	3.037	0.037	11723	1.7 %	11457	11799	11915		
5.0	5.000	4.980	-0.020	19188	0.4 %	19276	19108	19182		

C04052013

Method: Hg Norm2

Operator: Admin

Date of Analysis: 05 Apr 2013 12:59:18

Sample ID	Extended ID	Mean	RSD	Date
blank		87	1.4281	05 Apr 2013 13:04:30
0.2		813	0.5529	05 Apr 2013 13:06:56
0.4		1518	0.6189	05 Apr 2013 13:09:23
1.0		3881	0.7148	05 Apr 2013 13:11:50
3.0		11724	1.6583	05 Apr 2013 13:14:17
5.0		19189	0.3583	05 Apr 2013 13:16:43
ICV		3.1305	0.8799	05 Apr 2013 13:19:09
ICB		-0.0064	-8.3683	05 Apr 2013 13:21:35
CRA		0.1890	0.2975	05 Apr 2013 13:24:00
CCV		2.6197	0.0532	05 Apr 2013 13:26:27
CCB		-0.0060	-2.0301	05 Apr 2013 13:28:53
mb 680-271857/1-a	(BCB)	0.0268	2.3756	05 Apr 2013 13:31:19
lb 680-271636/18-c	(BCB)	-0.0093	-3.5079	05 Apr 2013 13:33:44
lcs 680-271857/3-a	(BCB)	2.3554	0.1264	05 Apr 2013 13:36:09
680-88866-a-39-e	(BCB)	-0.0017	-14.3840	05 Apr 2013 13:38:35
680-88866-a-39-f ms	(BCB)	0.0911	0.2332	05 Apr 2013 13:41:01
680-88866-a-39-g msd	(BCB)	0.0616	1.4357	05 Apr 2013 13:43:27
680-88825-c-1-c	(BCB)	-0.0070	-8.0343	05 Apr 2013 13:45:52
680-88825-b-2-e	(BCB)	-0.0060	-21.4042	05 Apr 2013 13:48:18
CCV		2.5983	1.0010	05 Apr 2013 13:50:44
CCB		-0.0076	-4.2682	05 Apr 2013 13:53:10
CCV		2.5741	0.1870	05 Apr 2013 16:23:10
CCB		-0.0097	-4.5664	05 Apr 2013 16:25:37
mb 680-271877/1-a	(BCB)	-0.0057	-3.7304	05 Apr 2013 16:28:02
lcs 680-271877/2-a	(BCB)	2.4963	0.2983	05 Apr 2013 16:30:28
llcs 680-271877/3-a	(BCB)	0.1828	0.3736	05 Apr 2013 16:32:53
680-88919-a-1-a	(BCB)	-0.0080	-17.1802	05 Apr 2013 16:35:19
680-88919-a-1-b ms	(BCB)	1.0311	0.3405	05 Apr 2013 16:37:44
680-88919-a-1-c msd	(BCB)	1.0190	0.7569	05 Apr 2013 16:40:10
680-88919-a-2-a	(BCB)	-0.0070	-13.2365	05 Apr 2013 16:42:35
680-88919-a-3-b	(BCB)	-0.0054	-14.0939	05 Apr 2013 16:45:01
680-88919-d-1-b	(BCB)	-0.0053	-16.3187	05 Apr 2013 16:47:28
680-88919-d-2-b	(BCB)	-0.0075	0.0000	05 Apr 2013 16:49:55
CCV		2.5930	0.2663	05 Apr 2013 16:52:21
CCB		-0.0096	-2.2135	05 Apr 2013 16:54:47
680-88919-d-3-a	(BCB)	-0.0076	-5.8166	05 Apr 2013 16:57:12
680-88911-d-1-a	(BCB)	0.0025	4.8207	05 Apr 2013 16:59:39
680-88913-c-17-a	(BCB)	-0.0048	-13.4438	05 Apr 2013 17:02:06
680-88931-f-1-a	(BCB)	0.0009	13.6820	05 Apr 2013 17:04:31
680-88937-b-1-a	(BCB)	0.2067	1.3366	05 Apr 2013 17:06:58
680-88947-a-1-a	(BCB)	-0.0123	-8.7029	05 Apr 2013 17:09:24
680-88947-a-1-b ms	(BCB)	1.0014	0.2385	05 Apr 2013 17:11:50
680-88947-a-1-c msd	(BCB)	0.9798	0.3708	05 Apr 2013 17:14:16
680-88959-a-1-a	(BCB)	0.0421	2.0397	05 Apr 2013 17:16:42
680-88959-b-2-a	(BCB)	9.5893	0.1472	05 Apr 2013 17:19:08
CCV		2.5603	0.1268	05 Apr 2013 17:21:34
CCB		-0.0172	-6.3272	05 Apr 2013 17:24:02
mb 680-272058/1-a	(BCB)	0.0007	33.9290	05 Apr 2013 17:26:29
lcs 680-272058/2-a	(BCB)	2.5102	0.9398	05 Apr 2013 17:28:55
llcs 680-272058/3-a	(BCB)	0.1956	0.1660	05 Apr 2013 17:31:22
680-88969-a-1-a	(BCB)	-0.0074	-4.3678	05 Apr 2013 17:33:49
680-88969-a-1-b ms	(BCB)	0.9571	0.3541	05 Apr 2013 17:36:17
680-88969-a-1-c msd	(BCB)	0.9835	1.2425	05 Apr 2013 17:38:43
680-88969-a-2-a	(BCB)	-0.0051	-17.3839	05 Apr 2013 17:41:12
680-88969-a-3-a	(BCB)	-0.0058	-5.6127	05 Apr 2013 17:43:37
680-88969-a-4-a	(BCB)	0.0035	18.5523	05 Apr 2013 17:46:03

C04052013

Method: Hg Norm2

Operator: Admin

Date of Analysis: 05 Apr 2013 12:59:18

Sample ID	Extended ID	Mean	RSD	Date
680-88917-c-1-b	(BCB)	0.0471	0.4508	05 Apr 2013 17:48:28
CCV		2.5832	0.4382	05 Apr 2013 17:50:54
CCB		-0.0100	-10.4467	05 Apr 2013 17:53:22
680-88969-d-1-a	(BCB)	-0.0080	-5.2868	05 Apr 2013 17:55:47
680-88969-d-2-a	(BCB)	-0.0070	-6.0733	05 Apr 2013 17:58:14
680-88969-d-3-a	(BCB)	-0.0081	-5.4440	05 Apr 2013 18:00:41
680-88969-d-4-a	(BCB)	-0.0091	-11.7017	05 Apr 2013 18:03:08
680-88994-c-1-a	(BCB)	0.0044	2.8095	05 Apr 2013 18:05:35
mb 680-272081/1-a	(BCB)	-0.0037	-8.7701	05 Apr 2013 18:08:03
lb 680-272070/4-b	(BCB)	-0.0064	-3.8396	05 Apr 2013 18:10:30
lcs 680-272081/3-a	(BCB)	1.8536	1.3538	05 Apr 2013 18:12:56
680-89008-b-1-b	(BCB)	-0.0080	-13.2171	05 Apr 2013 18:15:24
680-89008-b-1-c ms	(BCB)	0.7062	0.2135	05 Apr 2013 18:17:51
CCV		2.5946	0.8121	05 Apr 2013 18:20:18
CCB		-0.0086	-4.9653	05 Apr 2013 18:22:45
680-89008-b-1-d msd	(BCB)	0.6346	1.0224	05 Apr 2013 18:25:11
mb 680-272036/1-a	(BCB)	0.0109	4.9183	05 Apr 2013 18:27:38
lb 680-271933/8-b	(BCB)	0.0308	0.7960	05 Apr 2013 18:30:04
lcs 680-272036/3-a	(BCB)	2.3265	0.4848	05 Apr 2013 18:32:30
680-88926-a-1-d	(BCB)	-0.0035	-22.8057	05 Apr 2013 18:34:56
680-88926-a-1-e ms	(BCB)	0.7721	0.1271	05 Apr 2013 18:37:22
680-88926-a-1-f msd	(BCB)	0.7685	0.8025	05 Apr 2013 18:39:48
680-88872-c-2-e	(BCB)	-0.0057	-9.8696	05 Apr 2013 18:42:15
680-88918-a-12-c	(BCB)	-0.0030	-38.9189	05 Apr 2013 18:44:43
680-88918-a-13-d	(BCB)	-0.0080	-9.3847	05 Apr 2013 18:47:10
CCV		2.5630	1.2235	05 Apr 2013 18:49:37
CCB		-0.0053	-8.4054	05 Apr 2013 18:52:04
lb 680-271813/9-b	(BCB)	0.0117	2.1055	05 Apr 2013 18:54:30
460-53382-b-1-c	(BCB)	-0.0066	-10.4066	05 Apr 2013 18:56:57
460-53382-b-1-d ms	(BCB)	0.7579	0.6338	05 Apr 2013 18:59:23
460-53382-b-1-e msd	(BCB)	0.7581	0.3410	05 Apr 2013 19:01:51
680-88918-a-5-d	(BCB)	-0.0090	-8.2983	05 Apr 2013 19:04:18
680-88918-a-6-g	(BCB)	-0.0099	-2.1550	05 Apr 2013 19:06:46
680-88918-a-7-d	(BCB)	-0.0081	-1.5099	05 Apr 2013 19:09:13
680-88918-a-8-d	(BCB)	-0.0036	-5.8792	05 Apr 2013 19:11:39
680-88918-a-10-d	(BCB)	-0.0042	-7.6888	05 Apr 2013 19:14:05
680-88918-a-11-d	(BCB)	-0.0095	-5.1584	05 Apr 2013 19:16:33
CCV		2.6210	0.5201	05 Apr 2013 19:19:01
CCB		-0.0061	-5.2950	05 Apr 2013 19:21:28
lb 680-271936/7-c	(BCB)	-0.0058	-2.1214	05 Apr 2013 19:23:53
680-88872-c-1-c	(BCB)	-0.0053	-8.4054	05 Apr 2013 19:26:19
680-88872-c-1-f ms	(BCB)	0.8289	0.0678	05 Apr 2013 19:28:46
680-88872-c-1-g msd	(BCB)	0.8682	0.1765	05 Apr 2013 19:31:12
mb 680-272055/1-a	(BCB)	-0.0053	-14.1804	05 Apr 2013 19:33:38
lcs 680-272055/2-a	(BCB)	2.5859	0.6231	05 Apr 2013 19:36:05
680-88979-a-1-d	(BCB)	-0.0065	-3.2807	05 Apr 2013 19:38:32
680-88979-a-1-e ms	(BCB)	0.9727	0.5152	05 Apr 2013 19:40:59
680-88979-a-1-f msd	(BCB)	0.9643	0.3416	05 Apr 2013 19:43:25
680-88979-a-2-b	(BCB)	-0.0014	-39.3548	05 Apr 2013 19:45:52
CCV		2.5993	0.6468	05 Apr 2013 19:48:19
CCB		-0.0063	-7.0173	05 Apr 2013 19:50:47
680-88979-a-3-b	(BCB)	0.1681	0.3343	05 Apr 2013 19:53:13
680-88979-a-4-b	(BCB)	0.0543	2.1539	05 Apr 2013 19:55:40
680-88979-a-5-b	(BCB)	0.0389	1.5772	05 Apr 2013 19:58:07
680-88979-a-6-b	(BCB)	0.3534	0.4208	05 Apr 2013 20:00:34
680-88979-a-7-b	(BCB)	0.0001	381.5718	05 Apr 2013 20:03:01

C04052013

Method: Hg Norm2

Operator: Admin

Date of Analysis: 05 Apr 2013 12:59:18

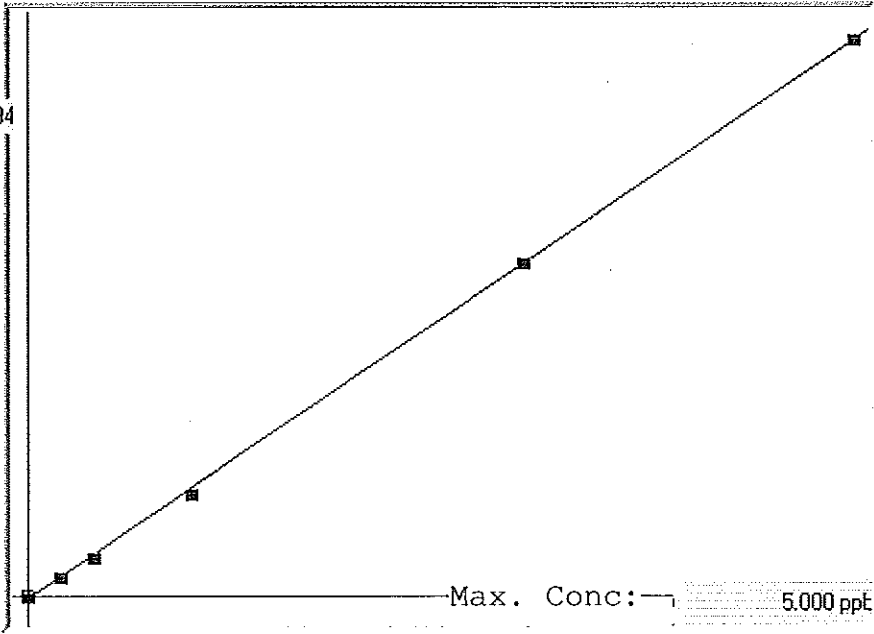
Sample ID	Extended ID	Mean	RSD	Date
680-88979-a-8-b	(BCB)	0.5518	1.5044	05 Apr 2013 20:05:28
680-88979-b-9-b	(BCB)	-0.0057	-7.4607	05 Apr 2013 20:07:54
680-88979-a-10-b	(BCB)	0.0014	22.9039	05 Apr 2013 20:10:21
680-88979-a-11-b	(BCB)	0.0588	1.0833	05 Apr 2013 20:12:48
680-88979-a-12-b	(BCB)	0.0588	0.7528	05 Apr 2013 20:15:16
CCV		2.6111	0.5290	05 Apr 2013 20:17:43
CCB		-0.0063	-7.0173	05 Apr 2013 20:20:09
680-88990-g-1-a	(BCB)	-0.0061	-7.2159	05 Apr 2013 20:22:36
680-88990-g-2-a	(BCB)	-0.0106	-3.0754	05 Apr 2013 20:25:04
mb 680-272084/1-b	(BCB)	-0.0032	-13.9075	05 Apr 2013 20:27:31
lcs 680-272084/2-b	(BCB)	2.5227	0.2569	05 Apr 2013 20:29:58
680-88998-e-1-d	(BCB)	0.0001	461.2978	05 Apr 2013 20:32:26
680-88998-e-1-e ms	(BCB)	1.0215	1.1780	05 Apr 2013 20:34:52
680-88998-e-1-f msd	(BCB)	0.9897	0.3455	05 Apr 2013 20:37:19
680-88998-f-3-b	(BCB)	0.0097	1.2589	05 Apr 2013 20:39:46
680-88995-c-1-b	(BCB)	0.0139	4.6673	05 Apr 2013 20:42:13
680-88995-d-3-b	(BCB)	0.0136	11.8291	05 Apr 2013 20:44:41
CCV		2.5944	0.9464	05 Apr 2013 20:47:07
CCB		-0.0070	0.0000	05 Apr 2013 20:49:34
680-88995-c-4-b	(BCB)	0.0282	2.1735	05 Apr 2013 20:52:00
CCV		2.5413	0.1756	05 Apr 2013 20:54:27
CCB		-0.0065	-15.0340	05 Apr 2013 20:56:54
CCV		2.4948	0.4729	06 Apr 2013 14:11:45
CCB		-0.0026	-14.3025	06 Apr 2013 14:14:11
lcs 680-272081/3-a	(BCB)	2.5847	0.2896	06 Apr 2013 14:16:37
CCV		2.6155	0.9185	06 Apr 2013 14:19:03
CCB		-0.0034	-3.5655	06 Apr 2013 14:21:29

Hg Norm2

Linear

μ Abs.:

12194



A= 0.0000e+000

B= 4.0832e-004

C= 2.6181e-002

Rho= 0.9998863

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
blank	0.000	0.040	0.040	34	2.055	32	35	37		
0.2	0.200	0.211	0.011	452	1.6 %	443	453	461		
0.4	0.400	0.386	-0.014	881	1.4 %	866	882	896		
1.0	1.000	0.950	-0.050	2262	0.3 %	2254	2261	2273		
3.0	3.000	3.007	0.007	7300	0.5 %	7251	7305	7346		
5.0	5.000	5.005	0.005	12194	0.7 %	12091	12201	12291		

C04042013A

Method: Hg Norm2

Operator: Admin

Date of Analysis: 04 Apr 2013 13:44:55

Sample ID	Extended ID	Mean	RSD	Date
blank		35	5.9273	04 Apr 2013 13:48:10
0.2		452	1.6279	04 Apr 2013 13:50:36
0.4		881	1.3907	04 Apr 2013 13:53:04
1.0		2263	0.3467	04 Apr 2013 13:55:31
3.0		7301	0.5329	04 Apr 2013 13:57:57
5.0		12194	0.6707	04 Apr 2013 14:00:23
ICV		3.1251	1.0521	04 Apr 2013 14:02:50
ICB		0.0290	4.1395	04 Apr 2013 14:05:16
CRA		0.2163	1.5438	04 Apr 2013 14:07:42
CCV		2.5792	0.4123	04 Apr 2013 14:10:09
CCB	<i>Blank</i>	0.0305	4.9232	04 Apr 2013 14:12:35
mb 680-271740/1-a	A20 (BCB)	0.0417	0.7996	04 Apr 2013 14:15:01
lcs 680-271740/2-a	(BCB)	2.5341	0.3751	04 Apr 2013 14:17:27
680-88915-a-1-a	(BCB)	0.6087	1.1229	04 Apr 2013 14:19:54
680-88915-a-2-a	(BCB)	3.0999	0.7024	04 Apr 2013 14:22:19
680-88915-a-3-a	(BCB)	0.8126	0.7665	04 Apr 2013 14:24:44
680-88915-a-4-a	(BCB)	0.2378	1.0522	04 Apr 2013 14:27:09
680-88915-a-5-a	(BCB)	0.7925	0.6840	04 Apr 2013 14:29:35
680-88915-a-6-a	(BCB)	0.5552	0.2500	04 Apr 2013 14:32:01
680-88915-a-7-a	(BCB)	0.8377	0.8062	04 Apr 2013 14:34:27
680-88915-a-8-a	(BCB)	0.7726	0.0747	04 Apr 2013 14:36:54
CCV		2.5451	0.9048	04 Apr 2013 14:39:20
CCB		0.0265	0.7277	04 Apr 2013 14:41:46
680-88915-a-9-a	(BCB)	1.3535	0.2587	04 Apr 2013 14:44:12
680-88915-a-10-a	(BCB)	0.7929	0.8243	04 Apr 2013 14:46:40
680-88915-a-11-a	(BCB)	0.2619	0.1944	04 Apr 2013 14:49:07
680-88915-a-12-a	(BCB)	0.3885	1.0310	04 Apr 2013 14:51:33
680-88915-a-12-b ms	(BCB)	1.2569	0.9706	04 Apr 2013 14:53:59
680-88915-a-12-c msd	(BCB)	1.4486	0.2138	04 Apr 2013 14:56:25
680-88915-a-13-a	(BCB)	1.0107	0.8596	04 Apr 2013 14:58:51
680-88915-a-14-a	(BCB)	0.6960	0.8627	04 Apr 2013 15:01:17
680-88915-a-15-a	(BCB)	0.9173	0.8386	04 Apr 2013 15:03:43
680-88915-a-16-a	(BCB)	0.3946	0.2126	04 Apr 2013 15:06:09
CCV		2.5114	1.2358	04 Apr 2013 15:08:34
CCB		0.0235	2.9585	04 Apr 2013 15:11:00
680-88915-a-17-a	(BCB)	0.5761	1.0130	04 Apr 2013 15:13:26
680-88915-a-18-a	(BCB)	0.5620	0.6343	04 Apr 2013 15:15:53
680-88915-a-19-a	(BCB)	0.3425	0.3685	04 Apr 2013 15:18:19
680-88915-a-20-a	(BCB)	0.2889	0.2905	04 Apr 2013 15:20:46
mb 680-271744/1-a	(BCB)	0.0519	1.6994	04 Apr 2013 15:23:14
lcs 680-271744/2-a	(BCB)	2.6220	0.7173	04 Apr 2013 15:25:40
680-88915-a-21-a	(BCB)	0.2942	0.4718	04 Apr 2013 15:28:06
680-88915-a-21-b ms	(BCB)	1.2354	0.1486	04 Apr 2013 15:30:32
680-88915-a-21-c msd	(BCB)	1.4277	0.6153	04 Apr 2013 15:32:57
680-88915-a-22-a	(BCB)	0.4985	0.3299	04 Apr 2013 15:35:24
CCV		2.5212	0.8401	04 Apr 2013 15:37:51
CCB		0.0255	0.7548	04 Apr 2013 15:40:17
680-88915-a-23-a	(BCB)	0.1447	0.5797	04 Apr 2013 15:42:42
680-88915-a-24-a	(BCB)	0.2301	0.1673	04 Apr 2013 15:45:08
680-88915-a-25-a	(BCB)	0.4176	0.4812	04 Apr 2013 15:47:35
680-88915-a-26-a	(BCB)	0.4628	0.3327	04 Apr 2013 15:50:01
680-88912-d-1-a	(BCB)	0.3004	0.2793	04 Apr 2013 15:52:28
680-88912-d-1-b ms	(BCB)	1.0181	0.7541	04 Apr 2013 15:54:55
680-88912-d-1-c msd	(BCB)	1.0659	0.3149	04 Apr 2013 15:57:24
680-88913-b-2-a	(BCB)	1.4785	0.7695	04 Apr 2013 15:59:52
680-88913-b-2-b ms	(BCB)	2.4376	0.7396	04 Apr 2013 16:02:19

C04042013A

Method: Hg Norm2

Operator: Admin

Date of Analysis: 04 Apr 2013 13:44:55

Sample ID	Extended ID	Mean	RSD	Date
680-88913-b-2-c msd	(BCB)	1.9947	0.0766	04 Apr 2013 16:04:45
CCV		2.5494	1.0844	04 Apr 2013 16:07:12
CCB		0.0275	1.3978	04 Apr 2013 16:09:40
680-88913-b-4-a	(BCB)	2.1214	0.2835	04 Apr 2013 16:12:05
CCV		2.5083	0.7116	04 Apr 2013 16:14:33
CCB		0.0248	1.5511	04 Apr 2013 16:17:00

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-88913-2

SDG No.: 680088913-1

Batch Number: 271953 Batch Start Date: 04/04/13 15:38 Batch Analyst: Boyuk, Brian

Batch Method: 200.7 Batch End Date: 04/05/13 11:29

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 680-271953/1		200.7, 200.7 Rev 4.4			50 mL	50 mL			
LCS 680-271953/3		200.7, 200.7 Rev 4.4			50 mL	50 mL	1 mL		0.5 mL
680-88888-A-1 MS		200.7, 200.7 Rev 4.4	T	<2	50 mL	50 mL		0.5 mL	0.5 mL
680-88888-A-1 MSD		200.7, 200.7 Rev 4.4	T	<2	50 mL	50 mL		0.5 mL	0.5 mL
680-88913-C-17	040213-RB-sieve	200.7, 200.7 Rev 4.4	T	<2	50 mL	50 mL			

Batch Notes	
Batch Comment	shared
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.: 680-88913-2

SDG No.: 680088913-1

Batch Number: 271798 Batch Start Date: 04/03/13 16:02 Batch Analyst: Lawhon, Jon

Batch Method: 3050B Batch End Date: 04/04/13 13:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MS Cal Stk 00019	MS_LCS1_WK 00001	MS_LCS2_wk 00143
MB 680-271798/1		3050B, 6010C		CALC NOT SET TO RUN	1.00 g	100 mL			
LCS 680-271798/3		3050B, 6010C		CALC NOT SET TO RUN	1.01 g	100 mL	2 mL		
680-88913-B-2	CV0116B-CS-SP	3050B, 6010C	T	CALC NOT SET TO RUN	1.02 g	100 mL			
680-88913-B-2 MS	CV0116B-CS-SP	3050B, 6010C	T	CALC NOT SET TO RUN	1.04 g	100 mL		1 mL	1 mL
680-88913-B-2 MSD	CV0116B-CS-SP	3050B, 6010C	T	CALC NOT SET TO RUN	1.02 g	100 mL		1 mL	1 mL
680-88913-B-4	CV0501B-CS-SP	3050B, 6010C	T	CALC NOT SET TO RUN	1.16 g	100 mL			

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
MB 680-271798/1		3050B, 6010C							
LCS 680-271798/3		3050B, 6010C		SN LCS					
680-88913-B-2	CV0116B-CS-SP	3050B, 6010C	T						
680-88913-B-2 MS	CV0116B-CS-SP	3050B, 6010C	T						
680-88913-B-2 MSD	CV0116B-CS-SP	3050B, 6010C	T						
680-88913-B-4	CV0501B-CS-SP	3050B, 6010C	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-88913-2

SDG No.: 680088913-1

Batch Number: 271798 Batch Start Date: 04/03/13 16:02 Batch Analyst: Lawhon, Jon

Batch Method: 3050B Batch End Date: 04/04/13 13:00

Batch Notes	
Analyst	JL
Balance ID	25
Blank Soil Lot Number	2958846
Hydrogen peroxide lot number	52223236
Lot # of hydrochloric acid	24317
Lot # of Nitric Acid	L1200
Hood ID or number	FH-8
Hot Block ID number	9
Nominal Amount Used	1.0 g
Pipette ID	ME4
Perform Calculation (0=No, 1=Yes)	0
Temperature	94 Degrees C
ID number of the thermometer	MEPREP15
Digestion Tube/Cup Lot #	010-501-263

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-88913-2

SDG No.: 680088913-1

Batch Number: 271877 Batch Start Date: 04/05/13 11:15 Batch Analyst: Umbehr, Uli

Batch Method: 245.1 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	InitialAmount	FinalAmount	hg_icvint 00085	Hg_Int_Cal 00091	AnalysisComment
MB 680-271877/1		245.1, 245.1			50 mL	50 mL			
LCS 680-271877/2		245.1, 245.1			50 mL	50 mL		0.25 mL	
680-88919-A-1 MS		245.1, 245.1	T	<2	50 mL	50 mL		0.1 mL	
680-88919-A-1 MSD		245.1, 245.1	T	<2	50 mL	50 mL		0.1 mL	
680-88913-C-17	040213-RB-sieve	245.1, 245.1	T	<2	50 mL	50 mL			Insufficient sample size for client-specific MS/MSD for both methods required for this sample.
CCV 680-271877/28		245.1, 245.1			50 mL	50 mL		0.25 mL	
CCB 680-271877/29		245.1, 245.1			50 mL	50 mL			
ICV 680-271877/31		245.1, 245.1			50 mL	50 mL	0.15 mL		
ICB 680-271877/32		245.1, 245.1			50 mL	50 mL			
CRA 680-271877/33		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.: 680-88913-2

SDG No.: 680088913-1

Batch Number: 271877 Batch Start Date: 04/05/13 11:15 Batch Analyst: Umbeh, Uli

Batch Method: 245.1 Batch End Date: _____

Batch Notes	
Hydroxylamine Sulfate Lot Number	3046698
Hydroxylamine Hydrochloride Lot	3046705
Sulfuric Acid Lot Number	2956909
Lot # of hydrochloric acid	2968296
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	03/05/13
Stannous Chloride Lot Number	3038842
SOP Number	ME028
Temperature	95 Degrees C
ID number of the thermometer	ME9, ME10
Digestion Tube/Cup Lot #	J147592-264-100
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.: 680-88913-2

SDG No.: 680088913-1

Batch Number: 271740 Batch Start Date: 04/03/13 12:41 Batch Analyst: Umbehr, Uli

Batch Method: 7471A Batch End Date: 04/03/13 18:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	hg_icvint 00084	Hg_Int_Cal 00090	AnalysisComment	
CCV 680-271740/32		7471A, 7471B		50 mL	50 mL		0.25 mL		
CCB 680-271740/33		7471A, 7471B		50 mL	50 mL				
ICV 680-271740/35		7471A, 7471B		50 mL	50 mL	0.15 mL			
ICB 680-271740/36		7471A, 7471B		50 mL	50 mL				
CRA 680-271740/37		7471A, 7471B		50 mL	50 mL		0.02 mL	0.20 standard used.	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-88913-2

SDG No.: 680088913-1

Batch Number: 271740 Batch Start Date: 04/03/13 12:41 Batch Analyst: Umbehr, Uli

Batch Method: 7471A Batch End Date: 04/03/13 18:00

Batch Notes	
Hydroxylamine Sulfate Lot Number	2965828
Hydroxylamine Hydrochloride Lot	3001958
Aqua Regia Lot Number	3001953
Balance ID	27
Blank Soil Lot Number	2021822
Sulfuric Acid Lot Number	2956908
Lot # of hydrochloric acid	2968294
Lot # of Nitric Acid	2950992
Hood ID or number	WB2
Hot Block ID number	11, 12
Potassium Persulfate Lot Number	3001730
Potassium Permanganate Lot Number	2384878
NaCL Lot #	2891381
Nominal Amount Used	0.5 - 0.6 g g
Oven, Bath or Block Temperature 1	95 Degrees C
Oven, Bath or Block Temperature 2	95 Degrees C
Pipette ID	ME1, ME7, ME10
Repittetor Volume Check	01/03/13
Stannous Chloride Lot Number	3001827
SOP Number	ME1, ME7, ME10
ID number of the thermometer	ME9, ME10
Digestion Tube/Cup Lot #	J147592-264-100
Uncorrected Temperature	95 Celsius
Uncorrected Temperature 2	95 Celsius

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-88913-2

SDG No.: 680088913-1

Batch Number: 271744 Batch Start Date: 04/03/13 12:47 Batch Analyst: Umbehr, Uli

Batch Method: 7471B Batch End Date: 04/03/13 18:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Hg_Int_Cal 00090			
MB 680-271744/1		7471B, 7471B		0.55 g	50 mL				
LCS 680-271744/2		7471B, 7471B		0.50 g	50 mL	0.25 mL			
680-88913-B-2	CV0116B-CS-SP	7471B, 7471B	T	0.54 g	50 mL				
680-88913-B-2 MSD	CV0116B-CS-SP	7471B, 7471B	T	0.52 g	50 mL	0.1 mL			
680-88913-B-2 MSD	CV0116B-CS-SP	7471B, 7471B	T	0.51 g	50 mL	0.1 mL			
680-88913-B-4	CV0501B-CS-SP	7471B, 7471B	T	0.55 g	50 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-88913-2

SDG No.: 680088913-1

Batch Number: 271744 Batch Start Date: 04/03/13 12:47 Batch Analyst: Umbehr, Uli

Batch Method: 7471B Batch End Date: 04/03/13 18:00

Batch Notes	
Hydroxylamine Sulfate Lot Number	2965828
Hydroxylamine Hydrochloride Lot	3001958
Aqua Regia Lot Number	3001953
Balance ID	27
Blank Soil Lot Number	2021822
Sulfuric Acid Lot Number	2956908
Lot # of hydrochloric acid	2968294
Lot # of Nitric Acid	2950992
Hood ID or number	WB2
Hot Block ID number	11, 12
Potassium Persulfate Lot Number	3001730
Potassium Permanganate Lot Number	2384878
NaCL Lot #	2891381
Nominal Amount Used	0.5 - 0.6 g g
Oven, Bath or Block Temperature 1	95 Degrees C
Oven, Bath or Block Temperature 2	95 Degrees C
Pipette ID	ME1, ME7, ME10
Repittetor Volume Check	01/03/13
Stannous Chloride Lot Number	3001827
SOP Number	ME1, ME7, ME10
ID number of the thermometer	ME9, ME10
Digestion Tube/Cup Lot #	J147592-264-100
Uncorrected Temperature	95 Celsius
Uncorrected Temperature 2	95 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE <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>2</i>
----------------------------------------------	------------------------------------	---------------------------------------	-------------	-------------------	------------------	----------------

(b) (6)

COMPOSITE (C) OR GRAB (G) INDICATE
AQUEOUS (WATER)
SOLID OR SEMISOLID
AIR
NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

LLPAH
RCCRB Merrols

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)	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
<i>4-1-13</i>	<i>1430</i>	<i>CV0116A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>										
<i>4-1-13</i>	<i>1440</i>	<i>CV0116B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>	<i>X</i>									
	<i>1350</i>	<i>CV0501A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>										
	<i>1400</i>	<i>CV0501B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>	<i>X</i>									
	<i>1320</i>	<i>FM0128A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>										
	<i>1330</i>	<i>FM0128B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>										
	<i>1520</i>	<i>HP0219A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>										
	<i>1425</i>	<i>FM0207A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>										
	<i>1430</i>	<i>FM0207A-CSD</i>	<i>C</i>	<i>X</i>			<i>X</i>										
	<i>1437</i>	<i>FM0207B-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>										
	<i>1442</i>	<i>FM0207C-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>										
	<i>1451</i>	<i>FM0207D-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>										

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>4-2-13</i>	TIME <i>1300</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>04/03/13</i>	TIME <i>0927</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO. <i>680</i>	SAVANNAH LOG NO. <i>88913</i>	LABORATORY REMARKS <i>20°</i>

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>2</i> OF <i>2</i>
----------------------------------------------	------------------------------------	---------------------------------------	-------------	-------------------	---------------------------

(b) (6)

COMPOSITE (C) OR GRAB (G) INDICATE
AQUEOUS (WATER)
SOLID OR SEMISOLID
AIR
NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

LL PAH
Metals PCBs

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)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS
DATE	TIME							1	2	3	4	5	6	7	8	9	10	
<i>4-1-13</i>	<i>1258</i>	<i>FM0321A-CS</i>	<i>C</i>	<i>X</i>				<i>X</i>										
	<i>1305</i>	<i>FM0321B-CS</i>	<i>C</i>	<i>X</i>				<i>X</i>										
	<i>1335</i>	<i>FM0326A-CS</i>	<i>C</i>	<i>X</i>				<i>X</i>										
	<i>1344</i>	<i>FM0326B-CS</i>	<i>C</i>	<i>X</i>				<i>X</i>										
<i>4-2-13</i>	<i>0910</i>	<i>040213-RB-sieve</i>		<i>X</i>				<i>X</i>	<i>X</i>									

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>4-2-13</i>	TIME <i>1300</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>04/03/13</i>	TIME <i>0927</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>88913</i>	LABORATORY REMARKS <i>2.0"</i>
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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-88913-2

TestAmerica Sample Delivery Group: 680088913-1

Client Project/Site: 35th Avenue Superfund Site

For:

Oneida Total Integrated Enterprises LLC

1220 Kennestone Circle

Suite 106

Marietta, Georgia 30060

Attn: Ms. Limari F Krebs



Authorized for release by:

4/11/2013 7:08:57 PM

Bernard Kirkland

Project Manager I

bernard.kirkland@testamericainc.com

Designee for

Lisa Harvey

Project Manager II

lisa.harvey@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

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

TestAmerica Job ID: 680-88913-2
SDG: 680088913-1

Job ID: 680-88913-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88913-2

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

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

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

RECEIPT

The samples were received on 04/03/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.0 C.

METALS (ICP)

Sample 040213-RB-sieve (680-88913-17) was analyzed for Metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 04/04/2013 and analyzed on 04/05/2013.

Silver recovered outside the recovery criteria for the MS/MSD of sample 680-88888-1 in batch 680-272160.

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

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Sample 040213-RB-sieve (680-88913-17) was analyzed for total mercury in accordance with EPA Method 245.1. The samples were prepared on 04/04/2013 and analyzed on 04/05/2013.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

METALS (ICP)

Samples CV0116B-CS-SP (680-88913-2) and CV0501B-CS-SP (680-88913-4) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 04/03/2013 and analyzed on 04/06/2013.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample CV0116B-CS-SP (680-88913-2) in batch 680-272761. Lead failed the recovery criteria high.

No other difficulties were encountered during the metals analyses.

Case Narrative

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

TestAmerica Job ID: 680-88913-2
SDG: 680088913-1

Job ID: 680-88913-2 (Continued)

Laboratory: TestAmerica Savannah (Continued)

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples CV0116B-CS-SP (680-88913-2) and CV0501B-CS-SP (680-88913-4) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 04/03/2013 and analyzed on 04/04/2013.

Mercury recovered outside the recovery criteria for the MSD of sample CV0116B-CS-SP (680-88913-2) in batch 680-272064.

No other difficulties were encountered during the mercury analyses.

All other quality control parameters were within the acceptance limits.

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Sample Summary

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

TestAmerica Job ID: 680-88913-2
SDG: 680088913-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88913-2	CV0116B-CS-SP	Solid	04/01/13 14:40	04/03/13 09:27
680-88913-4	CV0501B-CS-SP	Solid	04/01/13 14:00	04/03/13 09:27
680-88913-17	040213-RB-sieve	Water	04/02/13 09:10	04/03/13 09:27

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Method Summary

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

TestAmerica Job ID: 680-88913-2
SDG: 680088913-1

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

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: 680-88913-2
SDG: 680088913-1

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
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: 680-88913-2
 SDG: 680088913-1

Client Sample ID: CV0116B-CS-SP

Lab Sample ID: 680-88913-2

Date Collected: 04/01/13 14:40

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 59.0

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	31		3.3	0.98	mg/Kg	☼	04/03/13 16:02	04/06/13 07:09	1
Barium	200		1.7	0.50	mg/Kg	☼	04/03/13 16:02	04/06/13 07:09	1
Cadmium	1.8		0.83	0.17	mg/Kg	☼	04/03/13 16:02	04/06/13 07:09	1
Chromium	51		1.7	0.83	mg/Kg	☼	04/03/13 16:02	04/06/13 07:09	1
Lead	190		1.7	0.88	mg/Kg	☼	04/03/13 16:02	04/06/13 07:09	1
Selenium	4.2	U	4.2	1.7	mg/Kg	☼	04/03/13 16:02	04/06/13 07:09	1
Silver	0.17	J	1.7	0.16	mg/Kg	☼	04/03/13 16:02	04/06/13 07:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.23		0.031	0.013	mg/Kg	☼	04/03/13 12:47	04/04/13 15:59	1

Client Sample ID: CV0501B-CS-SP

Lab Sample ID: 680-88913-4

Date Collected: 04/01/13 14:00

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 60.3

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	54		2.9	0.84	mg/Kg	☼	04/03/13 16:02	04/06/13 07:42	1
Barium	270		1.4	0.43	mg/Kg	☼	04/03/13 16:02	04/06/13 07:42	1
Cadmium	2.0		0.71	0.14	mg/Kg	☼	04/03/13 16:02	04/06/13 07:42	1
Chromium	57		1.4	0.71	mg/Kg	☼	04/03/13 16:02	04/06/13 07:42	1
Lead	210		1.4	0.76	mg/Kg	☼	04/03/13 16:02	04/06/13 07:42	1
Selenium	3.6	U	3.6	1.4	mg/Kg	☼	04/03/13 16:02	04/06/13 07:42	1
Silver	0.59	J	1.4	0.14	mg/Kg	☼	04/03/13 16:02	04/06/13 07:42	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	0.32		0.030	0.012	mg/Kg	☼	04/03/13 12:47	04/04/13 16:12	1

Client Sample ID: 040213-RB-sieve

Lab Sample ID: 680-88913-17

Date Collected: 04/02/13 09:10

Matrix: Water

Date Received: 04/03/13 09:27

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		04/04/13 15:38	04/05/13 16:38	1
Barium	10	U	10	2.3	ug/L		04/04/13 15:38	04/05/13 16:38	1
Cadmium	5.0	U	5.0	2.0	ug/L		04/04/13 15:38	04/05/13 16:38	1
Chromium	10	U	10	1.2	ug/L		04/04/13 15:38	04/05/13 16:38	1
Lead	15		10	4.0	ug/L		04/04/13 15:38	04/05/13 16:38	1
Selenium	20	U	20	6.4	ug/L		04/04/13 15:38	04/05/13 16:38	1
Silver	10	U	10	0.89	ug/L		04/04/13 15:38	04/05/13 16:38	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		04/04/13 10:49	04/05/13 17:02	1

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-88913-2
 SDG: 680088913-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 680-271953/1-A
 Matrix: Water
 Analysis Batch: 272160

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 271953

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20	U	20	4.6	ug/L		04/04/13 15:38	04/05/13 13:40	1
Barium	10	U	10	2.3	ug/L		04/04/13 15:38	04/05/13 13:40	1
Cadmium	5.0	U	5.0	2.0	ug/L		04/04/13 15:38	04/05/13 13:40	1
Chromium	10	U	10	1.2	ug/L		04/04/13 15:38	04/05/13 13:40	1
Lead	10	U	10	4.0	ug/L		04/04/13 15:38	04/05/13 13:40	1
Selenium	20	U	20	6.4	ug/L		04/04/13 15:38	04/05/13 13:40	1
Silver	10	U	10	0.89	ug/L		04/04/13 15:38	04/05/13 13:40	1

Lab Sample ID: LCS 680-271953/3-A
 Matrix: Water
 Analysis Batch: 272160

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 271953

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	200	220		ug/L		110	85 - 115
Barium	200	202		ug/L		101	85 - 115
Cadmium	200	203		ug/L		102	85 - 115
Chromium	200	211		ug/L		106	85 - 115
Lead	200	198		ug/L		99	85 - 115
Selenium	200	199		ug/L		99	85 - 115
Silver	200	203		ug/L		102	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 680-271877/1-A
 Matrix: Water
 Analysis Batch: 272204

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 271877

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.091	ug/L		04/04/13 10:49	04/05/13 16:28	1

Lab Sample ID: LCS 680-271877/2-A
 Matrix: Water
 Analysis Batch: 272204

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 271877

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.50		ug/L		100	85 - 115

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-271798/1-A
 Matrix: Solid
 Analysis Batch: 272761

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 271798

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0	U	2.0	0.59	mg/Kg		04/03/13 16:02	04/06/13 06:50	1
Barium	1.0	U	1.0	0.30	mg/Kg		04/03/13 16:02	04/06/13 06:50	1
Cadmium	0.50	U	0.50	0.10	mg/Kg		04/03/13 16:02	04/06/13 06:50	1
Chromium	1.0	U	1.0	0.50	mg/Kg		04/03/13 16:02	04/06/13 06:50	1

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-88913-2
 SDG: 680088913-1

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

Lab Sample ID: MB 680-271798/1-A
Matrix: Solid
Analysis Batch: 272761

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 271798

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	1.0	U	1.0	0.53	mg/Kg		04/03/13 16:02	04/06/13 06:50	1
Selenium	2.5	U	2.5	1.0	mg/Kg		04/03/13 16:02	04/06/13 06:50	1
Silver	1.0	U	1.0	0.096	mg/Kg		04/03/13 16:02	04/06/13 06:50	1

Lab Sample ID: LCS 680-271798/3-A
Matrix: Solid
Analysis Batch: 272761

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 271798

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Arsenic	19.8	22.0		mg/Kg		111	75 - 125
Barium	19.8	20.8		mg/Kg		105	75 - 125
Cadmium	19.8	20.5		mg/Kg		103	75 - 125
Chromium	19.8	21.4		mg/Kg		108	75 - 125
Lead	19.8	20.3		mg/Kg		102	75 - 125
Selenium	19.8	19.8		mg/Kg		100	75 - 125
Silver	19.8	21.0		mg/Kg		106	75 - 125

Lab Sample ID: 680-88913-2 MS
Matrix: Solid
Analysis Batch: 272761

Client Sample ID: CV0116B-CS-SP
Prep Type: Total/NA
Prep Batch: 271798

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Arsenic	31		16.3	48.9		mg/Kg	☼	110	75 - 125
Barium	200		16.3	192	4	mg/Kg	☼	-31	75 - 125
Cadmium	1.8		8.15	9.45		mg/Kg	☼	94	75 - 125
Chromium	51		16.3	71.2		mg/Kg	☼	121	75 - 125
Lead	190		8.15	184	4	mg/Kg	☼	-117	75 - 125
Selenium	4.2	U	16.3	14.9		mg/Kg	☼	91	75 - 125
Silver	0.17	J	8.15	1.28	J F	mg/Kg	☼	14	75 - 125

Lab Sample ID: 680-88913-2 MSD
Matrix: Solid
Analysis Batch: 272761

Client Sample ID: CV0116B-CS-SP
Prep Type: Total/NA
Prep Batch: 271798

Analyte	Sample Sample		Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	
	Result	Qualifier		Result	Qualifier					RPD	Limit
Arsenic	31		16.6	46.0		mg/Kg	☼	90	75 - 125	6	20
Barium	200		16.6	216	4	mg/Kg	☼	115	75 - 125	12	20
Cadmium	1.8		8.31	9.71		mg/Kg	☼	96	75 - 125	3	20
Chromium	51		16.6	62.7	F	mg/Kg	☼	68	75 - 125	13	20
Lead	190		8.31	215	4	mg/Kg	☼	256	75 - 125	15	20
Selenium	4.2	U	16.6	14.6		mg/Kg	☼	88	75 - 125	2	20
Silver	0.17	J	8.31	1.15	J F	mg/Kg	☼	12	75 - 125	10	20

QC Sample Results

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

TestAmerica Job ID: 680-88913-2
 SDG: 680088913-1

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

Lab Sample ID: MB 680-271744/1-A
Matrix: Solid
Analysis Batch: 272064

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 271744

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	U	0.018	0.0075	mg/Kg		04/03/13 12:47	04/04/13 15:23	1

Lab Sample ID: LCS 680-271744/2-A
Matrix: Solid
Analysis Batch: 272064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 271744

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.250	0.262		mg/Kg		105	80 - 120

Lab Sample ID: 680-88913-2 MS
Matrix: Solid
Analysis Batch: 272064

Client Sample ID: CV0116B-CS-SP
Prep Type: Total/NA
Prep Batch: 271744

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.23		0.163	0.397		mg/Kg	☼	101	80 - 120

Lab Sample ID: 680-88913-2 MSD
Matrix: Solid
Analysis Batch: 272064

Client Sample ID: CV0116B-CS-SP
Prep Type: Total/NA
Prep Batch: 271744

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Mercury	0.23		0.166	0.332	F	mg/Kg	☼	60	80 - 120	18	20

QC Association Summary

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

TestAmerica Job ID: 680-88913-2
 SDG: 680088913-1

Metals

Prep Batch: 271744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88913-2	CV0116B-CS-SP	Total/NA	Solid	7471B	
680-88913-2 MS	CV0116B-CS-SP	Total/NA	Solid	7471B	
680-88913-2 MSD	CV0116B-CS-SP	Total/NA	Solid	7471B	
680-88913-4	CV0501B-CS-SP	Total/NA	Solid	7471B	
LCS 680-271744/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 680-271744/1-A	Method Blank	Total/NA	Solid	7471B	

Prep Batch: 271798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88913-2	CV0116B-CS-SP	Total/NA	Solid	3050B	
680-88913-2 MS	CV0116B-CS-SP	Total/NA	Solid	3050B	
680-88913-2 MSD	CV0116B-CS-SP	Total/NA	Solid	3050B	
680-88913-4	CV0501B-CS-SP	Total/NA	Solid	3050B	
LCS 680-271798/3-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 680-271798/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 271877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88913-17	040213-RB-sieve	Total/NA	Water	245.1	
LCS 680-271877/2-A	Lab Control Sample	Total/NA	Water	245.1	
MB 680-271877/1-A	Method Blank	Total/NA	Water	245.1	

Prep Batch: 271953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88913-17	040213-RB-sieve	Total/NA	Water	200.7	
LCS 680-271953/3-A	Lab Control Sample	Total/NA	Water	200.7	
MB 680-271953/1-A	Method Blank	Total/NA	Water	200.7	

Analysis Batch: 272064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88913-2	CV0116B-CS-SP	Total/NA	Solid	7471B	271744
680-88913-2 MS	CV0116B-CS-SP	Total/NA	Solid	7471B	271744
680-88913-2 MSD	CV0116B-CS-SP	Total/NA	Solid	7471B	271744
680-88913-4	CV0501B-CS-SP	Total/NA	Solid	7471B	271744
LCS 680-271744/2-A	Lab Control Sample	Total/NA	Solid	7471B	271744
MB 680-271744/1-A	Method Blank	Total/NA	Solid	7471B	271744

Analysis Batch: 272160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88913-17	040213-RB-sieve	Total/NA	Water	200.7 Rev 4.4	271953
LCS 680-271953/3-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	271953
MB 680-271953/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	271953

Analysis Batch: 272204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88913-17	040213-RB-sieve	Total/NA	Water	245.1	271877
LCS 680-271877/2-A	Lab Control Sample	Total/NA	Water	245.1	271877
MB 680-271877/1-A	Method Blank	Total/NA	Water	245.1	271877

QC Association Summary

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

TestAmerica Job ID: 680-88913-2
SDG: 680088913-1

Metals (Continued)

Analysis Batch: 272761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88913-2	CV0116B-CS-SP	Total/NA	Solid	6010C	271798
680-88913-2 MS	CV0116B-CS-SP	Total/NA	Solid	6010C	271798
680-88913-2 MSD	CV0116B-CS-SP	Total/NA	Solid	6010C	271798
680-88913-4	CV0501B-CS-SP	Total/NA	Solid	6010C	271798
LCS 680-271798/3-A	Lab Control Sample	Total/NA	Solid	6010C	271798
MB 680-271798/1-A	Method Blank	Total/NA	Solid	6010C	271798

General Chemistry

Analysis Batch: 136123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88913-2	CV0116B-CS-SP	Total/NA	Solid	Moisture	
680-88913-2 MS	CV0116B-CS-SP	Total/NA	Solid	Moisture	
680-88913-2 MSD	CV0116B-CS-SP	Total/NA	Solid	Moisture	
680-88913-4	CV0501B-CS-SP	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 680-88913-2
 SDG: 680088913-1

Client Sample ID: CV0116B-CS-SP

Lab Sample ID: 680-88913-2

Date Collected: 04/01/13 14:40

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 59.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			271744	04/03/13 12:47	UU	TAL SAV
Total/NA	Analysis	7471B		1	272064	04/04/13 15:59	BCB	TAL SAV
Total/NA	Prep	3050B			271798	04/03/13 16:02	JKL	TAL SAV
Total/NA	Analysis	6010C		1	272761	04/06/13 07:09	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	136123	04/04/13 12:49	AG	TAL TAM

Client Sample ID: CV0501B-CS-SP

Lab Sample ID: 680-88913-4

Date Collected: 04/01/13 14:00

Matrix: Solid

Date Received: 04/03/13 09:27

Percent Solids: 60.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			271744	04/03/13 12:47	UU	TAL SAV
Total/NA	Analysis	7471B		1	272064	04/04/13 16:12	BCB	TAL SAV
Total/NA	Prep	3050B			271798	04/03/13 16:02	JKL	TAL SAV
Total/NA	Analysis	6010C		1	272761	04/06/13 07:42	BCB	TAL SAV
Total/NA	Analysis	Moisture		1	136123	04/04/13 12:49	AG	TAL TAM

Client Sample ID: 040213-RB-sieve

Lab Sample ID: 680-88913-17

Date Collected: 04/02/13 09:10

Matrix: Water

Date Received: 04/03/13 09:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.7			271953	04/04/13 15:38	BB	TAL SAV
Total/NA	Analysis	200.7 Rev 4.4		1	272160	04/05/13 16:38	BCB	TAL SAV
Total/NA	Prep	245.1			271877	04/04/13 10:49	UU	TAL SAV
Total/NA	Analysis	245.1		1	272204	04/05/13 17:02	BCB	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>2</i>
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(b) (6)	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE _____
					<i>LLPAH</i> <i>PCE&M Metals</i>	EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	DATE DUE _____

COMPANY CONTRACTING THIS WORK (if applicable)

PRESERVATIVE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS			
DATE	TIME							1	2	3	4	5	6	7	8	9	10		11	12	
<i>4-1-13</i>	<i>1430</i>	<i>CV0116A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>														
<i>4-1-13</i>	<i>1440</i>	<i>CV0116B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>	<i>X</i>													
	<i>1350</i>	<i>CV0501A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>														
	<i>1400</i>	<i>CV0501B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>	<i>X</i>													
	<i>1320</i>	<i>FM0128A-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>														
	<i>1330</i>	<i>FM0128B-CS-SP</i>	<i>C</i>	<i>X</i>			<i>X</i>														
	<i>1520</i>	<i>HP0219A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>														
	<i>1425</i>	<i>FM0207A-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>														
	<i>1430</i>	<i>FM0207A-CSD</i>	<i>C</i>	<i>X</i>			<i>X</i>														
	<i>1437</i>	<i>FM0207B-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>														
	<i>1442</i>	<i>FM0207C-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>														
	<i>1451</i>	<i>FM0207D-CS</i>	<i>C</i>	<i>X</i>			<i>X</i>														

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>4-2-13</i>	TIME <i>1300</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>04/02/13</i>	TIME <i>0921</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680-88913</i>	LABORATORY REMARKS <i>20°C</i>
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4/11/2013



ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>2</i> OF <i>2</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
Metals RECA-8

STANDARD REPORT DELIVERY
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE)
DATE DUE _____

COMPANY CONTRACTING THIS WORK (if applicable)

PRESERVATIVE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS		
DATE	TIME							1	2	3	4	5	6	7	8	9	10		11	12
<i>4-1-13</i>	<i>1258</i>	<i>FM0321A-CS</i>	<i>C</i>	<i>X</i>				<i>X</i>												
	<i>1305</i>	<i>FM0321B-CS</i>	<i>C</i>	<i>X</i>				<i>X</i>												
	<i>1335</i>	<i>FM0326A-CS</i>	<i>C</i>	<i>X</i>				<i>X</i>												
	<i>1344</i>	<i>FM0326B-CS</i>	<i>C</i>	<i>X</i>				<i>X</i>												
<i>4-2-13</i>	<i>0910</i>	<i>040213-RB-sieve</i>		<i>X</i>				<i>X</i>	<i>X</i>											

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>4-2-13</i>	TIME <i>1300</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>04/03/13</i>	TIME <i>0927</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>88913</i>	LABORATORY REMARKS <i>2.0"</i>
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4/11/2013



Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88913-2

SDG Number: 680088913-1

Login Number: 88913

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: 680-88913-2

SDG Number: 680088913-1

Login Number: 88913

List Number: 1

Creator: Snead, Joshua

List Source: TestAmerica Tampa

List Creation: 04/04/13 11:11 AM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

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

TestAmerica Job ID: 680-88913-2
 SDG: 680088913-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	05-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Guam	State Program	9	09-005r	04-17-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12 *
Kentucky (UST)	State Program	4	18	03-31-13 *
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
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: 680-88913-2
SDG: 680088913-1

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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