The Dow Chemical Company
P.O. Box 8361
South Charleston, WV 25303-8361
USA

October 16, 2012

Ms. Gail A. Dieter
New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau E, Section B
625 Broadway, 12th Floor
Albany, NY 12233-7017

Subject: AOC A – Seneca-Cayuga Canal Sediment Sampling for Waste Characterization and Landfill Approval to Seneca Meadows Landfill
Former Hampshire Chemical Corp. Facility, Waterloo, New York

Dear Ms. Dieter:

As discussed during a telephone conversation with Dakon Brodmerkel of CH2M HILL on June 21, 2012, related to initial comments from the New York State Department of Environmental Conversation (NYSDEC) on the *Corrective Measures Study* (CMS) *for AOC A – Seneca-Cayuga Canal* (CH2M HILL, 2012), this letter is to inform you of sediment sampling for waste characterization purposes for the excavated sediment that will be generated during implementation of the upcoming corrective measures. This letter also includes the analytical results of sediment samples collected from June 21 to 23, 2012.

On behalf of Hampshire Chemical Corp., sediment sampling was performed by CH2M HILL. The purpose of this field work was to collect additional information in support of the sediment remediation design for the removal, handling, treatment, and disposal of the sediment excavated from the target area outlined in the CMS at Area of Concern (AOC) A in the Seneca-Cayuga Canal.

The sampling was performed for characterization purposes for landfilling after detailed discussions with Seneca Meadows Landfill (SML), which has been identified as the potential waste disposal facility for the AOC A sediment waste. The data collected, which also complements the sediment data collected to date, consist of toxicity characteristic leaching procedure (TCLP) data to allow the landfill to process a waste profile for the sediment. The sampling frequency, locations, and analysis have been shared with SML, and they have agreed that these data will be sufficient for profiling the sediment.

The goal of the sampling was to collect TCLP samples over the extent of each deposit, which would be representative of the sediments in each area when generated. Also, as part of the sampling, additional volumes of material were collected for bench-scale testing to determine the need for additive materials to pass paint filter testing before disposal of the sediment.

The sampling plan was submitted to SML via e-mail on May 17, 2012, and SML provided an e-mail response on May 23, 2012 which indicated that the sampling approach would allow for waste characterization for the sediment.

The New York State Canal Corporation was notified of the field event, which was performed under permit approval number C3W120008. Field sampling began on June 21 and was completed on June 25, 2012. Sampling areas were distributed among the three remedial target areas (RTAs) at AOC A. The three areas are the North Shore Deposit, the Gorham Street Deposit, and portions of the Downstream Deposit, as presented in the CMS. The sampling approach that was agreed upon with SML is described below.

North Shore Deposit

This RTA has approximately 1,000 cubic yards of sediment that will be removed for disposal. Sediment sampling results from 2004 and 2009 showed 14 out of 33 stations exceeding the 20 times TCLP limit for at least one metal (Table 1). The deposit was divided into two sections and sediment samples were collected from 10 stations (five stations in each section), all of which were from locations that exceeded the 20 times TCLP limit for at least one parameter, (Figure 1) up to a maximum depth of 48 inches below sediment surface (bss) or refusal. The samples were composited into two samples (NS-01 and NS-02 with five stations per sample) for TCLP metals analysis. The five easternmost sample locations were composited together and the five westernmost sample locations were composited together (Figure 1) for representative samples from areas that will be excavated during the remediation event.

Sample stations included representative stations over the deposit area; however, all the stations selected for sampling exceeded the TCLP limit for one or more of the four metals of concern (cadmium, chromium, lead and mercury), and at one or more sample interval at each station.

Gorham Street Deposit

This RTA has approximately 4,400 cubic yards of sediment that will be removed for disposal. Sediment sampling results from 2009 showed 11 out of 15 stations exceeding the 20 times TCLP limit for at least one metal (Table 2). Similar to the North Shore Deposit, the area was divided into four sections (Figure 1), with each section having a total of five stations. Sediment samples were collected from each group of five stations up to a maximum depth of 36 inches bss or refusal and were composited into one sample for TCLP metals analysis. All fifteen of the original sample locations, eleven of which had TCLP results over the 20 times limit for at least one compound, were sampled; five additional stations that were not sampled previously (designated as SD-87 through SD-91 on Figure 1) were added to meet SML's requirement of four composite samples (GS-01 to GS-04) for this deposit.

Downstream Deposit

This RTA has approximately 1,810 cubic yards of sediment that will be removed for disposal. Sediment sampling results from 2009 had 4 out of 7 stations within the area that will be removed exceeding the 20 times TCLP limit for lead only (Table 3). Five stations,

including the four that exceeded the 20 times limit for TCLP, were sampled and composited into one sample (DS-01) for TCLP analysis (Figure 1). As noted in the CMS (CH2M HILL, 2012), the RTA at the Downstream Deposit is 2 feet of sediment removal on western edge of the deposit (SD-71 to SD-73) and 1 foot of sediment removal along the northern bank of the deposit from SD-73 to Silver Creek, in the portion of the deposit from SD-74 to the northern edge of soft sediment accumulation (Figure 1). Based on these areas selected for removal within the Downstream Deposit, sediment samples were collected from four of the five stations up to a maximum depth of 24 inches bss, and at one station within the 1-foot portion of the RTA up to a maximum depth of 12 inches bss.

Sampling Method

A CH2M HILL subcontractor, Ocean Surveys Inc., which performed previous sediment sampling investigations at AOC A, provided the water vessel, global positioning system, and all other sampling tools that were used to collect sediment from the select locations. Historical station locations were identified based on global positioning system coordinates from the previous sampling events, and the five new stations at the Gorham Street Deposit were targeted within the RTA and at locations that were not previously sampled. Samples for TCLP analysis were collected from the RTAs using vibratory coring methods at the appropriate depth intervals and were composited using clean, dedicated disposable trowels and pans. All of the sediment collected from the entire length of each core from the five stations was placed in clean 5-gallon buckets and mixed to form a composite sample with clean dedicated disposable plastic trowels. A portion of the sediment composited from each of the groups of five stations was placed in a 4-ounce clear jar and packed in accordance with the CH2M HILL standard operating procedure for sample shipment via FedEx to the laboratory. The material that was placed in the sample jars only included sediment from the AOC A locations sampled, and did not include any drying agents.

All the sediment samples were submitted to Microbac Laboratories, Inc. (New York State Laboratory ID No. 10861) under chain-of-custody. The samples from the North Shore and Gorham Street deposits were analyzed for metal-specific TCLP in accordance with U.S. Environmental Protection Agency (USEPA) Methods SW846 6010B/7470A for lead, mercury, cadmium, and chromium. The Downstream Deposit was only analyzed for lead in accordance with the above USEPA Method SW846 6010B because it was the only metal of concern that was found at levels greater than or equal to 20 times the TCLP limit.

Investigation-derived waste (personal protective equipment, sampling materials, core liners, and sediment) were segregated and stored onsite in 55-gallon drums for subsequent characterization and offsite disposal.

Bench-scale Testing

In support of the amendment mixing bench-scale testing mentioned in the CMS (CH2M HILL, 2012), bulk sediment material was collected from select locations within the RTAs as

bulk representative samples. Four 5-gallon buckets of sediment materials were collected from locations and depths representative of each sediment removal area and sediment type. Two of these samples were collected from the North Shore Deposit from a maximum depth of 0 to 48 inches bss. The other two samples were collected from the Gorham Street Deposit; one from a maximum depth of 0 to 24 inches bss, and the second from a maximum depth of 0 to 12 inches bss.

The bench-scale test will be conducted to determine if and at what ratios amendments will be needed for dewatering needs of the sediment to meet the paint filter disposal requirements. A varying range of admixtures will be used at different volumes to determine the admixture needed, if any, to pass the paint filter test.

Analytical Results

The analytical results for the seven TCLP metals samples (NS-01, NS-02, GS-01 to GS-04 and DS-01) were submitted to SML on July 10 2012 for review and appropriate characterization and profiling of the sediment waste. The results are also presented in the attached Table 4 and the analytical report is presented in the appendix. All seven sediment sample results were non-detect for the TCLP metals of concern that exceeded the 20 times TCLP limit from previous sampling events.

Hampshire Chemical Corp. has been working closely with SML to obtain a profile for the sediment to be generated during the upcoming corrective measures. Based on the discussions with SML, we believe this sampling approach and results provides representative characterization of the sediment. SML has indicated that no additional sampling will be required, either prior to generation of the sediment of during the removal effort, for landfilling of this material.

Please contact me at 304-747-7788, if you have any questions or comments regarding the sampling or results.

Sincerely,

Jerome E. Cibrik, P.G.
Remediation Leader

Attachments

cc: Mr. Pete Hoffmire, NYSDEC Region 8
Mr. Scott Rodabaugh, NYSDEC Region 8
Mr. Steve Brusso, Evans Chemetics
Mr. David Pannucci, SML
CH2M HILL Project File

Table 1. Exceedances of 20 Times TCLP Limits in the North Shore Deposit
AOC A - Seneca-Cayuga Sediment Sampling for Waste Characterization and Landfill Approval to Seneca Meadows Landfil
Former Hampshire Chemical Corp. Facility, Waterloo, New York

June 2012 TCLP Sample ID	METAL 20x TCLP LIMIT	LEAD 100 mg/kg					MERCURY 4 mg/kg			CADMIUM 20 mg/kg			CHROMIUM 100 mg/kg		
	DEPTH (in bss) LOCATION	0 - 6	6-12	12-24	24-36	36 - 48	0 - 6	6-12	12-24	0 - 6	12-24	24-30	12-24	24-36	36 - 48
	2009														
NS-02	SCC-SD-03		116	129				15.1							
NS-01	SCC-SD-24				2,480						23.3	3,660		522	
NS-01	SCC-SD-26	174	197	213			6.31	8.67	9.72		31.3	35.9	128		
NS-02	SCC-SD-27	1,470	158					4.04							
NS-02	SCC-SD-30	365													
Not sampled	SCC-SD-33	188	173		159	306		11	4.17					230	105
NS-02	SCC-SD-35		497	5,950				4.74	4.48						
NS-02	SCC-SD-38	223					6.29								
	2004														
Not sampled	SD-03B-01									21.9					
Not sampled	SD-04A-01 and SD-04A-02	517		167									336		
NS-01	SD-04B-01	301								166					
Not sampled	SD-04C-01	105													
NS-01	SD-04D-01 and SD-04D-02	216		634			12.8		68.3		49.2				
NS-01	SD-06A-01	177/205													

Notes:
in bss - inches below sediment surface
mg/kg - milligrams per kilogram
TCLP - toxicity characteristic leaching procedure
177/205 - corresponds to parent and duplicate sample results, respectively
All results are in milligrams per kilogram
Results are not shown for sample intervals that did not exceed the corresponding TCLP limit

Table 2. Exceedances of 20 Times TCLP Limits in the Gorham Street Deposit
AOC A - Seneca-Cayuga Sediment Sampling for Waste Characterization and Landfill Approval to Seneca Meadows Landfill
Former Hampshire Chemical Corp. Facility, Waterloo, New York

June 2012 TCLP Sample ID	METAL 20x TCLP LIMIT	LEAD 100 mg/kg					MERCURY 4 mg/kg					CADMIUM 20 mg/kg		CHROMIUM 100 mg/kg	
	DEPTH (in bss) LOCATION	0 - 6	6 - 12	12 - 24	24-36	36 - 48	0 - 6	6 - 12	12 - 24	24-36	36 - 48	0 - 6	6 - 12	12 - 24	24-36
GS-01	SCC-SD-19		12,700			101									
GS-01	SCC-SD-20	157													
GS-01	SCC-SD-39	150													
GS-02	SCC-SD-40	425	508				135	4.87							
GS-02	SCC-SD-41	190	254				5.21	6.15						110	
GS-03	SCC-SD-42	125	119		124			6.15	6.16						182
GS-03	SCC-SD-43		131					4.38							
GS-03	SCC-SD-44		177	113					8.21						
GS-03	SCC-SD-45			123					4.11	5.36					
GS-03	SCC-SD-46								4.14						
GS-01	SCC-SD-49	316	180									60.2	41.7		
	RESULTS LESS THAN TCLP LIMIT														
GS-02	SCC-SD-47														
GS-02	SCC-SD-48														
GS-01	SCC-SD-18														
GS-02	SCC-SD-21														
	June 2012 TCLP Sample Location														
GS-04	SD-87_01														
GS-04	SD-88_01														
GS-04	SD-89_01														
GS-04	SD-90_01														
GS-04	SD-91_01														

Notes:
in bss - inches below sediment surface
mg/kg - milligrams per kilogram
TCLP - toxicity characteristic leaching procedure
All results are in milligrams per kilogram
Results are not shown for sample intervals that did not exceed the corresponding TCLP limit.

Table 3. Exceedances of 20 Times TCLP Limits in the Downstream Deposit
AOC A - Seneca-Cayuga Sediment Sampling for Waste Characterization and Landfill Approval to Seneca Meadows Landfill
Former Hampshire Chemical Corp. Facility, Waterloo, New York

June 2012 TCLP Sample ID	METAL 20x TCLP LIMIT	LEAD 100 mg/kg		
	DEPTH (in bss) LOCATION	0 - 6	6-12	6-18
DS-01	SCC-SD-54		134	
	SCC-SD-71			148
	SCC-SD-72	118		
	SCC-SD-73	200		
	RESULTS LESS THAN TCLP LIMIT			
	SCC-SD-74			

Notes:
in bss - inches below sediment surface
mg/kg - milligrams per kilogram
TCLP - toxicity characteristic leaching procedure
All results are in milligrams per kilogram
Results are not shown for sample intervals that did not exceed the corresponding TCLP limit.

Table 4. June 2012 TCLP Metals Sediment Results
AOC A - Seneca-Cayuga Canal Sediment Sampling For Waste Characterization and Landfill Approval to Seneca Meadows Landfill
Former Hampshire Chemical Corp., Waterloo, New York

Location		NS01	NS02	GS01	GS02	GS03	GS04	DS01
Sample ID	20X TCLP Limit	NS01-062312	NS02-062212	GS01-062112	GS02-062112	GS03-062212	GS04-062212	DS01-062312
Sample Date	(mg/kg)	6/23/2012	6/22/2012	6/21/2012	6/21/2012	6/22/2012	6/22/2012	6/23/2012
TCLP METAL (mg/L)								
Cadmium	20	**0.00500 U**	**0.00500 U**	**0.00500 U**	**0.00500 U**	**0.00500 U**	**0.00500 U**	**NR**
Chromium	100	**0.0500 U**	**0.0500 U**	**0.0500 U**	**0.0500 U**	**0.0500 U**	**0.0500 U**	**NR**
Lead	100	**1.0 U**	**1.0 U**	**1.0 U**	**1.0 U**	**1.0 U**	**1.0 U**	**1.0 U**
Mercury	4	**0.00200 U**	**0.00200 U**	**0.00200 U**	**0.00200 U**	**0.00200 U**	**0.00200 U**	**NR**

Notes:
NR = Not required
U = The analyte was a not detected at or above thesample detection limit.
mg/kg = Milligrams per Kilogram
mg/L = Micrograms per Liter
TCLP = Toxicity Characteristic Leaching Procedure
Analytical results based on Microbac laboratory report L12060837_level4_0 dated July 6, 2012.
"B" flagged data in the laboratory report were changed to "U" as the analyte was not detected in the sample and therefore, not affected by blank contamination.
All analytical results are presented in attached Microbac report L12060837

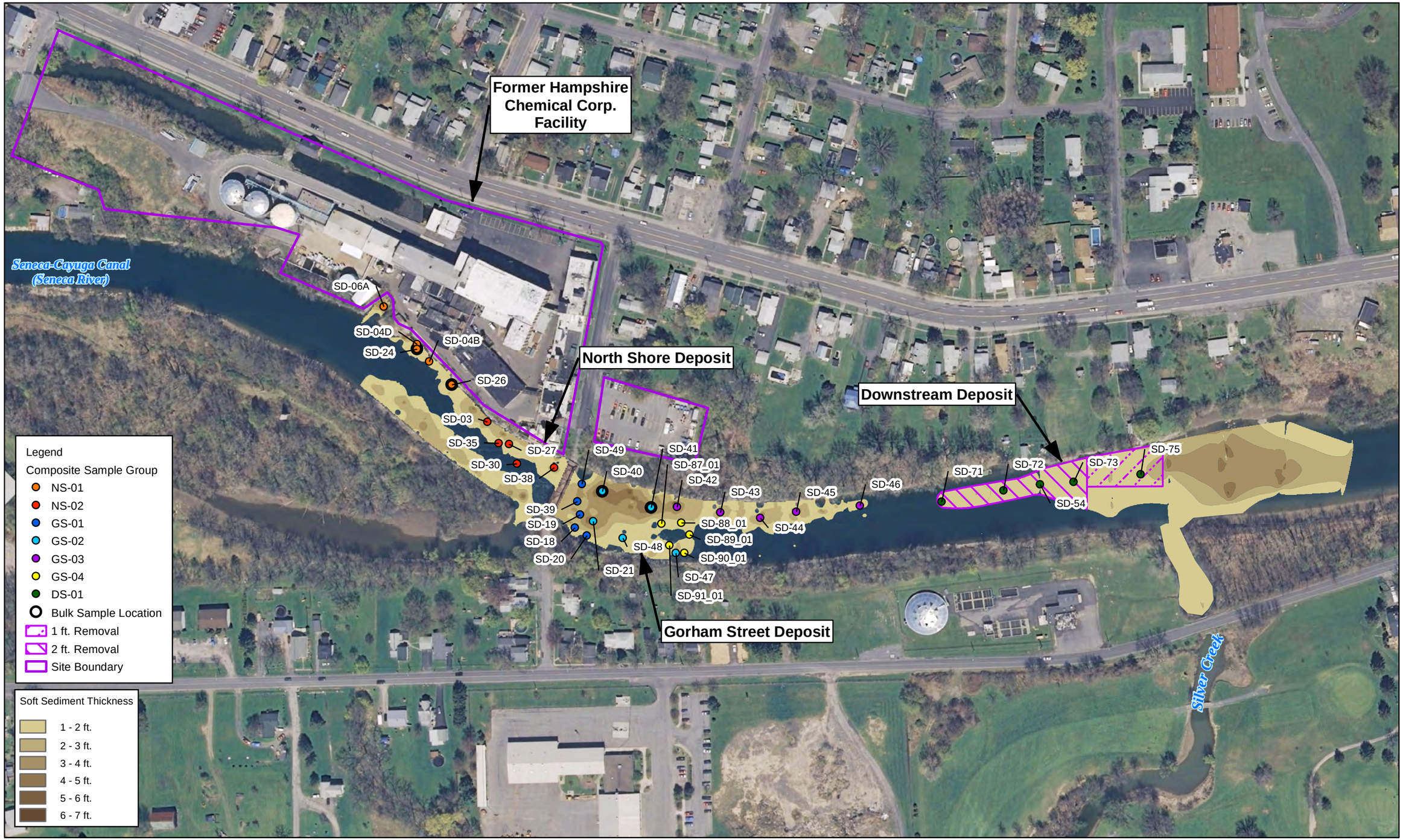


Figure 1
AOC A – Sediment Sampling Locations - June 2012
AOC A - Seneca-Cayuga Canal Sediment Sampling for Waste Characterization and Landfill Approval to Seneca Meadows Landfill
Former Hampshire Chemical Corp. Facility
Waterloo, New York

CH2MHILL

\\LAKEFRONT\PROJ\GIS\DOW\WATERLOO\REPORTS\2012\ICMWORKPLAN_ATSWMU 1\MAPFILES\COMPOSITESAMPLING.MXD JCARR3 6/26/2012 3:43:08 PM

Microbac

Laboratory Report Number: L12060837

Shane Lowe
CH2MHILL, Inc
CH2MHILL
Richmond Heights, MO 63117

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac's Ohio Valley Division (OVD). If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed below.

Laboratory Contact:
Kathy Albertson – Team Chemist/Data Specialist
(740) 373-4071
Kathy.Albertson@microbac.com

I certify that all test results meet all of the requirements of the accrediting authority listed below. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

This report was certified on July 06 2012

David E. Vandenberg

David Vandenberg – Managing Director

State of Origin: NY
Accrediting Authority: Department of Health ID:10861
QAPP: WATERLOO

Record of Sample Receipt and Inspection

Comments/Discrepancies

This is the record of the shipment conditions and the inspection records for the samples received and reported as a sample delivery group (SDG). All of the samples were inspected and observed to conform to our receipt policies, except as noted below.

There were no discrepancies.

Discrepancy	Resolution

Coolers

Cooler #	Temperature Gun	Temperature	COC #	Airbill #
0017108	H	3.0		1002239503760004575000800660955862

Inspection Checklist

#	Question	Result
1	Were shipping coolers sealed?	Yes
2	Were custody seals intact?	Yes
3	Were cooler temperatures in range of 0-6?	Yes
4	Was ice present?	Yes
5	Were COC's received/information complete/signed and dated?	Yes
6	Were sample containers intact and match COC?	Yes
7	Were sample labels intact and match COC?	Yes
8	Were the correct containers and volumes received?	Yes
9	Were samples received within EPA hold times?	Yes
10	Were correct perservatives used? (water only)	NA
11	Were pH ranges acceptable? (voa's excluded)	NA
12	Were VOA samples free of headspace (less than 6mm)?	NA

Samples Received

Client ID	Laboratory ID	Date Collected	Date Received
NS01-062312	L12060837-01	06/23/2012 09:30	06/26/2012 10:54
NS02-062212	L12060837-02	06/22/2012 14:15	06/26/2012 10:54
GS01-062112	L12060837-03	06/21/2012 14:30	06/26/2012 10:54
GS02-062112	L12060837-04	06/21/2012 18:00	06/26/2012 10:54
GS03-062212	L12060837-05	06/22/2012 16:15	06/26/2012 10:54
GS04-062212	L12060837-06	06/22/2012 12:45	06/26/2012 10:54
DS01-062312	L12060837-07	06/23/2012 09:00	06/26/2012 10:54

Microbac REPORT L12060837
PREPARED FOR CH2MHILL, Inc
WORK ID:

1.0 Summary Data

1.1 Narratives

Login Number: L12060837
Department: Metals
Analyst: Pierce Morris

METHOD

Preparation: SW-846 3015

Analysis: SW-846 6010

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: WG401974 -The initial calibration blank analyzed on 29-JUN-2012 at 09:20 yielded a result for chromium of 0.00647 mg/L which exceeded the reporting limit, however, all samples associated with the noncompliant ICB yielded results that were below the reporting limit for chromium therefore no further action was taken. The samples were reported with a 'B' qualifier to indicate the association with the noncompliant ICB.

Interference Check Standards: WG401974 - Due to an unexpected power failure no closing ICSA/ICSAB were analyzed on 29-JUN-2012. However with the permission of the project chemist no further action was taken.

Continuing Calibration Verification: All acceptance criteria were met.

Continuing Calibration Blank: WG401974 -The continuing calibration blank bracketing the interference check samples analyzed on 29-JUN-2012 at 11:10 yielded a result for chromium of 0.0101 mg/L which exceeded the reporting limit, however, since no client samples were bracketed by the noncompliant CCB and all samples associated with the noncompliant CCB yielded results that were below the reporting limit for chromium no further action was taken.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

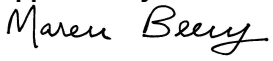
Serial Dilution/Post Digestion Spikes: WG401974 - All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

Narrative ID: 49459
Approved By: Maren Beery



Login Number: L12060837
Department: Metals - AA
Analyst: Pierce Morris

METHOD

Preparation: SW-846 7470

Analysis: SW-846 7470

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Interference Check Standards: All acceptance criteria were met.

Continuing Calibration Verification: All acceptance criteria were met.

Continuing Calibration Blank: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Serial Dilution/Post Digestion Spikes: WG402160 - All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

Narrative ID: 49382
Approved By: Sheri Pfalzgraf

1.2 Certificate of Analysis

Certificate of Analysis

Sample #:	L12060837-01	**PrePrep Method:**		**Instrument:**	ICP-THERMO1
Client ID:	NS01-062312	**Prep Method:**	3015	**Prep Date:**	06/28/2012 13:24
Matrix:	TCLP Leachate	**Analytical Method:**	6010B	**Cal Date:**	06/29/2012 09:14
Workgroup #:	WG401974	**Analyst:**	PDM	**Run Date:**	06/29/2012 16:20
Collect Date:	06/23/2012 09:30	**Dilution:**	1	**File ID:**	T1.062912.162052
Sample Tag:	02	**Units:**	mg/L		

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Cadmium, TCLP		U	0.00500	0.00250	D006	1
Chromium, TCLP		B	0.0500	0.0250	D007	5
Lead, TCLP		U	1.00	0.100	D008	5

B	Analyte detected in the method blank
U	Not detected at or above adjusted sample detection limit.

Sample #:	L12060837-01	**PrePrep Method:**		**Instrument:**	HYDRA
Client ID:	NS01-062312	**Prep Method:**	7470A	**Prep Date:**	06/28/2012 12:19
Matrix:	TCLP Leachate	**Analytical Method:**	7470A	**Cal Date:**	07/02/2012 11:51
Workgroup #:	WG402160	**Analyst:**	PDM	**Run Date:**	07/02/2012 12:47
Collect Date:	06/23/2012 09:30	**Dilution:**	1	**File ID:**	HY.070212.124725
Sample Tag:	01	**Units:**	mg/L		

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Mercury		U	0.00200	0.00100	D009	0.2

U	Not detected at or above adjusted sample detection limit.

Sample #:	L12060837-02	**PrePrep Method:**		**Instrument:**	ICP-THERMO1
Client ID:	NS02-062212	**Prep Method:**	3015	**Prep Date:**	06/28/2012 13:24
Matrix:	TCLP Leachate	**Analytical Method:**	6010B	**Cal Date:**	06/29/2012 09:14
Workgroup #:	WG401974	**Analyst:**	PDM	**Run Date:**	06/29/2012 16:24
Collect Date:	06/22/2012 14:15	**Dilution:**	1	**File ID:**	T1.062912.162418
Sample Tag:	02	**Units:**	mg/L		

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Cadmium, TCLP		U	0.00500	0.00250	D006	1
Chromium, TCLP		B	0.0500	0.0250	D007	5
Lead, TCLP		U	1.00	0.100	D008	5

B	Analyte detected in the method blank
U	Not detected at or above adjusted sample detection limit.

Certificate of Analysis

Sample #: L12060837-02 **PrePrep Method:** **Instrument:** HYDRA
Client ID: NS02-062212 **Prep Method:** 7470A **Prep Date:** 06/28/2012 12:19
Matrix: TCLP Leachate **Analytical Method:** 7470A **Cal Date:** 07/02/2012 11:51
Workgroup #: WG402160 **Analyst:** PDM **Run Date:** 07/02/2012 12:49
Collect Date: 06/22/2012 14:15 **Dilution:** 1 **File ID:** HY.070212.124903
Sample Tag: 01 **Units:** mg/L

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Mercury		U	0.00200	0.00100	D009	0.2

U	Not detected at or above adjusted sample detection limit.

Sample #: L12060837-03 **PrePrep Method:** **Instrument:** ICP-THERMO1
Client ID: GS01-062112 **Prep Method:** 3015 **Prep Date:** 06/28/2012 13:24
Matrix: TCLP Leachate **Analytical Method:** 6010B **Cal Date:** 06/29/2012 09:14
Workgroup #: WG401974 **Analyst:** PDM **Run Date:** 06/29/2012 16:27
Collect Date: 06/21/2012 14:30 **Dilution:** 1 **File ID:** T1.062912.162744
Sample Tag: 02 **Units:** mg/L

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Cadmium, TCLP		U	0.00500	0.00250	D006	1
Chromium, TCLP		B	0.0500	0.0250	D007	5
Lead, TCLP		U	1.00	0.100	D008	5

B	Analyte detected in the method blank
U	Not detected at or above adjusted sample detection limit.

Sample #: L12060837-03 **PrePrep Method:** **Instrument:** HYDRA
Client ID: GS01-062112 **Prep Method:** 7470A **Prep Date:** 06/28/2012 12:19
Matrix: TCLP Leachate **Analytical Method:** 7470A **Cal Date:** 07/02/2012 11:51
Workgroup #: WG402160 **Analyst:** PDM **Run Date:** 07/02/2012 12:51
Collect Date: 06/21/2012 14:30 **Dilution:** 1 **File ID:** HY.070212.125109
Sample Tag: 01 **Units:** mg/L

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Mercury		U	0.00200	0.00100	D009	0.2

U	Not detected at or above adjusted sample detection limit.

Certificate of Analysis

Sample #: L12060837-04 **PrePrep Method:** **Instrument:** ICP-THERMO1
Client ID: GS02-062112 **Prep Method:** 3015 **Prep Date:** 06/28/2012 13:24
Matrix: TCLP Leachate **Analytical Method:** 6010B **Cal Date:** 06/29/2012 09:14
Workgroup #: WG401974 **Analyst:** PDM **Run Date:** 06/29/2012 16:31
Collect Date: 06/21/2012 18:00 **Dilution:** 1 **File ID:** T1.062912.163110
Sample Tag: 02 **Units:** mg/L

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Cadmium, TCLP		U	0.00500	0.00250	D006	1
Chromium, TCLP		B	0.0500	0.0250	D007	5
Lead, TCLP		U	1.00	0.100	D008	5

B	Analyte detected in the method blank
U	Not detected at or above adjusted sample detection limit.

Sample #: L12060837-04 **PrePrep Method:** **Instrument:** HYDRA
Client ID: GS02-062112 **Prep Method:** 7470A **Prep Date:** 06/28/2012 12:19
Matrix: TCLP Leachate **Analytical Method:** 7470A **Cal Date:** 07/02/2012 11:51
Workgroup #: WG402160 **Analyst:** PDM **Run Date:** 07/02/2012 12:52
Collect Date: 06/21/2012 18:00 **Dilution:** 1 **File ID:** HY.070212.125247
Sample Tag: 01 **Units:** mg/L

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Mercury		U	0.00200	0.00100	D009	0.2

U	Not detected at or above adjusted sample detection limit.

Sample #: L12060837-05 **PrePrep Method:** **Instrument:** ICP-THERMO1
Client ID: GS03-062212 **Prep Method:** 3015 **Prep Date:** 06/28/2012 13:24
Matrix: TCLP Leachate **Analytical Method:** 6010B **Cal Date:** 06/29/2012 09:14
Workgroup #: WG401974 **Analyst:** PDM **Run Date:** 06/29/2012 16:34
Collect Date: 06/22/2012 16:15 **Dilution:** 1 **File ID:** T1.062912.163435
Sample Tag: 02 **Units:** mg/L

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Cadmium, TCLP		U	0.00500	0.00250	D006	1
Chromium, TCLP		B	0.0500	0.0250	D007	5
Lead, TCLP		U	1.00	0.100	D008	5

B	Analyte detected in the method blank
U	Not detected at or above adjusted sample detection limit.

Certificate of Analysis

Sample #: L12060837-05 **PrePrep Method:** **Instrument:** HYDRA
Client ID: GS03-062212 **Prep Method:** 7470A **Prep Date:** 06/28/2012 12:19
Matrix: TCLP Leachate **Analytical Method:** 7470A **Cal Date:** 07/02/2012 11:51
Workgroup #: WG402160 **Analyst:** PDM **Run Date:** 07/02/2012 12:55
Collect Date: 06/22/2012 16:15 **Dilution:** 1 **File ID:** HY.070212.125500
Sample Tag: 01 **Units:** mg/L

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Mercury		U	0.00200	0.00100	D009	0.2

U	Not detected at or above adjusted sample detection limit.

Sample #: L12060837-06 **PrePrep Method:** **Instrument:** ICP-THERMO1
Client ID: GS04-062212 **Prep Method:** 3015 **Prep Date:** 06/28/2012 13:24
Matrix: TCLP Leachate **Analytical Method:** 6010B **Cal Date:** 06/29/2012 09:14
Workgroup #: WG401974 **Analyst:** PDM **Run Date:** 06/29/2012 16:38
Collect Date: 06/22/2012 12:45 **Dilution:** 1 **File ID:** T1.062912.163801
Sample Tag: 02 **Units:** mg/L

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Cadmium, TCLP		U	0.00500	0.00250	D006	1
Chromium, TCLP		B	0.0500	0.0250	D007	5
Lead, TCLP		U	1.00	0.100	D008	5

B	Analyte detected in the method blank
U	Not detected at or above adjusted sample detection limit.

Sample #: L12060837-06 **PrePrep Method:** **Instrument:** HYDRA
Client ID: GS04-062212 **Prep Method:** 7470A **Prep Date:** 06/28/2012 12:19
Matrix: TCLP Leachate **Analytical Method:** 7470A **Cal Date:** 07/02/2012 11:51
Workgroup #: WG402160 **Analyst:** PDM **Run Date:** 07/02/2012 12:56
Collect Date: 06/22/2012 12:45 **Dilution:** 1 **File ID:** HY.070212.125639
Sample Tag: 01 **Units:** mg/L

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Mercury		U	0.00200	0.00100	D009	0.2

U	Not detected at or above adjusted sample detection limit.

Certificate of Analysis

Sample #:	L12060837-07	**PrePrep Method:**		**Instrument:**	ICP-THERMO1
Client ID:	DS01-062312	**Prep Method:**	3015	**Prep Date:**	06/28/2012 13:24
Matrix:	TCLP Leachate	**Analytical Method:**	6010B	**Cal Date:**	06/29/2012 09:14
Workgroup #:	WG401974	**Analyst:**	PDM	**Run Date:**	06/29/2012 16:41
Collect Date:	06/23/2012 09:00	**Dilution:**	1	**File ID:**	T1.062912.164129
Sample Tag:	02	**Units:**	mg/L		

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Lead, TCLP		U	1.00	0.100	D008	5

U	Not detected at or above adjusted sample detection limit.

2.0 Full Sample Data Package

2.1 Metals Data

2.1.1 Metals I C P Data

2.1.1.1 Summary Data

Login Number: L12060837
Department: Metals
Analyst: Pierce Morris

METHOD

Preparation: SW-846 3015

Analysis: SW-846 6010

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: WG401974 -The initial calibration blank analyzed on 29-JUN-2012 at 09:20 yielded a result for chromium of 0.00647 mg/L which exceeded the reporting limit, however, all samples associated with the noncompliant ICB yielded results that were below the reporting limit for chromium therefore no further action was taken. The samples were reported with a 'B' qualifier to indicate the association with the noncompliant ICB.

Interference Check Standards: WG401974 - Due to an unexpected power failure no closing ICSA/ICSAB were analyzed on 29-JUN-2012. However with the permission of the project chemist no further action was taken.

Continuing Calibration Verification: All acceptance criteria were met.

Continuing Calibration Blank: WG401974 -The continuing calibration blank bracketing the interference check samples analyzed on 29-JUN-2012 at 11:10 yielded a result for chromium of 0.0101 mg/L which exceeded the reporting limit, however, since no client samples were bracketed by the noncompliant CCB and all samples associated with the noncompliant CCB yielded results that were below the reporting limit for chromium no further action was taken.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

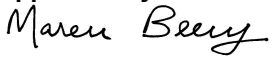
Serial Dilution/Post Digestion Spikes: WG401974 - All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

Narrative ID: 49459
Approved By: Maren Beery



Certificate of Analysis

Sample #: L12060837-01 **PrePrep Method:** **Instrument:** ICP-THERMO1
Client ID: NS01-062312 **Prep Method:** 3015 **Prep Date:** 06/28/2012 13:24
Matrix: TCLP Leachate **Analytical Method:** 6010B **Cal Date:** 06/29/2012 09:14
Workgroup #: WG401974 **Analyst:** PDM **Run Date:** 06/29/2012 16:20
Collect Date: 06/23/2012 09:30 **Dilution:** 1 **File ID:** T1.062912.162052
Sample Tag: 02 **Units:** mg/L

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Cadmium, TCLP		U	0.00500	0.00250	D006	1
Chromium, TCLP		B	0.0500	0.0250	D007	5
Lead, TCLP		U	1.00	0.100	D008	5

B	Analyte detected in the method blank
U	Not detected at or above adjusted sample detection limit.

Sample #: L12060837-02 **PrePrep Method:** **Instrument:** ICP-THERMO1
Client ID: NS02-062212 **Prep Method:** 3015 **Prep Date:** 06/28/2012 13:24
Matrix: TCLP Leachate **Analytical Method:** 6010B **Cal Date:** 06/29/2012 09:14
Workgroup #: WG401974 **Analyst:** PDM **Run Date:** 06/29/2012 16:24
Collect Date: 06/22/2012 14:15 **Dilution:** 1 **File ID:** T1.062912.162418
Sample Tag: 02 **Units:** mg/L

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Cadmium, TCLP		U	0.00500	0.00250	D006	1
Chromium, TCLP		B	0.0500	0.0250	D007	5
Lead, TCLP		U	1.00	0.100	D008	5

B	Analyte detected in the method blank
U	Not detected at or above adjusted sample detection limit.

Sample #: L12060837-03 **PrePrep Method:** **Instrument:** ICP-THERMO1
Client ID: GS01-062112 **Prep Method:** 3015 **Prep Date:** 06/28/2012 13:24
Matrix: TCLP Leachate **Analytical Method:** 6010B **Cal Date:** 06/29/2012 09:14
Workgroup #: WG401974 **Analyst:** PDM **Run Date:** 06/29/2012 16:27
Collect Date: 06/21/2012 14:30 **Dilution:** 1 **File ID:** T1.062912.162744
Sample Tag: 02 **Units:** mg/L

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Cadmium, TCLP		U	0.00500	0.00250	D006	1
Chromium, TCLP		B	0.0500	0.0250	D007	5
Lead, TCLP		U	1.00	0.100	D008	5

B	Analyte detected in the method blank
U	Not detected at or above adjusted sample detection limit.

Certificate of Analysis

Sample #: L12060837-04 **PrePrep Method:** **Instrument:** ICP-THERMO1
Client ID: GS02-062112 **Prep Method:** 3015 **Prep Date:** 06/28/2012 13:24
Matrix: TCLP Leachate **Analytical Method:** 6010B **Cal Date:** 06/29/2012 09:14
Workgroup #: WG401974 **Analyst:** PDM **Run Date:** 06/29/2012 16:31
Collect Date: 06/21/2012 18:00 **Dilution:** 1 **File ID:** T1.062912.163110
Sample Tag: 02 **Units:** mg/L

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Cadmium, TCLP		U	0.00500	0.00250	D006	1
Chromium, TCLP		B	0.0500	0.0250	D007	5
Lead, TCLP		U	1.00	0.100	D008	5

B	Analyte detected in the method blank
U	Not detected at or above adjusted sample detection limit.

Sample #: L12060837-05 **PrePrep Method:** **Instrument:** ICP-THERMO1
Client ID: GS03-062212 **Prep Method:** 3015 **Prep Date:** 06/28/2012 13:24
Matrix: TCLP Leachate **Analytical Method:** 6010B **Cal Date:** 06/29/2012 09:14
Workgroup #: WG401974 **Analyst:** PDM **Run Date:** 06/29/2012 16:34
Collect Date: 06/22/2012 16:15 **Dilution:** 1 **File ID:** T1.062912.163435
Sample Tag: 02 **Units:** mg/L

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Cadmium, TCLP		U	0.00500	0.00250	D006	1
Chromium, TCLP		B	0.0500	0.0250	D007	5
Lead, TCLP		U	1.00	0.100	D008	5

B	Analyte detected in the method blank
U	Not detected at or above adjusted sample detection limit.

Sample #: L12060837-06 **PrePrep Method:** **Instrument:** ICP-THERMO1
Client ID: GS04-062212 **Prep Method:** 3015 **Prep Date:** 06/28/2012 13:24
Matrix: TCLP Leachate **Analytical Method:** 6010B **Cal Date:** 06/29/2012 09:14
Workgroup #: WG401974 **Analyst:** PDM **Run Date:** 06/29/2012 16:38
Collect Date: 06/22/2012 12:45 **Dilution:** 1 **File ID:** T1.062912.163801
Sample Tag: 02 **Units:** mg/L

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Cadmium, TCLP		U	0.00500	0.00250	D006	1
Chromium, TCLP		B	0.0500	0.0250	D007	5
Lead, TCLP		U	1.00	0.100	D008	5

B	Analyte detected in the method blank

Certificate of Analysis

U	Not detected at or above adjusted sample detection limit.

Sample #:	L12060837-07	**PrePrep Method:**		**Instrument:**	ICP-THERMO1
Client ID:	DS01-062312	**Prep Method:**	3015	**Prep Date:**	06/28/2012 13:24
Matrix:	TCLP Leachate	**Analytical Method:**	6010B	**Cal Date:**	06/29/2012 09:14
Workgroup #:	WG401974	**Analyst:**	PDM	**Run Date:**	06/29/2012 16:41
Collect Date:	06/23/2012 09:00	**Dilution:**	1	**File ID:**	T1.062912.164129
Sample Tag:	02	**Units:**	mg/L		

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Lead, TCLP		U	1.00	0.100	D008	5

U	Not detected at or above adjusted sample detection limit.

2.1.1.2 QC Summary Data

Example 6010 Calculations
Thermo Scientific iCAP 6500

1.0 Initial Calibration (ICAL) Parameters
For a multi-point calibration, the system performs linear regression from data consisting of a blank and four standards.

2.0 Calculating the concentration (C) of an element in water using data from prep log, run log, and quantitation report (note:the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system in ug/mL (ppm)	0.1
Vf = Final volume (mL)	50
Vi = Initial volume (mL)	50
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in ug/mL (mg/L)	0.1

3.0 Calculating the concentration (C) of an element in soil using data from prep log, run log, and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (mg/L) (ppm)	0.1
Vf = Final volume (mL)	50
Vi = Initial weight (g)	1
D = Dilution factor as a multiplier (10X = 10)	1
Cx = Concentration of element in ug/g (mg/kg)	5

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

Where:	**Example:**
Cx = Concentration calculated as received (wet basis)	5
Px = Percent solids of sample (%wt)	80
$Cdry$ = Concentration calculated as dry weight (mg/kg)	6.25

TCLP Non-Volatile

Analyst(s): RLC
Date: 6-27-12
Filter Lot #: 463983
Microbac SOP: TCLP 01 Rev #09

Analyst / Date		Analyst / Date	
RLC 6-27-12		RLC 6-28-12	
Time On	Temp On °C	Time Off	Temp Off °C
1800	24	1000	23

Agitator Speed 30 ± 2 rpm ☑

Jug #	Sample #	Tests	Method	Fluid #	Matrix *	% Solid	Pretest pH Initial	Pretest pH Final	Int. Wt. (g)	Fluid Vol. (mL)	Final extract pH
G1	06-785-01	MESPAK SV	1311	F1869	S	100	9	3.5	100.06	2000	7
G1	06-794-01	Herb			S/S		9	2	100.06		6
G15	03						9	2	100.08		5
G8	05						9	2	100.05		5
G5	07						9	2	100.00		5
G28	09						9	2	100.02		5
G6	11						9	2	100.02		5
G14	06-797-01	ME SV Pest			S		8	2	100.01		5
D	06-798-01						8	2	100.00		5
D	06-802-01						9	2	100.08		5
G10	06-818-38	SV			S/S		8	2	100.09		5
D	06-831-01						9	RLC 4.8	100.07		6
D	02						8	3.86	100.05		6
D	03						8	2	100.00		6
D	04						8	2	100.07		6
D	05						8	2	100.04		6
D	06						8	2	100.07		6
D	07						8	2	100.00		6
D	06-842-01						9	2	100.06		6
D	843-01			F2291	S		13	13	25.01	500	11
D	02				S		13	13	25.03		11
D	852-01			F1869	S		11	2.5	100.02	2000	11
N/A	FBLK(1)	SV Pest Herb			N/A	N/A	N/A	N/A	N/A		N/A
	FBLK(2)			F2291						500	
		RLC 6-27-12									

*Matrix Code: (S = solid, sand, soil or sludge) (P = paint) (O = organic) (W = water or aqueous waste)
D = Disposable plastic jug
TCLP Pretest weight will be 5.0 g (± 0.1) unless otherwise noted.
Temperature shall be maintained at 23° ± 2 for 18 ± 2 hours unless otherwise noted.

Comments: _____

Peer Review By: _____

Microbac Laboratories Inc.
Microwave Digestion Log

Workgroup:	WG401956	**SOP:**	ME407 Revison 12
Analyst:	VC	**Spike Solution:**	STD51883
Spike Analyst:	VC	**Spike Witness:**	REK
Run Date:	06/28/2012 13:24	**HNO3 Lot #:**	COA16256
Method:	3015	**Digestion Tubes Lot #:**	COA16255
Balance:	BAL016	**HCL Lot #:**	COA16248
Instrument:	MW-2	**ICP;WG401305 Filter Lot**	COA16240

	SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Initial Vessel Wt	Final Vessel Wt	Spike Amount	Due Date
1	WG401956-02	BLANK	17	5 mL	50 mL	206.825 g	206.828 g		
2	WG401904-01	FBLK1	17	5 mL	50 mL	211.048 g	211.036 g		
3	WG401904-02	FBLK2	17	5 mL	50 mL	210.136 g	210.131 g		
4	WG401956-03	LCS	17	5 mL	50 mL	211.004 g	210.992 g	5 mL	
5	WG401956-01	REF	17	5 mL	50 mL	212.155 g	212.122 g		
6	L12060785-01	SAMP	17	5 mL	50 mL	212.155 g	212.122 g		07/06/12
7	L12060797-01	SAMP	17	5 mL	50 mL	210.232 g	210.203 g		07/02/12
8	L12060798-01	SAMP	17	5 mL	50 mL	210.402 g	210.365 g		07/02/12
9	L12060802-01	SAMP	17	5 mL	50 mL	207.625 g	207.607 g		07/02/12
10	L12060818-38	SAMP	17	5 mL	50 mL	211.901 g	211.869 g		07/06/12
11	L12060837-01	SAMP	17	5 mL	50 mL	209.492 g	209.479 g		07/03/12
12	L12060837-02	SAMP	17	5 mL	50 mL	211.548 g	211.538 g		07/03/12
13	L12060837-03	SAMP	17	5 mL	50 mL	210.763 g	210.725 g		07/03/12
14	L12060837-04	SAMP	17	5 mL	50 mL	208.684 g	208.652 g		07/03/12
15	L12060837-05	SAMP	17	5 mL	50 mL	210.377 g	210.337 g		07/03/12
16	L12060837-06	SAMP	17	5 mL	50 mL	209.746 g	209.718 g		07/03/12
17	L12060837-07	SAMP	17	5 mL	50 mL	210.652 g	210.618 g		07/03/12
18	L12060842-01	SAMP	17	5 mL	50 mL	210.398 g	210.372 g		07/03/12
19	L12060843-01	SAMP	17	5 mL	50 mL	211.488 g	211.458 g		07/02/12
20	L12060843-02	SAMP	17	5 mL	50 mL	209.933 g	209.906 g		07/02/12
21	L12060852-01	SAMP	17	5 mL	50 mL	208.895 g	208.857 g		07/02/12
22	WG401956-04	MS	17	5 mL	50 mL	211.714 g	211.682 g	5 mL	
23	WG401956-05	MSD	17	5 mL	50 mL	211.612 g	211.588 g	5 mL	

L12060843-01	mass spec also
L12060843-02	mass spec also

Analyst: Vicki Collins

Reviewer:

MW_DIG - Modified 09/30/2009
PDF ID: 2474675
Report generated: 07/02/2012 16:13

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO1 Dataset: 062912.1
Analyst1: PDM Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 42308

Calibration Std: STD52355 ICV Std: STD52356 Post Spike: STD51884
ICSA: STD52357 ICSAB: STD52358 Int. Std: RGT17487
CCV: STD52359 LLCCV:

Workgroups: 402023,402026,402084,401974,402119

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	T1.062912.085912	WG402061-01	Calibration Point		1		06/29/12 08:59
2	T1.062912.090335	WG402061-02	Calibration Point		1		06/29/12 09:03
3	T1.062912.090708	WG402061-03	Calibration Point		1		06/29/12 09:07
4	T1.062912.091039	WG402061-04	Calibration Point		1		06/29/12 09:10
5	T1.062912.091411	WG402061-05	Calibration Point		1		06/29/12 09:14
6	T1.062912.091732	WG402061-06	Initial Calibration Verification		1		06/29/12 09:17
7	T1.062912.092051	WG402061-07	Initial Calib Blank		1		06/29/12 09:20
8	T1.062912.092424	WG402061-08	Interference Check		1		06/29/12 09:24
9	T1.062912.092800	WG402061-09	Interference Check		1		06/29/12 09:28
10	T1.062912.093132	WG402061-10	CCV		1		06/29/12 09:31
11	T1.062912.093450	WG402061-11	CCB		1		06/29/12 09:34
12	T1.062912.093826	WG401918-02	Method/Prep Blank	1/50	1		06/29/12 09:38
13	T1.062912.094159	WG401918-03	Laboratory Control S	1/50	1		06/29/12 09:41
14	T1.062912.094516	L12060594-10	8275-C0007	1.393/50	1		06/29/12 09:45
15	T1.062912.094853	WG402023-01	Post Digestion Spike		1	L12060594-10	06/29/12 09:48
16	T1.062912.095243	WG402023-02	Serial Dilution		5	L12060594-10	06/29/12 09:52
17	T1.062912.095601	WG402023-02	Serial Dilution		25	L12060594-10	06/29/12 09:56
18	T1.062912.095924	L12060594-11	8275-C0008	1.345/50	1		06/29/12 09:59
19	T1.062912.100254	WG401918-01	Reference Sample		1	L12060804-11	06/29/12 10:02
20	T1.062912.100629	WG401918-04	Matrix Spike	1.342/50	1	L12060804-11	06/29/12 10:06
21	T1.062912.101000	WG401918-05	Matrix Spike Duplica	1.414/50	1	L12060804-11	06/29/12 10:10
22	T1.062912.101330	WG402061-12	CCV		1		06/29/12 10:13
23	T1.062912.101644	WG402061-13	CCB		1		06/29/12 10:16
24	T1.062912.102013	WG401887-02	Method/Prep Blank	.5/200	1		06/29/12 10:20
25	T1.062912.102342	WG401887-03	Laboratory Control S	.5/200	1		06/29/12 10:23
26	T1.062912.102657	L12060724-08	SCF-WS1-062212	1.431/50	1		06/29/12 10:26
27	T1.062912.103014	WG402026-01	Post Digestion Spike		1	L12060724-08	06/29/12 10:30
28	T1.062912.103329	WG402026-02	Serial Dilution		5	L12060724-08	06/29/12 10:33
29	T1.062912.103648	WG402026-02	Serial Dilution		25	L12060724-08	06/29/12 10:36
30	T1.062912.104013	WG401887-01	Reference Sample		1	L12060817-11	06/29/12 10:40
31	T1.062912.104340	WG401887-04	Matrix Spike		1	L12060817-11	06/29/12 10:43
32	T1.062912.104701	WG401887-05	Matrix Spike Duplica		1	L12060817-11	06/29/12 10:47
33	T1.062912.105023	L12060781-10	SRTD-SS-03	1.405/50	1		06/29/12 10:50
34	T1.062912.105345	WG402061-14	CCV		1		06/29/12 10:53

Page: 1 Approved: July 05, 2012

Sheri L. Babgard

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO1 Dataset: 062912.1
Analyst1: PDM Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 42308

Calibration Std: STD52355 ICV Std: STD52356 Post Spike: STD51884
ICSA: STD52357 ICSAB: STD52358 Int. Std: RGT17487
CCV: STD52359 LLCCV:

Workgroups: 402023,402026,402084,401974,402119

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
35	T1.062912.105700	WG402061-15	CCB		1		06/29/12 10:57
36	T1.062912.110028	WG402061-16	Interference Check		1		06/29/12 11:00
37	T1.062912.110400	WG402061-17	Interference Check		1		06/29/12 11:04
38	T1.062912.110725	WG402061-18	CCV		1		06/29/12 11:07
39	T1.062912.111040	WG402061-19	CCB		1		06/29/12 11:10
40	T1.062912.111409	L12060804-01	8092-C0001	1.374/50	1		06/29/12 11:14
41	T1.062912.111743	L12060804-02	8092-C0002	1.339/50	1		06/29/12 11:17
42	T1.062912.112110	L12060804-03	8092-C0003	1.494/50	1		06/29/12 11:21
43	T1.062912.112443	L12060804-04	8092-C0004	1.46/50	1		06/29/12 11:24
44	T1.062912.112818	L12060804-05	8092-C0005	1.406/50	1		06/29/12 11:28
45	T1.062912.113147	L12060804-06	8092-C0006	1.448/50	1		06/29/12 11:31
46	T1.062912.113503	L12060804-07	8092-C0007	1.462/50	1		06/29/12 11:35
47	T1.062912.113821	L12060804-08	8092-C0008	1.44/50	1		06/29/12 11:38
48	T1.062912.114156	L12060804-09	8093-C0001	1.4/50	1		06/29/12 11:41
49	T1.062912.114532	L12060804-10	8093-C0002	1.382/50	1		06/29/12 11:45
50	T1.062912.114859	WG402061-20	CCV		1		06/29/12 11:48
51	T1.062912.115213	WG402061-21	CCB		1		06/29/12 11:52
52	T1.062912.115542	L12060804-14	8093-C0004	1.38/50	1		06/29/12 11:55
53	T1.062912.115917	L12060817-27	153-111-3		1		06/29/12 11:59
54	T1.062912.120234	L12060817-28	153-101-FD1		1		06/29/12 12:02
55	T1.062912.120552	L12060817-29	153-103-FD2		1		06/29/12 12:05
56	T1.062912.120910	L12060817-34	153-108-FD3		1		06/29/12 12:09
57	T1.062912.121228	L12060817-35	153-111-FD2		1		06/29/12 12:12
58	T1.062912.121546	L12060855-01	P617		1		06/29/12 12:15
59	T1.062912.121911	WG402061-22	CCV		1		06/29/12 12:19
60	T1.062912.122227	WG402061-23	CCB		1		06/29/12 12:22
61	T1.062912.122554	L12060781-11	SRTD-SS-04	1.381/50	1		06/29/12 12:25
62	T1.062912.122911	L12060781-12	SRTD-SS-05	1.313/50	1		06/29/12 12:29
63	T1.062912.123230	L12060781-13	SRTD-SS-06	1.319/50	1		06/29/12 12:32
64	T1.062912.123551	L12060781-14	SRTD-SS-07	1.328/50	1		06/29/12 12:35
65	T1.062912.123914	L12060781-15	SRTD-SS-08	1.343/50	1		06/29/12 12:39
66	T1.062912.124236	L12060781-16	SRTD-SS-09	1.364/50	1		06/29/12 12:42
67	T1.062912.124557	L12060781-17	SRTD-SS-15	1.352/50	1		06/29/12 12:45
68	T1.062912.124919	L12060781-18	SRTD-SS-11	1.39/50	1		06/29/12 12:49

Page: 2 Approved: July 05, 2012

Sheri L. Babcock

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO1 Dataset: 062912.1
Analyst1: PDM Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 42308

Calibration Std: STD52355 ICV Std: STD52356 Post Spike: STD51884
ICSA: STD52357 ICSAB: STD52358 Int. Std: RGT17487
CCV: STD52359 LLCCV:

Workgroups: 402023,402026,402084,401974,402119

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
69	T1.062912.125239	L12060781-19	SRTD-SS-23	1.302/50	1		06/29/12 12:52
70	T1.062912.125556	L12060781-20	SRTD-SS-21	1.417/50	1		06/29/12 12:55
71	T1.062912.125915	WG402061-24	CCV		1		06/29/12 12:59
72	T1.062912.130229	WG402061-25	CCB		1		06/29/12 13:02
73	T1.062912.130557	L12060814-10	SRTD-SS-16	1.362/50	1		06/29/12 13:05
74	T1.062912.130916	L12060814-11	SRTD-SS-19	1.376/50	1		06/29/12 13:09
75	T1.062912.131237	L12060817-01	153-101-1		1		06/29/12 13:12
76	T1.062912.131556	L12060817-02	153-101-2		1		06/29/12 13:15
77	T1.062912.131913	L12060817-03	153-101-3		1		06/29/12 13:19
78	T1.062912.132231	L12060817-04	153-102-1		1		06/29/12 13:22
79	T1.062912.132549	L12060817-05	153-102-2		1		06/29/12 13:25
80	T1.062912.132906	WG402061-26	CCV		1		06/29/12 13:29
81	T1.062912.133221	WG402061-27	CCB		1		06/29/12 13:32
82	T1.062912.133550	WG401972-02	Method/Prep Blank	1/50	1		06/29/12 13:35
83	T1.062912.133918	WG401972-04	Matrix Spike	1/50	1	L12060804-44	06/29/12 13:39
84	T1.062912.134233	L12060911-01	BLEACHER	.379/50	1		06/29/12 13:42
85	T1.062912.134603	L12060804-34	8098-C0001	1.336/50	1		06/29/12 13:46
86	T1.062912.134944	L1206080434-PS	L1206080434PS		1		06/29/12 13:49
87	T1.062912.135325	L1206080434-DL	L1206080434DL		1		06/29/12 13:53
88	T1.062912.135642	L1206080434-DL	L1206080434DL		1		06/29/12 13:56
89	T1.062912.140005	WG401972-01	Reference Sample		1	L12060804-44	06/29/12 14:00
90	T1.062912.140329	WG401972-04	Matrix Spike	1.332/50	1	L12060804-44	06/29/12 14:03
91	T1.062912.140700	WG401972-05	Matrix Spike Duplica	1.368/50	1	L12060804-44	06/29/12 14:07
92	T1.062912.141032	WG402061-28	CCV		1		06/29/12 14:10
93	T1.062912.141346	WG402061-29	CCB		1		06/29/12 14:13
94	T1.062912.141717	WG401972-01	Reference Sample		1	L12060804-44	06/29/12 14:17
95	T1.062912.142054	WG402061-30	CCV		1		06/29/12 14:20
96	T1.062912.142409	WG402061-31	CCB		1		06/29/12 14:24
97	T1.062912.142737	L12060804-35	8098-C0002	1.476/50	1		06/29/12 14:27
98	T1.062912.143112	L12060804-36	8099-C0001	1.342/50	1		06/29/12 14:31
99	T1.062912.143446	L12060804-37	8099-C0002	1.306/50	1		06/29/12 14:34
100	T1.062912.143804	L12060804-38	8134-C0001	1.354/50	1		06/29/12 14:38
101	T1.062912.144139	L12060804-39	8134-C0002	1.302/50	1		06/29/12 14:41
102	T1.062912.144457	L12060804-40	8164-C0001	1.385/50	1		06/29/12 14:44

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Sheri L. Babgard

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO1 Dataset: 062912.1
Analyst1: PDM Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 42308

Calibration Std: STD52355 ICV Std: STD52356 Post Spike: STD51884
ICSA: STD52357 ICSAB: STD52358 Int. Std: RGT17487
CCV: STD52359 LLCCV:

Workgroups: 402023,402026,402084,401974,402119

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
103	T1.062912.144817	L12060804-41	8164-C0002	1.447/50	1		06/29/12 14:48
104	T1.062912.145135	L12060804-42	8169-C0001	1.446/50	1		06/29/12 14:51
105	T1.062912.145510	L12060804-43	8169-C0002	1.355/50	1		06/29/12 14:55
106	T1.062912.145836	L12060804-47	8169-C0004	1.452/50	1		06/29/12 14:58
107	T1.062912.150201	WG402061-32	CCV		1		06/29/12 15:02
108	T1.062912.150515	WG402061-33	CCB		1		06/29/12 15:05
109	T1.062912.150843	L12060804-48	8186-C0001	1.463/50	1		06/29/12 15:08
110	T1.062912.151240	L12060805-01	8186-C0002	1.438/50	1		06/29/12 15:12
111	T1.062912.151618	L12060805-02	8186-C0003	1.367/50	1		06/29/12 15:16
112	T1.062912.151943	L12060805-03	8186-C0004	1.336/50	1		06/29/12 15:19
113	T1.062912.152305	L12060805-04	8186-C0005	1.392/50	1		06/29/12 15:23
114	T1.062912.152627	L12060805-05	8229-C0001	1.334/50	1		06/29/12 15:26
115	T1.062912.152959	L12060805-06	8229-C0002	1.332/50	1		06/29/12 15:29
116	T1.062912.153330	WG402061-34	CCV		1		06/29/12 15:33
117	T1.062912.153646	WG402061-35	CCB		1		06/29/12 15:36
118	T1.062912.154015	WG401956-02	Method/Prep Blank	5/50	1		06/29/12 15:40
119	T1.062912.154344	WG401956-03	Laboratory Control S	5/50	1		06/29/12 15:43
120	T1.062912.154659	WG401904-01	TCLP Fluid Blank 1		1		06/29/12 15:46
121	T1.062912.155028	WG401904-02	TCLP Fluid Blank 2		1		06/29/12 15:50
122	T1.062912.155357	WG401956-01	Reference Sample		1	L12060785-01	06/29/12 15:53
123	T1.062912.155724	WG401956-04	Matrix Spike	5/50	1	L12060785-01	06/29/12 15:57
124	T1.062912.160038	WG401956-05	Matrix Spike Duplica	5/50	1	L12060785-01	06/29/12 16:00
125	T1.062912.160354	L12060797-01	2061368-01	5/50	1		06/29/12 16:03
126	T1.062912.160718	WG401974-03	Post Digestion Spike		1	L12060797-01	06/29/12 16:07
127	T1.062912.161033	WG401974-04	Serial Dilution		1	L12060797-01	06/29/12 16:10
128	T1.062912.161401	WG402061-36	CCV		1		06/29/12 16:14
129	T1.062912.161715	WG402061-37	CCB		1		06/29/12 16:17
130	T1.062912.162052	L12060837-01	NS01-062312	5/50	1		06/29/12 16:20
131	T1.062912.162418	L12060837-02	NS02-062212	5/50	1		06/29/12 16:24
132	T1.062912.162744	L12060837-03	GS01-062112	5/50	1		06/29/12 16:27
133	T1.062912.163110	L12060837-04	GS02-062112	5/50	1		06/29/12 16:31
134	T1.062912.163435	L12060837-05	GS03-062212	5/50	1		06/29/12 16:34
135	T1.062912.163801	L12060837-06	GS04-062212	5/50	1		06/29/12 16:38
136	T1.062912.164129	L12060837-07	DS01-062312	5/50	1		06/29/12 16:41

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Sheri L. Babgard

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO1 Dataset: 062912.1
Analyst1: PDM Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 42308

Calibration Std: STD52355 ICV Std: STD52356 Post Spike: STD51884
ICSA: STD52357 ICSAB: STD52358 Int. Std: RGT17487
CCV: STD52359 LLCCV:

Workgroups: 402023,402026,402084,401974,402119

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
137	T1.062912.164455	L12060798-01	2061432-01	5/50	1		06/29/12 16:44
138	T1.062912.164820	L12060802-01	2061363-01	5/50	1		06/29/12 16:48
139	T1.062912.165147	L12060818-38	153-IDW-1	5/50	1		06/29/12 16:51
140	T1.062912.165514	WG402061-38	CCV		1		06/29/12 16:55
141	T1.062912.165829	WG402061-39	CCB		1		06/29/12 16:58
142	T1.062912.170158	L12060842-01	2ND CARBON BLDG	5/50	1		06/29/12 17:01
143	T1.062912.170524	L12060843-01	HSBH BLUE	5/50	1		06/29/12 17:05
144	T1.062912.170858	L12060843-02	ALAN RED	5/50	1		06/29/12 17:08
145	T1.062912.171234	WG402061-40	CCV		1		06/29/12 17:12
146	T1.062912.171549	WG402061-41	CCB		1		06/29/12 17:15
147	T1.062912.171917	WG401963-02	Method/Prep Blank	1/50	1		06/29/12 17:19
148	T1.062912.172246	WG401963-03	Laboratory Control S	1/50	1		06/29/12 17:22
149	T1.062912.172559	L12060804-15	8093-C0005	1.323/50	1		06/29/12 17:25
150	T1.062912.172929	WG402119-01	Post Digestion Spike		1	L12060804-15	06/29/12 17:29
151	T1.062912.173250	L12060804-15	8093-C0005		5		06/29/12 17:32
152	T1.062912.173608	WG402119-02	Serial Dilution		25	L12060804-15	06/29/12 17:36
153	T1.062912.173930	L12060804-16	8093-C0006	1.5/50	1		06/29/12 17:39
154	T1.062912.174309	L12060804-17	8093-C0007	1.408/50	1		06/29/12 17:43
155	T1.062912.174654	L12060804-18	8094-C0001	1.303/50	1		06/29/12 17:46
156	T1.062912.175030	L12060804-19	8094-C0002	1.306/50	1		06/29/12 17:50
157	T1.062912.175356	WG402061-42	CCV		1		06/29/12 17:53
158	T1.062912.175711	WG402061-43	CCB		1		06/29/12 17:57
159	T1.062912.180040	L12060804-20	8094-C0003		1		06/29/12 18:00
160	T1.062912.180415	L12060804-21	8094-C0004		1		06/29/12 18:04
161	T1.062912.180745	L12060804-22	8095-C0001		1		06/29/12 18:07
162	T1.062912.181120	L12060804-23	8095-C0002		1		06/29/12 18:11
163	T1.062912.181456	L12060804-24	8095-C0003		1		06/29/12 18:14
164	T1.062912.181831	L12060804-25	8095-C0004		1		06/29/12 18:18
165	T1.062912.182207	L12060804-26	8096-C0001		1		06/29/12 18:22
166	T1.062912.182543	L12060804-27	8096-C0002		1		06/29/12 18:25
167	T1.062912.182911	L12060804-28	8096-C0003		1		06/29/12 18:29
168	T1.062912.183237	L12060804-29	8097-C0001		1		06/29/12 18:32
169	T1.062912.183605	WG402061-44	CCV		1		06/29/12 18:36
170	T1.062912.183920	WG402061-45	CCB		1		06/29/12 18:39

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Sheri L. Babgard

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: ICP-THERMO1 Dataset: 062912.1
Analyst1: PDM Analyst2: N/A
Method: 6010 SOP: ME600G Rev: 2
Maintenance Log ID: 42308

Calibration Std: STD52355 ICV Std: STD52356 Post Spike: STD51884
ICSA: STD52357 ICSAB: STD52358 Int. Std: RGT17487
CCV: STD52359 LLCCV:

Workgroups: 402023,402026,402084,401974,402119

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
171	T1.062912.184305	L12060804-30	8097-C0002		1		06/29/12 18:43

Comments

Seq.	Rerun	Dil.	Reason	Analytes
171			Lost power.	

 Approved: July 05, 2012

Esther L. Babgard

Microbac

Microbac Laboratories Inc.

Data Checklist

Date: 29-JUN-2012
Analyst: PDM
Analyst: NA
Method: 6010
Instrument: ICP-THERMO1
Curve Workgroup: 402061
Runlog ID: 47586
Analytical Workgroups: 402023,402026,402084,401974,402119

Calibration/Linearity	X
ICV/CCV	X
ICV RSD <= 3% (EPA 200.7 only)	
ICB/CCB	X
ICSA/ICSAB	X
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	0594,0724,0805,08040797,0798,0802
	0818
Client Forms	X
Level X	
Level 3	0724
Level 4	0594,0805,0804,0818
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	PDM
Secondary Reviewer	SLP
Comments	

Primary Reviewer:
02-JUL-2012
Pierce Morris

Secondary Reviewer:
05-JUL-2012
Sheri L. Babcock

CHECKLIST1 - Modified 03/05/2008
Generated: JUL-05-2012 16:36:46

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 6010B **AAB#:** WG401974

Login Number: L12060837

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
NS01-062312	01	06/23/12	06/27/12	4.4			06/28/12	5.2	180		06/29/12	1.9	180	
NS02-062212	02	06/22/12	06/27/12	5.2			06/28/12	6	180		06/29/12	1.9	180	
GS01-062112	03	06/21/12	06/27/12	6.1			06/28/12	7	180		06/29/12	1.9	180	
GS02-062112	04	06/21/12	06/27/12	6			06/28/12	6.8	180		06/29/12	1.9	180	
GS03-062212	05	06/22/12	06/27/12	5.1			06/28/12	5.9	180		06/29/12	1.9	180	
GS04-062212	06	06/22/12	06/27/12	5.2			06/28/12	6	180		06/29/12	1.9	180	
DS01-062312	07	06/23/12	06/27/12	4.4			06/28/12	5.2	180		06/29/12	1.9	180	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 2478837
Report generated 07/03/2012 15:10

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L12060837
Work Group: WG401974
Blank File ID: T1.062912.154015
Blank Sample ID: WG401956-02
Prep Date: 06/28/12 13:24
Instrument ID: ICP-THERMO1
Analyzed Date: 06/29/12 15:40
Method: 6010B
Analyst: PDM

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG401956-03	T1.062812.160127	06/28/12 16:01	01
LCS	WG401956-03	T1.062912.154344	06/29/12 15:43	02
NS01-062312	L12060837-01	T1.062912.162052	06/29/12 16:20	02
NS02-062212	L12060837-02	T1.062912.162418	06/29/12 16:24	02
GS01-062112	L12060837-03	T1.062912.162744	06/29/12 16:27	02
GS02-062112	L12060837-04	T1.062912.163110	06/29/12 16:31	02
GS03-062212	L12060837-05	T1.062912.163435	06/29/12 16:34	02
GS04-062212	L12060837-06	T1.062912.163801	06/29/12 16:38	02
DS01-062312	L12060837-07	T1.062912.164129	06/29/12 16:41	02

Report Name: BLANK_SUMMARY
PDF File ID: 2478839
Report generated 07/03/2012 15:10

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L12060837 Prep Date: 06/28/12 13:24 Sample ID: WG401956-02
Instrument ID: ICP-THERMO1 Run Date: 06/29/12 15:40 Prep Method: 3015
File ID: T1.062912.154015 Analyst: PDM Method: 6010B
Workgroup (AAB#): WG401974 Matrix: TCLP Leach Units: mg/L
Contract #: Cal ID: ICP-TH-29-JUN-12

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Cadmium, TCLP	0.00250	0.00500	0.00250	1	U
Chromium, TCLP	0.0250	0.0500	0.0250	1	U
Lead, TCLP	0.100	1.00	0.100	1	U

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 2478840
03-JUL-2012 15:10

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L12060837 Run Date: 06/29/2012 Sample ID: WG401956-03
Instrument ID: ICP-THERMO1 Run Time: 15:43 Prep Method: 3015
File ID: T1.062912.154344 Analyst: PDM Method: 6010B
Workgroup (AAB#): WG401974 Matrix: TCLP Leach Units: mg/L
QC Key: WATERLOO Lot#: STD51883 Cal ID: ICP-TH-29-JUN-12

Analytes	Expected	Found	% Rec	LCS Limits	Q
Cadmium, TCLP	0.250	0.235	94.2	85 - 115	
Chromium, TCLP	2.50	2.37	94.9	85 - 115	
Lead, TCLP	2.50	2.44	97.7	85 - 115	

LCS - Modified 03/06/2008
PDF File ID: 2478841
Report generated: 07/03/2012 15:10

Microbac Laboratories Inc.
Serial Dilution Report

Login: L12060837 **Worknum:** WG401974
Instrument: ICP-THERMO1 **Method:** 6010B
Serial Dil: WG401974-04 **File ID:** T1.062912.161033 **Dil:** 5 **Units:** mg/L
Sample: L12060797-01 **File ID:** T1.062912.160354 **Dil:** 1

Analyte	Sample	Qual	Serial Dil	Qual	% Diff	Q
Cadmium	ND	U	ND	U		
Chromium	0.00344	F	ND	U		
Lead	0.0335	F	ND	U		

U = Result is below MDL.
F = Result is greater than or equal to MDL and less than the RL.
X = Result is greater than or equal to RL and less than 50 times the MDL.
E = %D exceeds control limit of 10% and initial sample result is greater than or equal to 50 times the MDL.

SERIAL_DIL - Modified 09/22/2008
PDF File ID: 2478835
07/03/2012 15:10

Microbac Laboratories Inc.
POST SPIKE REPORT

Sample Login ID: L12060837 **Worknum:** WG401974
Instrument ID: ICP-THERMO1 **Method:** 6010B
Post Spike ID: WG401974-03 **File ID:** T1.062912.160718 **Dil:** 1 **Units:** mg/L
Sample ID: L12060797-01 **File ID:** T1.062912.160354 **Dil:** 1 **Matrix:** TCLP Leac

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
CADMIUM	0.0238		0	U	.025	95.2	75 - 125	
CHROMIUM	0.238		0.00344	F	.25	94.0	75 - 125	
LEAD	0.272		0.0335	F	.25	96.9	75 - 125	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

POST_SPIKE - Modified 03/06/2008
PDF File ID: 2478836
Report generated: 07/03/2012 15:10

Microbac Laboratories Inc.
Initial Calibration Summary

Login:	**L12060837**	Workgroup (AAB#):	**WG401974**
Analytical Method:	**6010B**	Instrument ID:	**ICP-THERMO1**
ICAL Worknum:	**WG402061**	Initial Calibration Date:	**29-JUN-2012 09:14**

	WG402061-01		WG402061-02		WG402061-03		WG402061-04		WG402061-05			
	Conc	INT	Conc	INT	Conc	INT	Conc	INT	Conc	INT	R	Q
CADMIUM	0	0.000660	.0005	0.00107	.001	0.00148	.05	0.0384	.1	0.0767	.999948	
CHROMIUM	0	0.00187	.005	0.00443	.01	0.00821	.5	0.377	1	0.752	.999759	
LEAD	0	-0.000200	.005	0.000160	.01	0.000380	.5	0.0394	1	0.0794	.999755	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

INT_CAL_ICP - Modified 03/06/2008
PDF File ID: 2478844
Report generated: 03-JUL-2012 15:10

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number:	L12060837	**Run Date:**	06/29/2012	**Sample ID:**	WG402061-07
Instrument ID:	ICP-THERMO1	**Run Time:**	09:20	**Method:**	6010B
File ID:	T1.062912.092051	**Analyst:**	PDM	**Units:**	mg/L
Workgroup (AAB#):	WG401974	**Cal ID:**	ICP-THERI - 29-JUN-12		
Matrix:	TCLP LEACHATE				

Analytes	MDL	RDL	Concentration	Qualifier
CADMIUM	.00025	.0005	.00025	U
CHROMIUM	.0025	.005	.00647	*
LEAD	.01	.1	.01	U

ICB - Modified 07/14/2009
PDF File ID: 2478846
Report generated 07/03/2012 15:10

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L12060837 Run Date: 06/29/2012 Sample ID: WG402061-11

Instrument ID: ICP-THERMO1 Run Time: 09:34 Method: 6010B

File ID: T1.062912.093450 Analyst: PDM Units: mg/L

Workgroup (AAB#): WG401974 Cal ID: ICP-TH - 29-JUN-12

Matrix: TCLP LEACHATE QAPP: WATERLOO

Analytes	MDL	RDL	Concentration	Qualifier
Cadmium	0.000250	0.000500	0.000250	U
Chromium	0.00250	0.00500	0.00250	U
Lead	0.0100	0.100	0.0100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 2478849
Report generated 07/03/2012 16:05

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L12060837 Run Date: 06/29/2012 Sample ID: WG402061-15

Instrument ID: ICP-THERMO1 Run Time: 10:57 Method: 6010B

File ID: T1.062912.105700 Analyst: PDM Units: mg/L

Workgroup (AAB#): WG401974 Cal ID: ICP-TH - 29-JUN-12

Matrix: TCLP LEACHATE QAPP: WATERLOO

Analytes	MDL	RDL	Concentration	Qualifier
Cadmium	0.000250	0.000500	0.000250	U
Chromium	0.00250	0.00500	0.00289	F
Lead	0.0100	0.100	0.0100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 2478849
Report generated 07/03/2012 16:05

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L12060837 Run Date: 06/29/2012 Sample ID: WG402061-19

Instrument ID: ICP-THERMO1 Run Time: 11:10 Method: 6010B

File ID: T1.062912.111040 Analyst: PDM Units: mg/L

Workgroup (AAB#): WG401974 Cal ID: ICP-TH - 29-JUN-12

Matrix: TCLP LEACHATE QAPP: WATERLOO

Analytes	MDL	RDL	Concentration	Qualifier
Cadmium	0.000250	0.000500	0.000250	U
Chromium	0.00250	0.00500	0.0101	*
Lead	0.0100	0.100	0.0100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 2478849
Report generated 07/03/2012 16:05

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L12060837	Run Date:	06/29/2012	Sample ID:	WG402061-35
Instrument ID:	ICP-THERMO1	Run Time:	15:36	Method:	6010B
File ID:	T1.062912.153646	Analyst:	PDM	Units:	mg/L
Workgroup (AAB#):	WG401974	Cal ID:	ICP-TH - 29-JUN-12		
Matrix:	TCLP LEACHATE	QAPP:	WATERLOO		

Analytes	MDL	RDL	Concentration	Qualifier
Cadmium	0.000250	0.000500	0.000250	U
Chromium	0.00250	0.00500	0.00250	U
Lead	0.0100	0.100	0.0100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 2478849
Report generated 07/03/2012 16:05

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L12060837	Run Date:	06/29/2012	Sample ID:	WG402061-37
Instrument ID:	ICP-THERMO1	Run Time:	16:17	Method:	6010B
File ID:	T1.062912.161715	Analyst:	PDM	Units:	mg/L
Workgroup (AAB#):	WG401974	Cal ID:	ICP-TH - 29-JUN-12		
Matrix:	TCLP LEACHATE	QAPP:	WATERLOO		

Analytes	MDL	RDL	Concentration	Qualifier
Cadmium	0.000250	0.000500	0.000250	U
Chromium	0.00250	0.00500	0.00250	U
Lead	0.0100	0.100	0.0100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 2478849
Report generated 07/03/2012 16:05

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L12060837	Run Date:	06/29/2012	Sample ID:	WG402061-39
Instrument ID:	ICP-THERMO1	Run Time:	16:58	Method:	6010B
File ID:	T1.062912.165829	Analyst:	PDM	Units:	mg/L
Workgroup (AAB#):	WG401974	Cal ID:	ICP-TH - 29-JUN-12		
Matrix:	TCLP LEACHATE	QAPP:	WATERLOO		

Analytes	MDL	RDL	Concentration	Qualifier
Cadmium	0.000250	0.000500	0.000250	U
Chromium	0.00250	0.00500	0.00250	U
Lead	0.0100	0.100	0.0100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 2478849
Report generated 07/03/2012 16:05

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)
(Alternate Source)

Login Number: L12060837 Run Date: 06/29/2012 Sample ID: WG402061-06
Instrument ID: ICP-THERMO1 Run Time: 09:17 Method: 6010B
File ID: T1.062912.091732 Analyst: PDM Units: mg/L
Workgroup (AAB#): WG401974 Cal ID: ICP-TH - 29-JUN-12
QC Key: WATERLOO

Analyte		Expected	Found	%REC	LIMITS	Q
Cadmium		.05	0.0499	99.9	90 - 110	
Chromium		.5	0.500	100	90 - 110	
Lead		.5	0.500	100	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008
PDF File ID: 2478845
Report generated 07/03/2012 15:10

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L12060837 Run Date: 06/29/2012 Sample ID: WG402061-10

Instrument ID: ICP-THERMO1 Run Time: 09:31 Method: 6010B

File ID: T1.062912.093132 Analyst: PDM QC Key: WATERLOO

Workgroup (AAB#): WG401974 Cal ID: ICP-TH - 29-JUN-12

Matrix: TCLP LEACH

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Cadmium		0.0500	0.0507	mg/L	101	90 - 110		
Chromium		0.500	0.504	mg/L	101	90 - 110		
Lead		0.500	0.504	mg/L	101	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 2478848

Report generated 07/03/2012 16:05

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L12060837 Run Date: 06/29/2012 Sample ID: WG402061-14

Instrument ID: ICP-THERMO1 Run Time: 10:53 Method: 6010B

File ID: T1.062912.105345 Analyst: PDM QC Key: WATERLOO

Workgroup (AAB#): WG401974 Cal ID: ICP-TH - 29-JUN-12

Matrix: TCLP LEACH

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Cadmium		0.0500	0.0498	mg/L	99.7	90 - 110		
Chromium		0.500	0.507	mg/L	101	90 - 110		
Lead		0.500	0.503	mg/L	101	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 2478848

Report generated 07/03/2012 16:05

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L12060837 Run Date: 06/29/2012 Sample ID: WG402061-18

Instrument ID: ICP-THERMO1 Run Time: 11:07 Method: 6010B

File ID: T1.062912.110725 Analyst: PDM QC Key: WATERLOO

Workgroup (AAB#): WG401974 Cal ID: ICP-TH - 29-JUN-12

Matrix: TCLP LEACH

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Cadmium		0.0500	0.0498	mg/L	99.6	90 - 110		
Chromium		0.500	0.517	mg/L	103	90 - 110		
Lead		0.500	0.502	mg/L	100	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 2478848

Report generated 07/03/2012 16:05

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L12060837 Run Date: 06/29/2012 Sample ID: WG402061-34

Instrument ID: ICP-THERMO1 Run Time: 15:33 Method: 6010B

File ID: T1.062912.153330 Analyst: PDM QC Key: WATERLOO

Workgroup (AAB#): WG401974 Cal ID: ICP-TH - 29-JUN-12

Matrix: TCLP LEACH

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Cadmium		0.0500	0.0492	mg/L	98.4	90 - 110		
Chromium		0.500	0.500	mg/L	100	90 - 110		
Lead		0.500	0.507	mg/L	101	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 2478848

Report generated 07/03/2012 16:05

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L12060837 Run Date: 06/29/2012 Sample ID: WG402061-36

Instrument ID: ICP-THERMO1 Run Time: 16:14 Method: 6010B

File ID: T1.062912.161401 Analyst: PDM QC Key: WATERLOO

Workgroup (AAB#): WG401974 Cal ID: ICP-TH - 29-JUN-12

Matrix: TCLP LEACH

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Cadmium		0.0500	0.0495	mg/L	99.0	90 - 110		
Chromium		0.500	0.498	mg/L	99.6	90 - 110		
Lead		0.500	0.508	mg/L	102	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 2478848

Report generated 07/03/2012 16:05

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L12060837 Run Date: 06/29/2012 Sample ID: WG402061-38

Instrument ID: ICP-THERMO1 Run Time: 16:55 Method: 6010B

File ID: T1.062912.165514 Analyst: PDM QC Key: WATERLOO

Workgroup (AAB#): WG401974 Cal ID: ICP-TH - 29-JUN-12

Matrix: TCLP LEACH

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Cadmium		0.0500	0.0499	mg/L	99.8	90 - 110		
Chromium		0.500	0.508	mg/L	102	90 - 110		
Lead		0.500	0.506	mg/L	101	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 2478848

Report generated 07/03/2012 16:05

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L12060837 **Workgroup (AAB#):** WG401974
Instrument ID: ICP-THERMO1 **Method:** 6010B
Sol. A : WG402061-08 **File ID:** T1.062912.092424 **Units:** mg/L
Sol. AB : WG402061-09 **File ID:** T1.062912.092800 **Matrix:** TCLP Leach

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Cadmium	NS	-0.000340	NS	0.500	0.479	95.8	
Chromium	NS	-0.00160	NS	0.250	0.248	99.2	
Lead	NS	-0.00428	NS	0.500	0.490	98.0	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).
+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.

ICS - Modified 03/06/2008
PDF File ID: 2478847
Report generated 07/03/2012 15:10

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L12060837 **Workgroup (AAB#):** WG401974
Instrument ID: ICP-THERMO1 **Method:** 6010B
Sol. A : WG402061-16 **File ID:** T1.062912.110028 **Units:** mg/L
Sol. AB : WG402061-17 **File ID:** T1.062912.110400 **Matrix:** TCLP Leach

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Cadmium	NS	-0.000220	NS	0.500	0.475	95.0	
Chromium	NS	-0.000720	NS	0.250	0.249	99.6	
Lead	NS	-0.00101	NS	0.500	0.489	97.8	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).
+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.

ICS - Modified 03/06/2008
PDF File ID: 2478847
Report generated 07/03/2012 15:10

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L12060837 **Date:** 12/30/2011
Insturment ID: ICP-THERMO1 **Method:** 6010B

Analyte	Wave Length	AL	AS	B	BA	BE
ALUMINUM	308.20	0	0	0	0	0
ANTIMONY	206.80	0.0000190	0	0	0	0
ARSENIC	189.00	0	0	0	0	0
BARIUM	455.40	0	0	0	0	0
BERYLLIUM	313.00	0	0	0	0	0
BORON	249.70	0	0	0	0	0
CADMIUM	228.80	0	0.00200	0	-0.0000800	0
CALCIUM	422.70	0	0	0	0	0
CHROMIUM	267.70	0	0	0	0	0
COBALT	228.60	0	0	0	0	0
COPPER	224.70	0	0	0	0	0
IRON	261.20	0	0	0	0	0
LEAD	220.30	0.000210	0	0	0	0
LITHIUM	670.80	0	0	0	0	0
MAGNESIUM	279.10	0	0	0	0	0
MANGANESE	257.60	0	0	0	0	0
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	0	0
POTASSIUM	766.40	0	0	0	0	0
SELENIUM	196.00	0.0000100	0	0	0	0
SILICON	212.40	0	0	0	0	0
SILVER	328.00	0	0	0	0	0
SODIUM	589.50	0	0	0	0	0
STRONTIUM	407.80	0	0	0	0	0
THALLIUM	190.80	-0.0000120	0	0	0	0
TIN	189.90	0	0	0	0	0
TITANIUM	337.30	0	0	0	0	0
VANADIUM	292.40	0	0	0	0	0
ZINC	206.20	0.0000200	0	0	0	0

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 2478843
Report generated: 07/03/2012 15:10

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L12060837 **Date:** 12/30/2011
Insturment ID: ICP-THERMO1 **Method:** 6010B

Analyte	Wave Length	CA	CO	CR	CU	FE
ALUMINUM	308.20	0	-0.000820	0	0	0
ANTIMONY	206.80	0	0	0.00650	0	0.0000560
ARSENIC	189.00	0	0	0.000490	0	-0.0000300
BARIUM	455.40	0	0	0	0	0
BERYLLIUM	313.00	0	0	0	0	0
BORON	249.70	0	0.00343	0	0	-0.000619
CADMIUM	228.80	0	-0.00210	0	0	-0.00000100
CALCIUM	422.70	0	0	0	0	0
CHROMIUM	267.70	0	0	0	0	0.0000550
COBALT	228.60	0	0	-0.000200	0	0
COPPER	224.70	0	0.0000770	0	0	0.000140
IRON	261.20	0	0	-0.00100	0	0
LEAD	220.30	0	-0.0000130	-0.000132	0.000609	0
LITHIUM	670.80	0	0	0	0	0
MAGNESIUM	279.10	0	0	0	0	0
MANGANESE	257.60	0	0	-0.0000920	0	0
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	-0.000500	0	0	0.0000320
POTASSIUM	766.40	0	0	0	0	0
SELENIUM	196.00	0	0	0	0	0
SILICON	212.40	0	0	0	0	0
SILVER	328.00	0	0	0	0	0
SODIUM	589.50	0	0	0	0	0
STRONTIUM	407.80	0.000105	0	0	0	0
THALLIUM	190.80	0	0.00297	0.000276	0	0
TIN	189.90	0	0	0	0	0
TITANIUM	337.30	0	0	0	0	0
VANADIUM	292.40	0	0	-0.00138	0	-0.00000300
ZINC	206.20	0	0	-0.000800	0	0

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 2478843
Report generated: 07/03/2012 15:10

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L12060837 **Date:** 12/30/2011
Insturment ID: ICP-THERMO1 **Method:** 6010B

Analyte	Wave Length	LI	MG	MN	MO	NA
ALUMINUM	308.20	0	0	0	0.0163	0
ANTIMONY	206.80	0	0	0	0.000670	0
ARSENIC	189.00	0	0	0	0.00139	0
BARIUM	455.40	0	0	0	0	0
BERYLLIUM	313.00	0	0	0	0	0
BORON	249.70	0	0	0	-0.00190	0
CADMIUM	228.80	0	0	0	0.0000320	0
CALCIUM	422.70	0	0	0	0	0
CHROMIUM	267.70	0	0	0.00475	0	0
COBALT	228.60	0	0	0	-0.000983	0
COPPER	224.70	0	0	0	0.00200	0
IRON	261.20	0	0	0	0	0
LEAD	220.30	0	0	0	-0.00280	0
LITHIUM	670.80	0	0	0	0	0
MAGNESIUM	279.10	0	0	-0.00190	-0.0130	0
MANGANESE	257.60	0	0.0000190	0	0	0
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	0	0
POTASSIUM	766.40	0	0	0	0	0
SELENIUM	196.00	0	0	0.000800	0.000156	0
SILICON	212.40	0	0	0	0.0187	0
SILVER	328.00	0	0	0	-0.0000440	0
SODIUM	589.50	0	0	0	0	0
STRONTIUM	407.80	0	0	0	0	0
THALLIUM	190.80	0	0	0.00100	0	0
TIN	189.90	0	0	0	0	0
TITANIUM	337.30	0	0	0	-0.000153	0
VANADIUM	292.40	0	0	-0.000110	-0.00778	0
ZINC	206.20	0	0	0	0	0

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 2478843
Report generated: 07/03/2012 15:10

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L12060837 **Date:** 12/30/2011
Insturment ID: ICP-THERMO1 **Method:** 6010B

Analyte	Wave Length	NI	PB	SB	SN	SR
ALUMINUM	308.20	0	0	0	0	0
ANTIMONY	206.80	0	0	0	-0.00840	0
ARSENIC	189.00	0	0	0	0	0
BARIUM	455.40	0	0	0	0	0
BERYLLIUM	313.00	0	0	0	0	0
BORON	249.70	0	0	0	0	0
CADMIUM	228.80	-0.000128	0	0	0	0
CALCIUM	422.70	0	0	0	0	0
CHROMIUM	267.70	0	0	0	0	0
COBALT	228.60	0.000175	0	0	0	0
COPPER	224.70	-0.0120	0.00300	0	0	0
IRON	261.20	0	0	0	0	0
LEAD	220.30	0.000110	0	0	0	0
LITHIUM	670.80	0	0	0	0	0
MAGNESIUM	279.10	0	0	0	0	0
MANGANESE	257.60	0	0	0	0	0
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	0	0
POTASSIUM	766.40	0	0	0	0	0
SELENIUM	196.00	0	0	0	0	0
SILICON	212.40	0	0	0	0	0
SILVER	328.00	0	0	0	0	0
SODIUM	589.50	0	0	0	0	0
STRONTIUM	407.80	0	0	0	0	0
THALLIUM	190.80	0	0	0	0	0
TIN	189.90	0	0	0	0	0
TITANIUM	337.30	0	0	0	0	0
VANADIUM	292.40	0	0	0	0	0
ZINC	206.20	0	0	0	0	0

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 2478843
Report generated: 07/03/2012 15:10

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L12060837 **Date:** 12/30/2011
Insturment ID: ICP-THERMO1 **Method:** 6010B

Analyte	Wave Length	TI	V	ZN
ALUMINUM	308.20	0	0.00300	0
ANTIMONY	206.80	-0.00199	-0.00438	0
ARSENIC	189.00	0	0.000107	0
BARIUM	455.40	0	0	0
BERYLLIUM	313.00	-0.000770	0.00170	0
BORON	249.70	0	0	0
CADMIUM	228.80	0	0.000102	0
CALCIUM	422.70	0	0	0
CHROMIUM	267.70	0.0000550	0	0
COBALT	228.60	0.00158	0.0000200	0
COPPER	224.70	0.000269	0	0
IRON	261.20	0	0	0
LEAD	220.30	0	-0.000126	0
LITHIUM	670.80	0	0	0
MAGNESIUM	279.10	-0.00290	0	0
MANGANESE	257.60	0	0	0
MOLYBDENUM	202.03	0	-0.000110	0
NICKEL	231.60	0	0	0
POTASSIUM	766.40	0	0	0
SELENIUM	196.00	0	0	0
SILICON	212.40	0	0	0
SILVER	328.00	-0.00620	-0.00617	0
SODIUM	589.50	0	0	0
STRONTIUM	407.80	0	0	0
THALLIUM	190.80	-0.00170	-0.00116	0
TIN	189.90	-0.00190	0	0
TITANIUM	337.30	0	0	0
VANADIUM	292.40	0.000600	0	0
ZINC	206.20	0	0	0

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 2478843
Report generated: 07/03/2012 15:10

Microbac Laboratories Inc.
LINEAR RANGE (QUARTERLY)

Login Number: L12060837 **Date:** 06/26/2012
Insturment ID: ICP-THERMO1 **Method:** 6010B

Analyte	Integration Time (Sec.)	Concentration (mg/L)
Aluminum	10.00	810.0
Antimony	10.00	90.0
Arsenic	10.00	72.0
Barium	10.00	81.0
Beryllium	15.00	9.0
Boron	10.00	90.0
Cadmium	10.00	4.5
Calcium	10.00	900.0
Chromium	10.00	90.0
Cobalt	10.00	90.0
Copper	10.00	180.0
Iron	5.00	900.0
Lead	10.00	225.0
Lithium	10.00	90.0
Magnesium	15.00	810.0
Manganese	15.00	180.0
Molybdenum	10.00	27.0
Nickel	10.00	90.0
Potassium	10.00	315.0
Selenium	10.00	90.0
Silver	5.00	9.0
Sodium	10.00	270.0
Strontium	10.00	4.5
Thallium	10.00	18.0
Tin	10.00	90.0
Titanium	15.00	90.0
Vanadium	10.00	18.0
Zinc	10.00	45.0

Comments:
All analytes passed acceptance criteria at the specified concentration.

LINEAR_RANGE - Modified 03/06/2008
PDF File ID: 2478842
Report generated: 07/03/2012 15:10

2.1.1.3 Raw Data

Sample Name: S0 Acquired: 6/29/2012 8:59:12 Type: Cal
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: IR Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00259**	**.00179**	**.00004**	**.00230**	**.00216**	**-.00294**	**-.00125**
Stddev	.00017	.00024	.00003	.00066	.00006	.00066	.00034
%RSD	6.5550	13.551	77.454	28.809	3.0002	22.438	27.015
#1	-.00240	.00157	.00005	.00219	.00223	-.00300	-.00091
#2	-.00273	.00205	.00006	.00170	.00215	-.00225	-.00158
#3	-.00263	.00173	.00000	.00301	.00210	-.00356	-.00125

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00066**	**-.00015**	**.00187**	**.00022**	**.00030**	**.00552**	**-.00159**
Stddev	.00009	.00004	.00034	.00011	.00008	.00020	.00060
%RSD	13.004	25.728	18.336	49.169	25.807	3.6166	37.933
#1	.00067	-.00012	.00221	.00010	.00038	.00567	-.00175
#2	.00056	-.00014	.00186	.00024	.00031	.00529	-.00093
#3	.00073	-.00019	.00152	.00031	.00022	.00560	-.00211

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00004**	**.00160**	**.00014**	**-.00654**	**.00079**	**-.00020**	**-.00004**
Stddev	.00008	.00015	.00004	.00076	.00060	.00007	.00012
%RSD	217.53	9.1285	26.419	11.649	76.667	35.985	342.13
#1	-.00011	.00174	.00012	-.00725	.00138	-.00026	.00011
#2	.00005	.00163	.00012	-.00663	.00079	-.00012	-.00009
#3	-.00006	.00145	.00018	-.00574	.00018	-.00022	-.00012

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00007**	**.00522**	**.00011**	**.00065**	**-.00105**	**-.00033**	**.00049**
Stddev	.00007	.00004	.00004	.00017	.00007	.00008	.00023
%RSD	92.043	.83317	36.618	26.052	6.5625	24.142	46.398
#1	.00010	.00525	.00011	.00064	-.00113	-.00031	.00026
#2	.00000	.00517	.00014	.00082	-.00104	-.00042	.00049
#3	.00013	.00524	.00007	.00048	-.00099	-.00026	.00071

Approved: July 02, 2012
Pierre Morris

Sample Name: S0 Acquired: 6/29/2012 8:59:12 Type: Cal
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: IR Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062
Units	Cts/S
Avg	**-.00083**
Stddev	.00002
%RSD	2.7434
#1	-.00085
#2	-.00082
#3	-.00080

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12633.**	**23131.**
Stddev	82.	94.
%RSD	.64593	.40493
#1	12597.	23097.
#2	12726.	23237.
#3	12575.	23059.

Approved: July 02, 2012
Pierre Morris

Sample Name: S1 Acquired: 6/29/2012 9:03:35 Type: Cal
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: IR Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	Ba4554	Be3131	Ca4226	Cd2288	Co2286	Cr2677
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00080**	**.01079**	**.02040**	**.00239**	**.00165**	**.00107**	**.00068**	**.00443**
Stddev	.00034	.00012	.00081	.00030	.00011	.00011	.00009	.00026
%RSD	42.909	1.1038	3.9637	12.714	6.5440	9.8445	13.946	5.8552
#1	.00120	.01091	.01983	.00261	.00156	.00119	.00068	.00418
#2	.00057	.01080	.02132	.00250	.00177	.00099	.00058	.00443
#3	.00064	.01067	.02005	.00204	.00161	.00102	.00077	.00470

Elem	Cu2247	Fe2611	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00124**	**.00085**	**.01136**	**.00123**	**.00054**	**.00183**	**.00220**	**.01740**
Stddev	.00014	.00010	.00007	.00033	.00002	.00005	.00009	.00026
%RSD	10.983	12.004	.59052	27.169	3.7745	2.8855	4.1972	1.5002
#1	.00138	.00092	.01138	.00089	.00054	.00186	.00229	.01761
#2	.00121	.00090	.01128	.00156	.00052	.00177	.00220	.01711
#3	.00112	.00073	.01141	.00125	.00056	.00186	.00210	.01748

Elem	Ni2316	Pb2203	Sb2068	Si2124	Sn1899	Sr4077	Ti3372	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00044**	**.00016**	**.00053**	**.00498**	**.00098**	**.02878**	**.00056**	**.01225**
Stddev	.00011	.00005	.00007	.00010	.00005	.00031	.00009	.00036
%RSD	25.157	30.921	13.561	2.0864	4.7852	1.0689	15.566	2.9255
#1	.00048	.00010	.00060	.00507	.00095	.02914	.00062	.01210
#2	.00052	.00018	.00046	.00499	.00096	.02865	.00046	.01266
#3	.00031	.00020	.00052	.00487	.00103	.02857	.00061	.01199

Elem	Zn2062
Units	Cts/S
Avg	**.00549**
Stddev	.00004
%RSD	.73921
#1	.00554
#2	.00546
#3	.00548

Approved: July 02, 2012
Pierre Morris

Sample Name: S1 Acquired: 6/29/2012 9:03:35 Type: Cal
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: IR Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12745.**	**23047.**
Stddev	41.	108.
%RSD	.31967	.46919
#1	12698.	23154.
#2	12768.	22938.
#3	12769.	23050.

Approved: July 02, 2012
Pierre Morris

Sample Name: S2 Acquired: 6/29/2012 9:07:08 Type: Cal
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: IR Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226	Cd2288
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00504**	**.01982**	**.00022**	**.00411**	**.03840**	**.00878**	**.00415**	**.00148**
Stddev	.00029	.00040	.00004	.00037	.00001	.00087	.00021	.00008
%RSD	5.8324	2.0212	18.944	9.0661	.01788	9.8634	5.0607	5.3237
#1	.00479	.02019	.00022	.00410	.03840	.00822	.00411	.00141
#2	.00536	.01939	.00026	.00375	.03839	.00833	.00438	.00147
#3	.00498	.01988	.00018	.00449	.03840	.00977	.00396	.00157

Elem	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707	Mg2790	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00155**	**.00821**	**.00235**	**.00164**	**.01668**	**.00345**	**.00115**	**.00317**
Stddev	.00007	.00012	.00027	.00006	.00011	.00074	.00010	.00016
%RSD	4.6995	1.4399	11.431	3.6755	.66758	21.385	9.0403	5.0848
#1	.00163	.00807	.00205	.00158	.01680	.00270	.00114	.00306
#2	.00154	.00829	.00243	.00165	.01667	.00348	.00125	.00308
#3	.00149	.00825	.00257	.00170	.01657	.00418	.00105	.00335

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00424**	**.04140**	**.00139**	**.00038**	**.00105**	**.00015**	**.00505**	**.00175**
Stddev	.00008	.00048	.00004	.00011	.00010	.00011	.00002	.00002
%RSD	1.8307	1.1489	3.1301	28.239	9.1276	76.147	.36543	1.2959
#1	.00428	.04166	.00139	.00041	.00116	.00008	.00505	.00178
#2	.00415	.04085	.00134	.00047	.00104	.00028	.00504	.00173
#3	.00429	.04169	.00143	.00026	.00097	.00008	.00508	.00174

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.05715**	**.00214**	**.00001**	**.02362**	**.01098**
Stddev	.00008	.00005	.00010	.00042	.00008
%RSD	.14360	2.2269	921.64	1.7616	.73672
#1	.05722	.00215	.00005	.02410	.01105
#2	.05706	.00208	.00008	.02343	.01100
#3	.05717	.00217	-.00010	.02334	.01089

Approved: July 02, 2012
Pierre Morris

Sample Name: S2 Acquired: 6/29/2012 9:07:08 Type: Cal
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: IR Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12590.**	**22998.**
Stddev	39.	202.
%RSD	.30806	.88017
#1	12573.	22784.
#2	12635.	23187.
#3	12563.	23022.

Approved: July 02, 2012
Pierre Morris

Sample Name: S3 Acquired: 6/29/2012 9:10:39 Type: Cal
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: IR Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226	Cd2288
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.35779**	**.92544**	**.01209**	**.13642**	**1.7815**	**.56398**	**.24108**	**.03837**
Stddev	.00229	.00818	.00004	.00139	.0062	.00371	.00075	.00002
%RSD	.63967	.88391	.29175	1.0172	.34633	.65725	.31049	.03979
#1	.35629	.91776	.01207	.13497	1.7743	.56018	.24024	.03838
#2	.36043	.92453	.01213	.13773	1.7851	.56758	.24167	.03838
#3	.35666	.93404	.01207	.13655	1.7850	.56419	.24132	.03836

Elem	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707	Mg2790	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.08683**	**.37682**	**.10302**	**.07846**	**.59827**	**.26460**	**.05371**	**.12814**
Stddev	.00025	.00303	.00008	.00026	.00207	.00132	.00020	.00043
%RSD	.28725	.80286	.08226	.33018	.34572	.49768	.37034	.33787
#1	.08710	.37432	.10310	.07831	.59590	.26314	.05353	.12777
#2	.08675	.38018	.10293	.07876	.59924	.26571	.05392	.12805
#3	.08662	.37597	.10303	.07832	.59968	.26494	.05368	.12862

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.20919**	**2.3331**	**.08717**	**.03943**	**.05036**	**.00836**	**.00655**	**.08022**
Stddev	.00027	.0058	.00007	.00018	.00011	.00003	.00003	.00016
%RSD	.12833	.24981	.07978	.44634	.21861	.32591	.41257	.19713
#1	.20938	2.3264	.08710	.03963	.05047	.00837	.00658	.08029
#2	.20889	2.3361	.08717	.03937	.05025	.00833	.00654	.08034
#3	.20931	2.3369	.08724	.03929	.05035	.00838	.00654	.08004

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.7824**	**.16292**	**.01449**	**1.1511**	**.48476**
Stddev	.0043	.00052	.00008	.0077	.00068
%RSD	.15294	.31912	.53843	.67289	.14013
#1	2.7775	.16251	.01441	1.1429	.48480
#2	2.7854	.16350	.01456	1.1583	.48541
#3	2.7843	.16273	.01449	1.1520	.48406

Approved: July 02, 2012
Pierre Morris

Sample Name: S3 Acquired: 6/29/2012 9:10:39 Type: Cal
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: IR Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12551.**	**22978.**
Stddev	92.	34.
%RSD	.72982	.14786
#1	12527.	22996.
#2	12474.	23000.
#3	12652.	22939.

Approved: July 02, 2012
Pierre Morris

Sample Name: S4 Acquired: 6/29/2012 9:14:11 Type: Cal
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: IR Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226	Cd2288
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.71730**	**1.8852**	**.02437**	**.27480**	**3.5875**	**1.1323**	**.48603**	**.07673**
Stddev	.00089	.0198	.00015	.00053	.0006	.0032	.00089	.00009
%RSD	.12367	1.0476	.61934	.19130	.01727	.28745	.18412	.11840
#1	.71628	1.8997	.02419	.27421	3.5876	1.1286	.48673	.07684
#2	.71783	1.8931	.02445	.27523	3.5881	1.1342	.48634	.07667
#3	.71780	1.8627	.02446	.27496	3.5869	1.1342	.48503	.07668

Elem	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707	Mg2790	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.17425**	**.75201**	**.20543**	**.15663**	**1.1994**	**.53327**	**.10783**	**.25676**
Stddev	.00033	.00094	.00020	.00044	.0017	.00037	.00027	.00056
%RSD	.18674	.12518	.09943	.27774	.14426	.07009	.24837	.21798
#1	.17462	.75094	.20553	.15712	1.2006	.53293	.10810	.25714
#2	.17400	.75272	.20556	.15629	1.2002	.53367	.10757	.25702
#3	.17412	.75236	.20519	.15648	1.1974	.53319	.10782	.25611

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.41946**	**4.6867**	**.17382**	**.07939**	**.10133**	**.01681**	**.00785**	**.16062**
Stddev	.00008	.0046	.00024	.00031	.00009	.00016	.00016	.00019
%RSD	.01850	.09812	.13754	.39282	.09026	.95379	1.9960	.11986
#1	.41952	4.6902	.17387	.07971	.10128	.01681	.00781	.16064
#2	.41949	4.6884	.17356	.07939	.10144	.01697	.00772	.16081
#3	.41937	4.6815	.17403	.07908	.10127	.01665	.00803	.16042

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5.6040**	**.32878**	**.02911**	**2.3141**	**.96663**
Stddev	.0020	.00034	.00009	.0045	.00057
%RSD	.03595	.10419	.32588	.19371	.05873
#1	5.6031	.32893	.02901	2.3090	.96727
#2	5.6063	.32839	.02920	2.3174	.96619
#3	5.6025	.32903	.02912	2.3158	.96642

Approved: July 02, 2012
Pierre Morris

Sample Name: S4 Acquired: 6/29/2012 9:14:11 Type: Cal
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: IR Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12545.**	**23066.**
Stddev	45.	214.
%RSD	.35530	.92562
#1	12553.	22861.
#2	12585.	23051.
#3	12497.	23287.

Approved: July 02, 2012
Pierre Morris

Sample Name: ICV Acquired: 6/29/2012 9:17:32 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41000**	**9.7909**	**.39789**	**.50272**	**.98742**	**.05010**	**9.9896**
Stddev	.00352	.0381	.00097	.00375	.00184	.00037	.0169
%RSD	.85846	.38926	.24398	.74693	.18675	.73389	.16889
#1	.41386	9.8330	.39850	.50542	.98768	.05049	9.9915
#2	.40696	9.7813	.39677	.50432	.98546	.05004	9.9719
#3	.40919	9.7586	.39840	.49843	.98913	.04976	10.006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04994**	**.20023**	**.50003**	**.49666**	**3.9617**	**49.855**	**.99490**
Stddev	.00018	.00024	.00391	.00095	.0035	.102	.00149
%RSD	.36562	.11888	.78269	.19147	.08823	.20455	.14927
#1	.04983	.20050	.50454	.49585	3.9655	49.866	.99355
#2	.04983	.20016	.49760	.49643	3.9607	49.748	.99465
#3	.05015	.20004	.49795	.49771	3.9587	49.951	.99649
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.003**	**.49800**	**1.0265**	**50.117**	**.50005**	**.50037**	**1.1761**
Stddev	.018	.00160	.0005	.050	.00026	.00120	.0029
%RSD	.18136	.32076	.05108	.09958	.05275	.23909	.24599
#1	9.9972	.49898	1.0263	50.115	.50035	.50077	1.1791
#2	9.9887	.49615	1.0271	50.067	.49994	.49903	1.1733
#3	10.024	.49885	1.0261	50.167	.49986	.50132	1.1760
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: July 02, 2012
Pierre Morris

Sample Name: ICV Acquired: 6/29/2012 9:17:32 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39289**	F **1187.5**	**.98112**	**.99599**	**.98962**	**.49985**	**1.0018**
Stddev	.00521	2.5	.00121	.00187	.00259	.00219	.0104
%RSD	1.3261	.20665	.12288	.18760	.26214	.43839	1.0414
#1	.38709	1185.1	.98224	.99699	.99240	.50235	1.0137
#2	.39719	1187.3	.98126	.99383	.98727	.49891	.99751
#3	.39439	1190.0	.97985	.99713	.98920	.49828	.99421
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		5.0000					
Range		5.0000%					

Elem	Zn2062
Units	ppm
Avg	**.99196**
Stddev	.00088
%RSD	.08829
#1	.99272
#2	.99100
#3	.99216
Check ?	Chk Pass
Value	
Range	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12644.**	**23141.**
Stddev	41.	33.
%RSD	.32046	.14202
#1	12604.	23173.
#2	12685.	23142.
#3	12643.	23107.

Approved: July 02, 2012
Pierre Morris

Sample Name: ICB Acquired: 6/29/2012 9:20:51 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.00042**	**-.00076**	**-.00231**	**.00020**	**-.00002**	**-.00050**
Stddev	.00075	.00184	.00149	.00109	.00010	.00003	.00203
%RSD	772.49	440.87	197.14	47.158	48.558	152.79	409.42
#1	-.00049	.00196	-.00090	-.00238	.00029	-.00002	.00169
#2	.00077	.00092	.00080	-.00336	.00020	.00001	-.00233
#3	-.00057	-.00162	-.00217	-.00119	.00010	-.00004	-.00084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00014**	**F .00647**	**-.00067**	**.02228**	**.04878**	**-.00217**
Stddev	.00018	.00028	.00089	.00093	.00176	.00819	.00161
%RSD	2039.4	203.22	13.706	137.89	7.8921	16.799	74.379
#1	.00020	-.00008	.00671	.00039	.02051	.05226	-.00034
#2	-.00014	.00045	.00549	-.00131	.02402	.03942	-.00340
#3	-.00009	.00004	.00721	-.00110	.02232	.05466	-.00277
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.00300				
Low Limit			-.00300				

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03281**	**-.00465**	**.00047**	**-.00949**	**-.00372**	**-.00160**	**.00006**
Stddev	.01737	.00013	.00007	.01075	.00034	.00050	.00076
%RSD	52.946	2.8637	15.118	113.28	9.1346	31.198	1174.6
#1	.04536	-.00451	.00055	-.02191	-.00354	-.00102	-.00038
#2	.01298	-.00465	.00042	-.00326	-.00351	-.00188	.00095
#3	.04009	-.00477	.00044	-.00331	-.00412	-.00189	-.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: ICB Acquired: 6/29/2012 9:20:51 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00297**	F **-1.2182**	**-.00041**	**-.00005**	**.00090**	**.00254**	**.00018**
Stddev	.00405	.5344	.00038	.00016	.00135	.00191	.00034
%RSD	136.43	43.864	92.311	290.52	149.63	75.234	193.66
#1	-.00650	-.84239	-.00084	.00013	.00238	.00266	.00049
#2	-.00386	-.98235	-.00012	-.00013	.00058	.00057	-.00019
#3	.00145	-1.8299	-.00028	-.00016	-.00026	.00439	.00023
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1.0000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.00126**
Stddev	.00009
%RSD	7.1409
#1	.00116
#2	.00134
#3	.00127
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12685.**	**23082.**
Stddev	139.	119.
%RSD	1.0934	.51652
#1	12612.	22957.
#2	12599.	23195.
#3	12845.	23094.

Approved: July 02, 2012
Pierre Morris

Sample Name: ICSA Acquired: 6/29/2012 9:24:24 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00081**	**240.94**	**.00441**	**.02227**	**.00049**	**-.00002**	**247.90**
Stddev	.00073	.14	.00352	.00059	.00030	.00005	.39
%RSD	89.721	.05627	79.944	2.6721	61.017	263.98	.15924
#1	.00093	241.10	.00662	.02175	.00065	.00004	247.45
#2	.00148	240.86	.00626	.02292	.00066	-.00007	248.17
#3	.00003	240.87	.00034	.02213	.00014	-.00003	248.08
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00034**	**.00000**	**-.00160**	F **-.00538**	**95.882**	**-.03210**	**.00539**
Stddev	.00004	.0003	.00050	.00052	.157	.03054	.00187
%RSD	12.616	8518.4	31.333	9.6916	.16410	95.154	34.673
#1	-.00039	.00016	-.00104	-.00598	95.702	-.01536	.00324
#2	-.00030	.00021	-.00175	-.00509	95.950	-.01359	.00664
#3	-.00034	-.00038	-.00201	-.00507	95.993	-.06735	.00629
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				.00500			
Low Limit				-.00500			

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**247.15**	**-.00472**	**-.00042**	**.00617**	**-.00515**	**-.00428**	**-.00933**
Stddev	.12	.00057	.00031	.00723	.00011	.00073	.00245
%RSD	.04908	12.076	74.540	117.08	2.1953	16.980	26.239
#1	247.08	-.00514	-.00046	.00226	-.00506	-.00362	-.01195
#2	247.07	-.00495	-.00009	.00175	-.00528	-.00506	-.00710
#3	247.29	-.00407	-.00071	.01451	-.00512	-.00415	-.00895
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: ICSA Acquired: 6/29/2012 9:24:24 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00916**	F **10.745**	**.00064**	**-.00012**	**-.00108**	**.00895**	**.00379**
Stddev	.00709	.550	.00019	.00006	.00040	.00248	.00032
%RSD	77.389	5.1175	29.812	51.025	37.357	27.672	8.3116
#1	-.01731	10.927	.00078	-.00013	-.00062	.00825	.00415
#2	-.00584	10.127	.00072	-.00019	-.00133	.00690	.00369
#3	-.00434	11.181	.00042	-.00006	-.00130	.01171	.00354
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1.0000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**-.00355**
Stddev	.00005
%RSD	1.4394
#1	-.00356
#2	-.00349
#3	-.00359
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12349.**	**23363.**
Stddev	11.	75.
%RSD	.09066	.32020
#1	12336.	23283.
#2	12353.	23376.
#3	12357.	23431.

Approved: July 02, 2012
Pierre Morris

Sample Name: ICSAB Acquired: 6/29/2012 9:28:00 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.52085**	**238.97**	**.25886**	**.01442**	**.25051**	**.25842**	**247.84**
Stddev	.00152	.88	.00063	.00182	.00027	.00081	.19
%RSD	.29216	.36897	.24492	12.638	.10742	.31234	.07546
#1	.52253	239.28	.25925	.01465	.25076	.25934	247.62
#2	.52045	237.97	.25921	.01249	.25053	.25785	247.93
#3	.51956	239.65	.25813	.01611	.25023	.25807	247.97
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.47896**	**.24256**	**.24823**	**.23883**	**95.619**	**5.0914**	**.00451**
Stddev	.00065	.00094	.00082	.00089	.067	.0226	.00159
%RSD	.13597	.38622	.33181	.37249	.07042	.44367	35.371
#1	.47827	.24147	.24916	.23801	95.571	5.1136	.00553
#2	.47904	.24305	.24790	.23869	95.696	5.0685	.00267
#3	.47956	.24314	.24761	.23978	95.591	5.0922	.00531
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**245.11**	**.25147**	**-.00043**	**5.2407**	**.47911**	**.49031**	**.50003**
Stddev	.18	.00128	.00062	.0061	.00118	.00486	.00173
%RSD	.07322	.51043	145.19	.11689	.24592	.99147	.34527
#1	244.91	.25148	.00000	5.2426	.47796	.49161	.49892
#2	245.26	.25275	-.00114	5.2339	.48031	.49439	.49915
#3	245.14	.25018	-.00014	5.2457	.47907	.48493	.50202
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: ICSAB Acquired: 6/29/2012 9:28:00 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.24333**	F **-1.4165**	**.00369**	**-.00014**	**-.00130**	**.49695**	**.25806**
Stddev	.00384	.7434	.00123	.00013	.00009	.00294	.00098
%RSD	1.5776	52.478	33.274	92.604	6.7024	.59130	.37882
#1	.24435	-.61501	.00249	-.00028	-.00134	.49357	.25919
#2	.24657	-1.5513	.00363	-.00007	-.00135	.49887	.25743
#3	.23909	-2.0833	.00495	-.00006	-.00120	.49840	.25757
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1.0000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.48555**
Stddev	.00027
%RSD	.05645
#1	.48537
#2	.48586
#3	.48542
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12243.**	**23389.**
Stddev	34.	18.
%RSD	.27723	.07790
#1	12261.	23374.
#2	12264.	23410.
#3	12204.	23384.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 9:31:32 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39745**	**9.8377**	**.40317**	**.49599**	**1.0006**	**.04951**	**9.9957**
Stddev	.00131	.0925	.00173	.00302	.0008	.00007	.0123
%RSD	.32952	.94012	.43030	.60968	.08051	.13159	.12281
#1	.39893	9.9261	.40323	.49296	.99975	.04952	9.9953
#2	.39694	9.8455	.40140	.49901	1.0014	.04944	10.008
#3	.39647	9.7416	.40487	.49600	1.0007	.04957	9.9837
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05065**	**.20243**	**.50415**	**.50816**	**4.0069**	**49.941**	**1.0070**
Stddev	.00028	.00093	.00068	.00144	.0097	.046	.0018
%RSD	.55760	.46178	.13396	.28370	.24223	.09249	.17643
#1	.05061	.20188	.50452	.50739	4.0093	49.890	1.0075
#2	.05039	.20189	.50337	.50726	3.9962	49.979	1.0085
#3	.05095	.20350	.50455	.50982	4.0151	49.955	1.0051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.9756**	**.50368**	**.99797**	**50.283**	**.50459**	**.50416**	**1.2058**
Stddev	.0294	.00149	.00314	.021	.00180	.00052	.0033
%RSD	.29431	.29518	.31496	.04249	.35701	.10309	.27696
#1	9.9551	.50198	.99483	50.259	.50379	.50432	1.2048
#2	9.9625	.50440	.99798	50.292	.50332	.50358	1.2031
#3	10.009	.50468	1.0011	50.299	.50665	.50458	1.2096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 9:31:32 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40232**	F **9.8153**	**1.0038**	**1.0027**	**1.0086**	**.50268**	**.99679**
Stddev	.00819	.3870	.0026	.0011	.0023	.00392	.00064
%RSD	2.0360	3.9430	.26128	.10594	.23118	.78011	.06453
#1	.39342	9.8695	1.0014	1.0015	1.0080	.49963	.99702
#2	.40400	9.4040	1.0034	1.0036	1.0112	.50130	.99607
#3	.40954	10.172	1.0066	1.0029	1.0066	.50710	.99730
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		5.0000					
Range		10.000%					

Elem	Zn2062
Units	ppm
Avg	**1.0109**
Stddev	.0040
%RSD	.39279
#1	1.0093
#2	1.0080
#3	1.0154
Check ?	Chk Pass
Value	
Range	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12702.**	**23490.**
Stddev	46.	148.
%RSD	.36185	.62830
#1	12732.	23339.
#2	12726.	23499.
#3	12650.	23634.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCB Acquired: 6/29/2012 9:34:50 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00150**	**.00109**	**-.00211**	**.00037**	**.00000**	**.00555**	**-.00014**
Stddev	.00081	.00187	.00136	.00062	.00012	.0000	.00806	.00022
%RSD	1932.7	124.76	125.14	29.386	33.175	1119.7	145.28	155.79
#1	-.00064	-.00040	.00209	-.00282	.00047	-.00004	-.00225	-.00006
#2	-.00017	.00157	-.00046	-.00177	.00040	.00000	.01385	-.00039
#3	.00094	.00333	.00165	-.00174	.00023	.00002	.00505	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**-.00187**	**-.00030**	**-.00792**	**.02588**	**-.00184**	**.00872**	**-.00524**
Stddev	.00021	.00016	.00039	.00212	.05751	.00268	.00904	.00064
%RSD	215.05	8.3005	131.06	26.769	222.18	145.17	103.59	12.180
#1	.00011	-.00204	-.00073	-.00623	.06326	-.00450	.00752	-.00597
#2	.00030	-.00181	-.00016	-.00723	-.04034	.00085	.00035	-.00497
#3	-.00012	-.00175	.00001	-.01030	.05472	-.00188	.01830	-.00478
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**-.00584**	**-.00752**	**-.00240**	**.00106**	**-.00357**	**-.34680**	**.00095**
Stddev	.00039	.00299	.00045	.00125	.00079	.00131	.18275	.00022
%RSD	391.21	51.174	6.0434	52.068	74.930	36.556	52.694	22.850
#1	-.00031	-.00334	-.00742	-.00121	.00096	-.00480	-.47414	.00112
#2	.00014	-.00915	-.00713	-.00370	.00032	-.00220	-.13741	.00071
#3	.00046	-.00502	-.00802	-.00229	.00189	-.00371	-.42886	.00103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Approved: July 02, 2012
Pierre Morris

Sample Name: CCB Acquired: 6/29/2012 9:34:50 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00102**	**.00208**	**-.00002**	**.00001**
Stddev	.00009	.00039	.00136	.00022	.00004
%RSD	141.03	38.279	65.169	1132.2	518.16
#1	.00004	.00148	.00080	-.00002	.00003
#2	-.00011	.00076	.00351	-.00024	.00003
#3	-.00012	.00084	.00194	.00020	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12678.**	**23429.**
Stddev	44.	187.
%RSD	.34363	.79613
#1	12728.	23214.
#2	12660.	23551.
#3	12647.	23522.

Approved: July 02, 2012
Pierre Morris

Sample Name: PBS 1B Acquired: 6/29/2012 9:38:26 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401918-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**-.00299**	**.00253**	**-.00307**	**.00024**	**-.00002**	**.01920**
Stddev	.00002	.00187	.00207	.00077	.00010	.00003	.00898
%RSD	5.6465	62.454	81.728	25.094	42.232	137.87	46.775
#1	-.00035	-.00178	.00473	-.00251	.00013	.00000	.02907
#2	-.00037	-.00206	.00224	-.00394	.00027	-.00006	.01152
#3	-.00040	-.00514	.00062	-.00274	.00032	-.00001	.01700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**-.00047**	**-.00149**	**-.00056**	**-.01105**	**-.02439**	**-.00097**
Stddev	.00013	.00027	.00017	.00031	.00421	.08894	.00180
%RSD	67.165	56.947	11.660	56.174	38.101	364.64	184.45
#1	.00010	-.00030	-.00169	-.00062	-.01374	-.12327	-.00170
#2	.00014	-.00034	-.00140	-.00084	-.01321	.04906	.00107
#3	.00035	-.00078	-.00139	-.00022	-.00620	.00104	-.00229
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01187**	F **-.00527**	**-.00009**	**.00882**	**-.00737**	**-.00325**	**.00296**
Stddev	.00434	.00021	.00013	.00170	.00063	.00224	.00089
%RSD	36.580	4.0375	139.64	19.252	8.5906	68.994	30.163
#1	.00779	-.00526	-.00004	.00864	-.00808	-.00585	.00398
#2	.01643	-.00506	-.00024	.01060	-.00689	-.00193	.00260
#3	.01139	-.00548	.00000	.00722	-.00713	-.00198	.00230
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		180.00					
Low Limit		-.00300					

Approved: July 02, 2012
Pierre Morris

Sample Name: PBS 1B Acquired: 6/29/2012 9:38:26 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401918-02

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00158**	**1.1086**	**-.00051**	**.00000**	**.00109**	**-.00459**	**-.00018**
Stddev	.00262	.2987	.00085	.0001	.00123	.00265	.00020
%RSD	165.72	26.942	167.35	1253.7	112.09	57.654	111.13
#1	.00054	1.3887	.00017	.00004	.00012	-.00203	.00005
#2	-.00077	1.1427	-.00146	.00001	.00070	-.00442	-.00032
#3	-.00451	.79428	-.00023	-.00006	.00247	-.00732	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	**.00225**
Stddev	.00017
%RSD	7.3993
#1	.00237
#2	.00206
#3	.00231
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12601.**	**24259.**
Stddev	54.	386.
%RSD	.42483	1.5920
#1	12606.	24697.
#2	12545.	24108.
#3	12652.	23970.

Approved: July 02, 2012
Pierre Morris

Sample Name: LCSS 1B Acquired: 6/29/2012 9:41:59 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401918-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20399**	**4.5704**	**.18994**	**.94579**	**.48662**	**.02445**	**4.8217**
Stddev	.00105	.0187	.00055	.00222	.00771	.00008	.0659
%RSD	.51549	.41022	.28813	.23479	1.5840	.32055	1.3656
#1	.20482	4.5545	.19057	.94407	.47826	.02446	4.7473
#2	.20281	4.5658	.18967	.94501	.48815	.02437	4.8452
#3	.20435	4.5911	.18959	.94830	.49344	.02452	4.8725
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02428**	**.09921**	**.25062**	**.24354**	**1.8762**	**24.032**	**.49313**
Stddev	.00019	.00020	.00132	.00066	.0375	.428	.00728
%RSD	.77438	.19716	.52765	.27014	1.9974	1.7811	1.4761
#1	.02407	.09943	.25146	.24356	1.8410	23.570	.48555
#2	.02441	.09915	.24909	.24287	1.8720	24.110	.49378
#3	.02437	.09906	.25130	.24419	1.9156	24.415	.50006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.8501**	**.23887**	**.51557**	**24.749**	**.24384**	**.24585**	**.57143**
Stddev	.0685	.00447	.00009	.375	.00095	.00149	.00254
%RSD	1.4132	1.8701	.01735	1.5132	.39128	.60773	.44501
#1	4.7718	.23407	.51567	24.327	.24275	.24712	.57166
#2	4.8791	.23961	.51550	24.878	.24422	.24623	.56878
#3	4.8994	.24291	.51555	25.042	.24454	.24420	.57385
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: LCSS 1B Acquired: 6/29/2012 9:41:59 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401918-03

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18566**	F **614.87**	**.49894**	**.48311**	**.48504**	**.24434**	**.50491**
Stddev	.00506	.87	.00092	.00734	.00751	.00118	.00231
%RSD	2.7263	.14179	.18498	1.5202	1.5481	.48428	.45743
#1	.18340	614.15	.49788	.47501	.47637	.24445	.50613
#2	.18211	614.62	.49941	.48499	.48930	.24547	.50225
#3	.19145	615.84	.49954	.48933	.48945	.24311	.50636
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.48780**
Stddev	.00066
%RSD	.13592
#1	.48833
#2	.48800
#3	.48706
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12547.**	**23656.**
Stddev	12.	68.
%RSD	.09649	.28652
#1	12541.	23732.
#2	12538.	23631.
#3	12561.	23604.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206059410 Acquired: 6/29/2012 9:45:16 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04448**	**81.346**	**.39139**	**.11131**	**3.0559**	**.01075**	**639.64**
Stddev	.00031	.522	.00311	.00384	.0472	.00002	10.17
%RSD	.70259	.64153	.79578	3.4507	1.5460	.18984	1.5897
#1	.04463	80.892	.38780	.10768	3.0060	.01073	627.93
#2	.04412	81.229	.39329	.11093	3.0616	.01077	644.74
#3	.04468	81.916	.39308	.11533	3.1000	.01075	646.25
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.26096**	**.10055**	**.23005**	**1.3727**	**319.49**	**10.513**	**.09635**
Stddev	.00032	.00019	.00164	.0040	5.13	.141	.00255
%RSD	.12076	.18899	.71345	.29251	1.6047	1.3380	2.6476
#1	.26080	.10051	.23185	1.3736	314.07	10.379	.09535
#2	.26132	.10075	.22966	1.3761	320.14	10.501	.09445
#3	.26076	.10038	.22864	1.3683	324.27	10.660	.09925
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**56.809**	**11.753**	**.03189**	**1.4908**	**.31631**	**12.729**	**.10932**
Stddev	.884	.183	.00028	.0396	.00087	.007	.00180
%RSD	1.5567	1.5585	.89179	2.6550	.27543	.05728	1.6471
#1	55.892	11.560	.03221	1.5365	.31663	12.722	.11074
#2	56.878	11.775	.03174	1.4657	.31697	12.737	.10993
#3	57.657	11.924	.03171	1.4704	.31532	12.730	.10730
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206059410 Acquired: 6/29/2012 9:45:16 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03032**	F **723.68**	**.42948**	**3.5126**	**.28647**	**.00259**	**.36255**
Stddev	.00305	4.06	.00082	.0521	.00222	.00264	.00033
%RSD	10.053	.56094	.19164	1.4845	.77393	102.02	.09188
#1	.02835	725.16	.43002	3.4579	.28616	.00537	.36284
#2	.03383	726.80	.42988	3.5183	.28443	.00227	.36218
#3	.02877	719.09	.42853	3.5617	.28883	.00012	.36262
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	F **57.227**
Stddev	.147
%RSD	.25718
#1	57.296
#2	57.058
#3	57.326
Check ?	Chk Fail
High Limit	45.000
Low Limit	-.01000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12537.**	**24775.**
Stddev	18.	198.
%RSD	.14336	.79758
#1	12518.	24945.
#2	12554.	24822.
#3	12540.	24559.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206059410PS Acquired: 6/29/2012 9:48:53 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG402023-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22107**	**78.012**	**.51991**	**.94029**	**3.2221**	**.03128**	**583.40**
Stddev	.00234	.819	.00237	.01293	.0466	.00035	15.94
%RSD	1.0604	1.0497	.45517	1.3754	1.4464	1.1348	2.7319
#1	.22282	77.074	.52217	.95284	3.1700	.03165	565.00
#2	.22199	78.584	.52010	.94101	3.2367	.03123	592.87
#3	.21841	78.379	.51745	.92701	3.2598	.03095	592.33
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.26014**	**.16955**	**.42641**	**1.4546**	**292.94**	**31.610**	**.54139**
Stddev	.00061	.00222	.00356	.0060	4.44	.206	.00273
%RSD	.23301	1.3101	.83534	.41614	1.5167	.65014	.50503
#1	.26066	.17199	.43005	1.4611	287.97	31.377	.53830
#2	.26029	.16900	.42624	1.4536	294.33	31.766	.54349
#3	.25947	.16765	.42293	1.4492	296.52	31.686	.54239
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**55.822**	**10.910**	**.43678**	**24.104**	**.48561**	**11.959**	**.55427**
Stddev	.783	.175	.01325	.148	.00426	.014	.01572
%RSD	1.4031	1.6043	3.0338	.61404	.87657	.11919	2.8355
#1	54.935	10.715	.45062	23.975	.49052	11.955	.56945
#2	56.110	10.965	.43552	24.266	.48335	11.948	.55530
#3	56.420	11.052	.42421	24.072	.48296	11.975	.53806
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206059410PS Acquired: 6/29/2012 9:48:53 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG402023-01

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18216**	F **1155.9**	**.39903**	**3.6238**	**.69510**	**.18719**	**.77022**
Stddev	.00927	17.8	.00133	.0527	.00706	.00352	.00647
%RSD	5.0867	1.5356	.33328	1.4546	1.0159	1.8831	.84064
#1	.19190	1174.0	.39749	3.5649	.68695	.19113	.77613
#2	.18113	1155.2	.39978	3.6404	.69947	.18609	.77122
#3	.17346	1138.5	.39981	3.6663	.69887	.18434	.76330
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	F **53.453**
Stddev	.221
%RSD	.41359
#1	53.244
#2	53.429
#3	53.684
Check ?	Chk Fail
High Limit	45.000
Low Limit	-.01000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12573.**	**24990.**
Stddev	30.	204.
%RSD	.23829	.81528
#1	12538.	25218.
#2	12585.	24825.
#3	12594.	24926.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206059410DL Acquired: 6/29/2012 9:52:43 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG402023-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01003**	**17.438**	**.08262**	**.02381**	**.65469**	**.00233**	**142.75**
Stddev	.00060	.114	.00423	.00234	.01290	.00003	2.76
%RSD	5.9418	.65545	5.1176	9.8482	1.9698	1.4525	1.9332
#1	.01058	17.510	.07785	.02626	.66939	.00237	145.87
#2	.01012	17.498	.08410	.02358	.64939	.00232	141.72
#3	.00940	17.306	.08591	.02158	.64529	.00231	140.65
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05579**	**.02188**	**.05133**	**.29919**	**71.151**	**2.2498**	**.01985**
Stddev	.00005	.00016	.00077	.00068	1.438	.0884	.00184
%RSD	.09687	.73092	1.4941	.22780	2.0209	3.9308	9.2965
#1	.05578	.02173	.05058	.29854	72.778	2.3471	.02092
#2	.05575	.02187	.05128	.29913	70.626	2.2280	.01772
#3	.05585	.02205	.05212	.29990	70.049	2.1743	.02090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.953**	**2.6008**	**.00644**	**.32750**	**.06493**	**2.8165**	**.01538**
Stddev	.273	.0520	.00039	.05669	.00083	.0054	.00125
%RSD	2.1047	1.9996	6.0187	17.310	1.2785	.19141	8.1029
#1	13.264	2.6604	.00600	.39289	.06571	2.8172	.01402
#2	12.835	2.5769	.00674	.29753	.06406	2.8108	.01647
#3	12.759	2.5650	.00656	.29209	.06501	2.8215	.01564
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206059410DL Acquired: 6/29/2012 9:52:43 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG402023-02

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00201**	F **155.18**	**.09190**	**.75808**	**.06251**	**.00323**	**.07576**
Stddev	.00306	.53	.00062	.01560	.00249	.00227	.00043
%RSD	152.00	.34069	.67540	2.0584	3.9854	70.172	.57306
#1	.00314	155.15	.09246	.77583	.06534	.00580	.07535
#2	.00435	154.66	.09203	.75189	.06063	.00235	.07571
#3	-.00145	155.72	.09123	.74652	.06157	.00153	.07622
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**13.670**
Stddev	.034
%RSD	.24709
#1	13.642
#2	13.661
#3	13.708
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13376.**	**25115.**
Stddev	55.	109.
%RSD	.41089	.43475
#1	13425.	25074.
#2	13386.	25032.
#3	13316.	25239.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206059410DL Acquired: 6/29/2012 9:56:01 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG402023-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00240**	**3.2969**	**.01600**	**.00039**	**.12491**	**.00047**	**27.084**	**.01100**
Stddev	.00070	.0104	.00086	.00051	.00025	.00005	.039	.00010
%RSD	29.253	.31465	5.3633	128.80	.19735	10.699	.14455	.89172
#1	.00301	3.2969	.01699	-.00013	.12464	.00048	27.043	.01103
#2	.00255	3.3073	.01554	.00089	.12513	.00042	27.121	.01090
#3	.00163	3.2865	.01548	.00042	.12498	.00052	27.087	.01109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00443**	**.01397**	**.05976**	**13.643**	**.40472**	**.00113**	**2.4764**	**.49739**
Stddev	.00025	.00070	.00042	.021	.03695	.00215	.0216	.00101
%RSD	5.5672	5.0229	.69883	.15392	9.1289	190.63	.87185	.20288
#1	.00427	.01371	.05946	13.620	.40154	-.00122	2.4702	.49659
#2	.00471	.01476	.05959	13.646	.36947	.00162	2.5004	.49852
#3	.00431	.01343	.06024	13.662	.44316	.00299	2.4585	.49704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00101**	**.04267**	**.00845**	**.55501**	**.00237**	**-.00336**	**28.623**	**.01556**
Stddev	.00005	.01151	.00078	.00409	.00165	.00227	.245	.00042
%RSD	5.3111	26.972	9.2728	.73750	69.657	67.493	.85684	2.7116
#1	.00100	.02944	.00935	.55031	.00404	-.00147	28.825	.01573
#2	.00096	.05037	.00803	.55779	.00233	-.00274	28.350	.01508
#3	.00106	.04821	.00796	.55694	.00074	-.00588	28.694	.01587
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206059410DL Acquired: 6/29/2012 9:56:01 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG402023-02

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14315**	**.01190**	**.00496**	**.01460**	**2.8028**
Stddev	.00021	.00039	.00100	.00012	.0145
%RSD	.14811	3.3050	20.142	.79202	.51765
#1	.14295	.01223	.00593	.01450	2.7894
#2	.14313	.01146	.00393	.01456	2.8010
#3	.14337	.01200	.00501	.01473	2.8182
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13447.**	**25004.**
Stddev	63.	62.
%RSD	.46974	.24805
#1	13499.	25050.
#2	13466.	24933.
#3	13377.	25028.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206059411 Acquired: 6/29/2012 9:59:24 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07350**	**115.84**	**.85202**	**.13440**	**3.2407**	**.01859**	**403.70**
Stddev	.00029	2.33	.00102	.00799	.1021	.00002	18.47
%RSD	.39034	2.0152	.12000	5.9464	3.1489	.08974	4.5745
#1	.07374	113.22	.85317	.12517	3.1240	.01859	383.99
#2	.07358	116.61	.85166	.13875	3.2845	.01861	406.50
#3	.07318	117.69	.85123	.13927	3.3135	.01857	420.60
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0167**	**.08606**	**.12063**	**3.3894**	**402.28**	**8.2497**	**.10664**
Stddev	.0011	.00045	.00297	.0013	12.79	.2696	.00096
%RSD	.10693	.52545	2.4582	.03773	3.1804	3.2683	.89663
#1	1.0157	.08566	.12382	3.3904	387.71	7.9420	.10582
#2	1.0179	.08655	.12013	3.3898	407.47	8.3625	.10769
#3	1.0167	.08596	.11795	3.3880	411.67	8.4447	.10641
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.695**	**9.9194**	**.04930**	**2.4780**	**.24013**	**16.665**	**.34701**
Stddev	.819	.3200	.00088	.0655	.00185	.007	.00189
%RSD	3.1884	3.2261	1.7818	2.6454	.77038	.04467	.54542
#1	24.767	9.5545	.04904	2.4029	.24132	16.665	.34870
#2	25.999	10.052	.05028	2.5075	.24108	16.672	.34736
#3	26.318	10.152	.04858	2.5236	.23800	16.657	.34496
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206059411 Acquired: 6/29/2012 9:59:24 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00578**	F **1540.8**	**.60201**	**2.3278**	**.45493**	**.01752**	**.32542**
Stddev	.00677	2.6	.00061	.0720	.01566	.00151	.00124
%RSD	117.25	.16704	.10170	3.0940	3.4429	8.6451	.37968
#1	.01172	1541.6	.60234	2.2454	.43718	.01923	.32407
#2	-.00159	1542.9	.60239	2.3591	.46081	.01696	.32650
#3	.00720	1537.9	.60130	2.3788	.46680	.01636	.32569
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	F **167.37**
Stddev	.23
%RSD	.13891
#1	167.64
#2	167.21
#3	167.26
Check ?	Chk Fail
High Limit	45.000
Low Limit	-.01000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12569.**	**24983.**
Stddev	25.	475.
%RSD	.19920	1.9015
#1	12545.	25520.
#2	12567.	24809.
#3	12595.	24619.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080411 Acquired: 6/29/2012 10:02:54 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401918-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01141**	**57.498**	**.11205**	**.07216**	**1.3686**	**.00455**	F **3799.1**
Stddev	.00012	.301	.00316	.00183	.0227	.00006	127.5
%RSD	1.0408	.52352	2.8215	2.5398	1.6584	1.4142	3.3567
#1	.01129	57.157	.10847	.07004	1.3435	.00454	3652.0
#2	.01152	57.611	.11326	.07326	1.3748	.00462	3877.3
#3	.01142	57.726	.11444	.07317	1.3876	.00450	3868.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03068**	**.07505**	**.11081**	**.39248**	**160.43**	**15.366**	**.15065**
Stddev	.00048	.00084	.00112	.00038	2.54	.319	.00401
%RSD	1.5680	1.1246	1.0104	.09722	1.5829	2.0787	2.6624
#1	.03027	.07419	.11166	.39210	157.58	15.020	.14638
#2	.03056	.07588	.10954	.39248	161.27	15.428	.15125
#3	.03121	.07508	.11124	.39286	162.44	15.650	.15433
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**138.61**	**7.4270**	**.01572**	**2.0893**	**.29819**	**1.8355**	**.01119**
Stddev	2.85	.1363	.00034	.0246	.00153	.0038	.00381
%RSD	2.0544	1.8345	2.1387	1.1770	.51210	.20748	34.097
#1	135.39	7.2754	.01536	2.0615	.29707	1.8317	.01343
#2	139.66	7.4663	.01602	2.0981	.29757	1.8393	.00678
#3	140.79	7.5393	.01579	2.1082	.29993	1.8354	.01336
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080411 Acquired: 6/29/2012 10:02:54 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401918-01

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02539**	F **723.80**	**.07432**	F **22.102**	**.49339**	**.00187**	**.19873**
Stddev	.00756	1.23	.00130	.707	.01008	.00578	.00070
%RSD	29.794	.17061	1.7488	3.1979	2.0421	309.23	.35118
#1	.01848	722.71	.07469	21.305	.48239	.00331	.19950
#2	.02422	723.55	.07288	22.347	.49562	-.00449	.19815
#3	.03347	725.14	.07540	22.653	.50217	.00679	.19853
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000		4.5000			
Low Limit		-1.0000		-.01000			

Elem	Zn2062
Units	ppm
Avg	**4.7086**
Stddev	.0489
%RSD	1.0377
#1	4.6781
#2	4.6827
#3	4.7649
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**11248.**	**23709.**
Stddev	7.	216.
%RSD	.06402	.91252
#1	11254.	23955.
#2	11251.	23622.
#3	11240.	23549.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080412S Acquired: 6/29/2012 10:06:29 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401918-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23557**	**52.655**	**.31231**	**.99142**	**1.5728**	**.02720**	F **4441.6**
Stddev	.00101	.359	.00603	.00455	.0161	.00006	87.5
%RSD	.43049	.68128	1.9310	.45870	1.0254	.23732	1.9696
#1	.23567	52.261	.31843	.98631	1.5550	.02714	4347.9
#2	.23654	52.741	.30637	.99294	1.5772	.02719	4455.8
#3	.23452	52.963	.31212	.99501	1.5863	.02727	4521.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05007**	**.15325**	**.30835**	**.56712**	**143.94**	**37.226**	**.68866**
Stddev	.00009	.00033	.00075	.00083	1.33	.516	.00898
%RSD	.18000	.21784	.24333	.14671	.92382	1.3864	1.3038
#1	.05004	.15338	.30852	.56684	142.45	36.645	.68134
#2	.05000	.15349	.30900	.56646	144.36	37.403	.68597
#3	.05017	.15287	.30753	.56805	145.01	37.631	.69868
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**138.09**	**8.1863**	**.49190**	**28.067**	**.48047**	**1.7645**	**.57650**
Stddev	1.31	.0773	.00114	.398	.00024	.0045	.00526
%RSD	.94529	.94431	.23273	1.4167	.04970	.25271	.91242
#1	136.62	8.0998	.49135	27.625	.48071	1.7674	.57284
#2	138.52	8.2107	.49322	28.180	.48047	1.7668	.58253
#3	139.11	8.2485	.49113	28.396	.48024	1.7594	.57413
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080412S Acquired: 6/29/2012 10:06:29 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401918-04

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21966**	F **2116.4**	**.49148**	F **27.124**	**1.0113**	**.20425**	**.65805**
Stddev	.00225	8.9	.00076	.464	.0138	.00149	.00090
%RSD	1.0245	.41934	.15546	1.7111	1.3633	.72823	.13662
#1	.21772	2122.9	.49127	26.628	.99738	.20366	.65702
#2	.22213	2120.0	.49232	27.199	1.0115	.20314	.65858
#3	.21915	2106.3	.49084	27.547	1.0250	.20594	.65857
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000		4.5000			
Low Limit		-1.0000		-.01000			

Elem	Zn2062
Units	ppm
Avg	**8.1777**
Stddev	.0032
%RSD	.03965
#1	8.1766
#2	8.1814
#3	8.1752
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**10978.**	**23156.**
Stddev	12.	100.
%RSD	.11236	.43165
#1	10965.	23258.
#2	10989.	23151.
#3	10979.	23058.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080413SD Acquired: 6/29/2012 10:10:00 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401918-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23593**	**45.249**	**.30276**	**.99294**	**1.5914**	**.02662**	F **4834.9**
Stddev	.00076	.036	.00013	.00143	.0159	.00009	46.1
%RSD	.32227	.08042	.04418	.14416	.99818	.34340	.95257
#1	.23625	45.289	.30266	.99386	1.5732	.02671	4784.6
#2	.23648	45.218	.30271	.99129	1.5988	.02652	4875.1
#3	.23506	45.239	.30291	.99367	1.6022	.02662	4845.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04844**	**.15161**	**.29548**	**.51462**	**135.48**	**36.114**	**.71612**
Stddev	.00016	.00065	.00126	.00109	1.24	.398	.01031
%RSD	.33663	.43131	.42805	.21230	.91198	1.1016	1.4399
#1	.04854	.15088	.29694	.51456	134.06	35.663	.70422
#2	.04853	.15179	.29482	.51356	136.00	36.262	.72203
#3	.04826	.15215	.29469	.51574	136.36	36.417	.72213
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**146.39**	**8.6090**	**.48954**	**28.790**	**.44618**	**1.5463**	**.58685**
Stddev	1.25	.0742	.00021	.324	.00172	.0018	.00480
%RSD	.85456	.86146	.04310	1.1246	.38618	.11917	.81844
#1	144.95	8.5235	.48972	28.421	.44528	1.5442	.58408
#2	147.15	8.6480	.48931	28.922	.44510	1.5477	.59240
#3	147.07	8.6556	.48960	29.027	.44817	1.5471	.58409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080413SD Acquired: 6/29/2012 10:10:00 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401918-05

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21607**	F **2058.3**	**.47196**	F **32.049**	**.94069**	**.20463**	**.64173**
Stddev	.00188	1.8	.00146	.614	.01047	.00171	.00159
%RSD	.86846	.08541	.30991	1.9166	1.1135	.83511	.24827
#1	.21614	2056.3	.47343	31.343	.92860	.20267	.64328
#2	.21792	2059.7	.47195	32.344	.94667	.20540	.64009
#3	.21417	2058.8	.47050	32.461	.94681	.20582	.64181
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000		4.5000			
Low Limit		-1.0000		-.01000			

Elem	Zn2062
Units	ppm
Avg	**3.7770**
Stddev	.0022
%RSD	.05798
#1	3.7785
#2	3.7745
#3	3.7781
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**10857.**	**23039.**
Stddev	28.	60.
%RSD	.25695	.26053
#1	10829.	23034.
#2	10856.	22981.
#3	10885.	23101.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 10:13:30 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40349**	**9.9797**	**.39890**	**.49758**	**1.0399**	**.04974**	F **110.08**
Stddev	.00025	.1928	.00085	.00187	.0260	.00015	60.25
%RSD	.06136	1.9314	.21331	.37603	2.4985	.29489	54.736
#1	.40327	10.169	.39952	.49822	1.0589	.04985	158.24
#2	.40346	9.9861	.39925	.49548	1.0506	.04979	129.48
#3	.40376	9.7838	.39793	.49906	1.0103	.04957	42.514
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							10.000
Range							10.000%

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05000**	**.20116**	**.50616**	**.50317**	F **6.1444**	**52.035**	**1.0426**
Stddev	.00011	.00028	.00104	.00092	1.2549	1.098	.0185
%RSD	.22525	.14137	.20567	.18250	20.424	2.1095	1.7735
#1	.05007	.20088	.50521	.50269	7.0892	52.835	1.0571
#2	.04987	.20116	.50598	.50259	6.6236	52.487	1.0490
#3	.05007	.20144	.50727	.50423	4.7205	50.784	1.0218
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value					4.0000		
Range					10.000%		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **12.062**	F **.62929**	**.98897**	**52.273**	**.49884**	**.49910**	**1.1942**
Stddev	1.411	.07994	.00092	1.097	.00171	.00080	.0024
%RSD	11.699	12.704	.09341	2.0985	.34231	.16043	.20020
#1	13.183	.69198	.99003	53.101	.50077	.49912	1.1964
#2	12.526	.65662	.98843	52.690	.49751	.49828	1.1946
#3	10.478	.53926	.98844	51.029	.49824	.49988	1.1917
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000	.50000					
Range	10.000%	10.000%					

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 10:13:30 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40040**	F **13.411**	**.99504**	F **1.4579**	**1.0296**	**.49719**	**.99427**
Stddev	.00124	.601	.00107	.2834	.0224	.00546	.00093
%RSD	.30889	4.4842	.10780	19.440	2.1788	1.0987	.09336
#1	.40176	12.994	.99561	1.6815	1.0469	.49598	.99509
#2	.40013	13.139	.99572	1.5529	1.0376	.49243	.99327
#3	.39933	14.100	.99381	1.1391	1.0042	.50315	.99446
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		5.0000		1.0000			
Range		10.000%		10.000%			

Elem	Zn2062
Units	ppm
Avg	**.99933**
Stddev	.00038
%RSD	.03806
#1	.99977
#2	.99912
#3	.99910
Check ?	Chk Pass
Value	
Range	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12983.**	**23618.**
Stddev	11.	381.
%RSD	.08649	1.6141
#1	12996.	23278.
#2	12975.	23546.
#3	12979.	24031.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCB Acquired: 6/29/2012 10:16:44 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**-.00102**	**-.00063**	**-.00201**	**.00030**	**-.00003**	**.01767**
Stddev	.00046	.00221	.00247	.00130	.00014	.00006	.00776
%RSD	121.52	216.95	394.94	64.675	46.757	225.25	43.938
#1	.00005	-.00278	.00012	-.00095	.00041	.00002	.01544
#2	-.00086	-.00173	.00139	-.00347	.00014	-.00001	.02631
#3	-.00032	.00146	-.00338	-.00162	.00035	-.00009	.01127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**-.00004**	F **.00317**	**-.00013**	**-.00341**	**.04186**	**-.00148**
Stddev	.00006	.00004	.00047	.00060	.00224	.01658	.00157
%RSD	186.73	104.26	14.947	444.10	65.637	39.616	106.20
#1	.00003	-.00008	.00263	-.00012	-.00116	.06047	-.00299
#2	-.00007	.00000	.00333	.00046	-.00563	.03644	-.00160
#3	-.00006	-.00004	.00354	-.00074	-.00343	.02866	.00015
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.00300				
Low Limit			-.00300				

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01311**	**-.00485**	**.00032**	**.00578**	**-.00517**	**-.00241**	**.00029**
Stddev	.02145	.00039	.00038	.00250	.00094	.00068	.00205
%RSD	163.58	7.9377	119.81	43.242	18.207	28.247	713.60
#1	.01764	-.00449	-.00009	.00828	-.00414	-.00210	.00120
#2	.03194	-.00481	.00038	.00328	-.00540	-.00194	-.00206
#3	-.01024	-.00526	.00067	.00578	-.00599	-.00319	.00173
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: CCB Acquired: 6/29/2012 10:16:44 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00484**	F **1.4215**	**.00118**	**.00005**	**.00118**	**.00089**	**.00021**
Stddev	.00409	.6292	.00054	.00004	.00120	.00209	.00033
%RSD	84.600	44.268	45.374	83.533	101.93	236.11	159.68
#1	-.00129	.70411	.00163	.00011	.00072	.00205	.00028
#2	-.00391	1.6801	.00059	.00003	.00254	.00214	.00050
#3	-.00932	1.8802	.00132	.00002	.00028	-.00153	-.00015
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1.0000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.00010**
Stddev	.00006
%RSD	55.619
#1	.00004
#2	.00013
#3	.00014
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12723.**	**23819.**
Stddev	256.	84.
%RSD	2.0095	.35235
#1	12970.	23914.
#2	12739.	23757.
#3	12459.	23785.

Approved: July 02, 2012
Pierre Morris

Sample Name: PBS 51 Acquired: 6/29/2012 10:20:13 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401887-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**.00500**	**-.00274**	**-.00240**	**.00063**	**.00001**	**.04393**
Stddev	.00061	.00163	.00153	.00037	.00033	.00002	.00648
%RSD	141.67	32.626	55.858	15.279	51.769	341.79	14.749
#1	.00083	.00684	-.00274	-.00224	.00044	.00000	.04249
#2	-.00027	.00447	-.00121	-.00282	.00100	-.00001	.03829
#3	.00073	.00371	-.00426	-.00214	.00044	.00003	.05100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**-.00060**	**.00022**	**-.00055**	**-.00606**	**.00160**	**-.00217**
Stddev	.00006	.00028	.00113	.00063	.00500	.04412	.00125
%RSD	19.007	46.959	510.04	115.53	82.478	2751.7	57.451
#1	.00028	-.00041	-.00021	-.00076	-.01136	-.02026	-.00289
#2	.00030	-.00046	-.00063	-.00105	-.00143	-.02732	-.00073
#3	.00039	-.00092	.00150	.00016	-.00540	.05239	-.00288
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00657**	F **-.00491**	**.00043**	**.02007**	**-.00225**	**-.00123**	**.00232**
Stddev	.02001	.00058	.00049	.01905	.00381	.00065	.00132
%RSD	304.49	11.792	113.28	94.936	169.62	53.280	56.889
#1	-.01258	-.00424	.00003	-.00097	-.00559	-.00051	.00099
#2	.00495	-.00525	.00029	.02503	-.00305	-.00179	.00235
#3	.02735	-.00524	.00098	.03616	.00190	-.00139	.00363
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		180.00					
Low Limit		-.00300					

Approved: July 02, 2012
Pierre Morris

Sample Name: PBS 51 Acquired: 6/29/2012 10:20:13 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401887-02

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00109**	**3.3672**	**-.00034**	**.00011**	**.00095**	**-.00257**	**.00022**
Stddev	.00410	.1651	.00043	.00003	.00126	.00103	.00029
%RSD	374.90	4.9023	127.94	28.713	132.62	40.242	128.51
#1	.00361	3.1789	-.00033	.00011	.00007	-.00168	.00031
#2	-.00391	3.4870	-.00077	.00007	.00239	-.00232	-.00010
#3	-.00298	3.4357	.00009	.00013	.00038	-.00370	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	**.00211**
Stddev	.00010
%RSD	4.7953
#1	.00222
#2	.00205
#3	.00205
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12261.**	**24156.**
Stddev	114.	665.
%RSD	.92691	2.7518
#1	12384.	24915.
#2	12239.	23878.
#3	12159.	23676.

Approved: July 02, 2012
Pierre Morris

Sample Name: LCSS 51 Acquired: 6/29/2012 10:23:42 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401887-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21876**	**4.7207**	**.19707**	**1.0061**	**.50556**	**.02614**	**5.0298**
Stddev	.00211	.0631	.00250	.0161	.01301	.00028	.1206
%RSD	.96238	1.3363	1.2699	1.5979	2.5740	1.0548	2.3969
#1	.21657	4.6481	.19694	.98805	.49072	.02589	4.8936
#2	.21894	4.7523	.19964	1.0112	.51097	.02609	5.0733
#3	.22077	4.7617	.19464	1.0189	.51501	.02644	5.1226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02512**	**.10291**	**.26939**	**.25278**	**1.9322**	**25.039**	**.51749**
Stddev	.00006	.00019	.00345	.00075	.0552	.640	.01318
%RSD	.22679	.18839	1.2793	.29606	2.8550	2.5565	2.5462
#1	.02518	.10314	.26584	.25211	1.8698	24.319	.50245
#2	.02513	.10278	.26960	.25359	1.9521	25.256	.52303
#3	.02506	.10282	.27272	.25264	1.9745	25.543	.52700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.8606**	**.24267**	**.53476**	**25.858**	**.25207**	**.25582**	**.59263**
Stddev	.1367	.00620	.00165	.647	.00038	.00145	.00234
%RSD	2.8125	2.5536	.30870	2.5030	.15140	.56785	.39524
#1	4.7146	.23560	.53532	25.121	.25168	.25656	.59501
#2	4.8816	.24526	.53606	26.121	.25244	.25415	.59254
#3	4.9856	.24716	.53290	26.333	.25210	.25676	.59033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: LCSS 51 Acquired: 6/29/2012 10:23:42 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401887-03

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19188**	F **639.14**	**.46434**	**.49501**	**.49926**	**.25109**	**.53683**
Stddev	.00789	1.55	.00184	.01204	.01184	.00302	.00700
%RSD	4.1123	.24273	.39541	2.4328	2.3723	1.2019	1.3044
#1	.19001	637.72	.46332	.48128	.48586	.25450	.52954
#2	.20054	638.91	.46646	.49993	.50358	.25000	.53744
#3	.18509	640.80	.46323	.50381	.50833	.24877	.54351
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.50674**
Stddev	.00086
%RSD	.16976
#1	.50618
#2	.50773
#3	.50630
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12000.**	**23321.**
Stddev	124.	265.
%RSD	1.0362	1.1366
#1	12125.	23625.
#2	11999.	23194.
#3	11877.	23143.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206072408 Acquired: 6/29/2012 10:26:57 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00881**	**62.983**	**.09987**	**.06109**	**2.7578**	**.00910**	**94.695**
Stddev	.00075	1.043	.00237	.00360	.0713	.00002	2.469
%RSD	8.5168	1.6565	2.3719	5.8918	2.5852	.20587	2.6071
#1	.00898	61.781	.09771	.05698	2.6775	.00908	91.913
#2	.00946	63.510	.10240	.06366	2.7822	.00912	95.545
#3	.00799	63.658	.09951	.06262	2.8137	.00910	96.625
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01076**	**.14093**	**.16194**	**.40629**	**279.56**	**7.8795**	**.08200**
Stddev	.00000	.00039	.00038	.00231	7.37	.1456	.00180
%RSD	.02549	.27459	.23489	.56735	2.6347	1.8482	2.1902
#1	.01076	.14086	.16173	.40844	271.24	7.7211	.07993
#2	.01076	.14058	.16238	.40658	282.16	7.9098	.08305
#3	.01077	.14135	.16172	.40386	285.27	8.0076	.08303
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**29.484**	**3.5270**	**.01336**	**4.8428**	**.19586**	**2.1213**	**.00403**
Stddev	.712	.0945	.00014	.0489	.00015	.0029	.00079
%RSD	2.4162	2.6792	1.0696	1.0099	.07742	.13836	19.746
#1	28.674	3.4207	.01337	4.7864	.19597	2.1182	.00429
#2	29.763	3.5590	.01349	4.8682	.19569	2.1217	.00313
#3	30.015	3.6014	.01321	4.8738	.19591	2.1240	.00465
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206072408 Acquired: 6/29/2012 10:26:57 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00160**	F **904.33**	**.02405**	**.24903**	**.74858**	**.00389**	**.24916**
Stddev	.00466	2.53	.00086	.00536	.02067	.00055	.00111
%RSD	292.19	.27960	3.5632	2.1526	2.7613	14.136	.44655
#1	.00378	906.54	.02312	.24298	.72566	.00419	.24794
#2	-.00457	904.88	.02422	.25089	.75425	.00422	.25011
#3	-.00400	901.57	.02481	.25321	.76582	.00325	.24943
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**8.4488**
Stddev	.0087
%RSD	.10329
#1	8.4389
#2	8.4518
#3	8.4556
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12897.**	**24744.**
Stddev	24.	347.
%RSD	.18831	1.4024
#1	12923.	25139.
#2	12894.	24606.
#3	12874.	24488.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206072408PS Acquired: 6/29/2012 10:30:14 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG402026-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20598**	**62.085**	**.26968**	**.96143**	**2.9557**	**.03157**	**90.335**
Stddev	.00106	1.238	.00271	.00470	.0782	.00011	2.394
%RSD	.51389	1.9932	1.0032	.48879	2.6446	.35305	2.6501
#1	.20538	60.660	.27279	.95603	2.8677	.03146	87.635
#2	.20720	62.709	.26793	.96365	2.9824	.03155	91.174
#3	.20535	62.887	.26831	.96461	3.0170	.03169	92.196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03244**	**.22095**	**.38691**	**.59436**	**254.37**	**30.137**	**.54839**
Stddev	.00015	.00102	.00054	.00330	6.84	.785	.01392
%RSD	.46321	.46367	.13850	.55450	2.6900	2.6041	2.5391
#1	.03254	.22213	.38645	.59814	246.65	29.246	.53241
#2	.03252	.22043	.38677	.59289	256.77	30.442	.55480
#3	.03227	.22028	.38750	.59206	259.68	30.724	.55795
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**30.945**	**3.4100**	**.49394**	**28.265**	**.40700**	**2.1493**	**.53886**
Stddev	.773	.0884	.00231	.719	.00146	.0031	.00315
%RSD	2.4995	2.5911	.46748	2.5437	.35804	.14522	.58368
#1	30.063	3.3102	.49607	27.449	.40867	2.1528	.54050
#2	31.264	3.4414	.49427	28.539	.40595	2.1467	.54084
#3	31.508	3.4783	.49148	28.806	.40639	2.1484	.53523
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206072408PS Acquired: 6/29/2012 10:30:14 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG402026-01

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17775**	F **1393.9**	**.04993**	**.67835**	**1.1369**	**.22540**	**.70492**
Stddev	.00144	5.8	.00162	.01749	.0285	.00257	.00024
%RSD	.81215	.41452	3.2540	2.5787	2.5029	1.1383	.03423
#1	.17722	1400.1	.05172	.65860	1.1049	.22668	.70516
#2	.17938	1392.9	.04855	.68456	1.1466	.22245	.70492
#3	.17664	1388.7	.04953	.69189	1.1593	.22708	.70468
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**8.1309**
Stddev	.0059
%RSD	.07300
#1	8.1378
#2	8.1277
#3	8.1273
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12876.**	**24681.**
Stddev	6.	448.
%RSD	.04974	1.8138
#1	12878.	25197.
#2	12881.	24428.
#3	12869.	24416.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206072408DL Acquired: 6/29/2012 10:33:29 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG402026-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00192**	**12.991**	**.02193**	**.01217**	**.57287**	**.00190**	**19.902**
Stddev	.00036	.010	.00221	.00142	.00885	.00001	.302
%RSD	18.951	.07869	10.064	11.693	1.5445	.33948	1.5193
#1	.00174	12.980	.02066	.01372	.58308	.00190	20.250
#2	.00169	12.999	.02448	.01189	.56817	.00191	19.755
#3	.00234	12.995	.02066	.01092	.56737	.00190	19.702
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00202**	**.02939**	**.03198**	**.08530**	**59.562**	**1.6472**	**.01707**
Stddev	.00017	.00021	.00053	.00098	.936	.0661	.00013
%RSD	8.3200	.69906	1.6650	1.1545	1.5713	4.0144	.73959
#1	.00205	.02951	.03146	.08427	60.632	1.7212	.01699
#2	.00217	.02951	.03252	.08537	59.161	1.5937	.01700
#3	.00184	.02916	.03197	.08624	58.894	1.6268	.01721
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.3805**	**.75077**	**.00233**	**1.0145**	**.03467**	**.44255**	**.00070**
Stddev	.0740	.01180	.00027	.0435	.00081	.00251	.00204
%RSD	1.1594	1.5711	11.380	4.2876	2.3406	.56702	291.29
#1	6.4660	.76439	.00209	1.0637	.03496	.44143	-.00158
#2	6.3386	.74426	.00261	.98144	.03375	.44080	.00237
#3	6.3370	.74368	.00229	.99819	.03529	.44543	.00131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206072408DL Acquired: 6/29/2012 10:33:29 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG402026-02

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00441**	F **190.31**	**.00363**	**.05234**	**.15685**	**.00250**	**.05012**
Stddev	.00065	.70	.00090	.00176	.00411	.00039	.00044
%RSD	14.724	.36805	24.766	3.3674	2.6177	15.775	.88432
#1	-.00482	189.56	.00262	.05435	.16118	.00286	.04995
#2	-.00475	190.43	.00392	.05161	.15302	.00208	.04978
#3	-.00366	190.94	.00435	.05105	.15634	.00256	.05062
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**1.8187**
Stddev	.0022
%RSD	.12370
#1	1.8163
#2	1.8192
#3	1.8207
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13529.**	**24968.**
Stddev	37.	28.
%RSD	.27030	.11100
#1	13571.	24942.
#2	13508.	24965.
#3	13507.	24997.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206072408DL Acquired: 6/29/2012 10:36:48 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG402026-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00086**	**2.6149**	**.00531**	**-.00124**	**.11550**	**.00040**	**3.9969**	**.00034**
Stddev	.00032	.0144	.00109	.00125	.00035	.00003	.0189	.00015
%RSD	36.644	.55202	20.581	100.98	.30182	7.1601	.47253	44.071
#1	.00073	2.6217	.00649	-.00038	.11574	.00037	4.0156	.00028
#2	.00122	2.5983	.00433	-.00267	.11510	.00043	3.9972	.00023
#3	.00063	2.6246	.00512	-.00066	.11566	.00042	3.9778	.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00607**	**.00507**	**.01789**	**12.008**	**.30054**	**.00093**	**1.2799**	**.14712**
Stddev	.00027	.00030	.00073	.006	.02433	.00316	.0204	.00076
%RSD	4.5146	5.9600	4.0952	.04713	8.0956	338.56	1.5920	.51428
#1	.00593	.00483	.01768	12.009	.30428	.00300	1.2585	.14792
#2	.00638	.00497	.01728	12.001	.27455	-.00270	1.2990	.14642
#3	.00589	.00541	.01870	12.012	.32278	.00251	1.2822	.14703
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**.19639**	**.00130**	**.08837**	**-.00023**	**-.00651**	**37.652**	**-.00070**
Stddev	.00012	.02191	.00029	.00265	.00116	.00085	.595	.00066
%RSD	24.351	11.154	22.511	3.0038	502.43	12.993	1.5805	93.579
#1	.00061	.21244	.00131	.08558	.00098	-.00555	36.965	-.00032
#2	.00044	.17144	.00159	.09086	-.00135	-.00713	37.986	-.00033
#3	.00038	.20530	.00100	.08868	-.00033	-.00686	38.005	-.00146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206072408DL Acquired: 6/29/2012 10:36:48 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG402026-02

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01033**	**.03239**	**.00372**	**.01033**	**.38260**
Stddev	.00008	.00033	.00137	.00050	.00174
%RSD	.79823	1.0237	36.799	4.8758	.45560
#1	.01040	.03267	.00270	.00988	.38098
#2	.01024	.03248	.00318	.01087	.38238
#3	.01035	.03203	.00528	.01022	.38444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13482.**	**24785.**
Stddev	82.	105.
%RSD	.60666	.42289
#1	13529.	24740.
#2	13529.	24905.
#3	13387.	24711.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206081711 Acquired: 6/29/2012 10:40:13 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401887-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00449**	**150.16**	**.07574**	**.09345**	**.96331**	**.01766**	**62.599**
Stddev	.00052	1.73	.00209	.00266	.01137	.00001	.803
%RSD	11.589	1.1544	2.7533	2.8495	1.1800	.03215	1.2824
#1	.00395	148.65	.07813	.09040	.95114	.01766	61.739
#2	.00455	149.77	.07480	.09470	.96513	.01765	62.729
#3	.00499	152.06	.07429	.09526	.97365	.01765	63.329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**.07327**	**.09892**	**.06576**	**281.51**	**46.170**	**.21595**
Stddev	.00002	.00028	.00150	.00151	3.58	.543	.00374
%RSD	4.9198	.38872	1.5192	2.3036	1.2721	1.1769	1.7306
#1	-.00052	.07350	.10043	.06668	277.76	45.607	.21165
#2	-.00047	.07295	.09889	.06659	281.86	46.211	.21779
#3	-.00050	.07335	.09743	.06401	284.90	46.691	.21841
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.342**	**5.7463**	**.01003**	**.76151**	**.08575**	**.24695**	**-.00976**
Stddev	.663	.0751	.00049	.00891	.00122	.00157	.00156
%RSD	1.3434	1.3070	4.9326	1.1706	1.4280	.63557	16.024
#1	48.620	5.6671	.01018	.75787	.08696	.24590	-.01079
#2	49.482	5.7553	.00948	.75499	.08451	.24875	-.00796
#3	49.923	5.8165	.01043	.77166	.08579	.24619	-.01054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206081711 Acquired: 6/29/2012 10:40:13 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401887-01

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.01363**	F **488.53**	**.03203**	**.38006**	**3.4506**	**-.02543**	**.34160**
Stddev	.00337	2.51	.00055	.00497	.0413	.00258	.00088
%RSD	24.722	.51452	1.7026	1.3079	1.1984	10.151	.25688
#1	-.01131	491.34	.03235	.37481	3.4047	-.02245	.34144
#2	-.01749	486.49	.03233	.38066	3.4622	-.02703	.34254
#3	-.01208	487.75	.03140	.38470	3.4849	-.02681	.34081
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	90.000	72.000					
Low Limit	-.01000	-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.79190**
Stddev	.00146
%RSD	.18435
#1	.79345
#2	.79171
#3	.79055
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**15644.**	**29998.**
Stddev	75.	156.
%RSD	.47749	.52054
#1	15576.	30152.
#2	15633.	30003.
#3	15724.	29840.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206081730 Acquired: 6/29/2012 10:43:40 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401887-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17357**	**138.32**	**.21204**	**.83628**	**1.3114**	**.03575**	**60.729**
Stddev	.00119	1.50	.00191	.00672	.0203	.00022	.945
%RSD	.68399	1.0856	.90148	.80343	1.5444	.60479	1.5559
#1	.17332	137.01	.21233	.83012	1.2914	.03552	59.788
#2	.17253	138.00	.21379	.83529	1.3109	.03578	60.722
#3	.17486	139.96	.21000	.84344	1.3319	.03595	61.678
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01902**	**.14516**	**.28823**	**.24956**	**271.18**	**61.939**	**.58722**
Stddev	.00006	.00067	.00115	.00207	4.37	1.039	.00869
%RSD	.29837	.45862	.39800	.83039	1.6125	1.6782	1.4800
#1	.01895	.14564	.28721	.25161	266.87	60.993	.57890
#2	.01904	.14543	.28801	.24961	271.04	61.773	.58651
#3	.01906	.14440	.28948	.24746	275.61	63.052	.59624
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**49.184**	**5.7389**	**.41421**	**20.593**	**.26956**	**.42323**	**.43658**
Stddev	.844	.0930	.00069	.326	.00065	.00306	.00228
%RSD	1.7161	1.6214	.16655	1.5807	.24263	.72190	.52222
#1	48.370	5.6479	.41401	20.261	.26885	.42614	.43572
#2	49.126	5.7348	.41498	20.606	.26968	.42005	.43916
#3	50.055	5.8339	.41364	20.911	.27014	.42350	.43485
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206081730 Acquired: 6/29/2012 10:43:40 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401887-04

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13813**	F **1457.3**	**.42813**	**.72692**	**4.0916**	**.17334**	**.72556**
Stddev	.00190	3.8	.00109	.01148	.0627	.00126	.00346
%RSD	1.3747	.25832	.25566	1.5796	1.5316	.72475	.47630
#1	.14009	1458.6	.42761	.71572	4.0300	.17199	.72188
#2	.13630	1460.2	.42939	.72639	4.0893	.17448	.72605
#3	.13799	1453.0	.42740	.73867	4.1553	.17355	.72874
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**1.1247**
Stddev	.0025
%RSD	.22524
#1	1.1259
#2	1.1265
#3	1.1218
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**15364.**	**29521.**
Stddev	45.	183.
%RSD	.29072	.62018
#1	15408.	29707.
#2	15366.	29516.
#3	15318.	29340.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206081731 Acquired: 6/29/2012 10:47:01 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401887-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17022**	**127.09**	**.21044**	**.81058**	**1.4855**	**.03557**	**64.757**
Stddev	.00108	.87	.00257	.00235	.0292	.00012	1.301
%RSD	.63267	.68499	1.2225	.29049	1.9666	.33710	2.0091
#1	.17048	126.30	.20978	.81171	1.4553	.03564	63.420
#2	.16904	126.95	.20827	.80787	1.4876	.03543	64.833
#3	.17115	128.03	.21328	.81215	1.5136	.03565	66.019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01874**	**.14670**	**.27743**	**.24900**	**276.03**	**64.810**	**.57791**
Stddev	.00018	.00018	.00189	.00160	5.51	1.172	.01005
%RSD	.96523	.12157	.68306	.64339	1.9969	1.8081	1.7386
#1	.01870	.14686	.27913	.25070	270.39	63.579	.56807
#2	.01858	.14651	.27538	.24877	276.31	64.937	.57751
#3	.01894	.14673	.27777	.24752	281.40	65.913	.58815
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**52.258**	**6.2283**	**.41004**	**20.351**	**.27450**	**.43700**	**.42903**
Stddev	.918	.1243	.00068	.413	.00056	.00088	.00488
%RSD	1.7572	1.9955	.16628	2.0303	.20507	.20055	1.1370
#1	51.303	6.1013	.40984	19.934	.27401	.43793	.42927
#2	52.338	6.2340	.40948	20.359	.27436	.43620	.43379
#3	53.134	6.3497	.41080	20.760	.27512	.43687	.42404
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206081731 Acquired: 6/29/2012 10:47:01 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401887-05

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.13714**	F **1566.5**	**.40906**	**.75570**	**2.9708**	**.17059**	**.71437**
Stddev	.00173	3.3	.00053	.01484	.0594	.00173	.00275
%RSD	1.2626	.21284	.12950	1.9640	1.9982	1.0117	.38489
#1	.13861	1570.3	.40964	.74072	2.9101	.17096	.71704
#2	.13523	1564.9	.40860	.75599	2.9735	.16871	.71155
#3	.13758	1564.2	.40895	.77040	3.0287	.17210	.71452
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**1.1758**
Stddev	.0017
%RSD	.14533
#1	1.1744
#2	1.1753
#3	1.1777
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**15435.**	**29663.**
Stddev	33.	241.
%RSD	.21341	.81358
#1	15434.	29793.
#2	15469.	29812.
#3	15403.	29384.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206078110 Acquired: 6/29/2012 10:50:23 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00289**	**14.830**	**.02297**	**.01919**	**.07096**	**.00054**	**2.3721**
Stddev	.00039	.341	.00234	.00141	.00268	.00003	.0922
%RSD	13.557	2.3015	10.170	7.3692	3.7714	5.7615	3.8883
#1	.00334	14.449	.02056	.01824	.06793	.00056	2.2663
#2	.00262	14.934	.02522	.02082	.07195	.00056	2.4144
#3	.00272	15.108	.02313	.01853	.07301	.00050	2.4357
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.00310**	**.03804**	**.02758**	**35.112**	**2.2418**	**.01003**
Stddev	.00007	.00009	.00051	.00075	1.517	.1100	.00145
%RSD	34.239	2.9036	1.3313	2.7196	4.3202	4.9064	14.498
#1	.00029	.00310	.03849	.02839	33.400	2.1150	.00865
#2	.00015	.00318	.03749	.02745	35.651	2.3115	.00989
#3	.00019	.00300	.03812	.02690	36.287	2.2988	.01155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.0710**	**.12984**	**.00492**	**.33911**	**.00568**	**.26096**	**.00349**
Stddev	.0881	.00355	.00008	.00557	.00027	.00032	.00216
%RSD	2.8678	2.7339	1.5415	1.6422	4.7303	.12261	61.759
#1	2.9694	.12582	.00501	.33281	.00571	.26129	.00595
#2	3.1251	.13257	.00488	.34338	.00539	.26065	.00193
#3	3.1185	.13112	.00487	.34113	.00592	.26094	.00260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206078110 Acquired: 6/29/2012 10:50:23 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00084**	F **328.57**	**.00681**	**.05157**	**.31407**	**-.00322**	**.11776**
Stddev	.00153	4.25	.00028	.00216	.01331	.00024	.00066
%RSD	182.51	1.2927	4.1350	4.1832	4.2392	7.4128	.56237
#1	.00051	324.35	.00690	.04911	.29880	-.00299	.11818
#2	.00251	328.53	.00704	.05245	.32022	-.00346	.11810
#3	-.00050	332.84	.00650	.05315	.32320	-.00320	.11699
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.06396**
Stddev	.00020
%RSD	.30712
#1	.06377
#2	.06416
#3	.06395
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12827.**	**24828.**
Stddev	17.	589.
%RSD	.13438	2.3704
#1	12825.	25467.
#2	12845.	24710.
#3	12811.	24308.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 10:53:45 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40281**	**9.9010**	**.39834**	**.49136**	**1.0111**	**.04975**	**10.119**
Stddev	.00163	.1037	.00429	.00159	.0032	.00018	.033
%RSD	.40553	1.0471	1.0759	.32293	.32044	.36034	.32174
#1	.40413	10.021	.40319	.49194	1.0148	.04996	10.155
#2	.40098	9.8369	.39673	.49257	1.0090	.04965	10.090
#3	.40331	9.8455	.39509	.48956	1.0094	.04964	10.113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04984**	**.20143**	**.50695**	**.50463**	**4.1121**	**50.947**	**1.0241**
Stddev	.00009	.00041	.00020	.00197	.1880	.261	.0026
%RSD	.17534	.20421	.03986	.39059	4.5730	.51288	.24871
#1	.04986	.20174	.50719	.50648	4.3271	51.246	1.0270
#2	.04992	.20159	.50684	.50484	4.0307	50.831	1.0224
#3	.04975	.20097	.50684	.50256	3.9784	50.764	1.0228
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.7409**	**.49660**	**.99577**	**51.232**	**.50129**	**.50285**	**1.1985**
Stddev	.0838	.00322	.00206	.223	.00042	.00231	.0045
%RSD	.86048	.64752	.20716	.43569	.08322	.45919	.37618
#1	9.8375	.50013	.99772	51.490	.50094	.50062	1.2036
#2	9.6979	.49585	.99598	51.092	.50175	.50271	1.1949
#3	9.6874	.49383	.99361	51.115	.50117	.50523	1.1972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 10:53:45 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40085**	F **11.015**	**1.0000**	**.99356**	**1.0029**	**.49944**	**.99035**
Stddev	.00359	.161	.0025	.00362	.0027	.00104	.00193
%RSD	.89580	1.4609	.25033	.36455	.26694	.20728	.19484
#1	.40472	10.987	1.0029	.99773	1.0057	.50029	.99257
#2	.40023	11.187	.99808	.99116	1.0025	.49829	.98927
#3	.39762	10.869	.99916	.99179	1.0004	.49974	.98919
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		5.0000					
Range		10.000%					

Elem	Zn2062
Units	ppm
Avg	**1.0024**
Stddev	.0005
%RSD	.04693
#1	1.0028
#2	1.0024
#3	1.0019
Check ?	Chk Pass
Value	
Range	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13145.**	**23976.**
Stddev	2.	216.
%RSD	.01538	.90057
#1	13147.	23727.
#2	13145.	24103.
#3	13143.	24099.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCB Acquired: 6/29/2012 10:57:00 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**-.00060**	**-.00122**	**-.00126**	**.00023**	**-.00003**	**.00655**	**.00012**
Stddev	.00062	.00271	.00240	.00154	.00014	.00002	.00311	.00012
%RSD	301.60	456.07	196.25	122.90	61.771	58.639	47.523	99.103
#1	-.00047	.00208	-.00381	-.00188	.00009	-.00001	.00404	.00025
#2	.00074	-.00053	-.00078	.00050	.00022	-.00005	.01003	.00000
#3	.00035	-.00334	.00093	-.00239	.00037	-.00003	.00558	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00289**	**-.00023**	**.00835**	**.03008**	**.00089**	**.00891**	**-.00455**
Stddev	.00025	.00037	.00107	.00411	.02778	.00235	.01235	.00037
%RSD	641.09	12.875	457.98	49.267	92.338	265.00	138.53	8.0854
#1	-.00032	.00253	-.00071	.00626	.00467	.00026	-.00313	-.00490
#2	.00012	.00287	.00099	.00570	.05974	.00349	.02154	-.00416
#3	.00008	.00327	-.00098	.01309	.02583	-.00108	.00832	-.00460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.01858**	**-.00498**	**-.00015**	**.00168**	**-.00300**	**.78810**	**.00152**
Stddev	.00015	.01621	.00147	.00194	.00218	.00179	.31540	.00016
%RSD	63.876	87.261	29.570	1273.2	130.16	59.756	40.021	10.547
#1	.00039	.03728	-.00585	.00203	.00360	-.00118	.93950	.00152
#2	.00021	.00990	-.00581	-.00169	-.00070	-.00476	.42554	.00136
#3	.00010	.00855	-.00328	-.00079	.00213	-.00305	.99925	.00169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Approved: July 02, 2012
Pierre Morris

Sample Name: CCB Acquired: 6/29/2012 10:57:00 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00141**	**.00061**	**-.00021**	**.00000**
Stddev	.00008	.00153	.00101	.00025	.00004
%RSD	324.47	108.64	166.49	115.03	1230.2
#1	.00006	.00315	.00073	.00005	-.00004
#2	-.00007	.00029	-.00046	-.00044	.00001
#3	-.00007	.00078	.00155	-.00025	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13019.**	**24091.**
Stddev	80.	80.
%RSD	.61597	.33290
#1	13085.	24157.
#2	13042.	24002.
#3	12929.	24113.

Approved: July 02, 2012
Pierre Morris

Sample Name: ICSA Acquired: 6/29/2012 11:00:28 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**241.34**	**.00474**	**.02021**	**.00060**	**-.00006**	**251.15**
Stddev	.00128	1.10	.00097	.00189	.00010	.00002	1.37
%RSD	585.92	.45757	20.485	9.3465	16.007	34.875	.54718
#1	-.00093	240.26	.00411	.02091	.00068	-.00005	249.57
#2	.00126	241.29	.00426	.02165	.00049	-.00005	251.82
#3	-.00098	242.47	.00586	.01807	.00063	-.00009	252.06
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**-.00032**	**-.00072**	**-.00452**	**94.983**	**-.03967**	**.00503**
Stddev	.00014	.00012	.00024	.00092	.557	.02067	.00010
%RSD	63.338	38.022	34.068	20.262	.58685	52.106	1.9430
#1	-.00013	-.00020	-.00076	-.00444	94.342	-.02741	.00498
#2	-.00015	-.00044	-.00046	-.00365	95.246	-.06353	.00496
#3	-.00039	-.00032	-.00094	-.00548	95.360	-.02807	.00514
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**239.99**	**-.00473**	**-.00018**	**.02675**	**-.00202**	**-.00101**	**-.00468**
Stddev	1.34	.00052	.00004	.02315	.00308	.00145	.00310
%RSD	.56010	11.075	21.011	86.538	152.34	143.22	66.160
#1	238.45	-.00413	-.00017	.03875	-.00468	-.00101	-.00120
#2	240.57	-.00507	-.00022	.04143	-.00273	-.00246	-.00572
#3	240.95	-.00499	-.00015	.00006	.00135	.00043	-.00712
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: ICSA Acquired: 6/29/2012 11:00:28 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.01236**	F **12.402**	**.00075**	**-.00016**	**.00047**	**.00901**	**.00401**
Stddev	.00459	.568	.00045	.00011	.00041	.00233	.00034
%RSD	37.168	4.5762	59.195	68.998	88.984	25.905	8.4438
#1	-.00920	11.943	.00059	-.00012	.00066	.01147	.00421
#2	-.01763	12.226	.00041	-.00029	-.00001	.00682	.00420
#3	-.01025	13.037	.00126	-.00007	.00074	.00874	.00362
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.01000	1.0000					
Low Limit	-.01000	-1.0000					

Elem	Zn2062
Units	ppm
Avg	**-.00387**
Stddev	.00003
%RSD	.73864
#1	-.00384
#2	-.00389
#3	-.00388
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12227.**	**23646.**
Stddev	281.	51.
%RSD	2.2946	.21474
#1	12395.	23691.
#2	12382.	23591.
#3	11903.	23656.

Approved: July 02, 2012
Pierre Morris

Sample Name: ICSAB Acquired: 6/29/2012 11:04:00 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.52856**	**240.67**	**.25560**	**.01234**	**.25285**	**.26067**	**250.03**	**.47498**
Stddev	.00104	.87	.00207	.00172	.00019	.00068	.25	.00055
%RSD	.19750	.36355	.81005	13.917	.07526	.26063	.10083	.11642
#1	.52738	241.42	.25622	.01048	.25264	.25995	249.78	.47434
#2	.52938	239.71	.25330	.01266	.25288	.26129	250.03	.47533
#3	.52891	240.87	.25730	.01387	.25302	.26078	250.28	.47527
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.24193**	**.24943**	**.23862**	**94.808**	**5.1908**	**.00162**	**239.31**	**.24760**
Stddev	.00012	.00082	.00102	.087	.0191	.00084	.30	.00029
%RSD	.04914	.32838	.42557	.09192	.36825	51.730	.12516	.11520
#1	.24200	.24850	.23963	94.710	5.2011	.00205	238.96	.24730
#2	.24199	.25005	.23760	94.837	5.2026	.00217	239.51	.24764
#3	.24179	.24973	.23862	94.876	5.1688	.00066	239.45	.24787
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**5.3567**	**.47751**	**.48924**	**.50016**	**.24111**	**-.11349**	**.00365**
Stddev	.00020	.0066	.00099	.00046	.00315	.00309	.47013	.00062
%RSD	47.873	.12237	.20825	.09312	.62964	1.2817	414.25	17.022
#1	-.00019	5.3518	.47722	.48872	.49742	.24055	.30216	.00374
#2	-.00055	5.3541	.47669	.48956	.49944	.23833	-.62373	.00299
#3	-.00051	5.3641	.47861	.48944	.50360	.24444	-.01890	.00423
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Approved: July 02, 2012
Pierre Morris

Sample Name: ICSAB Acquired: 6/29/2012 11:04:00 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.00063**	**.49824**	**.25694**	**.48442**
Stddev	.00010	.00111	.00152	.00058	.00064
%RSD	134.27	176.25	.30441	.22446	.13148
#1	-.00014	.00051	.49658	.25627	.48378
#2	-.00012	-.00041	.49857	.25729	.48506
#3	.00004	.00179	.49956	.25725	.48443
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12362.**	**23503.**
Stddev	22.	104.
%RSD	.18125	.44137
#1	12388.	23507.
#2	12346.	23604.
#3	12352.	23397.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 11:07:25 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40830**	**9.7821**	**.40087**	**.49973**	**1.0038**	**.05061**	**10.042**
Stddev	.00418	.0520	.00124	.00762	.0025	.00056	.029
%RSD	1.0229	.53158	.30853	1.5244	.24632	1.1076	.29349
#1	.40401	9.7770	.40076	.49173	1.0013	.05003	10.024
#2	.40854	9.7329	.39969	.50059	1.0040	.05066	10.026
#3	.41236	9.8365	.40215	.50689	1.0062	.05114	10.076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04979**	**.20149**	**.51713**	**.50384**	**3.9698**	**50.613**	**1.0142**
Stddev	.00017	.00048	.00630	.00033	.0188	.056	.0007
%RSD	.34845	.23930	1.2176	.06455	.47419	.10981	.06808
#1	.04966	.20094	.51149	.50403	3.9482	50.579	1.0140
#2	.04972	.20182	.51599	.50346	3.9787	50.583	1.0137
#3	.04999	.20170	.52393	.50402	3.9826	50.677	1.0150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.6066**	**.48934**	**.99337**	**50.944**	**.50312**	**.50204**	**1.1992**
Stddev	.0090	.00112	.00157	.084	.00047	.00271	.0023
%RSD	.09353	.22942	.15839	.16506	.09378	.54012	.19175
#1	9.5964	.48820	.99166	50.872	.50262	.49891	1.1983
#2	9.6134	.48938	.99370	50.924	.50355	.50380	1.2018
#3	9.6099	.49045	.99475	51.036	.50321	.50340	1.1975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 11:07:25 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40491**	F **10.590**	**1.0014**	**.98415**	**.98981**	**.49990**	**1.0018**
Stddev	.00203	.556	.0025	.00373	.00323	.00358	.0133
%RSD	.50227	5.2521	.24628	.37939	.32613	.71696	1.3226
#1	.40726	10.451	.99881	.97995	.98613	.49822	.98869
#2	.40362	10.117	1.0016	.98539	.99108	.49746	1.0016
#3	.40386	11.203	1.0037	.98711	.99220	.50402	1.0152
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		5.0000					
Range		10.000%					

Elem	Zn2062
Units	ppm
Avg	**1.0059**
Stddev	.0018
%RSD	.18085
#1	1.0042
#2	1.0055
#3	1.0078
Check ?	Chk Pass
Value	
Range	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12712.**	**23728.**
Stddev	168.	68.
%RSD	1.3245	.28812
#1	12891.	23732.
#2	12690.	23794.
#3	12556.	23657.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCB Acquired: 6/29/2012 11:10:40 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00095**	**.00068**	**-.00015**	**-.00154**	**.00025**	**-.00001**	**.00098**
Stddev	.00060	.00198	.00141	.00035	.00005	.00003	.00467
%RSD	62.500	292.97	941.74	22.775	17.997	329.76	474.54
#1	-.00033	.00026	-.00177	-.00147	.00023	.00002	.00356
#2	-.00102	.00283	.00047	-.00123	.00022	-.00005	-.00440
#3	-.00151	-.00106	.00084	-.00192	.00031	.00000	.00379
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00020**	F **.01007**	**-.00006**	**.02952**	**.00311**	**-.00066**
Stddev	.00012	.00012	.00052	.00051	.00592	.05051	.00213
%RSD	96.262	61.938	5.1942	883.50	20.037	1626.4	325.64
#1	.00010	.00032	.01039	-.00064	.02426	.06131	.00171
#2	.00002	.00007	.01035	.00014	.02838	-.02915	-.00126
#3	.00025	.00020	.00946	.00032	.03593	-.02284	-.00243
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.00300				
Low Limit			-.00300				

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00945**	**-.00416**	**.00046**	**.01696**	**-.00394**	**-.00035**	**.00199**
Stddev	.00632	.00008	.00008	.00667	.00084	.00271	.00211
%RSD	66.951	1.9351	16.658	39.322	21.231	776.65	106.12
#1	.00218	-.00423	.00045	.02267	-.00325	.00233	.00396
#2	.01240	-.00418	.00039	.01857	-.00487	-.00308	-.00024
#3	.01375	-.00408	.00054	.00963	-.00370	-.00030	.00224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: CCB Acquired: 6/29/2012 11:10:40 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00581**	F **1.5106**	**.00156**	**-.00004**	**.00160**	**.00024**	**.00026**
Stddev	.00158	.0694	.00023	.00004	.00137	.00193	.00039
%RSD	27.201	4.5912	14.924	118.15	85.393	804.22	147.04
#1	-.00745	1.4366	.00182	-.00006	.00175	.00224	.00036
#2	-.00430	1.5741	.00142	-.00007	.00017	.00010	-.00016
#3	-.00568	1.5213	.00143	.00001	.00289	-.00162	.00060
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1.0000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**-.00011**
Stddev	.00009
%RSD	78.878
#1	-.00018
#2	-.00001
#3	-.00015
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12289.**	**23637.**
Stddev	33.	84.
%RSD	.26685	.35608
#1	12310.	23696.
#2	12306.	23674.
#3	12251.	23541.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080401 Acquired: 6/29/2012 11:14:09 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01434**	**34.162**	**.17026**	**.05390**	**.96798**	**.00344**	F **3197.8**
Stddev	.00102	.762	.00341	.00232	.03708	.00009	138.8
%RSD	7.1341	2.2294	2.0047	4.3076	3.8308	2.7175	4.3421
#1	.01316	33.320	.17102	.05159	.92566	.00339	3040.3
#2	.01500	34.362	.16654	.05387	.98349	.00338	3250.6
#3	.01485	34.803	.17324	.05624	.99479	.00355	3302.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03098**	**.05775**	**.06003**	**.38661**	**144.23**	**7.6087**	**.09902**
Stddev	.00019	.00018	.00225	.00204	5.46	.2739	.00381
%RSD	.62442	.30748	3.7427	.52745	3.7825	3.5995	3.8493
#1	.03089	.05783	.06257	.38874	138.00	7.3030	.09624
#2	.03120	.05755	.05921	.38468	146.57	7.6915	.09745
#3	.03084	.05788	.05830	.38641	148.13	7.8317	.10336
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**98.723**	**9.0404**	**.01428**	**2.8261**	**.18679**	**2.6530**	**.01454**
Stddev	3.645	.3435	.00021	.1125	.00098	.0042	.00202
%RSD	3.6927	3.7998	1.4401	3.9817	.52461	.15977	13.909
#1	94.571	8.6492	.01416	2.6976	.18636	2.6564	.01412
#2	100.20	9.1793	.01415	2.8738	.18611	2.6482	.01276
#3	101.40	9.2928	.01451	2.9070	.18792	2.6543	.01674
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080401 Acquired: 6/29/2012 11:14:09 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00790**	F **970.74**	**.09936**	F **17.025**	**.29441**	**.00226**	**.12960**
Stddev	.00368	4.09	.00113	.905	.01225	.00211	.00110
%RSD	46.578	.42121	1.1405	5.3150	4.1601	93.397	.85201
#1	.00389	973.54	.09871	16.034	.28040	.00391	.12834
#2	.00868	972.63	.09870	17.231	.29974	-.00012	.13010
#3	.01112	966.05	.10067	17.809	.30309	.00298	.13037
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000		4.5000			
Low Limit		-1.0000		-.01000			

Elem	Zn2062
Units	ppm
Avg	**6.5987**
Stddev	.0069
%RSD	.10404
#1	6.5908
#2	6.6018
#3	6.6034
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**11286.**	**23473.**
Stddev	28.	511.
%RSD	.25001	2.1782
#1	11318.	24048.
#2	11267.	23300.
#3	11272.	23070.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080402 Acquired: 6/29/2012 11:17:43 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02117**	**151.89**	**.16688**	**.07096**	**1.8816**	**.01640**	**115.62**
Stddev	.00011	3.17	.00142	.00569	.0465	.00008	6.91
%RSD	.49946	2.0897	.85070	8.0236	2.4707	.48118	5.9800
#1	.02105	148.37	.16524	.06471	1.8291	.01641	122.69
#2	.02124	152.78	.16772	.07230	1.8984	.01632	115.29
#3	.02121	154.53	.16768	.07585	1.9174	.01647	108.87
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02552**	**.14365**	**.16292**	**.40600**	**367.25**	**14.937**	**.11567**
Stddev	.00007	.00029	.00164	.00148	9.32	.368	.00345
%RSD	.25796	.19852	1.0072	.36384	2.5381	2.4636	2.9845
#1	.02556	.14332	.16476	.40723	356.69	14.548	.11217
#2	.02545	.14386	.16161	.40639	370.69	14.983	.11578
#3	.02556	.14376	.16238	.40436	374.35	15.280	.11907
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**29.084**	**17.423**	**.01305**	**2.4717**	**.25620**	**3.6183**	**.00381**
Stddev	.584	.440	.00018	.0555	.00102	.0083	.00138
%RSD	2.0070	2.5250	1.3676	2.2442	.39667	.22906	36.083
#1	28.415	16.924	.01304	2.4098	.25737	3.6109	.00508
#2	29.349	17.587	.01288	2.4886	.25552	3.6272	.00400
#3	29.488	17.757	.01324	2.5168	.25571	3.6168	.00235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080402 Acquired: 6/29/2012 11:17:43 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	F **478.40**	**.07664**	**.63676**	**.11833**	**.00940**	**.39789**
Stddev	.00448	.55	.00163	.02562	.00208	.00155	.00152
%RSD	1208.5	.11470	2.1311	4.0233	1.7555	16.514	.38263
#1	.00229	477.79	.07747	.66277	.11598	.00761	.39679
#2	-.00475	478.85	.07476	.63595	.11909	.01023	.39725
#3	.00356	478.55	.07769	.61155	.11992	.01036	.39963
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**11.528**
Stddev	.017
%RSD	.15034
#1	11.530
#2	11.543
#3	11.509
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13397.**	**25790.**
Stddev	7.	337.
%RSD	.04956	1.3062
#1	13395.	26179.
#2	13392.	25589.
#3	13405.	25601.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080403 Acquired: 6/29/2012 11:21:10 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04843**	**113.45**	**.35114**	**.09725**	**2.4266**	**.01204**	F **2299.9**
Stddev	.00096	.39	.00439	.00240	.0330	.00001	54.3
%RSD	1.9869	.34160	1.2513	2.4682	1.3607	.09688	2.3592
#1	.04789	113.05	.35216	.09491	2.3887	.01205	2237.5
#2	.04786	113.47	.34632	.09712	2.4420	.01203	2326.2
#3	.04954	113.82	.35493	.09971	2.4491	.01203	2336.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09375**	**.13391**	**.17811**	**1.1485**	**334.12**	**24.482**	**.15265**
Stddev	.00026	.00047	.00137	.0022	4.68	.390	.00062
%RSD	.27329	.34769	.76735	.19175	1.4008	1.5947	.40845
#1	.09376	.13442	.17967	1.1508	328.74	24.035	.15322
#2	.09349	.13350	.17714	1.1484	336.31	24.650	.15198
#3	.09400	.13380	.17751	1.1464	337.30	24.760	.15275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**85.840**	**16.805**	**.02468**	**1.3036**	**.36422**	**9.7349**	**.02753**
Stddev	1.263	.212	.00001	.0175	.00035	.0049	.00415
%RSD	1.4710	1.2623	.05563	1.3444	.09516	.05023	15.078
#1	84.386	16.561	.02467	1.2834	.36454	9.7305	.03166
#2	86.467	16.909	.02469	1.3127	.36425	9.7402	.02336
#3	86.666	16.945	.02467	1.3147	.36385	9.7340	.02757
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080403 Acquired: 6/29/2012 11:21:10 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02342**	F **640.24**	**.26491**	F **11.348**	**.20183**	**.00515**	**.33503**
Stddev	.00118	.86	.00120	.286	.00322	.00452	.00180
%RSD	5.0351	.13470	.45270	2.5228	1.5968	87.842	.53617
#1	.02244	639.31	.26606	11.021	.19811	.00182	.33698
#2	.02473	641.01	.26367	11.555	.20362	.01030	.33345
#3	.02310	640.39	.26500	11.468	.20376	.00332	.33465
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000		4.5000			
Low Limit		-1.0000		-.01000			

Elem	Zn2062
Units	ppm
Avg	**21.742**
Stddev	.015
%RSD	.07081
#1	21.760
#2	21.735
#3	21.732
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12122.**	**24572.**
Stddev	8.	159.
%RSD	.06858	.64680
#1	12117.	24753.
#2	12131.	24502.
#3	12117.	24460.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080404 Acquired: 6/29/2012 11:24:43 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.07954**	**117.18**	**.39512**	**.07266**	**2.9795**	**.01545**	F **1141.8**
Stddev	.00021	.16	.00204	.00239	.0333	.00004	20.7
%RSD	.26528	.13457	.51615	3.2951	1.1194	.24472	1.8092
#1	.07941	117.33	.39277	.06990	2.9418	.01541	1118.0
#2	.07942	117.18	.39631	.07419	2.9914	.01548	1151.4
#3	.07978	117.02	.39629	.07390	3.0052	.01546	1155.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08330**	**.17782**	**.02768**	**1.2971**	**397.52**	**13.826**	**.11320**
Stddev	.00040	.00024	.00239	.0004	3.94	.157	.00135
%RSD	.47608	.13400	8.6226	.02671	.99127	1.1330	1.1930
#1	.08348	.17809	.03038	1.2974	393.05	13.645	.11208
#2	.08284	.17763	.02679	1.2970	399.02	13.908	.11282
#3	.08357	.17774	.02586	1.2967	400.49	13.925	.11470
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**32.455**	**37.467**	**.02482**	**.89158**	**.29302**	**10.412**	**.01748**
Stddev	.204	.452	.00037	.01671	.00219	.007	.00479
%RSD	.62754	1.2073	1.4870	1.8740	.74571	.06739	27.417
#1	32.224	36.954	.02502	.87298	.29097	10.419	.02180
#2	32.533	37.634	.02439	.89643	.29276	10.412	.01232
#3	32.608	37.811	.02504	.90532	.29532	10.405	.01834
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080404 Acquired: 6/29/2012 11:24:43 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00275**	F **547.38**	**.21903**	F **5.3031**	**.13762**	**.01705**	**.35318**
Stddev	.00305	.58	.00059	.0681	.00069	.00143	.00049
%RSD	110.95	.10656	.27142	1.2847	.49968	8.3788	.13848
#1	-.00441	547.66	.21844	5.2245	.13721	.01861	.35276
#2	.00077	547.77	.21962	5.3445	.13724	.01674	.35308
#3	-.00460	546.71	.21903	5.3402	.13841	.01580	.35372
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000		4.5000			
Low Limit		-1.0000		-.01000			

Elem	Zn2062
Units	ppm
Avg	**33.615**
Stddev	.022
%RSD	.06516
#1	33.598
#2	33.640
#3	33.607
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12573.**	**24848.**
Stddev	12.	1.
%RSD	.09690	.00350
#1	12586.	24848.
#2	12567.	24848.
#3	12564.	24849.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080405 Acquired: 6/29/2012 11:28:18 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09158**	**114.37**	**.88932**	**.11422**	**3.0334**	**.01464**	**401.58**
Stddev	.00140	1.28	.00204	.00745	.0647	.00007	12.44
%RSD	1.5266	1.1170	.22930	6.5237	2.1316	.49982	3.0989
#1	.09145	112.97	.88857	.10565	2.9600	.01457	387.36
#2	.09026	114.68	.88777	.11788	3.0582	.01464	410.47
#3	.09304	115.47	.89163	.11913	3.0820	.01472	406.91
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15540**	**.15350**	**.14704**	**2.5818**	**474.68**	**18.965**	**.09791**
Stddev	.00008	.00013	.00228	.0043	10.24	.377	.00227
%RSD	.05126	.08495	1.5484	.16477	2.1573	1.9901	2.3230
#1	.15538	.15337	.14967	2.5867	463.09	18.553	.09664
#2	.15533	.15363	.14564	2.5797	478.45	19.048	.10054
#3	.15549	.15350	.14582	2.5790	482.51	19.295	.09655
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**42.131**	**29.831**	**.03640**	**1.2019**	**.28593**	**18.390**	**.09267**
Stddev	.879	.614	.00024	.0306	.00126	.022	.01121
%RSD	2.0863	2.0586	.67061	2.5479	.44181	.12047	12.092
#1	41.136	29.135	.03622	1.1715	.28597	18.391	.10052
#2	42.454	30.065	.03667	1.2014	.28465	18.368	.07984
#3	42.803	30.294	.03630	1.2328	.28717	18.412	.09766
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080405 Acquired: 6/29/2012 11:28:18 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01583**	F **654.59**	**.37664**	**1.9457**	**.26114**	**.01290**	**.42687**
Stddev	.00140	.17	.00054	.0355	.00633	.00150	.00161
%RSD	8.8120	.02639	.14299	1.8226	2.4249	11.653	.37665
#1	.01427	654.46	.37631	1.9053	.25383	.01295	.42550
#2	.01627	654.52	.37634	1.9598	.26496	.01137	.42649
#3	.01696	654.78	.37726	1.9719	.26463	.01438	.42864
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	F **51.602**
Stddev	.310
%RSD	.60089
#1	51.364
#2	51.953
#3	51.488
Check ?	Chk Fail
High Limit	45.000
Low Limit	-.01000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12799.**	**25174.**
Stddev	16.	263.
%RSD	.12395	1.0435
#1	12813.	25473.
#2	12803.	25072.
#3	12782.	24978.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080406 Acquired: 6/29/2012 11:31:47 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01994**	**125.88**	**.28430**	**.07875**	**3.5832**	**.01434**	**185.17**
Stddev	.00056	2.04	.00139	.00589	.1053	.00005	5.29
%RSD	2.8009	1.6169	.48766	7.4748	2.9396	.32506	2.8543
#1	.01931	123.63	.28408	.07214	3.4635	.01430	179.14
#2	.02013	126.42	.28304	.08069	3.6247	.01439	187.34
#3	.02037	127.59	.28579	.08342	3.6615	.01433	189.02
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06909**	**.15365**	**.16898**	**.91559**	**354.55**	**14.367**	**.09024**
Stddev	.00024	.00058	.00355	.00297	10.41	.436	.00252
%RSD	.34807	.37753	2.1020	.32396	2.9353	3.0370	2.7905
#1	.06901	.15305	.17308	.91888	342.72	13.870	.08736
#2	.06936	.15369	.16688	.91476	358.68	14.544	.09137
#3	.06890	.15420	.16697	.91313	362.27	14.688	.09200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.296**	**20.704**	**.02747**	**.77336**	**.23761**	**7.8870**	**.03899**
Stddev	.518	.603	.00035	.01660	.00190	.0108	.00283
%RSD	2.9921	2.9126	1.2768	2.1470	.79842	.13643	7.2531
#1	16.714	20.016	.02717	.76478	.23927	7.8746	.04202
#2	17.471	20.951	.02786	.79250	.23554	7.8940	.03852
#3	17.703	21.144	.02738	.76280	.23802	7.8923	.03642
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080406 Acquired: 6/29/2012 11:31:47 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00716**	F **482.36**	**.24936**	**.90749**	**.18111**	**.00984**	**.43000**
Stddev	.00313	.76	.00096	.02522	.00480	.00275	.00122
%RSD	43.746	.15848	.38586	2.7794	2.6496	27.961	.28377
#1	.00654	481.59	.24861	.87870	.17557	.01021	.42943
#2	.01055	482.38	.24902	.91809	.18410	.01238	.42917
#3	.00438	483.11	.25045	.92569	.18365	.00692	.43140
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**13.994**
Stddev	.002
%RSD	.01716
#1	13.992
#2	13.993
#3	13.997
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13224.**	**25352.**
Stddev	19.	379.
%RSD	.14341	1.4951
#1	13215.	25767.
#2	13245.	25264.
#3	13210.	25025.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080407 Acquired: 6/29/2012 11:35:03 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01816**	**130.32**	**.34308**	**.08175**	**3.7220**	**.01438**	**110.08**
Stddev	.00026	2.06	.00364	.00779	.1119	.00004	3.19
%RSD	1.4211	1.5781	1.0619	9.5319	3.0076	.26330	2.8983
#1	.01842	127.96	.34543	.07301	3.5955	.01439	106.46
#2	.01815	131.25	.33888	.08428	3.7626	.01434	111.28
#3	.01790	131.75	.34492	.08796	3.8081	.01442	112.49
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06282**	**.10102**	**.23859**	**1.2406**	**358.24**	**14.463**	**.09266**
Stddev	.00009	.00055	.00094	.0017	11.09	.471	.00513
%RSD	.14949	.54320	.39200	.13843	3.0961	3.2558	5.5320
#1	.06279	.10050	.23962	1.2425	345.70	13.936	.08735
#2	.06292	.10159	.23833	1.2402	362.25	14.612	.09304
#3	.06273	.10096	.23781	1.2391	366.77	14.842	.09758
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.816**	**11.786**	**.02511**	**.72936**	**.23393**	**7.4865**	**.04158**
Stddev	.536	.347	.00038	.02334	.00153	.0048	.00038
%RSD	3.1848	2.9478	1.5198	3.2004	.65324	.06375	.92414
#1	16.220	11.393	.02509	.70300	.23296	7.4812	.04161
#2	16.974	11.914	.02474	.74741	.23314	7.4904	.04194
#3	17.255	12.052	.02550	.73766	.23569	7.4879	.04118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080407 Acquired: 6/29/2012 11:35:03 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00659**	F **531.11**	**.16045**	**.59312**	**.19473**	**.00469**	**.41743**
Stddev	.00576	.81	.00137	.01803	.00527	.00185	.00177
%RSD	87.438	.15259	.85088	3.0391	2.7074	39.471	.42335
#1	.00432	530.18	.15923	.57267	.18879	.00491	.41551
#2	.01314	531.57	.16193	.59998	.19656	.00642	.41900
#3	.00231	531.59	.16020	.60670	.19885	.00274	.41777
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**12.797**
Stddev	.011
%RSD	.08206
#1	12.785
#2	12.805
#3	12.800
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13366.**	**25757.**
Stddev	6.	373.
%RSD	.04127	1.4468
#1	13368.	26175.
#2	13371.	25640.
#3	13360.	25458.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080408 Acquired: 6/29/2012 11:38:21 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01601**	**27.253**	**.14185**	**.05920**	**.76625**	**.00333**	F **4602.7**
Stddev	.00071	.229	.00217	.00327	.00359	.00008	81.4
%RSD	4.4397	.84060	1.5291	5.5207	.46879	2.5330	1.7679
#1	.01584	27.019	.13946	.05547	.76211	.00324	4526.1
#2	.01540	27.261	.14240	.06053	.76807	.00340	4593.9
#3	.01679	27.477	.14370	.06159	.76857	.00336	4688.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03156**	**.05483**	**.04470**	**.37578**	**151.00**	**9.1334**	**.17951**
Stddev	.00016	.00011	.00063	.00156	1.52	.0997	.00329
%RSD	.50497	.20300	1.3984	.41482	1.0054	1.0917	1.8326
#1	.03148	.05473	.04504	.37758	149.34	9.0182	.17594
#2	.03175	.05495	.04398	.37481	151.37	9.1908	.18016
#3	.03146	.05482	.04509	.37495	152.31	9.1911	.18243
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**123.55**	**8.8042**	**.01174**	**4.2673**	**.20669**	**2.3324**	**.01356**
Stddev	1.75	.1104	.00036	.0520	.00173	.0076	.00255
%RSD	1.4194	1.2540	3.0328	1.2181	.83549	.32612	18.774
#1	121.61	8.6801	.01213	4.2091	.20471	2.3274	.01079
#2	124.01	8.8409	.01168	4.2837	.20745	2.3285	.01580
#3	125.02	8.8916	.01142	4.3091	.20791	2.3411	.01411
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080408 Acquired: 6/29/2012 11:38:21 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01045**	F **600.12**	**.08938**	F **33.659**	**.11710**	**.00334**	**.12805**
Stddev	.00317	.91	.00065	.886	.00267	.00119	.00043
%RSD	30.335	.15162	.72703	2.6314	2.2790	35.602	.33265
#1	.01271	599.79	.08870	32.789	.11425	.00455	.12765
#2	.01182	601.15	.08943	33.628	.11750	.00328	.12850
#3	.00683	599.42	.09000	34.560	.11955	.00218	.12799
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000		4.5000			
Low Limit		-1.0000		-.01000			

Elem	Zn2062
Units	ppm
Avg	**5.7316**
Stddev	.0030
%RSD	.05310
#1	5.7323
#2	5.7282
#3	5.7342
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**10913.**	**22680.**
Stddev	10.	192.
%RSD	.08742	.84468
#1	10923.	22876.
#2	10913.	22669.
#3	10904.	22494.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080409 Acquired: 6/29/2012 11:41:56 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00656**	**19.287**	**.09897**	**.03557**	**.64641**	**.00186**	F **4769.6**
Stddev	.00040	.179	.00356	.00118	.00634	.00003	45.0
%RSD	6.0465	.92601	3.5940	3.3175	.98115	1.6188	.94426
#1	.00619	19.141	.09487	.03492	.63930	.00188	4771.1
#2	.00651	19.233	.10123	.03693	.64847	.00183	4723.8
#3	.00697	19.486	.10080	.03485	.65147	.00187	4813.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02690**	**.04622**	**.01346**	**.25224**	**95.987**	**6.9566**	**.17696**
Stddev	.00016	.00019	.00054	.00163	.771	.1102	.00103
%RSD	.59887	.40409	3.9877	.64809	.80333	1.5838	.58349
#1	.02684	.04606	.01329	.25384	95.143	6.8564	.17577
#2	.02678	.04642	.01406	.25232	96.165	6.9388	.17758
#3	.02709	.04617	.01303	.25057	96.654	7.0746	.17753
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**132.53**	**6.6933**	**.01043**	**2.4135**	**.17016**	**1.2027**	**.00864**
Stddev	1.36	.0573	.00023	.0259	.00217	.0013	.00196
%RSD	1.0287	.85595	2.2219	1.0711	1.2747	.10540	22.651
#1	131.03	6.6290	.01044	2.3843	.16789	1.2036	.00820
#2	132.85	6.7120	.01019	2.4333	.17039	1.2031	.01078
#3	133.70	6.7389	.01065	2.4231	.17221	1.2012	.00694
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080409 Acquired: 6/29/2012 11:41:56 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00229**	F **846.03**	**.04734**	F **34.496**	**.09768**	**.00163**	**.07929**
Stddev	.00180	3.52	.00086	.620	.00132	.00108	.00014
%RSD	78.840	.41613	1.8198	1.7964	1.3479	66.262	.18245
#1	.00076	849.26	.04645	33.783	.09778	.00038	.07926
#2	.00183	846.57	.04740	34.799	.09895	.00229	.07945
#3	.00428	842.28	.04817	34.905	.09632	.00221	.07917
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000		4.5000			
Low Limit		-1.0000		-.01000			

Elem	Zn2062
Units	ppm
Avg	**3.4717**
Stddev	.0021
%RSD	.06087
#1	3.4736
#2	3.4694
#3	3.4720
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**10797.**	**22324.**
Stddev	21.	175.
%RSD	.19658	.78430
#1	10818.	22500.
#2	10796.	22321.
#3	10776.	22150.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080410 Acquired: 6/29/2012 11:45:32 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03784**	**56.097**	**.32168**	**.06753**	**1.3334**	**.00794**	**480.23**
Stddev	.00037	.542	.00312	.00166	.0223	.00003	32.12
%RSD	.98353	.96612	.96842	2.4514	1.6761	.37381	6.6874
#1	.03748	55.497	.32138	.06575	1.3079	.00791	515.45
#2	.03822	56.550	.31873	.06903	1.3427	.00795	472.65
#3	.03780	56.244	.32494	.06782	1.3496	.00797	452.58
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19157**	**.06729**	**.06282**	**.85052**	**264.17**	**9.3246**	**.05533**
Stddev	.00019	.00019	.00015	.00163	4.55	.1482	.00246
%RSD	.09901	.28882	.23280	.19110	1.7216	1.5889	4.4477
#1	.19174	.06750	.06297	.85234	258.96	9.1539	.05328
#2	.19136	.06712	.06281	.84921	266.16	9.4196	.05806
#3	.19160	.06726	.06268	.85001	267.38	9.4004	.05466
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.943**	**13.725**	**.02770**	**1.2269**	**.13747**	**7.3878**	**.02733**
Stddev	.189	.231	.00038	.0239	.00166	.0115	.00089
%RSD	1.1871	1.6857	1.3694	1.9445	1.2042	.15588	3.2709
#1	16.147	13.460	.02814	1.2034	.13767	7.3862	.02694
#2	15.912	13.829	.02746	1.2263	.13572	7.3771	.02670
#3	15.772	13.887	.02752	1.2511	.13902	7.4000	.02836
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080410 Acquired: 6/29/2012 11:45:32 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00272**	F **436.85**	**.17378**	**2.0645**	**.16694**	**.00949**	**.22231**
Stddev	.00277	.58	.00019	.0889	.00193	.00088	.00153
%RSD	102.05	.13385	.11057	4.3049	1.1544	9.3030	.68715
#1	.00508	436.21	.17382	2.1617	.16508	.00875	.22068
#2	-.00033	436.99	.17395	2.0445	.16680	.01047	.22371
#3	.00340	437.36	.17357	1.9874	.16893	.00925	.22254
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**35.831**
Stddev	.014
%RSD	.03866
#1	35.822
#2	35.823
#3	35.847
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12651.**	**24148.**
Stddev	17.	173.
%RSD	.13636	.71709
#1	12671.	24341.
#2	12642.	24007.
#3	12640.	24094.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 11:48:59 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40371**	**9.9712**	**.40278**	**.49402**	**1.0227**	**.05017**	F **11.712**
Stddev	.00111	.0541	.00270	.00079	.0091	.00015	2.474
%RSD	.27400	.54262	.66915	.15977	.88712	.29566	21.120
#1	.40275	10.014	.39975	.49433	1.0331	.05001	14.565
#2	.40492	9.9890	.40491	.49462	1.0176	.05031	10.405
#3	.40346	9.9104	.40369	.49313	1.0172	.05018	10.166
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							10.000
Range							10.000%

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04971**	**.20133**	**.50961**	**.50454**	F **5.0864**	**52.100**	**1.0443**
Stddev	.00020	.00040	.00119	.00094	1.6187	.361	.0034
%RSD	.39701	.20107	.23307	.18694	31.824	.69272	.32174
#1	.04953	.20087	.50828	.50433	6.9530	52.517	1.0476
#2	.04992	.20165	.51058	.50372	4.2361	51.885	1.0409
#3	.04969	.20145	.50995	.50557	4.0700	51.898	1.0444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value					4.0000		
Range					10.000%		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.8271**	F **.55049**	**.99562**	**52.273**	**.50301**	**.50513**	**1.2019**
Stddev	.0996	.07839	.00163	.242	.00120	.00188	.0017
%RSD	1.0130	14.240	.16347	.46327	.23889	.37265	.14401
#1	9.9421	.64088	.99489	52.551	.50211	.50422	1.2039
#2	9.7691	.50940	.99748	52.114	.50254	.50730	1.2010
#3	9.7702	.50118	.99448	52.153	.50437	.50388	1.2008
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		.50000					
Range		10.000%					

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 11:48:59 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40773**	F **10.735**	**1.0022**	**1.0050**	**.99449**	**.50124**	**.99384**
Stddev	.00194	.210	.0007	.0135	.00285	.00090	.00229
%RSD	.47622	1.9591	.07073	1.3455	.28608	.17859	.23009
#1	.40972	10.493	1.0018	1.0206	.99766	.50028	.99233
#2	.40763	10.869	1.0018	.99768	.99361	.50206	.99647
#3	.40584	10.844	1.0030	.99673	.99218	.50138	.99272
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		5.0000					
Range		10.000%					

Elem	Zn2062
Units	ppm
Avg	**1.0047**
Stddev	.0005
%RSD	.04535
#1	1.0043
#2	1.0052
#3	1.0048
Check ?	Chk Pass
Value	
Range	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13110.**	**23756.**
Stddev	32.	110.
%RSD	.24455	.46125
#1	13127.	23633.
#2	13129.	23795.
#3	13073.	23841.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCB Acquired: 6/29/2012 11:52:13 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**.00143**	**-.00135**	**-.00293**	**.00021**	**-.00004**	**.00868**
Stddev	.00072	.00212	.00071	.00091	.00022	.00006	.00843
%RSD	194.67	148.85	52.620	31.117	105.30	158.13	97.062
#1	-.00044	.00363	-.00217	-.00363	.00021	.00003	.00590
#2	.00061	-.00061	-.00090	-.00325	.00042	-.00008	.01815
#3	.00094	.00125	-.00098	-.00190	-.00001	-.00006	.00200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00006**	F **.01150**	**-.00016**	**.03935**	**-.08961**	**.00356**
Stddev	.00013	.00023	.00033	.00069	.00341	.02374	.00164
%RSD	267.26	356.10	2.8703	440.31	8.6603	26.498	46.132
#1	.00019	.00020	.01127	.00057	.03629	-.06236	.00266
#2	.00002	.00020	.01188	-.00025	.03874	-.10587	.00545
#3	-.00007	-.00020	.01136	-.00079	.04302	-.10059	.00256
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.00300				
Low Limit			-.00300				

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01731**	**-.00378**	**.00049**	**.03416**	**-.00099**	**-.00243**	**.00098**
Stddev	.01299	.00050	.00012	.00749	.00139	.00131	.00029
%RSD	75.044	13.128	24.916	21.943	139.55	54.183	29.450
#1	.02267	-.00427	.00062	.03563	-.00172	-.00213	.00086
#2	.00250	-.00378	.00049	.02603	-.00187	-.00128	.00077
#3	.02676	-.00328	.00037	.04081	.00061	-.00386	.00131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: CCB Acquired: 6/29/2012 11:52:13 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00265**	**.90850**	**.00083**	**.00006**	**.00144**	**.00266**	**-.00002**
Stddev	.00239	.18535	.00043	.00001	.00049	.00277	.00040
%RSD	90.155	20.402	51.751	17.030	34.288	103.96	1648.6
#1	-.00493	.75736	.00132	.00006	.00088	.00565	.00041
#2	-.00285	1.1153	.00056	.00005	.00181	.00214	-.00012
#3	-.00017	.85284	.00060	.00007	.00164	.00019	-.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	**.00009**
Stddev	.00018
%RSD	208.96
#1	.00009
#2	-.00010
#3	.00027
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13081.**	**23808.**
Stddev	17.	68.
%RSD	.12856	.28589
#1	13099.	23886.
#2	13066.	23758.
#3	13078.	23782.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080414 Acquired: 6/29/2012 11:55:42 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08657**	**121.95**	**.65453**	**.09102**	**2.9391**	**.01415**	**651.13**
Stddev	.00046	3.57	.00427	.00651	.0938	.00003	34.15
%RSD	.52711	2.9280	.65264	7.1498	3.1924	.20124	5.2445
#1	.08699	117.87	.65007	.08350	2.8315	.01412	611.99
#2	.08608	123.50	.65492	.09476	2.9819	.01414	666.48
#3	.08664	124.49	.65858	.09479	3.0039	.01418	674.90
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17138**	**.15720**	F **-.09138**	**1.6254**	**472.14**	**18.580**	**.12816**
Stddev	.00042	.00019	.01398	.0042	15.41	.633	.00350
%RSD	.24495	.11916	15.295	.25829	3.2638	3.4057	2.7308
#1	.17108	.15739	-.07524	1.6299	454.49	17.863	.12437
#2	.17120	.15701	-.09921	1.6216	479.08	18.815	.13127
#3	.17186	.15719	-.09968	1.6249	482.87	19.061	.12883
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000				
Low Limit			-.00300				

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**36.147**	**64.784**	**.03900**	**1.7819**	**.33235**	**16.740**	**.04090**
Stddev	1.233	2.997	.00027	.0539	.00114	.011	.00208
%RSD	3.4118	4.6266	.68136	3.0232	.34266	.06833	5.0849
#1	34.743	61.323	.03914	1.7197	.33363	16.753	.04203
#2	36.645	66.514	.03869	1.8120	.33197	16.736	.04217
#3	37.053	66.515	.03917	1.8140	.33144	16.731	.03850
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080414 Acquired: 6/29/2012 11:55:42 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00558**	F **651.49**	**.24864**	**3.1335**	**.18952**	**.03387**	**.38941**
Stddev	.00765	.66	.00118	.1024	.00809	.00441	.00155
%RSD	137.12	.10197	.47626	3.2687	4.2703	13.019	.39812
#1	.01407	651.93	.24802	3.0162	.18075	.03700	.38793
#2	.00343	651.81	.25000	3.1792	.19110	.03578	.38927
#3	-.00076	650.73	.24789	3.2051	.19670	.02882	.39102
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**43.430**
Stddev	.030
%RSD	.06911
#1	43.460
#2	43.400
#3	43.430
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12682.**	**25150.**
Stddev	28.	637.
%RSD	.22190	2.5309
#1	12650.	25881.
#2	12702.	24848.
#3	12694.	24720.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206081727 Acquired: 6/29/2012 11:59:17 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.00650**	**77.002**	**.04783**	**.03766**	**.75025**	**.01078**	**38.527**
Stddev	.00020	.761	.00347	.00445	.01627	.00002	.331
%RSD	3.1223	.98843	7.2451	11.819	2.1687	.22679	.86029
#1	-.00639	76.124	.04634	.03325	.73155	.01081	38.317
#2	-.00673	77.416	.05179	.04215	.75803	.01076	38.909
#3	-.00637	77.467	.04536	.03758	.76117	.01077	38.355
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000						
Low Limit	-.00400						

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.06122**	**.04181**	**.06921**	**209.81**	**24.899**	**.13764**
Stddev	.00006	.00017	.00132	.00140	4.99	.608	.00289
%RSD	33.272	.28000	3.1572	2.0220	2.3772	2.4430	2.0965
#1	-.00013	.06127	.04333	.07081	204.09	24.203	.13431
#2	-.00026	.06136	.04115	.06862	212.16	25.165	.13919
#3	-.00019	.06103	.04095	.06820	213.20	25.329	.13941
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**45.786**	**4.9272**	**.00898**	**.72393**	**.07815**	**.22514**	**-.00141**
Stddev	1.155	.0519	.00022	.01870	.00050	.00135	.00240
%RSD	2.5235	1.0533	2.4114	2.5835	.63863	.59774	169.61
#1	44.479	4.8763	.00873	.70234	.07872	.22546	.00111
#2	46.211	4.9801	.00913	.73440	.07780	.22629	-.00168
#3	46.669	4.9252	.00907	.73505	.07793	.22366	-.00366
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206081727 Acquired: 6/29/2012 11:59:17 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00828**	F **393.59**	**.01515**	**.22524**	**.42679**	**-.01451**	**.22471**
Stddev	.00094	.81	.00042	.00231	.01085	.00235	.00017
%RSD	11.320	.20538	2.7728	1.0255	2.5411	16.198	.07348
#1	-.00859	394.41	.01467	.22304	.41427	-.01576	.22480
#2	-.00902	392.79	.01540	.22764	.43287	-.01597	.22482
#3	-.00723	393.57	.01538	.22504	.43324	-.01180	.22452
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.57315**
Stddev	.00404
%RSD	.70498
#1	.57779
#2	.57120
#3	.57045
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**14837.**	**28019.**
Stddev	10.	280.
%RSD	.06873	1.0007
#1	14826.	28340.
#2	14840.	27895.
#3	14846.	27822.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206081728 Acquired: 6/29/2012 12:02:34 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.01159**	**94.988**	**.06809**	**.04441**	**1.1986**	**.01647**	**52.150**
Stddev	.00027	1.313	.00167	.00400	.0298	.00007	1.267
%RSD	2.3010	1.3821	2.4528	9.0083	2.4877	.44545	2.4301
#1	-.01129	93.561	.06837	.03982	1.1648	.01642	50.707
#2	-.01165	95.260	.06630	.04624	1.2099	.01645	52.660
#3	-.01182	96.144	.06960	.04717	1.2212	.01656	53.083
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000						
Low Limit	-.00400						

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.07970**	**.05444**	**.06650**	**252.59**	**37.726**	**.17948**
Stddev	.00011	.00007	.00142	.00186	6.14	.875	.00334
%RSD	52.436	.09266	2.6017	2.7934	2.4294	2.3183	1.8623
#1	-.00015	.07961	.05581	.06864	245.62	36.738	.17585
#2	-.00015	.07975	.05452	.06534	254.97	38.043	.18016
#3	-.00034	.07973	.05298	.06552	257.18	38.399	.18242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**50.635**	**7.6051**	**.00748**	**.61820**	**.08520**	**.32665**	**-.00276**
Stddev	1.251	.1960	.00010	.00971	.00048	.00133	.00087
%RSD	2.4711	2.5774	1.2949	1.5703	.55898	.40650	31.397
#1	49.212	7.3828	.00759	.60922	.08480	.32661	-.00369
#2	51.130	7.6794	.00741	.61686	.08573	.32800	-.00197
#3	51.563	7.7531	.00743	.62850	.08506	.32534	-.00263
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206081728 Acquired: 6/29/2012 12:02:34 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00997**	F **470.53**	**.02127**	**.30048**	**.42317**	**-.02416**	**.27567**
Stddev	.00422	1.16	.00031	.00743	.01106	.00133	.00114
%RSD	42.356	.24602	1.4753	2.4729	2.6128	5.5095	.41334
#1	-.00899	471.84	.02103	.29206	.41101	-.02263	.27541
#2	-.01460	470.13	.02116	.30327	.42586	-.02496	.27468
#3	-.00632	469.64	.02163	.30612	.43263	-.02490	.27691
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.80820**
Stddev	.00019
%RSD	.02358
#1	.80830
#2	.80832
#3	.80798
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**16570.**	**31462.**
Stddev	17.	397.
%RSD	.10553	1.2613
#1	16590.	31911.
#2	16562.	31321.
#3	16558.	31156.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206081729 Acquired: 6/29/2012 12:05:52 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.00759**	**70.994**	**.05483**	**.03390**	**.92972**	**.01181**	**39.294**
Stddev	.00059	1.478	.00120	.00424	.02935	.00005	1.228
%RSD	7.8328	2.0822	2.1949	12.517	3.1569	.42976	3.1249
#1	-.00779	69.288	.05565	.02933	.89631	.01175	37.895
#2	-.00693	71.907	.05539	.03467	.94151	.01185	39.794
#3	-.00807	71.787	.05345	.03771	.95134	.01182	40.194
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000						
Low Limit	-.00400						

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.06032**	**.04555**	**.04814**	**200.08**	**22.979**	**.13103**
Stddev	.00005	.00021	.00123	.00208	6.38	.700	.00503
%RSD	21.514	.35350	2.7073	4.3198	3.1872	3.0460	3.8356
#1	-.00018	.06016	.04694	.05053	192.80	22.194	.12527
#2	-.00026	.06056	.04510	.04673	202.76	23.202	.13449
#3	-.00028	.06024	.04460	.04716	204.68	23.540	.13333
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**37.390**	**5.2741**	**.00809**	**.68542**	**.06158**	**.21769**	**-.00143**
Stddev	1.278	.1639	.00008	.01869	.00014	.00205	.00063
%RSD	3.4184	3.1073	.94605	2.7272	.21958	.94104	44.460
#1	35.927	5.0864	.00806	.67468	.06160	.21932	-.00206
#2	37.951	5.3469	.00803	.70701	.06171	.21837	-.00080
#3	38.291	5.3889	.00817	.67458	.06144	.21539	-.00142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206081729 Acquired: 6/29/2012 12:05:52 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00900**	F **519.69**	**.01797**	**.27040**	**.43410**	**-.01635**	**.22727**
Stddev	.00614	1.31	.00078	.00842	.01382	.00057	.00151
%RSD	68.198	.25182	4.3635	3.1155	3.1831	3.4966	.66482
#1	-.00976	518.47	.01887	.26076	.41858	-.01693	.22604
#2	-.00252	519.54	.01756	.27410	.43866	-.01632	.22895
#3	-.01472	521.07	.01748	.27635	.44507	-.01579	.22680
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.60663**
Stddev	.00038
%RSD	.06343
#1	.60650
#2	.60706
#3	.60632
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**15396.**	**29140.**
Stddev	16.	519.
%RSD	.10390	1.7811
#1	15414.	29733.
#2	15391.	28915.
#3	15383.	28771.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206081734 Acquired: 6/29/2012 12:09:10 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.00877**	**60.615**	**.06558**	**.02982**	**.83408**	**.01162**	**30.568**
Stddev	.00021	1.053	.00532	.00196	.02069	.00004	.774
%RSD	2.3961	1.7379	8.1053	6.5773	2.4810	.36923	2.5331
#1	-.00865	59.401	.07087	.02831	.81056	.01158	29.685
#2	-.00864	61.158	.06024	.02911	.84218	.01164	30.885
#3	-.00901	61.287	.06563	.03204	.84950	.01166	31.132
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000						
Low Limit	-.00400						

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.04592**	**.05633**	**.04946**	**167.31**	**18.848**	**.10693**
Stddev	.00007	.00039	.00104	.00116	4.37	.463	.00392
%RSD	21.558	.85443	1.8539	2.3364	2.6104	2.4580	3.6648
#1	.00039	.04623	.05746	.05073	162.32	18.317	.10492
#2	.00033	.04548	.05540	.04918	169.19	19.056	.11145
#3	.00025	.04605	.05612	.04847	170.43	19.171	.10443
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**29.045**	**3.7730**	**.00610**	**.55044**	**.05406**	**.19780**	**-.00308**
Stddev	.739	.0910	.00014	.02163	.00082	.00248	.00123
%RSD	2.5447	2.4108	2.2899	3.9295	1.5144	1.2542	39.879
#1	28.204	3.6692	.00598	.52665	.05499	.20044	-.00174
#2	29.336	3.8113	.00625	.55573	.05374	.19553	-.00415
#3	29.593	3.8385	.00606	.56893	.05345	.19742	-.00335
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206081734 Acquired: 6/29/2012 12:09:10 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00789**	F **489.44**	**.01536**	**.25340**	**.32223**	**-.01806**	**.20333**
Stddev	.00377	1.51	.00060	.00628	.00758	.00164	.00036
%RSD	47.858	.30790	3.8907	2.4796	2.3515	9.0600	.17682
#1	-.01047	490.95	.01514	.24622	.31366	-.01913	.20293
#2	-.00356	487.94	.01603	.25609	.32496	-.01887	.20342
#3	-.00963	489.44	.01490	.25788	.32806	-.01618	.20363
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.50615**
Stddev	.00103
%RSD	.20303
#1	.50722
#2	.50518
#3	.50605
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**15208.**	**28412.**
Stddev	23.	463.
%RSD	.15149	1.6284
#1	15182.	28942.
#2	15221.	28201.
#3	15222.	28092.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206081735 Acquired: 6/29/2012 12:12:28 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.00734**	**90.655**	**.04897**	**.04535**	**.96317**	**.01252**	**38.534**
Stddev	.00067	1.251	.00108	.00444	.02456	.00009	1.001
%RSD	9.1895	1.3799	2.2056	9.7868	2.5499	.72000	2.5971
#1	-.00810	89.220	.04787	.04040	.93523	.01249	37.399
#2	-.00709	91.226	.05003	.04669	.97291	.01245	38.917
#3	-.00682	91.518	.04901	.04897	.98136	.01262	39.288
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000						
Low Limit	-.00400						

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.07559**	**.05676**	**.07791**	**237.21**	**32.097**	**.15802**
Stddev	.00016	.00045	.00075	.00150	6.12	.864	.00377
%RSD	82.811	.59528	1.3159	1.9231	2.5780	2.6918	2.3879
#1	-.00032	.07516	.05740	.07964	230.26	31.120	.15366
#2	-.00022	.07554	.05594	.07697	239.59	32.409	.16018
#3	-.00002	.07606	.05694	.07711	241.77	32.761	.16022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**51.822**	**5.5575**	**.00858**	**.67763**	**.09168**	**.22783**	**-.00477**
Stddev	1.345	.1417	.00037	.01011	.00020	.00151	.00170
%RSD	2.5953	2.5505	4.3224	1.4922	.21479	.66347	35.516
#1	50.304	5.3965	.00839	.66598	.09150	.22648	-.00362
#2	52.293	5.6124	.00900	.68410	.09189	.22755	-.00399
#3	52.867	5.6635	.00833	.68281	.09164	.22946	-.00672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206081735 Acquired: 6/29/2012 12:12:28 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00829**	F **359.80**	**.01882**	**.25955**	**.51981**	**-.01540**	**.26719**
Stddev	.00268	1.68	.00016	.00671	.01435	.00037	.00238
%RSD	32.355	.46623	.85697	2.5852	2.7608	2.3822	.88933
#1	-.00519	358.12	.01864	.25190	.50337	-.01516	.26614
#2	-.00987	359.82	.01888	.26230	.52622	-.01582	.26553
#3	-.00981	361.47	.01895	.26445	.52984	-.01521	.26992
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.68828**
Stddev	.00208
%RSD	.30180
#1	.68666
#2	.68755
#3	.69062
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**15303.**	**28558.**
Stddev	88.	365.
%RSD	.57670	1.2791
#1	15336.	28978.
#2	15370.	28387.
#3	15203.	28310.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206085501 Acquired: 6/29/2012 12:15:46 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00179**	**7.1025**	**.00588**	**7.0125**	**44.724**	**.00006**	**3.9220**
Stddev	.00061	.0770	.00062	.0119	1.781	.00001	.0411
%RSD	34.217	1.0845	10.493	.16991	3.9825	20.861	1.0486
#1	.00127	7.0136	.00645	7.0137	42.779	.00007	3.8772
#2	.00162	7.1507	.00522	7.0001	45.116	.00005	3.9581
#3	.00246	7.1430	.00597	7.0238	46.276	.00005	3.9308
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00285**	**.02912**	**.38003**	**.46826**	**60.695**	**.24396**	**.03301**
Stddev	.00012	.00027	.00076	.00089	1.190	.04610	.00380
%RSD	4.0443	.91751	.20013	.19062	1.9602	18.896	11.497
#1	.00273	.02931	.38034	.46929	59.325	.24864	.03134
#2	.00288	.02882	.37916	.46774	61.290	.28754	.03736
#3	.00295	.02924	.38058	.46775	61.469	.19570	.03034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**34.157**	**.49345**	**.09257**	**.91259**	**.10513**	**.24341**	**.00299**
Stddev	.877	.00289	.00034	.02532	.00083	.00198	.00065
%RSD	2.5684	.58584	.36837	2.7746	.79033	.81514	21.587
#1	33.148	.49093	.09248	.88970	.10506	.24473	.00277
#2	34.582	.49660	.09295	.93979	.10599	.24112	.00372
#3	34.741	.49281	.09228	.90830	.10433	.24436	.00248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206085501 Acquired: 6/29/2012 12:15:46 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00318**	F **346.78**	**.05910**	**.71045**	**.15495**	**-.00560**	**.00993**
Stddev	.00207	1.36	.00061	.01771	.00386	.00262	.00030
%RSD	65.007	.39322	1.0349	2.4932	2.4886	46.885	3.0682
#1	.00241	345.56	.05923	.69021	.15082	-.00523	.00997
#2	.00552	346.54	.05964	.71803	.15557	-.00318	.01021
#3	.00161	348.25	.05843	.72311	.15846	-.00839	.00960
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**6.1794**
Stddev	.0058
%RSD	.09361
#1	6.1732
#2	6.1847
#3	6.1803
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12803.**	**23933.**
Stddev	22.	338.
%RSD	.17075	1.4133
#1	12791.	24323.
#2	12828.	23764.
#3	12789.	23714.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 12:19:11 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40294**	**9.9350**	**.40042**	**.51512**	**1.0773**	**.05046**	**10.111**
Stddev	.00141	.0130	.00322	.00181	.0844	.00017	.010
%RSD	.35116	.13038	.80440	.35110	7.8386	.32744	.10008
#1	.40184	9.9201	.40048	.51441	1.1747	.05027	10.113
#2	.40245	9.9439	.40361	.51717	1.0331	.05051	10.120
#3	.40454	9.9409	.39717	.51377	1.0241	.05059	10.100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05003**	**.20105**	**.50919**	**.50378**	**4.1595**	**52.390**	**1.0401**
Stddev	.00016	.00047	.00313	.00052	.1282	.091	.0028
%RSD	.31538	.23528	.61486	.10418	3.0818	.17378	.26814
#1	.04985	.20051	.50570	.50359	4.3067	52.484	1.0410
#2	.05016	.20120	.51014	.50438	4.1000	52.303	1.0423
#3	.05007	.20142	.51174	.50338	4.0720	52.384	1.0370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.9149**	**.50105**	**.99608**	**52.222**	**.50724**	**.50147**	**1.1986**
Stddev	.0761	.00101	.00078	.013	.00144	.00151	.0029
%RSD	.76805	.20156	.07819	.02410	.28304	.30099	.23941
#1	9.9929	.50220	.99559	52.208	.50575	.50174	1.1957
#2	9.9111	.50066	.99698	52.224	.50735	.50283	1.2014
#3	9.8407	.50029	.99568	52.233	.50861	.49985	1.1987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 12:19:11 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40185**	F **13.218**	**1.0013**	**1.0025**	**.98334**	**.50262**	**.99052**
Stddev	.00264	.201	.0013	.0017	.00076	.00311	.00478
%RSD	.65670	1.5242	.13129	.16980	.07758	.61893	.48248
#1	.40386	13.374	1.0025	1.0042	.98257	.50057	.98529
#2	.40282	13.288	1.0016	1.0008	.98335	.50110	.99164
#3	.39886	12.990	.99988	1.0025	.98410	.50620	.99465
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		5.0000					
Range		10.000%					

Elem	Zn2062
Units	ppm
Avg	**.99797**
Stddev	.00127
%RSD	.12728
#1	.99651
#2	.99858
#3	.99883
Check ?	Chk Pass
Value	
Range	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13083.**	**23649.**
Stddev	43.	13.
%RSD	.33200	.05651
#1	13125.	23663.
#2	13085.	23647.
#3	13038.	23636.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCB Acquired: 6/29/2012 12:22:27 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**-.00040**	**.00168**	**.00459**	**.00034**	**-.00001**	**.00523**
Stddev	.00054	.00448	.00237	.00040	.00011	.00002	.01218
%RSD	191.37	1121.8	141.11	8.6294	32.664	130.74	232.97
#1	-.00031	-.00455	.00361	.00469	.00021	-.00001	.01678
#2	.00027	-.00099	-.00096	.00493	.00042	-.00003	.00640
#3	-.00080	.00435	.00239	.00415	.00038	.00000	-.00750
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00034**	F **.00763**	**.00005**	**.02308**	**.01174**	**-.00133**
Stddev	.00013	.00014	.00040	.00009	.00459	.05352	.00060
%RSD	403.95	41.740	5.2781	198.50	19.891	455.79	45.426
#1	-.00018	.00023	.00776	-.00006	.02079	-.03622	-.00132
#2	.00002	.00028	.00795	.00010	.02837	.00197	-.00073
#3	.00006	.00049	.00718	.00009	.02009	.06948	-.00193
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.00300				
Low Limit			-.00300				

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00333**	**-.00432**	**.00081**	**.01881**	**-.00223**	**-.00080**	**-.00052**
Stddev	.01692	.00023	.00032	.00373	.00086	.00024	.00065
%RSD	507.50	5.2220	39.146	19.800	38.614	30.209	126.21
#1	.02225	-.00406	.00082	.01919	-.00308	-.00102	-.00126
#2	-.01035	-.00448	.00112	.02234	-.00227	-.00054	-.00022
#3	-.00190	-.00442	.00048	.01491	-.00135	-.00084	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: CCB Acquired: 6/29/2012 12:22:27 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00438**	F **1.4977**	**.00109**	**.00006**	**.00207**	**.00173**	**.00050**
Stddev	.00540	.1287	.00032	.00002	.00175	.00221	.00020
%RSD	123.29	8.5931	28.849	25.245	84.174	127.42	39.817
#1	-.00619	1.5307	.00073	.00007	.00285	.00325	.00073
#2	.00169	1.6066	.00128	.00007	.00008	-.00080	.00037
#3	-.00863	1.3557	.00127	.00004	.00330	.00275	.00041
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1.0000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.00009**
Stddev	.00009
%RSD	105.70
#1	.00016
#2	.00013
#3	-.00002
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13030.**	**23474.**
Stddev	28.	78.
%RSD	.21709	.33207
#1	13054.	23534.
#2	13037.	23503.
#3	12999.	23386.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206078111 Acquired: 6/29/2012 12:25:54 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00577**	**94.973**	**.09003**	**.28784**	**.36587**	**.00573**	**59.693**
Stddev	.00021	2.763	.00183	.00325	.01821	.00006	2.998
%RSD	3.6647	2.9094	2.0299	1.1281	4.9769	.97265	5.0220
#1	.00575	91.974	.08798	.28414	.34539	.00566	56.322
#2	.00557	95.530	.09063	.29024	.37198	.00575	60.698
#3	.00599	97.416	.09148	.28913	.38024	.00577	62.060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00209**	**.07652**	**.08989**	**.65398**	**113.99**	**13.423**	**.21183**
Stddev	.00022	.00020	.00199	.00310	5.88	.678	.01065
%RSD	10.665	.25633	2.2164	.47352	5.1566	5.0478	5.0297
#1	.00192	.07640	.09220	.65755	107.41	12.653	.19953
#2	.00234	.07641	.08871	.65195	115.85	13.688	.21828
#3	.00201	.07674	.08878	.65246	118.72	13.929	.21767
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**45.451**	**16.458**	**.04406**	**61.414**	**.12885**	**.42282**	**.00740**
Stddev	2.363	.828	.00033	3.003	.00499	.00170	.00130
%RSD	5.1981	5.0290	.74569	4.8891	3.8741	.40120	17.622
#1	42.793	15.530	.04422	58.045	.12459	.42087	.00885
#2	46.245	16.722	.04368	62.393	.12761	.42371	.00632
#3	47.313	17.121	.04428	63.806	.13434	.42389	.00703
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206078111 Acquired: 6/29/2012 12:25:54 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01126**	F **544.10**	**.01136**	**.94984**	**.45158**	**-.00228**	**.32292**
Stddev	.00169	1.95	.00015	.04739	.02474	.00132	.00073
%RSD	14.990	.35920	1.3107	4.9891	5.4776	58.006	.22582
#1	.00932	543.23	.01119	.89654	.42376	-.00166	.32226
#2	.01207	542.73	.01146	.96580	.45987	-.00138	.32279
#3	.01239	546.34	.01144	.98719	.47110	-.00380	.32370
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.60019**
Stddev	.00031
%RSD	.05093
#1	.60025
#2	.59986
#3	.60046
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12814.**	**24785.**
Stddev	22.	689.
%RSD	.17264	2.7790
#1	12788.	25542.
#2	12823.	24618.
#3	12829.	24195.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206078112 Acquired: 6/29/2012 12:29:11 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00335**	**33.689**	**.03912**	**.21606**	**.18808**	**.00229**	**43.821**
Stddev	.00035	.496	.00153	.00117	.00529	.00003	1.281
%RSD	10.369	1.4721	3.9094	.53934	2.8117	1.2747	2.9234
#1	.00373	33.140	.03839	.21604	.18203	.00227	42.364
#2	.00306	33.821	.03809	.21490	.19038	.00228	44.330
#3	.00324	34.106	.04087	.21724	.19184	.00233	44.770
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00082**	**.03351**	**.01520**	**.32731**	**46.232**	**8.5158**	**.05570**
Stddev	.00022	.00014	.00100	.00073	1.307	.2786	.00201
%RSD	27.409	.41738	6.5943	.22157	2.8278	3.2709	3.6147
#1	.00107	.03335	.01629	.32649	44.728	8.1967	.05362
#2	.00075	.03354	.01432	.32785	46.872	8.6403	.05584
#3	.00063	.03363	.01499	.32761	47.096	8.7103	.05764
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**32.038**	**8.2313**	**.01901**	**55.855**	**.04966**	**.38761**	**.00523**
Stddev	.911	.2371	.00031	1.689	.00098	.00272	.00334
%RSD	2.8450	2.8799	1.6229	3.0247	1.9653	.70287	63.954
#1	30.994	7.9604	.01891	53.925	.04927	.39066	.00215
#2	32.446	8.3331	.01877	56.572	.04894	.38541	.00475
#3	32.675	8.4005	.01936	57.067	.05077	.38677	.00878
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206078112 Acquired: 6/29/2012 12:29:11 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00764**	F **481.03**	**.00651**	**.67179**	**.26127**	**-.00016**	**.14536**
Stddev	.00406	.94	.00057	.01961	.00809	.00335	.00063
%RSD	53.215	.19482	8.8111	2.9193	3.0977	2140.2	.43632
#1	.00467	480.15	.00680	.64935	.25195	.00321	.14608
#2	.00597	480.92	.00585	.68035	.26526	-.00019	.14489
#3	.01227	482.02	.00689	.68566	.26658	-.00349	.14511
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.29610**
Stddev	.00070
%RSD	.23570
#1	.29598
#2	.29548
#3	.29686
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12708.**	**24027.**
Stddev	12.	378.
%RSD	.09054	1.5750
#1	12699.	24460.
#2	12721.	23862.
#3	12705.	23759.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206078113 Acquired: 6/29/2012 12:32:30 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00272**	**13.920**	**.01844**	**.05526**	**.08495**	**.00096**	**13.079**
Stddev	.00029	.318	.00104	.00110	.00269	.00002	.362
%RSD	10.781	2.2857	5.6282	1.9990	3.1626	2.3255	2.7651
#1	.00251	13.559	.01757	.05415	.08185	.00098	12.663
#2	.00305	14.043	.01959	.05529	.08628	.00094	13.264
#3	.00258	14.158	.01816	.05635	.08670	.00097	13.312
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**.00414**	**.02912**	**.03138**	**26.690**	**3.1162**	**.02022**
Stddev	.00009	.00014	.00025	.00052	.827	.0614	.00075
%RSD	21.629	3.3722	.84383	1.6672	3.0967	1.9701	3.7132
#1	.00033	.00409	.02911	.03079	25.742	3.0461	.01951
#2	.00037	.00430	.02938	.03158	27.068	3.1606	.02014
#3	.00050	.00403	.02889	.03177	27.259	3.1419	.02101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.472**	**.42722**	**.00498**	**15.777**	**.00992**	**.26848**	**.00139**
Stddev	.325	.00502	.00022	.422	.00212	.00054	.00167
%RSD	3.1034	1.1747	4.4307	2.6775	21.337	.20069	120.60
#1	10.100	.42218	.00514	15.291	.00830	.26805	.00147
#2	10.622	.43222	.00473	15.984	.00915	.26832	.00302
#3	10.695	.42726	.00507	16.056	.01231	.26909	-.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206078113 Acquired: 6/29/2012 12:32:30 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00430**	F **361.28**	**.00512**	**.22558**	**.24012**	**-.00382**	**.09247**
Stddev	.00442	.89	.00024	.00628	.01222	.00154	.00045
%RSD	102.64	.24673	4.6450	2.7835	5.0872	40.461	.48730
#1	.00205	360.73	.00505	.21837	.22844	-.00268	.09253
#2	.00147	360.80	.00493	.22853	.23911	-.00320	.09199
#3	.00939	362.31	.00539	.22985	.25281	-.00558	.09289
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.07286**
Stddev	.00027
%RSD	.36766
#1	.07264
#2	.07278
#3	.07316
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12805.**	**23970.**
Stddev	12.	514.
%RSD	.09613	2.1454
#1	12799.	24560.
#2	12797.	23730.
#3	12819.	23620.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206078114 Acquired: 6/29/2012 12:35:51 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00211**	**9.5169**	**.01329**	**.02312**	**.05169**	**.00055**	**4.9907**
Stddev	.00061	.1798	.00225	.00070	.00168	.00001	.1651
%RSD	29.189	1.8892	16.932	3.0088	3.2572	2.2709	3.3072
#1	.00154	9.3126	.01155	.02261	.04977	.00055	4.8030
#2	.00276	9.5872	.01249	.02391	.05239	.00053	5.0559
#3	.00202	9.6509	.01583	.02284	.05290	.00056	5.1131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.00229**	**.03061**	**.02186**	**21.008**	**1.8063**	**.00717**
Stddev	.00006	.00022	.00026	.00032	.686	.1027	.00129
%RSD	17.937	9.7951	.85901	1.4537	3.2651	5.6848	17.969
#1	.00029	.00255	.03039	.02208	20.226	1.6877	.00580
#2	.00029	.00211	.03055	.02150	21.291	1.8632	.00734
#3	.00039	.00222	.03090	.02201	21.507	1.8679	.00836
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.0639**	**.12468**	**.00329**	**6.8532**	**.00477**	**.18890**	**.00349**
Stddev	.0933	.00436	.00013	.2041	.00153	.00115	.00301
%RSD	3.0449	3.5003	4.0907	2.9777	32.114	.61084	86.387
#1	2.9583	.11990	.00345	6.6209	.00345	.19022	.00499
#2	3.0985	.12568	.00321	6.9352	.00442	.18840	.00002
#3	3.1350	.12845	.00321	7.0035	.00645	.18808	.00546
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206078114 Acquired: 6/29/2012 12:35:51 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00054**	F **298.15**	**.00476**	**.07982**	**.20761**	**-.00295**	**.06787**
Stddev	.00150	.54	.00025	.00234	.00672	.00150	.00036
%RSD	276.59	.18149	5.2892	2.9297	3.2367	50.771	.53609
#1	-.00179	298.74	.00449	.07715	.20063	-.00124	.06828
#2	.00112	298.02	.00482	.08077	.20817	-.00358	.06758
#3	-.00095	297.68	.00499	.08152	.21403	-.00402	.06776
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.05281**
Stddev	.00014
%RSD	.27076
#1	.05294
#2	.05266
#3	.05284
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12803.**	**23914.**
Stddev	36.	455.
%RSD	.28249	1.9008
#1	12761.	24430.
#2	12826.	23734.
#3	12821.	23576.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206078115 Acquired: 6/29/2012 12:39:14 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00290**	**19.201**	**.02298**	**.02288**	**.08441**	**.00082**	**1.4929**
Stddev	.00034	.389	.00072	.00103	.00276	.00004	.0589
%RSD	11.772	2.0254	3.1318	4.5057	3.2649	5.4053	3.9447
#1	.00328	18.758	.02335	.02169	.08133	.00081	1.4250
#2	.00261	19.362	.02344	.02345	.08529	.00078	1.5293
#3	.00282	19.484	.02215	.02350	.08662	.00086	1.5245
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.00370**	**.04411**	**.01670**	**46.457**	**2.0267**	**.01480**
Stddev	.00018	.00029	.00086	.00048	1.722	.1242	.00091
%RSD	82.464	7.8857	1.9450	2.8508	3.7070	6.1288	6.1549
#1	.00002	.00403	.04360	.01706	44.500	1.8947	.01385
#2	.00027	.00355	.04510	.01689	47.129	2.0441	.01489
#3	.00037	.00351	.04362	.01616	47.741	2.1412	.01566
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.6703**	**.20810**	**.00464**	**.95209**	**.00666**	**.66834**	**.00298**
Stddev	.0755	.00761	.00017	.01887	.00030	.00522	.00295
%RSD	2.8270	3.6550	3.6105	1.9818	4.4618	.78051	98.932
#1	2.5842	.19960	.00473	.93033	.00682	.67244	.00524
#2	2.7014	.21044	.00473	.96392	.00684	.66247	-.00035
#3	2.7253	.21427	.00444	.96202	.00631	.67010	.00405
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206078115 Acquired: 6/29/2012 12:39:14 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00341**	F **398.76**	**.00624**	**.03656**	**.24209**	**-.00081**	**.13859**
Stddev	.00313	.30	.00043	.00112	.00802	.00068	.00071
%RSD	91.668	.07539	6.8653	3.0750	3.3127	83.717	.50938
#1	.00404	398.64	.00593	.03529	.23313	-.00007	.13826
#2	.00002	398.55	.00605	.03699	.24453	-.00096	.13940
#3	.00618	399.11	.00672	.03742	.24861	-.00140	.13811
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.07852**
Stddev	.00040
%RSD	.51342
#1	.07875
#2	.07805
#3	.07876
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12914.**	**24079.**
Stddev	26.	458.
%RSD	.20421	1.9012
#1	12940.	24589.
#2	12888.	23942.
#3	12915.	23705.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206078116 Acquired: 6/29/2012 12:42:36 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00171**	**11.953**	**.01902**	**.03888**	**.06030**	**.00088**	**10.642**
Stddev	.00095	.234	.00179	.00112	.00275	.00007	.428
%RSD	55.581	1.9549	9.4267	2.8714	4.5600	7.3931	4.0194
#1	.00253	11.688	.02098	.04001	.05731	.00086	10.159
#2	.00067	12.044	.01863	.03778	.06087	.00084	10.794
#3	.00192	12.128	.01745	.03885	.06272	.00096	10.973
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.00332**	**.03536**	**.02783**	**21.887**	**3.0005**	**.01342**
Stddev	.00013	.00039	.00050	.00020	.862	.1699	.00225
%RSD	34.135	11.638	1.4263	.73311	3.9394	5.6617	16.765
#1	.00054	.00374	.03516	.02761	20.912	2.8099	.01239
#2	.00035	.00324	.03498	.02801	22.200	3.0558	.01601
#3	.00028	.00299	.03593	.02787	22.548	3.1359	.01188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.7608**	**.40268**	**.00428**	**12.096**	**.00712**	**.63314**	**.03670**
Stddev	.3520	.01661	.00016	.471	.00043	.00056	.00116
%RSD	4.5354	4.1246	3.8297	3.8933	5.9725	.08917	3.1660
#1	7.3671	.38391	.00426	11.570	.00699	.63252	.03802
#2	7.8701	.40865	.00445	12.242	.00759	.63363	.03624
#3	8.0452	.41548	.00413	12.477	.00677	.63325	.03583
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206078116 Acquired: 6/29/2012 12:42:36 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00186**	F **337.87**	**.00453**	**.17027**	**.19247**	**-.00259**	**.06581**
Stddev	.00193	.58	.00040	.00697	.00814	.00105	.00028
%RSD	103.58	.17093	8.8004	4.0947	4.2301	40.681	.42689
#1	.00392	337.89	.00414	.16246	.18401	-.00207	.06612
#2	.00010	338.44	.00494	.17247	.19314	-.00380	.06574
#3	.00156	337.29	.00450	.17588	.20026	-.00189	.06556
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.07375**
Stddev	.00020
%RSD	.26588
#1	.07363
#2	.07364
#3	.07397
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12771.**	**24065.**
Stddev	25.	455.
%RSD	.19475	1.8896
#1	12778.	24578.
#2	12792.	23905.
#3	12743.	23712.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206078117 Acquired: 6/29/2012 12:45:57 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00225**	**7.3050**	**.01579**	**.05586**	**.04759**	**.00052**	**10.158**
Stddev	.00035	.1609	.00060	.00160	.00147	.00005	.334
%RSD	15.401	2.2023	3.7720	2.8557	3.0824	10.039	3.2856
#1	.00261	7.1203	.01547	.05406	.04594	.00053	9.7787
#2	.00221	7.3797	.01542	.05711	.04811	.00057	10.291
#3	.00192	7.4150	.01648	.05640	.04873	.00046	10.405
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**.00264**	**.03221**	**.04499**	**14.106**	**2.8036**	**.01034**
Stddev	.00011	.00024	.00033	.00097	.498	.0846	.00081
%RSD	32.118	9.2795	1.0225	2.1555	3.5333	3.0165	7.8187
#1	.00042	.00253	.03183	.04436	13.535	2.7061	.01124
#2	.00022	.00247	.03241	.04611	14.329	2.8563	.01009
#3	.00040	.00292	.03239	.04451	14.454	2.8484	.00968
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**7.6440**	**.34788**	**.00682**	**18.298**	**.00470**	**2.8185**	**.02158**
Stddev	.2541	.01148	.00013	.612	.00042	.0006	.00064
%RSD	3.3241	3.3009	1.8612	3.3419	8.8635	.02067	2.9724
#1	7.3585	.33472	.00683	17.602	.00515	2.8178	.02230
#2	7.7285	.35306	.00694	18.549	.00432	2.8186	.02134
#3	7.8452	.35586	.00668	18.745	.00463	2.8189	.02108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206078117 Acquired: 6/29/2012 12:45:57 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00259**	F **271.10**	**.00433**	**.16142**	**.24359**	**-.00217**	**.08131**
Stddev	.00290	1.55	.00043	.00517	.00859	.00110	.00072
%RSD	112.08	.57120	9.9984	3.2005	3.5268	50.412	.88691
#1	.00395	272.73	.00458	.15555	.23375	-.00219	.08062
#2	.00456	269.65	.00458	.16347	.24743	-.00107	.08125
#3	-.00074	270.93	.00383	.16525	.24959	-.00327	.08206
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.04390**
Stddev	.00014
%RSD	.31076
#1	.04389
#2	.04403
#3	.04376
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12794.**	**23796.**
Stddev	7.	436.
%RSD	.05611	1.8310
#1	12797.	24299.
#2	12786.	23543.
#3	12799.	23547.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206078118 Acquired: 6/29/2012 12:49:19 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00293**	**12.095**	**.01428**	**.06642**	**.05849**	**.00072**	**13.875**
Stddev	.00046	.258	.00245	.00144	.00195	.00002	.464
%RSD	15.862	2.1371	17.125	2.1728	3.3340	2.6439	3.3444
#1	.00262	11.798	.01145	.06604	.05625	.00071	13.345
#2	.00346	12.219	.01571	.06801	.05946	.00074	14.071
#3	.00270	12.268	.01567	.06520	.05977	.00071	14.209
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**.00645**	**.04033**	**.07545**	**18.591**	**3.6383**	**.02153**
Stddev	.00009	.00013	.00102	.00056	.649	.1603	.00109
%RSD	24.119	2.0099	2.5356	.73898	3.4921	4.4054	5.0468
#1	.00033	.00651	.03952	.07576	17.851	3.4625	.02029
#2	.00045	.00630	.03999	.07480	18.861	3.7763	.02196
#3	.00028	.00654	.04148	.07578	19.062	3.6761	.02233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.025**	**.98359**	**.00696**	**22.025**	**.01041**	**1.7031**	**.01363**
Stddev	.380	.03510	.00013	.744	.00086	.0061	.00127
%RSD	3.7947	3.5689	1.8977	3.3775	8.2841	.35572	9.3137
#1	9.5878	.94332	.00708	21.178	.00943	1.6977	.01397
#2	10.209	.99970	.00682	22.324	.01103	1.7021	.01468
#3	10.279	1.0077	.00698	22.573	.01077	1.7096	.01222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206078118 Acquired: 6/29/2012 12:49:19 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00139**	F **350.30**	**.00435**	**.22601**	**.26961**	**-.00158**	**.08319**
Stddev	.00465	1.09	.00012	.00738	.00858	.00175	.00044
%RSD	335.22	.31095	2.7193	3.2668	3.1841	111.08	.52763
#1	.00218	349.55	.00422	.21754	.26002	-.00233	.08361
#2	.00031	349.79	.00443	.22938	.27221	.00043	.08274
#3	-.00664	351.55	.00441	.23111	.27659	-.00283	.08321
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.07504**
Stddev	.00002
%RSD	.03000
#1	.07506
#2	.07501
#3	.07503
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12775.**	**23879.**
Stddev	12.	459.
%RSD	.09088	1.9216
#1	12764.	24408.
#2	12775.	23635.
#3	12787.	23592.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206078119 Acquired: 6/29/2012 12:52:39 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00384**	**47.547**	**.14704**	**.18278**	**.18268**	**.00280**	**44.384**
Stddev	.00080	.801	.00257	.00162	.00558	.00005	1.399
%RSD	20.936	1.6857	1.7446	.88525	3.0569	1.7305	3.1520
#1	.00433	46.675	.14410	.18136	.17635	.00277	42.797
#2	.00428	47.713	.14821	.18454	.18478	.00276	44.916
#3	.00291	48.252	.14881	.18245	.18691	.00285	45.439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00187**	**.03805**	**.03248**	**.37758**	**55.159**	**7.2216**	**.07331**
Stddev	.00013	.00019	.00032	.00094	1.751	.2125	.00332
%RSD	6.7368	.49072	.98748	.24889	3.1735	2.9423	4.5344
#1	.00201	.03795	.03284	.37821	53.170	6.9802	.06971
#2	.00177	.03793	.03222	.37650	55.844	7.3046	.07626
#3	.00183	.03826	.03239	.37803	56.464	7.3801	.07396
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**32.056**	**9.7302**	**.01964**	**54.429**	**.07136**	**.37095**	**.00493**
Stddev	1.047	.2955	.00018	1.657	.00130	.00153	.00306
%RSD	3.2666	3.0371	.89286	3.0436	1.8286	.41120	62.142
#1	30.869	9.3967	.01981	52.555	.07011	.37017	.00146
#2	32.448	9.8345	.01946	55.032	.07127	.36996	.00724
#3	32.850	9.9595	.01966	55.700	.07272	.37270	.00609
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206078119 Acquired: 6/29/2012 12:52:39 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00796**	F **454.48**	**.00768**	**.70113**	**.30501**	**-.00036**	**.20666**
Stddev	.00421	.58	.00017	.02132	.00973	.00123	.00110
%RSD	52.878	.12767	2.2274	3.0411	3.1912	340.53	.53221
#1	.00815	455.02	.00781	.67698	.29392	-.00022	.20541
#2	.01208	453.87	.00749	.70905	.30895	.00079	.20709
#3	.00366	454.54	.00773	.71736	.31215	-.00166	.20748
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.25652**
Stddev	.00040
%RSD	.15752
#1	.25606
#2	.25668
#3	.25681
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12750.**	**24057.**
Stddev	22.	357.
%RSD	.17614	1.4859
#1	12771.	24451.
#2	12727.	23970.
#3	12753.	23752.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206078120 Acquired: 6/29/2012 12:55:56 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00398**	**57.113**	**.15154**	**.22892**	**.22566**	**.00345**	**52.775**
Stddev	.00090	1.117	.00334	.00139	.00762	.00002	1.793
%RSD	22.531	1.9557	2.2065	.60692	3.3765	.70586	3.3965
#1	.00356	55.846	.14789	.23013	.21693	.00348	50.735
#2	.00501	57.535	.15225	.22740	.22908	.00343	53.493
#3	.00337	57.957	.15446	.22922	.23097	.00346	54.097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00186**	**.04827**	**.04346**	**.50365**	**69.382**	**9.3324**	**.09132**
Stddev	.00015	.00038	.00176	.00066	2.326	.2979	.00292
%RSD	7.8062	.77850	4.0579	.13098	3.3521	3.1922	3.1966
#1	.00193	.04804	.04549	.50439	66.732	9.0002	.09076
#2	.00169	.04807	.04231	.50312	70.330	9.4210	.08872
#3	.00195	.04870	.04258	.50344	71.084	9.5760	.09448
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.647**	**11.028**	**.02310**	**66.462**	**.07836**	**.27908**	**.00351**
Stddev	1.492	.374	.00012	2.160	.00178	.00108	.00191
%RSD	3.7629	3.3900	.52966	3.2507	2.2736	.38560	54.521
#1	37.958	10.602	.02324	64.004	.07691	.27803	.00145
#2	40.197	11.181	.02302	67.323	.07783	.27904	.00523
#3	40.785	11.300	.02305	68.059	.08035	.28018	.00385
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206078120 Acquired: 6/29/2012 12:55:56 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01111**	F **433.98**	**.00905**	**.83115**	**.35276**	**.00019**	**.22936**
Stddev	.00054	1.77	.00023	.02782	.01242	.00173	.00053
%RSD	4.8423	.40743	2.5149	3.3477	3.5206	914.47	.23311
#1	.01109	435.66	.00884	.79942	.33939	-.00080	.22955
#2	.01165	434.14	.00929	.84262	.35496	-.00082	.22876
#3	.01058	432.13	.00903	.85140	.36393	.00218	.22977
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.30997**
Stddev	.00042
%RSD	.13694
#1	.31036
#2	.30952
#3	.31003
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12707.**	**23997.**
Stddev	12.	463.
%RSD	.09315	1.9283
#1	12694.	24524.
#2	12716.	23811.
#3	12712.	23657.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 12:59:15 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39822**	**10.045**	**.40026**	**.49118**	**1.0217**	**.04989**	**10.352**
Stddev	.00090	.091	.00439	.00237	.0056	.00008	.360
%RSD	.22556	.90449	1.0957	.48175	.54628	.15875	3.4804
#1	.39721	10.142	.40527	.49233	1.0280	.04986	10.766
#2	.39850	10.028	.39836	.48846	1.0198	.04984	10.179
#3	.39894	9.9630	.39714	.49276	1.0173	.04999	10.111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04966**	**.20044**	**.50790**	**.50254**	**4.3449**	**52.442**	**1.0515**
Stddev	.00021	.00062	.00132	.00037	.4458	.305	.0088
%RSD	.42616	.30997	.26077	.07341	10.259	.58221	.83552
#1	.04987	.20030	.50704	.50296	4.8583	52.780	1.0615
#2	.04966	.20113	.50723	.50238	4.1195	52.357	1.0476
#3	.04944	.19991	.50942	.50228	4.0568	52.187	1.0452
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.9984**	**.54669**	**.99509**	**52.688**	**.50872**	**.50232**	**1.1975**
Stddev	.2599	.07063	.00139	.582	.00098	.00237	.0013
%RSD	2.5992	12.919	.13927	1.1039	.19236	.47151	.11096
#1	10.298	.62818	.99602	53.356	.50768	.50494	1.1966
#2	9.8665	.50876	.99576	52.419	.50962	.50033	1.1990
#3	9.8310	.50313	.99350	52.291	.50886	.50169	1.1969
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 12:59:15 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40496**	F **12.155**	**1.0002**	**1.0053**	**.98981**	**.50104**	**.98435**
Stddev	.00215	.297	.0011	.0088	.00684	.00173	.00168
%RSD	.53068	2.4461	.10825	.87465	.69068	.34571	.17030
#1	.40253	11.815	1.0010	1.0153	.99734	.50075	.98418
#2	.40660	12.369	1.0007	1.0014	.98811	.49947	.98277
#3	.40576	12.280	.99900	.99906	.98399	.50290	.98611
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		5.0000					
Range		10.000%					

Elem	Zn2062
Units	ppm
Avg	**.99731**
Stddev	.00008
%RSD	.00844
#1	.99740
#2	.99724
#3	.99729
Check ?	Chk Pass
Value	
Range	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13174.**	**23463.**
Stddev	25.	203.
%RSD	.18649	.86375
#1	13196.	23235.
#2	13178.	23533.
#3	13148.	23622.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCB Acquired: 6/29/2012 13:02:29 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00042**	**-.00110**	**-.00113**	**-.00183**	**.00008**	**.00002**	**.01447**
Stddev	.00046	.00269	.00234	.00012	.00009	.00004	.00582
%RSD	109.48	244.11	207.07	6.7548	107.44	186.77	40.234
#1	-.00095	-.00404	-.00269	-.00190	.00012	.00000	.00855
#2	-.00018	.00124	-.00225	-.00191	-.00002	.00000	.01467
#3	-.00013	-.00050	.00156	-.00169	.00015	.00007	.02018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00040**	F **.01612**	**-.00028**	**.04261**	**-.02285**	**.00256**
Stddev	.00005	.00033	.00095	.00062	.00449	.05754	.00138
%RSD	576.89	84.012	5.9088	221.58	10.545	251.87	54.035
#1	-.00003	.00002	.01514	-.00065	.03785	-.08004	.00123
#2	.00005	.00065	.01618	.00044	.04320	.03504	.00400
#3	-.00004	.00052	.01705	-.00063	.04677	-.02354	.00246
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.00300				
Low Limit			-.00300				

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01359**	**-.00326**	**.00051**	**.03540**	**.00318**	**-.00261**	**-.00140**
Stddev	.01008	.00028	.00018	.01197	.00159	.00143	.00205
%RSD	74.199	8.5547	35.948	33.808	50.113	54.673	146.04
#1	.02094	-.00355	.00030	.04372	.00139	-.00212	-.00372
#2	.01773	-.00324	.00061	.02168	.00369	-.00149	.00018
#3	.00209	-.00299	.00064	.04080	.00445	-.00421	-.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: CCB Acquired: 6/29/2012 13:02:29 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00572**	F **1.3855**	**.00133**	**-.00005**	**.00313**	**-.00036**	**.00024**
Stddev	.00058	.5812	.00041	.00012	.00083	.00219	.00029
%RSD	10.201	41.944	30.782	221.21	26.631	603.19	119.36
#1	-.00569	.93076	.00161	-.00020	.00280	-.00157	-.00007
#2	-.00631	1.1856	.00086	.00002	.00408	-.00169	.00050
#3	-.00515	2.0403	.00153	.00001	.00251	.00216	.00029
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1.0000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.00009**
Stddev	.00013
%RSD	138.65
#1	.00003
#2	.00001
#3	.00024
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13201.**	**24007.**
Stddev	21.	106.
%RSD	.16040	.44207
#1	13223.	24125.
#2	13201.	23919.
#3	13180.	23978.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206081410 Acquired: 6/29/2012 13:05:57 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00313**	**23.801**	**.05025**	**.09037**	**.08616**	**.00166**	**19.115**
Stddev	.00052	.603	.00031	.00049	.00418	.00002	.915
%RSD	16.551	2.5338	.61086	.54185	4.8550	1.3209	4.7883
#1	.00353	23.152	.04999	.08981	.08145	.00164	18.092
#2	.00254	23.909	.05017	.09071	.08758	.00165	19.397
#3	.00331	24.343	.05059	.09060	.08945	.00168	19.856
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00087**	**.01650**	**.04372**	**.17446**	**28.341**	**4.4776**	**.03938**
Stddev	.00013	.00004	.00368	.00013	1.366	.2328	.00142
%RSD	14.728	.22804	8.4215	.07615	4.8217	5.1980	3.6079
#1	.00102	.01646	.04783	.17454	26.802	4.2161	.04087
#2	.00077	.01651	.04259	.17430	28.808	4.5546	.03923
#3	.00083	.01653	.04074	.17453	29.413	4.6622	.03804
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**14.113**	**3.8530**	**.01615**	**28.080**	**.03668**	**1.5201**	**.03811**
Stddev	.689	.1899	.00030	1.365	.00247	.0021	.00104
%RSD	4.8818	4.9294	1.8350	4.8608	6.7354	.13748	2.7208
#1	13.354	3.6417	.01601	26.544	.03476	1.5222	.03929
#2	14.287	3.9079	.01595	28.544	.03580	1.5181	.03768
#3	14.698	4.0094	.01649	29.153	.03946	1.5201	.03735
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206081410 Acquired: 6/29/2012 13:05:57 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00278**	F **350.23**	**.00585**	**.30224**	**.21959**	**-.00043**	**.16492**
Stddev	.00657	.09	.00083	.01486	.01118	.00114	.00104
%RSD	236.52	.02604	14.180	4.9152	5.0914	261.91	.62823
#1	.00273	350.33	.00657	.28560	.20692	.00070	.16605
#2	-.00377	350.15	.00494	.30695	.22376	-.00157	.16402
#3	.00938	350.22	.00604	.31418	.22808	-.00043	.16468
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.16555**
Stddev	.00031
%RSD	.18782
#1	.16562
#2	.16582
#3	.16521
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12738.**	**24587.**
Stddev	28.	680.
%RSD	.22182	2.7654
#1	12707.	25348.
#2	12761.	24372.
#3	12748.	24039.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206081411 Acquired: 6/29/2012 13:09:16 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00219**	**13.332**	**.01874**	**.10440**	**.06986**	**.00087**	**21.218**
Stddev	.00126	.267	.00058	.00051	.00186	.00001	.720
%RSD	57.478	2.0039	3.0871	.48953	2.6579	.65462	3.3934
#1	.00311	13.024	.01819	.10392	.06773	.00087	20.397
#2	.00270	13.467	.01867	.10494	.07073	.00086	21.515
#3	.00075	13.504	.01934	.10433	.07112	.00087	21.742
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**.00750**	**.01944**	**.09265**	**21.118**	**3.5811**	**.02677**
Stddev	.00010	.00011	.00045	.00053	.723	.1001	.00041
%RSD	16.951	1.4534	2.3055	.56761	3.4217	2.7960	1.5346
#1	.00048	.00754	.01974	.09269	20.291	3.4655	.02635
#2	.00056	.00760	.01893	.09210	21.439	3.6417	.02679
#3	.00068	.00738	.01966	.09315	21.625	3.6360	.02717
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**15.357**	**1.9011**	**.01053**	**27.028**	**.01412**	**.18879**	**.00203**
Stddev	.573	.0610	.00006	.900	.00027	.00075	.00262
%RSD	3.7321	3.2101	.59266	3.3296	1.9193	.39471	128.89
#1	14.703	1.8313	.01057	26.006	.01402	.18801	.00376
#2	15.599	1.9277	.01046	27.376	.01391	.18949	-.00098
#3	15.770	1.9443	.01057	27.703	.01442	.18886	.00332
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206081411 Acquired: 6/29/2012 13:09:16 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00492**	F **354.02**	**.00412**	**.32315**	**.18676**	**-.00210**	**.10229**
Stddev	.00498	.69	.00069	.01096	.00576	.00102	.00064
%RSD	101.18	.19501	16.782	3.3924	3.0831	48.576	.62976
#1	.01046	354.14	.00351	.31062	.18013	-.00138	.10303
#2	.00353	354.65	.00487	.32785	.18976	-.00327	.10190
#3	.00079	353.28	.00399	.33098	.19041	-.00166	.10193
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.08098**
Stddev	.00036
%RSD	.45068
#1	.08112
#2	.08056
#3	.08124
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12743.**	**23948.**
Stddev	38.	533.
%RSD	.29974	2.2257
#1	12700.	24564.
#2	12758.	23638.
#3	12772.	23643.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206081701 Acquired: 6/29/2012 13:12:37 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.00856**	**72.436**	**.05025**	**.03510**	**.85171**	**.01236**	**38.882**
Stddev	.00043	.708	.00034	.00292	.02315	.00002	1.050
%RSD	5.0230	.97734	.68587	8.3288	2.7176	.12703	2.6994
#1	-.00900	71.639	.04985	.03198	.82539	.01234	37.687
#2	-.00814	72.991	.05048	.03556	.86083	.01237	39.310
#3	-.00853	72.679	.05041	.03777	.86890	.01235	39.651
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000						
Low Limit	-.00400						

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.05926**	**.04566**	**.04968**	**198.76**	**29.178**	**.13589**
Stddev	.00001	.00026	.00135	.00140	5.32	.805	.00456
%RSD	3.2883	.43210	2.9585	2.8247	2.6762	2.7580	3.3592
#1	-.00022	.05934	.04721	.05106	192.72	28.264	.13094
#2	-.00022	.05898	.04478	.04974	200.82	29.488	.13678
#3	-.00021	.05947	.04498	.04825	202.74	29.781	.13994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**37.604**	**5.2643**	**.00610**	**.55311**	**.06034**	**.25417**	**-.00189**
Stddev	.949	.1439	.00020	.01901	.00046	.00075	.00254
%RSD	2.5232	2.7330	3.3269	3.4376	.76294	.29564	134.07
#1	36.537	5.1004	.00587	.57236	.06027	.25497	.00099
#2	37.920	5.3227	.00624	.55262	.05992	.25347	-.00288
#3	38.354	5.3698	.00620	.53435	.06084	.25408	-.00379
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206081701 Acquired: 6/29/2012 13:12:37 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00874**	F **419.95**	**.01705**	**.22205**	**.38157**	**-.01657**	**.22065**
Stddev	.00148	.72	.00043	.00584	.01066	.00196	.00026
%RSD	16.876	.17185	2.5417	2.6313	2.7924	11.808	.11724
#1	-.01033	420.77	.01669	.21537	.36927	-.01533	.22037
#2	-.00847	419.40	.01753	.22455	.38790	-.01882	.22072
#3	-.00742	419.69	.01694	.22623	.38755	-.01554	.22087
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.59833**
Stddev	.00012
%RSD	.01956
#1	.59835
#2	.59821
#3	.59844
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**15365.**	**28825.**
Stddev	21.	290.
%RSD	.13589	1.0071
#1	15376.	29135.
#2	15341.	28559.
#3	15378.	28783.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206081702 Acquired: 6/29/2012 13:15:56 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.00603**	**73.841**	**.05061**	**.03823**	**.84828**	**.01167**	**56.558**
Stddev	.00044	1.054	.00168	.00376	.02275	.00006	1.570
%RSD	7.2578	1.4271	3.3233	9.8238	2.6823	.48666	2.7752
#1	-.00614	72.670	.05088	.03409	.82228	.01162	54.769
#2	-.00640	74.139	.05213	.03919	.85801	.01165	57.202
#3	-.00555	74.713	.04880	.04142	.86455	.01173	57.703
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000						
Low Limit	-.00400						

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.06009**	**.04995**	**.05349**	**198.50**	**26.321**	**.12729**
Stddev	.00012	.00020	.00083	.00142	5.38	.705	.00346
%RSD	68.872	.32598	1.6710	2.6584	2.7113	2.6766	2.7221
#1	-.00017	.06030	.05081	.05497	192.35	25.521	.12351
#2	-.00005	.05991	.04914	.05338	200.76	26.593	.12804
#3	-.00029	.06006	.04990	.05213	202.38	26.850	.13031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.586**	**4.8518**	**.00700**	**.54813**	**.07780**	**.21747**	**-.00244**
Stddev	1.084	.1290	.00018	.01987	.00039	.00123	.00220
%RSD	2.7383	2.6580	2.5547	3.6242	.50524	.56568	90.374
#1	38.351	4.7051	.00720	.52833	.07775	.21889	.00000
#2	40.027	4.9026	.00694	.54800	.07743	.21671	-.00304
#3	40.380	4.9476	.00685	.56806	.07821	.21681	-.00428
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206081702 Acquired: 6/29/2012 13:15:56 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00896**	F **478.68**	**.01636**	**.28256**	**.48279**	**-.01387**	**.22149**
Stddev	.00175	.31	.00010	.00779	.01348	.00158	.00042
%RSD	19.516	.06477	.60038	2.7562	2.7917	11.370	.18928
#1	-.01097	478.33	.01644	.27367	.46733	-.01340	.22147
#2	-.00787	478.84	.01639	.28580	.48895	-.01257	.22191
#3	-.00802	478.88	.01625	.28820	.49208	-.01562	.22108
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.60231**
Stddev	.00028
%RSD	.04625
#1	.60263
#2	.60215
#3	.60215
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**15120.**	**28447.**
Stddev	27.	352.
%RSD	.17829	1.2360
#1	15096.	28835.
#2	15115.	28358.
#3	15149.	28149.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206081703 Acquired: 6/29/2012 13:19:13 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.00789**	**68.586**	**.04784**	**.03595**	**.67260**	**.01042**	**26.262**
Stddev	.00076	.781	.00223	.00269	.01682	.00010	.633
%RSD	9.5757	1.1391	4.6581	7.4711	2.5009	.94782	2.4120
#1	-.00863	67.710	.04944	.03285	.65332	.01031	25.538
#2	-.00792	68.835	.04530	.03746	.68015	.01045	26.538
#3	-.00712	69.212	.04878	.03755	.68432	.01051	26.711
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000						
Low Limit	-.00400						

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**.05475**	**.04814**	**.03541**	**194.56**	**22.922**	**.12914**
Stddev	.00015	.00033	.00092	.00097	4.82	.547	.00253
%RSD	38.489	.60625	1.9167	2.7362	2.4766	2.3867	1.9606
#1	-.00055	.05489	.04919	.03647	189.06	22.301	.12648
#2	-.00027	.05498	.04744	.03458	196.58	23.128	.13152
#3	-.00033	.05437	.04780	.03518	198.03	23.335	.12942
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**36.794**	**4.1299**	**.00772**	**.62973**	**.05574**	**.19195**	**-.00223**
Stddev	.954	.1030	.00056	.01878	.00063	.00105	.00305
%RSD	2.5935	2.4928	7.2983	2.9819	1.1250	.54480	136.81
#1	35.698	4.0136	.00799	.60829	.05512	.19236	.00065
#2	37.242	4.1669	.00809	.63763	.05571	.19076	-.00192
#3	37.441	4.2093	.00707	.64326	.05638	.19273	-.00543
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206081703 Acquired: 6/29/2012 13:19:13 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00727**	F **402.15**	**.01766**	**.19182**	**.57087**	**-.01681**	**.20889**
Stddev	.00142	.32	.00064	.00454	.01514	.00088	.00005
%RSD	19.546	.07836	3.6381	2.3688	2.6520	5.2123	.02358
#1	-.00867	402.07	.01741	.18664	.55354	-.01763	.20884
#2	-.00583	401.88	.01718	.19371	.57754	-.01589	.20894
#3	-.00732	402.50	.01839	.19512	.58153	-.01691	.20888
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.60261**
Stddev	.00111
%RSD	.18435
#1	.60153
#2	.60255
#3	.60375
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**15169.**	**28447.**
Stddev	17.	316.
%RSD	.11067	1.1091
#1	15188.	28793.
#2	15166.	28371.
#3	15155.	28175.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206081704 Acquired: 6/29/2012 13:22:31 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.00768**	**75.668**	**.04466**	**.03330**	**.77678**	**.01197**	**25.368**
Stddev	.00024	.917	.00093	.00292	.01902	.00003	.614
%RSD	3.0809	1.2115	2.0821	8.7620	2.4487	.28591	2.4201
#1	-.00794	74.610	.04362	.03061	.75511	.01194	24.667
#2	-.00748	76.166	.04496	.03289	.78451	.01201	25.629
#3	-.00760	76.228	.04541	.03640	.79073	.01196	25.809
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000						
Low Limit	-.00400						

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.06375**	**.04946**	**.04700**	**208.88**	**28.711**	**.13861**
Stddev	.00005	.00029	.00104	.00116	5.19	.693	.00516
%RSD	81.325	.45392	2.0964	2.4724	2.4844	2.4124	3.7214
#1	-.00012	.06373	.05053	.04831	202.95	27.928	.13301
#2	-.00006	.06405	.04941	.04608	211.08	28.962	.13968
#3	-.00001	.06347	.04846	.04662	212.61	29.243	.14316
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**39.482**	**5.2807**	**.00630**	**.57778**	**.06391**	**.46496**	**-.00261**
Stddev	.996	.1306	.00011	.02206	.00054	.00172	.00050
%RSD	2.5218	2.4734	1.6867	3.8189	.84125	.37079	19.057
#1	38.350	5.1318	.00632	.56188	.06414	.46691	-.00207
#2	39.877	5.3348	.00618	.56848	.06329	.46433	-.00305
#3	40.220	5.3757	.00639	.60297	.06429	.46363	-.00271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206081704 Acquired: 6/29/2012 13:22:31 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00708**	F **426.28**	**.01835**	**.17584**	**.55967**	**-.01538**	**.23004**
Stddev	.00409	.76	.00085	.00420	.01533	.00143	.00090
%RSD	57.681	.17799	4.6521	2.3879	2.7399	9.2920	.39299
#1	-.01158	425.55	.01913	.17107	.54223	-.01679	.22913
#2	-.00359	427.07	.01744	.17750	.56576	-.01393	.23093
#3	-.00609	426.21	.01850	.17896	.57103	-.01542	.23006
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.60926**
Stddev	.00049
%RSD	.08001
#1	.60872
#2	.60966
#3	.60942
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**15296.**	**28562.**
Stddev	26.	382.
%RSD	.17321	1.3380
#1	15313.	29003.
#2	15265.	28356.
#3	15310.	28328.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206081705 Acquired: 6/29/2012 13:25:49 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.00700**	**65.775**	**.04498**	**.03169**	**.65290**	**.01046**	**23.782**
Stddev	.00039	1.232	.00202	.00469	.01758	.00003	.671
%RSD	5.5664	1.8723	4.4959	14.812	2.6922	.29550	2.8219
#1	-.00663	64.355	.04279	.02628	.63300	.01050	23.018
#2	-.00697	66.417	.04537	.03412	.65937	.01045	24.048
#3	-.00741	66.552	.04678	.03467	.66632	.01044	24.279
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	9.0000						
Low Limit	-.00400						

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.05072**	**.03781**	**.04055**	**179.67**	**24.153**	**.11427**
Stddev	.00008	.00036	.00082	.00113	5.05	.629	.00308
%RSD	43.335	.71680	2.1793	2.7845	2.8116	2.6037	2.6984
#1	-.00024	.05114	.03874	.04184	173.92	23.436	.11152
#2	-.00009	.05052	.03717	.04010	181.75	24.407	.11369
#3	-.00019	.05050	.03751	.03973	183.36	24.615	.11760
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**30.940**	**4.3655**	**.00668**	**.60915**	**.05221**	**.20102**	**-.00077**
Stddev	.889	.1215	.00053	.00619	.00044	.00169	.00286
%RSD	2.8745	2.7841	7.9633	1.0159	.84285	.84268	370.08
#1	29.930	4.2270	.00610	.60365	.05266	.20297	-.00360
#2	31.282	4.4148	.00678	.61585	.05178	.19991	-.00084
#3	31.608	4.4545	.00715	.60795	.05221	.20018	.00212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206081705 Acquired: 6/29/2012 13:25:49 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00818**	F **309.05**	**.01527**	**.17427**	**.47589**	**-.01474**	**.19081**
Stddev	.00282	.42	.00012	.00468	.01289	.00117	.00047
%RSD	34.451	.13643	.80165	2.6871	2.7093	7.9190	.24604
#1	-.00574	308.57	.01514	.16892	.46107	-.01379	.19117
#2	-.01127	309.24	.01530	.17633	.48206	-.01605	.19028
#3	-.00754	309.34	.01538	.17758	.48454	-.01439	.19096
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.55000**
Stddev	.00098
%RSD	.17829
#1	.55022
#2	.55086
#3	.54893
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**14967.**	**27822.**
Stddev	29.	482.
%RSD	.19691	1.7329
#1	14937.	28379.
#2	14967.	27559.
#3	14996.	27529.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 13:29:06 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40009**	**9.9653**	**.40263**	**.49866**	**1.0225**	**.05035**	**10.185**
Stddev	.00217	.0693	.00297	.00138	.0023	.00026	.127
%RSD	.54349	.69586	.73850	.27772	.22338	.51801	1.2424
#1	.40176	10.032	.39974	.49891	1.0247	.05048	10.330
#2	.40089	9.9702	.40247	.49991	1.0202	.05051	10.099
#3	.39764	9.8936	.40568	.49717	1.0227	.05005	10.126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04996**	**.20074**	**.50976**	**.50414**	F **4.6907**	**52.450**	**1.0478**
Stddev	.00020	.00018	.00133	.00057	.9214	.150	.0048
%RSD	.39155	.08841	.26185	.11227	19.644	.28579	.46156
#1	.05003	.20062	.51092	.50366	5.7527	52.550	1.0472
#2	.04974	.20066	.51005	.50477	4.2167	52.277	1.0432
#3	.05011	.20094	.50830	.50400	4.1028	52.522	1.0529
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value					4.0000		
Range					10.000%		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.9788**	**.51704**	**.99740**	**52.366**	**.50951**	**.50360**	**1.1979**
Stddev	.1604	.01934	.00107	.085	.00122	.00212	.0036
%RSD	1.6073	3.7414	.10749	.16136	.23887	.42138	.30315
#1	10.164	.53925	.99836	52.406	.50967	.50116	1.1939
#2	9.8943	.50792	.99624	52.269	.50822	.50501	1.2010
#3	9.8782	.50393	.99760	52.424	.51064	.50464	1.1988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 13:29:06 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40633**	F **10.793**	**1.0038**	**1.0093**	**.98534**	**.50287**	**.99459**
Stddev	.00460	.169	.0017	.0014	.00202	.00276	.00270
%RSD	1.1323	1.5614	.17297	.13523	.20548	.54968	.27165
#1	.41034	10.763	1.0021	1.0097	.98764	.50167	.99676
#2	.40131	10.974	1.0055	1.0078	.98458	.50090	.99544
#3	.40735	10.641	1.0039	1.0104	.98381	.50603	.99156
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		5.0000					
Range		10.000%					

Elem	Zn2062
Units	ppm
Avg	**1.0008**
Stddev	.0004
%RSD	.04149
#1	1.0004
#2	1.0012
#3	1.0008
Check ?	Chk Pass
Value	
Range	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13121.**	**23745.**
Stddev	14.	73.
%RSD	.10769	.30851
#1	13120.	23662.
#2	13135.	23771.
#3	13107.	23802.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCB Acquired: 6/29/2012 13:32:21 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**-.00074**	**.00108**	**-.00184**	**.00004**	**.00002**	**.00648**
Stddev	.00031	.00321	.00089	.00070	.00010	.00003	.00429
%RSD	161.77	435.41	82.486	38.048	278.98	133.12	66.227
#1	.00032	-.00443	.00171	-.00103	.00013	.00004	.00246
#2	.00040	.00140	.00006	-.00227	-.00007	.00004	.00598
#3	-.00016	.00082	.00148	-.00223	.00005	-.00001	.01101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00042**	F **.01340**	**-.00054**	**.04142**	**-.01760**	**.00321**
Stddev	.00009	.00003	.00003	.00022	.00409	.02935	.00233
%RSD	214.22	7.8637	.25338	40.711	9.8761	166.75	72.576
#1	.00005	.00038	.01338	-.00057	.04247	-.00934	.00054
#2	-.00006	.00044	.01338	-.00030	.03691	-.05019	.00426
#3	-.00012	.00042	.01344	-.00074	.04488	.00673	.00484
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.00300				
Low Limit			-.00300				

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00372**	**-.00387**	**.00010**	**.02894**	**.00027**	**-.00178**	**.00235**
Stddev	.03441	.00025	.00028	.01484	.00149	.00137	.00068
%RSD	925.78	6.3493	282.31	51.295	551.87	77.306	28.961
#1	-.02978	-.00391	-.00021	.04047	-.00049	-.00020	.00166
#2	.00196	-.00410	.00018	.01219	-.00068	-.00274	.00236
#3	.03897	-.00361	.00033	.03416	.00198	-.00238	.00302
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: CCB Acquired: 6/29/2012 13:32:21 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00591**	**.76094**	**.00083**	**.00000**	**.00215**	**.00273**	**.00044**
Stddev	.00261	.25456	.00077	.00013	.00074	.00119	.00027
%RSD	44.248	33.453	92.564	4421.5	34.332	43.645	61.333
#1	-.00879	.51688	.00172	.00006	.00131	.00395	.00023
#2	-.00368	1.0248	.00034	.00009	.00246	.00266	.00034
#3	-.00525	.74111	.00043	-.00014	.00269	.00158	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	**.00014**
Stddev	.00004
%RSD	29.152
#1	.00010
#2	.00014
#3	.00017
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13078.**	**23541.**
Stddev	7.	38.
%RSD	.05576	.16048
#1	13085.	23559.
#2	13078.	23566.
#3	13070.	23497.

Approved: July 02, 2012
Pierre Morris

Sample Name: PBS 91 Acquired: 6/29/2012 13:35:50 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401972-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00327**	**-.00070**	**-.00347**	**.00033**	**.00000**	**.02150**
Stddev	.00023	.00086	.00277	.00008	.00020	.0000	.00043
%RSD	613.54	26.170	393.62	2.3744	58.961	1429.1	2.0128
#1	-.00025	.00378	.00221	-.00348	.00052	-.00003	.02122
#2	-.00007	.00376	-.00331	-.00339	.00036	-.00002	.02128
#3	.00021	.00228	-.00102	-.00355	.00013	.00004	.02200
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**-.00047**	**.00111**	**-.00014**	**-.00348**	**-.09103**	**.00290**
Stddev	.00010	.00047	.00106	.00090	.00706	.04282	.00172
%RSD	40.348	99.989	95.840	665.74	202.81	47.039	59.507
#1	.00029	-.00055	-.00005	-.00110	-.01094	-.13695	.00126
#2	.00013	-.00089	.00134	.00068	.00311	-.08394	.00470
#3	.00031	.00004	.00203	.00002	-.00263	-.05220	.00274
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00470**	F **-.00490**	**.00012**	**.02539**	**-.00199**	**-.00128**	**.00313**
Stddev	.00989	.00030	.00019	.01057	.00390	.00265	.00133
%RSD	210.27	6.0675	153.85	41.654	196.05	207.44	42.543
#1	.00909	-.00467	.00033	.01574	-.00478	-.00375	.00438
#2	-.00662	-.00523	-.00004	.03669	-.00365	-.00161	.00327
#3	.01165	-.00479	.00008	.02373	.00247	.00152	.00173
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		180.00					
Low Limit		-.00300					

Approved: July 02, 2012
Pierre Morris

Sample Name: PBS 91 Acquired: 6/29/2012 13:35:50 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401972-02

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00146**	**2.7537**	**.00021**	**.00016**	**.00217**	**-.00229**	**-.00005**
Stddev	.00345	.6380	.00057	.00007	.00076	.00200	.00028
%RSD	236.19	23.169	277.67	41.475	35.195	87.155	589.57
#1	.00252	2.4451	.00086	.00017	.00287	-.00162	.00027
#2	-.00352	2.3287	-.00004	.00022	.00136	-.00454	-.00027
#3	-.00338	3.4874	-.00020	.00009	.00229	-.00072	-.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	**.00181**
Stddev	.00004
%RSD	2.2030
#1	.00185
#2	.00182
#3	.00177
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12700.**	**23910.**
Stddev	47.	582.
%RSD	.37213	2.4344
#1	12698.	24543.
#2	12748.	23790.
#3	12653.	23398.

Approved: July 02, 2012
Pierre Morris

Sample Name: LCSS 91 Acquired: 6/29/2012 13:39:18 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: ~~WG401972-04~~ WG401972-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20209**	**4.5183**	**.18652**	**.93927**	**.49091**	**.02456**	**4.8014**
Stddev	.00140	.0688	.00183	.00906	.01362	.00025	.1233
%RSD	.69112	1.5217	.98001	.96495	2.7739	1.0031	2.5677
#1	.20370	4.4582	.18567	.94911	.47541	.02483	4.6641
#2	.20131	4.5034	.18862	.93127	.49637	.02437	4.8374
#3	.20125	4.5933	.18528	.93742	.50095	.02446	4.9027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02384**	**.09802**	**.25947**	**.24097**	**1.9406**	**24.854**	**.50868**
Stddev	.00018	.00017	.00393	.00019	.0478	.751	.01401
%RSD	.77024	.17294	1.5138	.08057	2.4659	3.0230	2.7538
#1	.02383	.09784	.26401	.24096	1.8859	23.994	.49293
#2	.02367	.09805	.25709	.24116	1.9612	25.192	.51339
#3	.02403	.09818	.25732	.24078	1.9746	25.378	.51973
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.7319**	**.23681**	**.51315**	**25.372**	**.24792**	**.24339**	**.56355**
Stddev	.1119	.00677	.00098	.730	.00118	.00146	.00429
%RSD	2.3654	2.8571	.19163	2.8767	.47541	.59864	.76211
#1	4.6058	.22919	.51202	24.545	.24806	.24342	.55973
#2	4.7703	.23914	.51376	25.642	.24902	.24192	.56820
#3	4.8195	.24211	.51368	25.928	.24668	.24484	.56273
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: LCSS 91 Acquired: 6/29/2012 13:39:18 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: ~~WG401972-04~~ WG401972-03

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18756**	F **612.95**	**.00215**	**.48052**	**.46888**	**.24223**	**.49647**
Stddev	.00241	1.43	.00056	.01414	.01128	.00203	.00596
%RSD	1.2854	.23252	26.277	2.9424	2.4048	.83945	1.1995
#1	.18915	611.85	.00172	.46441	.45606	.24062	.50325
#2	.18873	612.43	.00194	.48624	.47335	.24156	.49207
#3	.18478	614.56	.00279	.49090	.47724	.24452	.49410
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.48271**
Stddev	.00035
%RSD	.07183
#1	.48291
#2	.48231
#3	.48292
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12550.**	**23314.**
Stddev	73.	447.
%RSD	.57937	1.9170
#1	12466.	23796.
#2	12600.	23232.
#3	12583.	22914.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206091101 Acquired: 6/29/2012 13:42:33 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01472**	**30.323**	**.11938**	**.86816**	**6.9462**	**.00074**	**404.77**
Stddev	.00068	.706	.00463	.00735	.1457	.00005	17.61
%RSD	4.6485	2.3277	3.8770	.84694	2.0976	6.8910	4.3513
#1	.01407	29.735	.11430	.87553	6.7797	.00070	385.73
#2	.01467	30.129	.12336	.86814	7.0083	.00080	408.11
#3	.01544	31.106	.12047	.86082	7.0505	.00074	420.47
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00813**	**1.1231**	**9.3591**	**.31802**	**223.23**	**2.1566**	**.04983**
Stddev	.00017	.0024	.1309	.00076	5.05	.0560	.00146
%RSD	2.1092	.21388	1.3988	.23937	2.2607	2.5947	2.9287
#1	.00797	1.1258	9.4996	.31888	217.51	2.0927	.05041
#2	.00831	1.1214	9.3369	.31775	225.10	2.1804	.04817
#3	.00810	1.1220	9.2406	.31742	227.07	2.1968	.05091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.010**	**2.1738**	**.17874**	**1.1358**	**.10753**	**23.305**	**.02836**
Stddev	.267	.0470	.00040	.0401	.00112	.015	.00159
%RSD	2.6677	2.1611	.22605	3.5261	1.0461	.06514	5.6111
#1	9.7146	2.1208	.17829	1.1812	.10649	23.292	.02652
#2	10.079	2.1904	.17906	1.1206	.10737	23.301	.02931
#3	10.235	2.2103	.17887	1.1056	.10872	23.322	.02925
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206091101 Acquired: 6/29/2012 13:42:33 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00405**	F **206.95**	**.21868**	**4.3356**	**1.9918**	**.00338**	**.01762**
Stddev	.00234	.50	.00083	.0554	.0451	.00026	.00014
%RSD	57.706	.24038	.37820	1.2789	2.2644	7.5604	.79945
#1	.00261	206.38	.21904	4.2862	1.9403	.00332	.01747
#2	.00675	207.31	.21774	4.3956	2.0105	.00366	.01775
#3	.00280	207.16	.21927	4.3252	2.0245	.00316	.01765
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	F **49.261**
Stddev	.073
%RSD	.14895
#1	49.345
#2	49.213
#3	49.224
Check ?	Chk Fail
High Limit	45.000
Low Limit	-.01000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**11866.**	**23245.**
Stddev	77.	743.
%RSD	.65130	3.1972
#1	11777.	23886.
#2	11914.	23417.
#3	11908.	22430.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080434 Acquired: 6/29/2012 13:46:03 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01664**	**162.63**	**.20643**	**.11308**	**3.5895**	**.01510**	**689.26**
Stddev	.00028	2.83	.00210	.00475	.0678	.00001	27.68
%RSD	1.6695	1.7373	1.0187	4.1983	1.8896	.09558	4.0163
#1	.01671	159.44	.20737	.10811	3.5121	.01508	657.59
#2	.01633	163.67	.20790	.11358	3.6180	.01510	708.87
#3	.01687	164.80	.20402	.11756	3.6385	.01511	701.32
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04340**	**.14668**	**.25538**	**.49792**	**358.83**	**27.614**	**.12882**
Stddev	.00014	.00064	.00311	.00162	7.94	.665	.00373
%RSD	.31363	.43311	1.2189	.32496	2.2125	2.4098	2.8976
#1	.04334	.14618	.25896	.49979	349.79	26.863	.12457
#2	.04330	.14647	.25330	.49695	362.01	27.849	.13155
#3	.04356	.14740	.25388	.49703	364.68	28.130	.13036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**52.740**	**8.7019**	**.02044**	**1.0909**	**.27896**	**3.1519**	**.01606**
Stddev	1.353	.2002	.00021	.0367	.00480	.0033	.00215
%RSD	2.5648	2.3011	1.0061	3.3673	1.7203	.10486	13.365
#1	51.197	8.4745	.02058	1.0494	.27526	3.1513	.01361
#2	53.302	8.7797	.02020	1.1042	.27725	3.1554	.01761
#3	53.722	8.8516	.02053	1.1191	.28438	3.1489	.01696
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080434 Acquired: 6/29/2012 13:46:03 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00424**	F **622.61**	**.17861**	**4.0706**	**.17122**	**.00276**	**.39233**
Stddev	.00505	2.09	.00057	.0500	.00164	.00117	.00104
%RSD	118.96	.33573	.31744	1.2290	.95685	42.371	.26481
#1	.00059	625.00	.17920	4.0136	.16961	.00411	.39124
#2	.00214	621.12	.17806	4.1072	.17288	.00213	.39243
#3	.01001	621.70	.17858	4.0911	.17117	.00204	.39331
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**8.6777**
Stddev	.0081
%RSD	.09283
#1	8.6787
#2	8.6692
#3	8.6852
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12908.**	**24999.**
Stddev	8.	347.
%RSD	.06115	1.3870
#1	12899.	25399.
#2	12912.	24810.
#3	12914.	24788.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080434PS Acquired: 6/29/2012 13:49:44 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG402084-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01697**	**163.58**	**.21284**	**.11617**	**3.5751**	**.01522**	**686.58**
Stddev	.00055	3.29	.00433	.00459	.0796	.00002	23.37
%RSD	3.2128	2.0134	2.0351	3.9499	2.2266	.15677	3.4033
#1	.01686	159.85	.20888	.11092	3.4839	.01519	659.74
#2	.01649	164.81	.21217	.11822	3.6104	.01523	702.32
#3	.01757	166.09	.21746	.11938	3.6309	.01524	697.70
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04379**	**.14902**	**.22520**	**.50314**	**358.14**	**27.815**	**.13441**
Stddev	.00028	.00199	.00059	.00178	8.36	.709	.00178
%RSD	.63120	1.3321	.26185	.35319	2.3342	2.5496	1.3235
#1	.04352	.14724	.22546	.50183	348.53	27.008	.13236
#2	.04380	.14867	.22452	.50241	362.12	28.098	.13541
#3	.04407	.15116	.22561	.50516	363.75	28.338	.13547
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**52.943**	**8.7130**	**.03658**	**1.1972**	**.27235**	**3.1482**	**.03456**
Stddev	1.235	.2032	.01107	.0332	.00635	.0076	.01129
%RSD	2.3323	2.3325	30.266	2.7740	2.3317	.24125	32.658
#1	51.520	8.4799	.02704	1.1594	.26766	3.1455	.02778
#2	53.576	8.8059	.03398	1.2108	.26981	3.1567	.02831
#3	53.732	8.8531	.04872	1.2215	.27957	3.1422	.04759
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080434PS Acquired: 6/29/2012 13:49:44 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG402084-01

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01434**	F **638.26**	**.17744**	**4.0827**	**.16865**	**.00979**	**.39602**
Stddev	.01060	7.28	.00071	.0655	.00521	.00265	.00187
%RSD	73.909	1.1408	.40097	1.6041	3.0892	27.086	.47277
#1	.01574	631.37	.17825	4.0072	.16324	.00686	.39444
#2	.02417	637.53	.17697	4.1233	.16908	.01049	.39553
#3	.00311	645.88	.17708	4.1177	.17363	.01202	.39808
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**8.6495**
Stddev	.0147
%RSD	.17012
#1	8.6556
#2	8.6603
#3	8.6328
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12957.**	**25054.**
Stddev	19.	438.
%RSD	.14742	1.7486
#1	12974.	25560.
#2	12961.	24785.
#3	12936.	24818.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080434DL Acquired: 6/29/2012 13:53:25 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG402084-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00414**	**34.615**	**.04186**	**.02283**	**.75208**	**.00312**	**152.32**
Stddev	.00036	.460	.00114	.00178	.03122	.00006	6.39
%RSD	8.7851	1.3292	2.7158	7.8030	4.1506	1.7862	4.1948
#1	.00437	35.120	.04309	.02488	.78793	.00310	159.65
#2	.00372	34.504	.04165	.02190	.73736	.00308	149.36
#3	.00433	34.221	.04084	.02170	.73094	.00319	147.94
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00884**	**.03160**	**.16257**	**.10480**	**79.111**	**5.7201**	**.03085**
Stddev	.00003	.00017	.00213	.00037	3.494	.1639	.00092
%RSD	.36935	.53726	1.3103	.34955	4.4165	2.8648	2.9923
#1	.00881	.03176	.16378	.10438	83.120	5.9063	.03027
#2	.00884	.03160	.16382	.10496	77.504	5.6560	.03037
#3	.00887	.03142	.16011	.10505	76.710	5.5979	.03191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**11.862**	**1.9200**	**.00460**	**.25235**	**.08797**	**.67402**	**.00260**
Stddev	.487	.0802	.00034	.00915	.00778	.00257	.00108
%RSD	4.1056	4.1767	7.4035	3.6256	8.8424	.38067	41.713
#1	12.419	2.0123	.00494	.25531	.09566	.67302	.00339
#2	11.650	1.8802	.00426	.25966	.08815	.67211	.00136
#3	11.517	1.8675	.00460	.24209	.08010	.67694	.00305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080434DL Acquired: 6/29/2012 13:53:25 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG402084-02

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00337**	F **127.22**	**.03538**	**.87390**	**.03767**	**.00547**	**.07949**
Stddev	.00581	.13	.00101	.03658	.00216	.00082	.00031
%RSD	172.25	.10216	2.8681	4.1857	5.7433	15.069	.38983
#1	-.01004	127.15	.03561	.91587	.03971	.00629	.07983
#2	-.00068	127.14	.03427	.85697	.03540	.00464	.07943
#3	.00061	127.37	.03626	.84884	.03790	.00548	.07922
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**1.8994**
Stddev	.0019
%RSD	.09830
#1	1.8975
#2	1.9012
#3	1.8994
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13665.**	**24696.**
Stddev	31.	250.
%RSD	.22411	1.0127
#1	13700.	24413.
#2	13650.	24788.
#3	13644.	24887.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080434DL Acquired: 6/29/2012 13:56:42 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG402084-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00111**	**6.6366**	**.00784**	**.00098**	**.14560**	**.00059**	**29.214**	**.00174**
Stddev	.00027	.0428	.00160	.00068	.00028	.00002	.048	.00009
%RSD	24.275	.64441	20.380	69.520	.19066	3.5627	.16428	5.2948
#1	.00134	6.5878	.00969	.00145	.14564	.00057	29.169	.00171
#2	.00116	6.6548	.00704	.00129	.14531	.00061	29.265	.00166
#3	.00082	6.6673	.00681	.00020	.14586	.00060	29.209	.00184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00631**	**.02400**	**.02114**	**15.329**	**1.0068**	**.00894**	**2.3118**	**.37001**
Stddev	.00006	.00070	.00082	.017	.0415	.00135	.0060	.00039
%RSD	.99910	2.8997	3.8734	.11369	4.1164	15.073	.25859	.10429
#1	.00627	.02468	.02021	15.349	.95965	.00739	2.3185	.36974
#2	.00639	.02405	.02174	15.319	1.0236	.00982	2.3097	.37045
#3	.00629	.02329	.02148	15.319	1.0373	.00962	2.3071	.36983
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	**.06632**	**.01170**	**.13376**	**-.00079**	**-.00146**	**23.939**	**.00534**
Stddev	.00015	.00263	.00147	.00252	.00049	.00178	.168	.00064
%RSD	20.506	3.9720	12.551	1.8845	62.505	121.89	.70313	11.994
#1	.00087	.06498	.01071	.13382	-.00032	.00059	24.023	.00592
#2	.00057	.06935	.01100	.13625	-.00073	-.00257	23.746	.00466
#3	.00073	.06462	.01339	.13121	-.00130	-.00241	24.049	.00544
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080434DL Acquired: 6/29/2012 13:56:42 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: 25 Custom ID2: Custom ID3:
Comment: WG402084-02

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.16804**	**.00906**	**.00491**	**.01567**	**.39431**
Stddev	.00014	.00093	.00206	.00048	.00020
%RSD	.08374	10.280	41.829	3.0857	.04972
#1	.16801	.01014	.00636	.01621	.39409
#2	.16791	.00848	.00256	.01529	.39447
#3	.16819	.00857	.00582	.01550	.39435
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13714.**	**24691.**
Stddev	7.	125.
%RSD	.04944	.50624
#1	13713.	24835.
#2	13707.	24630.
#3	13721.	24608.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080444 Acquired: 6/29/2012 14:00:05 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401972-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k **.00145**	s **.06283**	k **.00074**	k **-.00596**	s **.00121**	k **.00014**
Stddev	.00021	.03327	.00048	.00016	.00245	.00002
%RSD	14.645	52.956	64.188	2.6880	202.94	15.467
#1	.00132	.06734	.00037	-.00612	.00400	.00013
#2	k .00133	s .02753	k .00058	k -.00597	s .00020	k .00012
#3	.00169	.09361	.00128	-.00580	-.00058	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Ca4226	Cd2288	Co2286	Cr2677	Cu2247	Fe2611
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s **-.04687**	k **-.00032**	k **.00021**	k **-.00181**	k **.00061**	s **-.00728**
Stddev	.11244	.00018	.00026	.00017	.00082	.00961
%RSD	239.89	57.149	122.97	9.3862	133.83	132.02
#1	-.17622	-.00051	.00000	-.00196	.00009	.00379
#2	s .00806	k -.00014	k .00014	k -.00185	k .00019	s -.01220
#3	.02754	-.00033	.00050	-.00162	.00155	-.01343
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s **.15092**	s **.00369**	s **-.03132**	sF **-.00413**	k **-.00048**	s **-.11703**
Stddev	.69406	.00210	.05718	.00272	.00024	.29219
%RSD	459.90	57.107	182.58	65.921	49.869	249.66
#1	.94764	.00126	-.09597	-.00099	-.00076	-.45301
#2	s -.17233	s .00503	s .01261	s -.00554	k -.00036	s .02420
#3	-.32256	.00477	-.01060	-.00585	-.00032	.07771
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				180.00		
Low Limit				-.00300		

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080444 Acquired: 6/29/2012 14:00:05 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401972-01

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k **-.00522**	k **.00685**	k **.00172**	k **-.00375**	F **-7.0161**	k **-.00112**
Stddev	.00079	.00468	.00086	.00156	1.2623	.00008
%RSD	15.138	68.410	49.988	41.722	17.991	6.9079
#1	-.00609	.00158	.00088	-.00368	-8.4540	-.00104
#2	k -.00500	k .00842	k .00260	k -.00222	-6.5033	k -.00114
#3	-.00456	.01054	.00167	-.00534	-6.0909	-.00119
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					72.000	
Low Limit					-1.0000	

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	s **.00010**	s **-.00235**	k **.00509**	k **.00019**	k **.01758**
Stddev	.00034	.00938	.00050	.00026	.01188
%RSD	342.41	398.46	9.7561	139.65	67.571
#1	.00049	-.01305	.00451	-.00011	.00491
#2	s -.00007	s .00153	k .00538	k .00037	k .01936
#3	-.00013	.00446	.00536	.00031	.02846
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**24446.**	^ *****
Stddev	1073.	-----
%RSD	4.3879	-----
#1	25648.	6485.1
#2	24104.	^ -----
#3	23585.	50233.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080445S Acquired: 6/29/2012 14:03:29 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401972-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21584**	**59.321**	**.44875**	**.94108**	**1.8760**	**.02779**	F **3032.1**
Stddev	.00132	.606	.00225	.00107	.0400	.00012	76.0
%RSD	.60936	1.0209	.50067	.11332	2.1314	.44109	2.5053
#1	.21716	58.632	.44695	.94149	1.8366	.02792	2945.0
#2	.21583	59.565	.44804	.93987	1.8749	.02778	3067.2
#3	.21453	59.767	.45127	.94188	1.9165	.02767	3084.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06092**	**.14589**	**.32879**	**.95990**	**214.11**	**36.730**	**.60887**
Stddev	.00002	.00031	.00286	.00317	4.58	.812	.01414
%RSD	.03639	.21113	.87105	.33025	2.1378	2.2120	2.3224
#1	.06095	.14579	.33180	.96262	209.46	35.914	.59432
#2	.06090	.14624	.32848	.96066	214.24	36.737	.60974
#3	.06093	.14565	.32610	.95642	218.62	37.539	.62256
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**102.56**	**6.3240**	**.47303**	**26.400**	**.40678**	**10.311**	**.60615**
Stddev	2.44	.1360	.00093	.580	.00122	.008	.00206
%RSD	2.3742	2.1510	.19640	2.1971	.29997	.07395	.33951
#1	100.06	6.1870	.47271	25.814	.40810	10.316	.60729
#2	102.70	6.3261	.47408	26.412	.40569	10.302	.60377
#3	104.93	6.4590	.47231	26.974	.40657	10.315	.60739
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080445S Acquired: 6/29/2012 14:03:29 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401972-04

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19162**	F **1980.1**	**.27591**	F **17.627**	**.60225**	**.20254**	**.65084**
Stddev	.00374	4.7	.00159	.515	.01301	.00150	.00240
%RSD	1.9532	.23943	.57781	2.9219	2.1603	.74189	.36894
#1	.19152	1985.4	.27717	17.078	.59041	.20365	.65245
#2	.19541	1978.8	.27646	17.704	.60015	.20083	.65198
#3	.18793	1976.2	.27412	18.100	.61618	.20315	.64808
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000		4.5000			
Low Limit		-1.0000		-.01000			

Elem	Zn2062
Units	ppm
Avg	**7.2452**
Stddev	.0072
%RSD	.09881
#1	7.2448
#2	7.2526
#3	7.2383
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**11623.**	**23202.**
Stddev	49.	232.
%RSD	.41811	1.0004
#1	11572.	23464.
#2	11627.	23124.
#3	11669.	23020.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080446SD Acquired: 6/29/2012 14:07:00 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401972-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.22093**	**48.972**	**.37867**	**.95563**	**1.9874**	**.02750**	F **3635.1**
Stddev	.00090	.150	.00191	.00248	.0225	.00019	73.6
%RSD	.40919	.30673	.50468	.25958	1.1295	.70145	2.0236
#1	.22084	48.901	.37700	.95469	1.9623	.02754	3554.3
#2	.22008	49.145	.38075	.95375	1.9944	.02767	3653.1
#3	.22188	48.870	.37825	.95844	2.0056	.02729	3698.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05496**	**.14698**	**.30873**	**.88032**	**175.11**	**36.039**	**.64377**
Stddev	.00036	.00030	.00206	.00051	1.74	.507	.00746
%RSD	.65658	.20717	.66678	.05813	.99471	1.4066	1.1595
#1	.05455	.14683	.30798	.87979	173.15	35.478	.63582
#2	.05509	.14733	.31106	.88081	175.70	36.173	.64487
#3	.05523	.14677	.30715	.88036	176.49	36.465	.65062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**115.39**	**6.9653**	**.47417**	**27.499**	**.40110**	**6.4412**	**.58152**
Stddev	1.38	.0732	.00161	.350	.00159	.0112	.00449
%RSD	1.1994	1.0510	.34014	1.2716	.39766	.17336	.77144
#1	113.83	6.8822	.47600	27.109	.39949	6.4418	.58401
#2	115.83	6.9933	.47358	27.606	.40112	6.4520	.58421
#3	116.49	7.0204	.47294	27.783	.40268	6.4297	.57634
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080446SD Acquired: 6/29/2012 14:07:00 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401972-05

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19438**	F **1947.9**	**.15789**	F **22.176**	**.53863**	**.20277**	**.63042**
Stddev	.00090	.5	.00040	.185	.00566	.00060	.00216
%RSD	.46501	.02370	.25067	.83312	1.0512	.29567	.34310
#1	.19358	1948.2	.15779	21.974	.53220	.20346	.62885
#2	.19536	1948.2	.15832	22.336	.54287	.20245	.63289
#3	.19419	1947.4	.15755	22.217	.54082	.20240	.62952
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000		4.5000			
Low Limit		-1.0000		-.01000			

Elem	Zn2062
Units	ppm
Avg	**6.3604**
Stddev	.0082
%RSD	.12888
#1	6.3509
#2	6.3649
#3	6.3653
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**11496.**	**22845.**
Stddev	19.	38.
%RSD	.16570	.16528
#1	11518.	22888.
#2	11483.	22821.
#3	11486.	22824.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 14:10:32 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40130**	**10.303**	**.40487**	**.50568**	**1.0686**	**.05115**	F **66.951**
Stddev	.00241	.197	.00351	.00275	.0331	.00016	50.257
%RSD	.59974	1.9116	.86622	.54410	3.1018	.30517	75.065
#1	.40356	10.498	.40150	.50883	1.1006	.05127	115.18
#2	.40156	10.305	.40463	.50441	1.0707	.05120	70.789
#3	.39877	10.105	.40850	.50379	1.0344	.05097	14.886
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							10.000
Range							10.000%

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04969**	**.19959**	**.50743**	**.50015**	F **6.4558**	**54.874**	**1.0820**
Stddev	.00015	.00041	.00072	.00152	1.9791	1.276	.0205
%RSD	.30293	.20633	.14167	.30387	30.656	2.3245	1.8957
#1	.04959	.19934	.50825	.49974	8.3182	56.103	1.1007
#2	.04986	.19935	.50713	.49887	6.6715	54.962	1.0854
#3	.04962	.20006	.50692	.50183	4.3777	53.557	1.0601
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value					4.0000		
Range					10.000%		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **11.742**	F **.60354**	**.99836**	**54.205**	**.51331**	**.50689**	**1.1917**
Stddev	1.370	.08110	.00189	1.142	.00158	.00355	.0035
%RSD	11.668	13.437	.18902	2.1072	.30769	.69977	.29469
#1	13.024	.68075	.99665	55.299	.51384	.51029	1.1895
#2	11.904	.61082	1.0004	54.295	.51455	.50717	1.1898
#3	10.298	.51905	.99806	53.020	.51153	.50321	1.1957
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000	.50000					
Range	10.000%	10.000%					

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 14:10:32 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40731**	F **12.453**	**1.0088**	F **1.2887**	**1.0063**	**.50580**	**1.0003**
Stddev	.00422	.467	.0011	.2391	.0186	.00394	.0027
%RSD	1.0365	3.7508	.10844	18.556	1.8517	.77824	.26609
#1	.40594	11.988	1.0092	1.5190	1.0244	.50532	1.0031
#2	.41205	12.449	1.0076	1.3056	1.0074	.50212	1.0000
#3	.40394	12.922	1.0097	1.0416	.98714	.50995	.99782
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		5.0000		1.0000			
Range		10.000%		10.000%			

Elem	Zn2062
Units	ppm
Avg	**.99587**
Stddev	.00090
%RSD	.09005
#1	.99689
#2	.99553
#3	.99520
Check ?	Chk Pass
Value	
Range	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13304.**	**23271.**
Stddev	21.	359.
%RSD	.15599	1.5445
#1	13306.	22905.
#2	13323.	23286.
#3	13282.	23624.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCB Acquired: 6/29/2012 14:13:46 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00147**	**-.00002**	**-.00116**	**.00024**	**.00002**	**.01651**
Stddev	.00065	.00237	.00080	.00043	.00012	.00004	.00661
%RSD	574.28	161.54	4022.9	36.701	50.112	176.17	40.002
#1	.00004	.00255	-.00056	-.00164	.00035	.00004	.00906
#2	.00044	-.00125	-.00040	-.00082	.00026	.00006	.02164
#3	-.00082	.00310	.00090	-.00103	.00011	-.00002	.01884
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00019**	F **.00356**	**-.00034**	**.00774**	**-.07788**	**.00366**
Stddev	.00002	.00044	.00038	.00037	.00595	.04619	.00125
%RSD	37.497	235.42	10.772	109.03	76.844	59.310	34.166
#1	-.00004	.00039	.00361	-.00054	.00158	-.07133	.00496
#2	-.00007	-.00032	.00392	.00009	.00819	-.12700	.00247
#3	-.00004	.00048	.00316	-.00057	.01346	-.03532	.00354
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.00300				
Low Limit			-.00300				

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00868**	**-.00435**	**.00023**	**.05105**	**-.00483**	**-.00138**	**.00212**
Stddev	.01284	.00065	.00027	.00549	.00031	.00200	.00301
%RSD	147.96	14.982	115.63	10.749	6.4959	145.25	141.68
#1	.00920	-.00372	-.00001	.05135	-.00506	-.00007	.00264
#2	-.00442	-.00431	.00052	.04542	-.00497	-.00369	-.00111
#3	.02126	-.00502	.00019	.05638	-.00448	-.00038	.00484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: CCB Acquired: 6/29/2012 14:13:46 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00252**	**.86375**	**.00012**	**.00012**	**.00228**	**.00282**	**-.00014**
Stddev	.00366	.36800	.00046	.00004	.00028	.00149	.00018
%RSD	145.47	42.604	376.97	35.435	12.350	53.083	131.56
#1	-.00583	1.2611	-.00018	.00008	.00196	.00116	-.00011
#2	-.00314	.53475	.00065	.00012	.00240	.00406	.00003
#3	.00142	.79536	-.00010	.00017	.00249	.00323	-.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	**.00169**
Stddev	.00024
%RSD	14.466
#1	.00181
#2	.00185
#3	.00141
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13366.**	**23725.**
Stddev	26.	73.
%RSD	.19731	.30634
#1	13377.	23689.
#2	13336.	23808.
#3	13385.	23677.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080444 Acquired: 6/29/2012 14:17:17 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401972-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01045**	**44.993**	**.20651**	**.08658**	**1.2502**	**.00528**	F **3378.6**
Stddev	.00066	.952	.00259	.00673	.0387	.00002	126.5
%RSD	6.3092	2.1167	1.2529	7.7720	3.0966	.39047	3.7428
#1	.01062	43.918	.20821	.07884	1.2060	.00526	3232.7
#2	.01100	45.330	.20779	.09105	1.2666	.00527	3456.3
#3	.00972	45.730	.20353	.08984	1.2780	.00530	3446.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03433**	**.06014**	**.10923**	**.71213**	**243.65**	**11.946**	**.12397**
Stddev	.00017	.00058	.00136	.00240	7.61	.464	.00714
%RSD	.48663	.95854	1.2433	.33669	3.1227	3.8846	5.7578
#1	.03452	.05966	.11075	.71465	234.95	11.423	.11659
#2	.03424	.05998	.10813	.70987	246.89	12.104	.12447
#3	.03423	.06078	.10881	.71188	249.09	12.310	.13084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**118.57**	**6.8002**	**.01786**	**1.8944**	**.19718**	**6.3347**	**.04419**
Stddev	3.72	.2108	.00027	.0522	.00063	.0075	.00238
%RSD	3.1341	3.0993	1.4994	2.7557	.31993	.11869	5.3929
#1	114.33	6.5595	.01817	1.8343	.19766	6.3268	.04433
#2	120.15	6.8893	.01774	1.9280	.19647	6.3355	.04175
#3	121.24	6.9518	.01768	1.9210	.19742	6.3417	.04651
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080444 Acquired: 6/29/2012 14:17:17 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401972-01

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00809**	F **645.41**	**.14182**	F **19.675**	**.14712**	**.00489**	**.16878**
Stddev	.00311	2.57	.00012	.781	.00378	.00348	.00089
%RSD	38.401	.39865	.08717	3.9719	2.5687	71.088	.52678
#1	.00454	647.23	.14194	18.798	.14286	.00156	.16777
#2	.00943	646.53	.14184	19.931	.14846	.00462	.16913
#3	.01030	642.46	.14169	20.297	.15005	.00850	.16945
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000		4.5000			
Low Limit		-1.0000		-.01000			

Elem	Zn2062
Units	ppm
Avg	**6.3111**
Stddev	.0057
%RSD	.09065
#1	6.3045
#2	6.3136
#3	6.3150
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**11689.**	**23521.**
Stddev	5.	444.
%RSD	.04212	1.8869
#1	11684.	24028.
#2	11691.	23331.
#3	11693.	23203.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 14:20:54 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39716**	**10.163**	**.40324**	**.50245**	**1.0502**	**.05104**	F **47.010**
Stddev	.00258	.186	.00404	.00133	.0234	.00013	44.951
%RSD	.65058	1.8335	1.0023	.26562	2.2290	.25634	95.621
#1	.39957	10.374	.39858	.50379	1.0768	.05109	97.502
#2	.39748	10.096	.40537	.50244	1.0411	.05114	32.183
#3	.39443	10.020	.40577	.50112	1.0327	.05089	11.345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							10.000
Range							10.000%

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04956**	**.19846**	**.50149**	**.49958**	F **6.4371**	**54.430**	**1.0724**
Stddev	.00025	.00056	.00096	.00024	2.7064	1.033	.0172
%RSD	.50255	.28258	.19192	.04783	42.044	1.8987	1.6047
#1	.04982	.19806	.50080	.49951	9.4633	55.605	1.0922
#2	.04933	.19910	.50259	.49939	5.5995	54.027	1.0626
#3	.04954	.19822	.50109	.49985	4.2486	53.659	1.0622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value					4.0000		
Range					10.000%		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **11.301**	F **.57646**	**.99842**	**53.612**	**.51333**	**.50597**	**1.1905**
Stddev	1.328	.07598	.00005	.890	.00059	.00025	.0056
%RSD	11.751	13.180	.00503	1.6598	.11534	.04951	.47453
#1	12.798	.66162	.99837	54.608	.51385	.50618	1.1851
#2	10.841	.55213	.99843	53.333	.51345	.50570	1.1963
#3	10.265	.51563	.99847	52.895	.51269	.50605	1.1899
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	10.000	.50000					
Range	10.000%	10.000%					

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 14:20:54 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40626**	F **11.161**	**1.0069**	F **1.1896**	**.99450**	**.50665**	**.99493**
Stddev	.00503	.120	.0017	.2049	.01099	.00097	.00262
%RSD	1.2373	1.0774	.17168	17.224	1.1052	.19135	.26350
#1	.41108	11.022	1.0089	1.4198	1.0067	.50606	.99751
#2	.40667	11.235	1.0060	1.1219	.99148	.50613	.99501
#3	.40105	11.225	1.0058	1.0272	.98533	.50777	.99227
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		5.0000		1.0000			
Range		10.000%		10.000%			

Elem	Zn2062
Units	ppm
Avg	**.99432**
Stddev	.00127
%RSD	.12815
#1	.99286
#2	.99515
#3	.99496
Check ?	Chk Pass
Value	
Range	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13341.**	**23454.**
Stddev	18.	336.
%RSD	.13706	1.4316
#1	13359.	23070.
#2	13323.	23598.
#3	13340.	23694.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCB Acquired: 6/29/2012 14:24:09 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00080**	**.00154**	**.00148**	**-.00194**	**-.00007**	**-.00002**	**.01521**	**-.00011**
Stddev	.00102	.00292	.00127	.00096	.00005	.00003	.00801	.00015
%RSD	127.41	189.23	86.273	49.538	63.384	149.88	52.680	129.28
#1	.00058	-.00125	.00031	-.00095	-.00011	.00002	.01803	.00001
#2	.00191	.00131	.00127	-.00199	-.00008	-.00004	.02142	-.00008
#3	-.00009	.00458	.00284	-.00287	-.00002	-.00004	.00617	-.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00168**	**-.00105**	**.00531**	**-.09877**	**.00367**	**.00828**	**-.00415**
Stddev	.00018	.00047	.00015	.00206	.02584	.00118	.01874	.00026
%RSD	164.57	27.761	14.517	38.786	26.163	32.210	226.25	6.3723
#1	-.00006	.00221	-.00122	.00345	-.10682	.00288	.01007	-.00427
#2	-.00031	.00150	-.00101	.00495	-.11963	.00503	.02606	-.00433
#3	.00004	.00133	-.00092	.00752	-.06986	.00311	-.01129	-.00385
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.04855**	**-.00589**	**-.00248**	**.00196**	**-.00262**	**.57950**	**.00006**
Stddev	.00024	.00395	.00064	.00451	.00213	.00434	.11200	.00017
%RSD	94.937	8.1403	10.887	181.93	108.56	165.68	19.327	301.72
#1	.00044	.04478	-.00526	-.00479	.00093	-.00002	.46267	.00021
#2	-.00002	.05266	-.00654	.00272	.00441	-.00020	.58988	.00010
#3	.00035	.04819	-.00587	-.00537	.00054	-.00763	.68595	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Approved: July 02, 2012
Pierre Morris

Sample Name: CCB Acquired: 6/29/2012 14:24:09 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00254**	**.00203**	**-.00035**	**.00183**
Stddev	.00002	.00016	.00053	.00029	.00005
%RSD	57.626	6.2428	26.322	84.678	2.6550
#1	.00005	.00256	.00263	-.00027	.00188
#2	.00002	.00269	.00162	-.00010	.00182
#3	.00001	.00237	.00183	-.00067	.00178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13306.**	**23516.**
Stddev	7.	59.
%RSD	.05445	.24904
#1	13307.	23453.
#2	13313.	23568.
#3	13298.	23529.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080435 Acquired: 6/29/2012 14:27:37 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01052**	**165.01**	**.21974**	**.09442**	**3.3374**	**.01510**	**422.08**
Stddev	.00051	4.10	.00209	.00757	.1247	.00004	14.31
%RSD	4.8560	2.4864	.95288	8.0165	3.7352	.27493	3.3902
#1	.01038	160.58	.21804	.08596	3.1969	.01515	405.66
#2	.01010	165.77	.21911	.09676	3.3805	.01507	428.75
#3	.01109	168.68	.22208	.10055	3.4348	.01509	431.84
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02563**	**.11802**	**.22279**	**.41851**	**329.06**	**24.468**	**.12287**
Stddev	.00016	.00029	.00213	.00354	12.58	.953	.00625
%RSD	.62341	.24915	.95603	.84694	3.8233	3.8932	5.0867
#1	.02582	.11831	.22522	.42193	314.89	23.395	.11566
#2	.02553	.11803	.22191	.41877	333.38	24.795	.12628
#3	.02556	.11772	.22124	.41485	338.92	25.214	.12667
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**32.723**	**7.5669**	**.02469**	**.89064**	**.26829**	**2.2706**	**.01418**
Stddev	1.239	.2866	.00025	.02840	.00145	.0041	.00492
%RSD	3.7867	3.7880	1.0055	3.1887	.54074	.18177	34.669
#1	31.316	7.2440	.02448	.85872	.26674	2.2722	.01966
#2	33.199	7.6653	.02463	.90008	.26854	2.2737	.01015
#3	33.653	7.7914	.02496	.91311	.26961	2.2659	.01274
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080435 Acquired: 6/29/2012 14:27:37 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00681**	F **553.93**	**.08439**	**2.1132**	**.15271**	**.00384**	**.40567**
Stddev	.00441	1.50	.00024	.0797	.00517	.00040	.00036
%RSD	64.768	.27077	.28454	3.7697	3.3857	10.542	.08985
#1	.00204	555.09	.08464	2.0235	.14689	.00407	.40592
#2	.00765	554.45	.08416	2.1405	.15444	.00408	.40526
#3	.01075	552.23	.08436	2.1757	.15679	.00337	.40585
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**5.8691**
Stddev	.0078
%RSD	.13299
#1	5.8767
#2	5.8695
#3	5.8611
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13489.**	**25310.**
Stddev	24.	547.
%RSD	.18100	2.1603
#1	13463.	25936.
#2	13495.	25066.
#3	13511.	24928.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080436 Acquired: 6/29/2012 14:31:12 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01561**	**89.392**	**.13850**	**.16950**	**4.5821**	**.00840**	F **3029.6**
Stddev	.00040	.915	.00152	.00247	.0643	.00002	74.8
%RSD	2.5787	1.0238	1.0998	1.4600	1.4028	.24933	2.4684
#1	.01600	88.365	.14017	.16669	4.5089	.00841	2950.6
#2	.01520	89.692	.13720	.17047	4.6082	.00837	3038.9
#3	.01564	90.120	.13811	.17134	4.6292	.00841	3099.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03644**	**.08254**	**.15606**	**.51607**	**273.19**	**15.135**	**.13234**
Stddev	.00028	.00050	.00080	.00076	3.88	.224	.00146
%RSD	.75619	.60581	.51452	.14762	1.4196	1.4829	1.1020
#1	.03676	.08280	.15698	.51683	268.79	14.883	.13066
#2	.03624	.08197	.15553	.51531	274.66	15.211	.13328
#3	.03633	.08286	.15567	.51608	276.11	15.312	.13307
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**125.66**	**8.6705**	**.02675**	**5.5297**	**.23296**	**3.5914**	**.01212**
Stddev	2.13	.1260	.00036	.0744	.00031	.0030	.00348
%RSD	1.6949	1.4533	1.3367	1.3448	.13306	.08290	28.695
#1	123.27	8.5271	.02634	5.4441	.23311	3.5943	.00998
#2	126.35	8.7210	.02698	5.5666	.23260	3.5915	.01613
#3	127.36	8.7635	.02693	5.5784	.23317	3.5884	.01025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080436 Acquired: 6/29/2012 14:31:12 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00679**	F **940.19**	**.10877**	F **18.607**	**.48763**	**.00296**	**.28237**
Stddev	.00161	3.02	.00141	.551	.00627	.00213	.00059
%RSD	23.781	.32154	1.3003	2.9606	1.2853	71.801	.20889
#1	.00794	942.82	.11041	17.982	.48048	.00086	.28186
#2	.00748	940.86	.10795	18.814	.49023	.00292	.28301
#3	.00494	936.89	.10796	19.024	.49218	.00511	.28222
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000		4.5000			
Low Limit		-1.0000		-.01000			

Elem	Zn2062
Units	ppm
Avg	**7.3354**
Stddev	.0123
%RSD	.16826
#1	7.3496
#2	7.3270
#3	7.3296
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**11941.**	**23584.**
Stddev	10.	269.
%RSD	.08068	1.1410
#1	11942.	23883.
#2	11931.	23507.
#3	11951.	23362.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080437 Acquired: 6/29/2012 14:34:46 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01523**	**98.826**	**.17563**	**.08064**	**2.5716**	**.01072**	**252.49**
Stddev	.00024	.616	.00149	.00372	.0506	.00003	4.10
%RSD	1.6045	.62287	.84975	4.6119	1.9664	.26080	1.6230
#1	.01500	98.116	.17392	.07644	2.5138	.01070	256.03
#2	.01522	99.160	.17667	.08196	2.5936	.01070	253.44
#3	.01548	99.204	.17631	.08352	2.6075	.01075	248.00
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01937**	**.07046**	**.17268**	**.33875**	**279.64**	**10.385**	**.06327**
Stddev	.00014	.00059	.00101	.00205	6.05	.276	.00076
%RSD	.74124	.83430	.58350	.60434	2.1635	2.6620	1.2036
#1	.01921	.07089	.17371	.34095	272.73	10.066	.06300
#2	.01946	.06979	.17263	.33839	282.20	10.566	.06267
#3	.01945	.07069	.17170	.33690	283.98	10.521	.06412
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.381**	**4.4328**	**.02358**	**1.3032**	**.13212**	**2.5026**	**.01830**
Stddev	.165	.0869	.00024	.0267	.00074	.0008	.00064
%RSD	1.0079	1.9608	1.0003	2.0524	.56356	.03048	3.5060
#1	16.227	4.3330	.02382	1.2723	.13235	2.5034	.01904
#2	16.555	4.4743	.02335	1.3173	.13273	2.5026	.01793
#3	16.360	4.4913	.02357	1.3199	.13129	2.5019	.01792
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080437 Acquired: 6/29/2012 14:34:46 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	F **531.71**	**.25264**	**1.3882**	**.17044**	**.00364**	**.37241**
Stddev	.00413	1.40	.00059	.0169	.00346	.00031	.00069
%RSD	579.27	.26294	.23516	1.2195	2.0274	8.6534	.18557
#1	-.00380	530.10	.25315	1.4010	.16681	.00386	.37205
#2	.00431	532.43	.25199	1.3946	.17083	.00378	.37198
#3	.00163	532.60	.25279	1.3690	.17369	.00328	.37321
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**4.6039**
Stddev	.0007
%RSD	.01580
#1	4.6032
#2	4.6046
#3	4.6040
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13464.**	**24912.**
Stddev	16.	152.
%RSD	.11777	.61044
#1	13446.	25084.
#2	13472.	24854.
#3	13475.	24797.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080438 Acquired: 6/29/2012 14:38:04 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00275**	**110.67**	**.14267**	**.07196**	**1.2007**	**.00947**	F **1452.5**
Stddev	.00057	1.24	.00172	.00630	.0189	.00004	44.1
%RSD	20.755	1.1231	1.2063	8.7589	1.5768	.46787	3.0349
#1	.00212	109.28	.14439	.06483	1.1790	.00944	1403.5
#2	.00323	111.06	.14095	.07424	1.2089	.00945	1464.8
#3	.00290	111.67	.14268	.07680	1.2141	.00952	1489.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00563**	**.11178**	**.14481**	**.13721**	**298.37**	**6.6419**	**.15626**
Stddev	.00022	.00021	.00164	.00181	5.41	.1674	.00382
%RSD	3.8638	.18794	1.1350	1.3156	1.8124	2.5197	2.4448
#1	.00548	.11202	.14641	.13926	292.19	6.4487	.15210
#2	.00588	.11165	.14312	.13654	300.63	6.7378	.15705
#3	.00554	.11168	.14489	.13584	302.27	6.7393	.15962
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**72.247**	**7.3942**	**.00519**	**1.1255**	**.29005**	**.39585**	**-.00045**
Stddev	1.398	.1333	.00016	.0258	.00122	.00462	.00168
%RSD	1.9351	1.8023	3.1785	2.2944	.42231	1.1661	378.17
#1	70.646	7.2428	.00500	1.0978	.29020	.39394	.00061
#2	72.863	7.4460	.00525	1.1489	.28876	.40111	.00044
#3	73.230	7.4937	.00531	1.1298	.29119	.39249	-.00239
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080438 Acquired: 6/29/2012 14:38:04 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00193**	F **588.87**	**.00974**	F **6.8806**	**.15196**	**.00712**	**.20611**
Stddev	.00401	.54	.00075	.1850	.00362	.00120	.00104
%RSD	207.91	.09174	7.6584	2.6882	2.3831	16.801	.50527
#1	-.00208	588.43	.00979	6.6767	.14788	.00749	.20582
#2	-.00586	588.72	.00896	6.9278	.15322	.00579	.20525
#3	.00216	589.47	.01045	7.0374	.15479	.00810	.20727
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000		4.5000			
Low Limit		-1.0000		-.01000			

Elem	Zn2062
Units	ppm
Avg	**.95152**
Stddev	.00050
%RSD	.05290
#1	.95157
#2	.95099
#3	.95199
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12587.**	**23805.**
Stddev	16.	265.
%RSD	.12804	1.1128
#1	12570.	24110.
#2	12602.	23667.
#3	12588.	23637.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080439 Acquired: 6/29/2012 14:41:39 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00177**	**133.33**	**.15632**	**.10217**	**1.7149**	**.01313**	**313.20**
Stddev	.00023	2.19	.00306	.00785	.0521	.00002	7.66
%RSD	13.201	1.6410	1.9598	7.6855	3.0368	.16259	2.4449
#1	.00173	130.92	.15902	.09311	1.6558	.01312	304.46
#2	.00203	133.88	.15696	.10702	1.7346	.01315	316.44
#3	.00157	135.19	.15299	.10637	1.7541	.01311	318.71
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00185**	**.15530**	**.09118**	**.11650**	**473.71**	**4.2119**	**.13384**
Stddev	.00020	.00027	.00372	.00413	14.09	.1057	.00511
%RSD	10.904	.17306	4.0784	3.5438	2.9737	2.5085	3.8175
#1	.00202	.15503	.09544	.12106	457.82	4.0901	.12795
#2	.00190	.15556	.08957	.11541	478.61	4.2779	.13706
#3	.00163	.15531	.08854	.11302	484.68	4.2678	.13651
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**38.572**	**19.010**	**.00389**	**.88077**	**.32320**	**.23412**	**-.00280**
Stddev	1.055	.564	.00014	.01711	.00144	.00279	.00262
%RSD	2.7338	2.9654	3.5839	1.9424	.44567	1.1902	93.646
#1	37.396	18.375	.00373	.86197	.32485	.23543	-.00322
#2	38.888	19.203	.00399	.88490	.32219	.23092	-.00519
#3	39.433	19.452	.00396	.89543	.32255	.23601	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080439 Acquired: 6/29/2012 14:41:39 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00458**	F **563.63**	**.00614**	**1.5018**	**.09964**	**.00806**	**.26049**
Stddev	.00139	.22	.00027	.0359	.00284	.00200	.00037
%RSD	30.376	.03867	4.4420	2.3873	2.8499	24.842	.14057
#1	-.00361	563.74	.00590	1.4609	.09728	.01029	.26015
#2	-.00395	563.77	.00607	1.5170	.09886	.00642	.26044
#3	-.00617	563.38	.00643	1.5276	.10280	.00746	.26088
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.49949**
Stddev	.00064
%RSD	.12715
#1	.50017
#2	.49937
#3	.49891
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13292.**	**24419.**
Stddev	3.	386.
%RSD	.02315	1.5816
#1	13289.	24844.
#2	13295.	24323.
#3	13292.	24089.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080440 Acquired: 6/29/2012 14:44:57 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01149**	**127.29**	**.16479**	**.07538**	**2.4519**	**.01386**	**142.44**
Stddev	.00022	2.94	.00213	.00401	.0725	.00013	4.03
%RSD	1.9238	2.3125	1.2926	5.3257	2.9561	.91541	2.8267
#1	.01171	124.07	.16720	.07103	2.3701	.01374	137.88
#2	.01126	127.95	.16315	.07618	2.4778	.01386	143.93
#3	.01150	129.85	.16403	.07893	2.5080	.01399	145.50
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05826**	**.13502**	**.17458**	**.37043**	**277.85**	**20.998**	**.13524**
Stddev	.00016	.00061	.00098	.00135	8.24	.674	.00425
%RSD	.27817	.45290	.56149	.36340	2.9662	3.2104	3.1457
#1	.05807	.13521	.17376	.37198	268.51	20.248	.13036
#2	.05835	.13434	.17566	.36968	280.93	21.193	.13717
#3	.05835	.13552	.17432	.36962	284.10	21.553	.13819
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.110**	**9.5395**	**.00981**	**.73457**	**.27195**	**1.8901**	**.00611**
Stddev	.737	.2792	.00023	.02381	.00122	.0051	.00234
%RSD	2.8211	2.9272	2.3062	3.2418	.44793	.26938	38.317
#1	25.286	9.2230	.00987	.71054	.27117	1.8851	.00834
#2	26.338	9.6444	.01000	.73500	.27132	1.8899	.00631
#3	26.705	9.7510	.00956	.75816	.27335	1.8953	.00367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080440 Acquired: 6/29/2012 14:44:57 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00280**	F **458.91**	**.02714**	**.80973**	**.15119**	**.00336**	**.36017**
Stddev	.00154	.81	.00044	.02321	.00345	.00143	.00303
%RSD	55.107	.17681	1.6033	2.8664	2.2816	42.432	.84008
#1	.00104	458.67	.02675	.78348	.14768	.00495	.35713
#2	.00342	458.25	.02761	.81819	.15133	.00219	.36019
#3	.00394	459.82	.02707	.82753	.15457	.00296	.36318
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**13.689**
Stddev	.021
%RSD	.15143
#1	13.667
#2	13.692
#3	13.708
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13866.**	**25540.**
Stddev	30.	453.
%RSD	.21438	1.7750
#1	13890.	26043.
#2	13874.	25412.
#3	13832.	25164.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080441 Acquired: 6/29/2012 14:48:17 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01619**	**99.978**	**.18497**	**.07073**	**2.2062**	**.01196**	**105.34**
Stddev	.00093	2.267	.00221	.00558	.0660	.00003	3.21
%RSD	5.7230	2.2673	1.1950	7.8905	2.9899	.24548	3.0507
#1	.01512	97.363	.18404	.06432	2.1311	.01198	101.67
#2	.01676	101.18	.18750	.07453	2.2328	.01197	106.68
#3	.01669	101.39	.18338	.07334	2.2547	.01192	107.66
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02723**	**.13960**	**.16817**	**.39998**	**256.97**	**11.789**	**.08882**
Stddev	.00010	.00031	.00264	.00237	8.05	.378	.00242
%RSD	.37884	.22173	1.5725	.59369	3.1319	3.2049	2.7263
#1	.02711	.13924	.17111	.40242	247.79	11.373	.08696
#2	.02727	.13982	.16740	.39985	260.29	11.882	.08794
#3	.02730	.13973	.16599	.39768	262.83	12.111	.09155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**16.994**	**11.372**	**.01235**	**.69373**	**.18653**	**1.9680**	**.01329**
Stddev	.591	.363	.00014	.01413	.00189	.0045	.00209
%RSD	3.4754	3.1922	1.1590	2.0370	1.0120	.23072	15.748
#1	16.330	10.959	.01227	.67770	.18871	1.9669	.01388
#2	17.194	11.512	.01251	.70441	.18559	1.9730	.01503
#3	17.459	11.643	.01226	.69906	.18531	1.9641	.01097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080441 Acquired: 6/29/2012 14:48:17 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00353**	F **512.18**	**.04558**	**.61666**	**.17921**	**.00380**	**.39235**
Stddev	.00290	1.32	.00045	.01917	.00561	.00107	.00134
%RSD	82.220	.25830	.99704	3.1088	3.1317	28.183	.34139
#1	.00310	510.67	.04602	.59487	.17299	.00258	.39081
#2	.00661	513.14	.04512	.62416	.18075	.00459	.39296
#3	.00086	512.73	.04561	.63095	.18389	.00422	.39328
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**8.0466**
Stddev	.0053
%RSD	.06652
#1	8.0505
#2	8.0487
#3	8.0405
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13684.**	**25270.**
Stddev	19.	564.
%RSD	.13785	2.2331
#1	13698.	25919.
#2	13692.	24995.
#3	13663.	24895.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080442 Acquired: 6/29/2012 14:51:35 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00721**	**35.127**	**.14345**	**.06231**	**1.0752**	**.00356**	F **3786.8**
Stddev	.00105	.314	.00409	.00298	.0142	.00006	70.6
%RSD	14.631	.89470	2.8542	4.7778	1.3240	1.6786	1.8655
#1	.00715	34.765	.14801	.05910	1.0590	.00350	3708.8
#2	.00618	35.283	.14228	.06285	1.0812	.00362	3805.1
#3	.00829	35.333	.14008	.06498	1.0855	.00357	3846.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02379**	**.05681**	**.06757**	**.40752**	**191.36**	**8.1230**	**.14269**
Stddev	.00014	.00020	.00065	.00098	2.89	.1316	.00155
%RSD	.59345	.34830	.96051	.24169	1.5128	1.6197	1.0832
#1	.02370	.05668	.06804	.40832	188.06	7.9722	.14397
#2	.02371	.05704	.06683	.40642	192.56	8.2142	.14313
#3	.02395	.05671	.06785	.40782	193.46	8.1825	.14097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**134.27**	**6.2975**	**.01211**	**2.1997**	**.19400**	**2.9727**	**.02084**
Stddev	2.60	.0926	.00017	.0248	.00028	.0026	.00289
%RSD	1.9378	1.4712	1.3870	1.1293	.14487	.08724	13.886
#1	131.32	6.1911	.01194	2.1711	.19424	2.9701	.01825
#2	135.28	6.3414	.01227	2.2123	.19369	2.9726	.02396
#3	136.22	6.3601	.01212	2.2158	.19405	2.9753	.02031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080442 Acquired: 6/29/2012 14:51:35 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00467**	F **661.94**	**.09091**	F **26.742**	**.18407**	**.00432**	**.14594**
Stddev	.00259	2.41	.00020	.808	.00188	.00345	.00030
%RSD	55.442	.36416	.22372	3.0226	1.0209	79.887	.20221
#1	.00169	659.15	.09103	25.809	.18221	.00411	.14627
#2	.00598	663.43	.09101	27.225	.18405	.00788	.14583
#3	.00633	663.22	.09067	27.192	.18596	.00098	.14571
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000		4.5000			
Low Limit		-1.0000		-.01000			

Elem	Zn2062
Units	ppm
Avg	**5.2352**
Stddev	.0034
%RSD	.06541
#1	5.2320
#2	5.2347
#3	5.2388
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**11633.**	**22876.**
Stddev	16.	229.
%RSD	.13436	1.0026
#1	11617.	23140.
#2	11648.	22758.
#3	11635.	22730.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080443 Acquired: 6/29/2012 14:55:10 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03138**	**54.707**	**.42381**	**.07790**	**1.9785**	**.00808**	**423.19**
Stddev	.00115	.330	.00257	.00487	.0323	.00003	18.95
%RSD	3.6721	.60317	.60648	6.2549	1.6310	.37479	4.4769
#1	.03209	54.344	.42449	.07228	1.9417	.00808	444.30
#2	.03005	54.989	.42598	.08089	1.9916	.00805	417.63
#3	.03199	54.788	.42097	.08053	2.0021	.00811	407.65
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05791**	**.06799**	**.10922**	**1.0420**	**244.84**	**9.7959**	**.05310**
Stddev	.00004	.00021	.00090	.0019	3.96	.1955	.00129
%RSD	.07152	.31066	.82344	.18340	1.6176	1.9955	2.4311
#1	.05794	.06775	.11024	1.0405	240.29	9.5730	.05167
#2	.05793	.06805	.10854	1.0441	246.71	9.8770	.05417
#3	.05786	.06816	.10889	1.0413	247.51	9.9378	.05346
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**17.995**	**7.4608**	**.02310**	**1.3485**	**.14571**	**12.940**	**.08853**
Stddev	.102	.1249	.00042	.0192	.00091	.004	.00053
%RSD	.56722	1.6737	1.8287	1.4246	.62553	.03397	.59604
#1	18.082	7.3179	.02349	1.3263	.14471	12.944	.08904
#2	18.021	7.5160	.02265	1.3607	.14651	12.940	.08856
#3	17.883	7.5486	.02316	1.3584	.14590	12.935	.08799
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080443 Acquired: 6/29/2012 14:55:10 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00687**	F **531.25**	**.24181**	**1.8973**	**.20678**	**.00471**	**.24844**
Stddev	.00417	3.36	.00035	.0416	.00427	.00070	.00060
%RSD	60.792	.63292	.14522	2.1921	2.0651	14.920	.24308
#1	.00678	528.02	.24183	1.9408	.20210	.00448	.24777
#2	.00273	534.73	.24144	1.8930	.20776	.00549	.24861
#3	.01108	530.98	.24214	1.8580	.21047	.00414	.24894
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**18.248**
Stddev	.019
%RSD	.10213
#1	18.228
#2	18.265
#3	18.251
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13166.**	**24244.**
Stddev	33.	198.
%RSD	.25055	.81658
#1	13197.	24471.
#2	13170.	24154.
#3	13131.	24106.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080447 Acquired: 6/29/2012 14:58:36 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01906**	**114.16**	**.42795**	**.13142**	**2.5834**	**.01463**	**767.26**
Stddev	.00128	2.34	.00542	.01099	.0757	.00005	34.09
%RSD	6.7277	2.0489	1.2668	8.3613	2.9314	.31770	4.4428
#1	.02047	111.56	.42254	.11874	2.4972	.01462	728.30
#2	.01796	116.08	.43339	.13742	2.6136	.01468	791.60
#3	.01876	114.86	.42791	.13812	2.6394	.01458	781.88
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05365**	**.13368**	**.21603**	**1.2394**	**366.26**	**19.220**	**.08643**
Stddev	.00019	.00027	.00409	.0030	11.32	.569	.00119
%RSD	.36064	.20359	1.8916	.24480	3.0919	2.9626	1.3816
#1	.05345	.13345	.21996	1.2429	353.37	18.573	.08509
#2	.05384	.13398	.21632	1.2375	370.78	19.444	.08737
#3	.05365	.13361	.21181	1.2378	374.62	19.643	.08683
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**24.232**	**6.9439**	**.02593**	**1.6473**	**.19123**	**14.588**	**.08259**
Stddev	.706	.2112	.00022	.0338	.00052	.004	.00258
%RSD	2.9117	3.0409	.83069	2.0502	.27097	.02975	3.1231
#1	23.432	6.7041	.02617	1.6085	.19181	14.590	.08288
#2	24.499	7.0254	.02582	1.6636	.19083	14.590	.08501
#3	24.766	7.1021	.02579	1.6698	.19104	14.583	.07988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080447 Acquired: 6/29/2012 14:58:36 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00560**	F **636.09**	**.45075**	**3.2189**	**.26881**	**.00616**	**.40068**
Stddev	.00200	1.30	.00066	.0950	.00710	.00297	.00180
%RSD	35.745	.20436	.14676	2.9520	2.6416	48.281	.44931
#1	.00585	635.37	.45079	3.1111	.26076	.00331	.40194
#2	.00746	637.59	.45139	3.2553	.27149	.00924	.40148
#3	.00348	635.31	.45007	3.2903	.27417	.00593	.39862
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**13.233**
Stddev	.007
%RSD	.05636
#1	13.241
#2	13.226
#3	13.230
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13011.**	**24491.**
Stddev	45.	506.
%RSD	.34937	2.0641
#1	12959.	25074.
#2	13032.	24214.
#3	13042.	24184.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 15:02:01 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39889**	**10.231**	**.40512**	**.50151**	**1.0455**	**.05126**	F **13.290**
Stddev	.00158	.128	.00255	.00072	.0193	.00018	4.781
%RSD	.39723	1.2501	.62858	.14381	1.8483	.34717	35.977
#1	.39891	10.379	.40728	.50219	1.0677	.05106	18.804
#2	.40046	10.153	.40231	.50075	1.0356	.05133	10.778
#3	.39729	10.162	.40577	.50157	1.0331	.05140	10.289
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							10.000
Range							10.000%

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04936**	**.19837**	**.50124**	**.49988**	F **5.8477**	**54.429**	**1.0807**
Stddev	.00002	.00043	.00171	.00219	2.4509	.498	.0065
%RSD	.04436	.21788	.34054	.43860	41.912	.91440	.60042
#1	.04937	.19790	.49938	.49737	8.6714	55.000	1.0881
#2	.04937	.19876	.50159	.50140	4.6008	54.194	1.0778
#3	.04933	.19845	.50274	.50088	4.2711	54.092	1.0761
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value					4.0000		
Range					10.000%		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.466**	**.54480**	**.99889**	**53.705**	**.51382**	**.50644**	**1.1898**
Stddev	.198	.04549	.00097	.370	.00065	.00285	.0030
%RSD	1.8916	8.3503	.09737	.68839	.12687	.56359	.25405
#1	10.691	.59722	.99872	54.125	.51329	.50323	1.1872
#2	10.389	.52153	.99993	53.562	.51455	.50868	1.1892
#3	10.318	.51565	.99801	53.428	.51362	.50742	1.1931
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 15:02:01 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40865**	F **10.500**	**1.0120**	**1.0350**	**.98553**	**.51067**	**.99320**
Stddev	.00501	.444	.0005	.0243	.00551	.00223	.00312
%RSD	1.2249	4.2244	.05070	2.3507	.55888	.43667	.31396
#1	.40427	10.069	1.0114	1.0630	.99154	.51257	.98983
#2	.40757	10.475	1.0122	1.0235	.98435	.51121	.99380
#3	.41411	10.955	1.0124	1.0186	.98072	.50821	.99598
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		5.0000					
Range		10.000%					

Elem	Zn2062
Units	ppm
Avg	**.99814**
Stddev	.00196
%RSD	.19619
#1	.99592
#2	.99893
#3	.99959
Check ?	Chk Pass
Value	
Range	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13410.**	**23381.**
Stddev	61.	240.
%RSD	.45248	1.0265
#1	13476.	23104.
#2	13396.	23531.
#3	13357.	23507.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCB Acquired: 6/29/2012 15:05:15 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**.00583**	**.00051**	**-.00208**	**.00003**	**.00001**	**.02600**	**-.00008**
Stddev	.00040	.00245	.00251	.00113	.00003	.00002	.00964	.00029
%RSD	75.547	42.015	489.61	54.542	75.009	382.38	37.069	346.14
#1	.00007	.00309	-.00228	-.00256	.00002	.00001	.02043	-.00040
#2	.00077	.00780	.00257	-.00078	.00006	.00003	.02043	.00018
#3	.00076	.00661	.00125	-.00289	.00002	-.00002	.03712	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00063**	**-.00045**	**.00376**	**-.18437**	**.00919**	**.00918**	**-.00384**
Stddev	.00021	.00023	.00066	.00107	.03991	.00294	.01867	.00040
%RSD	433.03	36.910	146.79	28.471	21.644	32.054	203.44	10.468
#1	-.00025	.00065	-.00033	.00390	-.13876	.00663	.00836	-.00429
#2	-.00007	.00038	-.00116	.00476	-.21284	.01241	-.00907	-.00370
#3	.00017	.00084	.00014	.00263	-.20152	.00852	.02824	-.00353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00082**	**.08154**	**-.00611**	**.00115**	**.00198**	**-.00201**	**.58449**	**.00073**
Stddev	.00007	.00402	.00036	.00166	.00005	.00300	.25658	.00112
%RSD	8.1144	4.9354	5.8168	144.93	2.2875	149.29	43.897	152.84
#1	.00074	.08050	-.00644	.00035	.00201	-.00496	.82785	-.00037
#2	.00083	.08598	-.00574	.00004	.00193	-.00212	.31648	.00187
#3	.00087	.07814	-.00615	.00306	.00200	.00104	.60914	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Approved: July 02, 2012
Pierre Morris

Sample Name: CCB Acquired: 6/29/2012 15:05:15 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**.00077**	**.00316**	**.00058**	**.00244**
Stddev	.00010	.00110	.00088	.00035	.00007
%RSD	22.926	142.08	27.943	60.016	2.9647
#1	.00048	.00011	.00275	.00097	.00243
#2	.00034	.00017	.00417	.00040	.00237
#3	.00054	.00204	.00256	.00035	.00251
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13404.**	**23267.**
Stddev	7.	138.
%RSD	.05223	.59246
#1	13399.	23402.
#2	13401.	23126.
#3	13412.	23273.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080448 Acquired: 6/29/2012 15:08:43 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.35954**	**90.884**	**1.5438**	**.45805**	**2.1878**	**.01804**	F **2001.3**
Stddev	.00108	.714	.0028	.01929	.0350	.00007	70.1
%RSD	.29968	.78551	.18294	4.2106	1.5997	.41104	3.5041
#1	.35831	90.350	1.5463	.43623	2.1477	.01805	1923.1
#2	.35995	90.606	1.5444	.46512	2.2031	.01797	2022.2
#3	.36034	91.695	1.5408	.47281	2.2125	.01812	2058.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23066**	**.19093**	F **-.35365**	**10.071**	F **918.39**	**11.194**	**.13549**
Stddev	.00067	.00021	.01855	.037	29.87	.194	.00438
%RSD	.29000	.11220	5.2463	.36439	3.2521	1.7374	3.2356
#1	.23143	.19084	-.33266	10.107	884.36	10.971	.13087
#2	.23030	.19117	-.36046	10.072	930.59	11.285	.13960
#3	.23025	.19077	-.36784	10.033	940.23	11.326	.13600
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.000		900.00		
Low Limit			-.00300		-.02000		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**76.667**	**112.36**	**.06680**	**14.850**	**.37111**	**47.133**	**.14826**
Stddev	1.428	3.50	.00021	.261	.00149	.090	.00354
%RSD	1.8631	3.1114	.31802	1.7568	.40241	.19147	2.3906
#1	75.063	108.46	.06674	14.551	.37215	47.218	.15168
#2	77.139	113.42	.06703	14.967	.37177	47.141	.14461
#3	77.800	115.20	.06662	15.033	.36940	47.038	.14848
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080448 Acquired: 6/29/2012 15:08:43 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00224**	F **1474.1**	**.17609**	F **10.471**	**.66517**	**.03625**	**.39028**
Stddev	.00677	19.4	.00147	.258	.01198	.00105	.00115
%RSD	301.70	1.3169	.83259	2.4644	1.8011	2.8858	.29565
#1	.00994	1487.9	.17739	10.193	.65139	.03742	.38970
#2	-.00278	1482.5	.17450	10.514	.67106	.03589	.38953
#3	-.00043	1451.9	.17638	10.704	.67307	.03543	.39161
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000		4.5000			
Low Limit		-1.0000		-.01000			

Elem	Zn2062
Units	ppm
Avg	F **130.15**
Stddev	.27
%RSD	.20418
#1	130.39
#2	130.21
#3	129.86
Check ?	Chk Fail
High Limit	45.000
Low Limit	-.01000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12287.**	**23635.**
Stddev	19.	143.
%RSD	.15152	.60546
#1	12269.	23754.
#2	12288.	23676.
#3	12306.	23476.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080501 Acquired: 6/29/2012 15:12:40 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.21892**	**120.71**	**1.8240**	**.22045**	**2.4665**	**.01641**	**261.04**
Stddev	.00054	1.52	.0018	.01544	.0285	.00009	1.53
%RSD	.24785	1.2591	.09927	7.0050	1.1567	.55161	.58670
#1	.21832	119.31	1.8246	.20386	2.4339	.01641	262.52
#2	.21939	120.50	1.8220	.22309	2.4783	.01631	261.13
#3	.21903	122.33	1.8254	.23440	2.4871	.01649	259.46
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.28998**	**.30915**	F **-.00486**	**7.6643**	**867.19**	**19.567**	**.12388**
Stddev	.00067	.00024	.01048	.0010	24.19	.276	.00318
%RSD	.22957	.07820	215.43	.01276	2.7889	1.4129	2.5673
#1	.28970	.30903	.00661	7.6649	842.04	19.256	.12124
#2	.28951	.30899	-.00728	7.6648	869.25	19.658	.12741
#3	.29074	.30943	-.01392	7.6631	890.28	19.787	.12300
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000				
Low Limit			-.00300				

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**30.445**	**74.722**	**.16376**	**14.660**	**.61725**	**29.740**	**.14869**
Stddev	.241	1.995	.00009	.159	.00124	.026	.00382
%RSD	.79093	2.6701	.05662	1.0837	.20029	.08596	2.5678
#1	30.168	72.583	.16386	14.478	.61768	29.711	.14666
#2	30.558	75.053	.16368	14.733	.61586	29.759	.15309
#3	30.608	76.532	.16374	14.770	.61821	29.750	.14631
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080501 Acquired: 6/29/2012 15:12:40 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15046**	F **886.75**	**1.0556**	**1.7197**	**.37092**	**.03702**	**.64778**
Stddev	.00104	1.07	.0013	.0031	.00366	.00246	.00260
%RSD	.69308	.12063	.12085	.17992	.98688	6.6458	.40134
#1	.14933	887.98	1.0559	1.7188	.36695	.03874	.64646
#2	.15068	886.25	1.0542	1.7232	.37165	.03420	.64610
#3	.15138	886.02	1.0567	1.7172	.37416	.03812	.65077
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	F **96.473**
Stddev	.208
%RSD	.21578
#1	96.612
#2	96.234
#3	96.573
Check ?	Chk Fail
High Limit	45.000
Low Limit	-.01000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13749.**	**25473.**
Stddev	11.	256.
%RSD	.08231	1.0055
#1	13739.	25728.
#2	13746.	25475.
#3	13761.	25216.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080502 Acquired: 6/29/2012 15:16:18 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02645**	**89.840**	**.28798**	**.23917**	**6.7991**	**.01238**	**714.99**
Stddev	.00029	1.545	.00060	.00742	.1651	.00006	26.46
%RSD	1.0955	1.7195	.20985	3.1033	2.4286	.49152	3.7003
#1	.02674	88.220	.28826	.23093	6.6128	.01236	685.62
#2	.02645	90.005	.28840	.24124	6.8568	.01233	722.41
#3	.02616	91.296	.28729	.24533	6.9276	.01245	736.95
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10914**	**.12007**	**.27625**	**1.5373**	**490.32**	**14.756**	**.09493**
Stddev	.00030	.00034	.00270	.0026	11.83	.298	.00299
%RSD	.27416	.27943	.97747	.16702	2.4123	2.0166	3.1484
#1	.10882	.11977	.27911	1.5402	476.99	14.434	.09222
#2	.10920	.12001	.27374	1.5362	494.41	14.813	.09813
#3	.10941	.12044	.27591	1.5354	499.57	15.022	.09444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**33.278**	**8.9802**	**.03084**	**1.7859**	**.29725**	**9.1834**	**.03794**
Stddev	.839	.1378	.00046	.0140	.00023	.0033	.00567
%RSD	2.5202	1.5347	1.4910	.78634	.07769	.03624	14.940
#1	32.350	8.8218	.03136	1.7699	.29701	9.1796	.04447
#2	33.500	9.0459	.03049	1.7960	.29726	9.1858	.03500
#3	33.983	9.0729	.03066	1.7918	.29747	9.1849	.03435
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080502 Acquired: 6/29/2012 15:16:18 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01749**	F **607.16**	**.29832**	**3.0371**	**.43594**	**.00334**	**.37167**
Stddev	.00149	1.43	.00098	.0729	.01032	.00144	.00057
%RSD	8.5194	.23634	.32797	2.4010	2.3662	43.114	.15299
#1	.01793	605.53	.29857	2.9551	.42429	.00473	.37200
#2	.01870	608.23	.29724	3.0618	.43961	.00345	.37101
#3	.01583	607.71	.29915	3.0946	.44392	.00185	.37199
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**23.402**
Stddev	.020
%RSD	.08390
#1	23.386
#2	23.395
#3	23.424
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12967.**	**24451.**
Stddev	17.	404.
%RSD	.13306	1.6519
#1	12956.	24896.
#2	12987.	24352.
#3	12959.	24106.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080503 Acquired: 6/29/2012 15:19:43 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04834**	**108.04**	**1.0574**	**.23357**	**4.5840**	**.03415**	**182.34**
Stddev	.00065	1.71	.0014	.01141	.0971	.00011	3.65
%RSD	1.3520	1.5848	.13443	4.8871	2.1180	.33644	2.0019
#1	.04860	106.33	1.0591	.22183	4.4739	.03428	178.21
#2	.04760	108.03	1.0569	.23423	4.6207	.03406	183.68
#3	.04883	109.75	1.0564	.24463	4.6573	.03410	185.13
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11910**	**.13426**	**.15428**	**2.5548**	**637.87**	**12.392**	**.09167**
Stddev	.00025	.00034	.00286	.0063	20.63	.232	.00302
%RSD	.21222	.25092	1.8514	.24701	3.2347	1.8725	3.2956
#1	.11890	.13458	.15755	2.5620	615.51	12.128	.09022
#2	.11938	.13391	.15304	2.5522	641.92	12.485	.09514
#3	.11903	.13431	.15225	2.5502	656.17	12.564	.08965
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**18.574**	**14.544**	**.14483**	**2.6413**	**.54246**	**11.652**	**.03514**
Stddev	.485	.338	.00048	.0570	.00188	.015	.00255
%RSD	2.6131	2.3205	.32874	2.1587	.34730	.13243	7.2497
#1	18.023	14.163	.14458	2.5756	.54370	11.670	.03381
#2	18.761	14.665	.14538	2.6777	.54339	11.645	.03808
#3	18.938	14.805	.14454	2.6706	.54029	11.642	.03354
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080503 Acquired: 6/29/2012 15:19:43 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03734**	F **470.96**	**.30296**	**1.3034**	**.64565**	**.01348**	**.51067**
Stddev	.00250	.59	.00103	.0275	.01373	.00125	.00078
%RSD	6.7078	.12505	.34028	2.1099	2.1264	9.2928	.15358
#1	.03545	470.44	.30396	1.2723	.63007	.01491	.51146
#2	.03639	470.84	.30302	1.3133	.65093	.01260	.50989
#3	.04018	471.60	.30191	1.3245	.65596	.01293	.51065
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**29.560**
Stddev	.037
%RSD	.12467
#1	29.602
#2	29.534
#3	29.544
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**14044.**	**25801.**
Stddev	37.	385.
%RSD	.26137	1.4922
#1	14002.	26189.
#2	14070.	25795.
#3	14060.	25419.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080504 Acquired: 6/29/2012 15:23:05 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03875**	**88.693**	**.74459**	**.19828**	**4.1677**	**.02737**	**141.76**
Stddev	.00093	1.557	.00139	.00606	.1072	.00012	3.69
%RSD	2.3994	1.7557	.18728	3.0557	2.5731	.45044	2.6014
#1	.03857	86.915	.74323	.19183	4.0459	.02726	137.58
#2	.03792	89.353	.74601	.20386	4.2094	.02733	143.14
#3	.03975	89.811	.74454	.19916	4.2478	.02750	144.56
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10136**	**.14003**	**.13042**	**1.9222**	**509.08**	**9.8709**	**.06995**
Stddev	.00011	.00024	.00152	.0029	13.75	.2814	.00026
%RSD	.10872	.17305	1.1669	.15255	2.7014	2.8504	.37852
#1	.10123	.14000	.13210	1.9250	494.30	9.5471	.07005
#2	.10142	.13980	.12914	1.9192	521.50	10.009	.07014
#3	.10143	.14028	.13001	1.9225	511.44	10.056	.06965
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**12.055**	**11.024**	**.08620**	**2.0793**	**.35685**	**10.506**	**.05786**
Stddev	.284	.290	.00026	.0544	.00106	.005	.00318
%RSD	2.3550	2.6347	.30546	2.6167	.29705	.05236	5.4991
#1	11.731	10.693	.08607	2.0184	.35794	10.500	.05583
#2	12.169	11.140	.08650	2.0964	.35582	10.508	.06153
#3	12.263	11.238	.08603	2.1231	.35679	10.511	.05622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080504 Acquired: 6/29/2012 15:23:05 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01404**	F **878.67**	**.33825**	**1.0505**	**.52859**	**.01278**	**.39851**
Stddev	.00366	2.05	.00149	.0269	.01288	.00365	.00117
%RSD	26.081	.23380	.43984	2.5645	2.4360	28.583	.29352
#1	.01020	878.97	.33729	1.0198	.51405	.01561	.39717
#2	.01444	876.48	.33748	1.0616	.53318	.01406	.39928
#3	.01749	880.55	.33996	1.0701	.53855	.00866	.39909
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**23.893**
Stddev	.008
%RSD	.03345
#1	23.899
#2	23.895
#3	23.883
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**14008.**	**25663.**
Stddev	17.	383.
%RSD	.11899	1.4907
#1	13995.	26104.
#2	14002.	25463.
#3	14027.	25422.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080505 Acquired: 6/29/2012 15:26:27 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06213**	**85.191**	**.85954**	**.12135**	**2.1339**	**.00892**	F **2634.9**
Stddev	.00046	.295	.00300	.00557	.0325	.00003	40.7
%RSD	.74710	.34606	.34895	4.5876	1.5208	.38308	1.5448
#1	.06243	84.891	.86279	.11534	2.0972	.00895	2589.0
#2	.06236	85.480	.85687	.12239	2.1454	.00888	2649.1
#3	.06160	85.201	.85896	.12633	2.1590	.00893	2666.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.09930**	**.15160**	**.34454**	**.91154**	**513.58**	**28.811**	**.17495**
Stddev	.00013	.00033	.00096	.00117	7.77	.558	.00231
%RSD	.12864	.22003	.27941	.12870	1.5126	1.9368	1.3208
#1	.09940	.15157	.34547	.91274	504.75	28.182	.17244
#2	.09935	.15195	.34461	.91039	516.59	29.003	.17699
#3	.09916	.15128	.34355	.91149	519.39	29.247	.17542
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**94.599**	**11.966**	**.30606**	**6.3116**	**.96834**	**3.5840**	**.06672**
Stddev	1.631	.192	.00023	.0948	.00213	.0001	.00295
%RSD	1.7238	1.6077	.07440	1.5025	.21967	.00220	4.4211
#1	92.734	11.748	.30627	6.2050	.96768	3.5839	.06383
#2	95.311	12.038	.30582	6.3432	.96663	3.5841	.06973
#3	95.754	12.112	.30609	6.3866	.97072	3.5841	.06658
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080505 Acquired: 6/29/2012 15:26:27 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.29807**	F **537.94**	**.01792**	F **10.072**	**.13785**	**.02515**	**.71114**
Stddev	.00510	1.04	.00038	.200	.00277	.00193	.00345
%RSD	1.7116	.19365	2.1232	1.9840	2.0060	7.6565	.48477
#1	.29674	536.74	.01835	9.8469	.13494	.02369	.71070
#2	.29376	538.54	.01763	10.140	.14044	.02442	.71478
#3	.30370	538.54	.01777	10.229	.13818	.02733	.70793
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000		4.5000			
Low Limit		-1.0000		-.01000			

Elem	Zn2062
Units	ppm
Avg	**12.474**
Stddev	.006
%RSD	.05006
#1	12.473
#2	12.469
#3	12.481
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12762.**	**24911.**
Stddev	13.	83.
%RSD	.09912	.33307
#1	12763.	25004.
#2	12749.	24884.
#3	12775.	24844.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080506 Acquired: 6/29/2012 15:29:59 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.12314**	**108.17**	**1.7651**	**.15261**	**2.3484**	**.01160**	**689.12**
Stddev	.00030	.95	.0050	.00782	.0279	.00001	9.81
%RSD	.24752	.88229	.28094	5.1247	1.1901	.11106	1.4242
#1	.12310	107.11	1.7604	.14359	2.3167	.01162	678.38
#2	.12347	108.45	1.7703	.15671	2.3591	.01159	697.62
#3	.12286	108.96	1.7647	.15753	2.3695	.01159	691.38
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14623**	**.23151**	**.54753**	**1.7527**	**703.50**	**34.006**	**.11529**
Stddev	.00017	.00080	.00088	.0044	12.87	.476	.00214
%RSD	.11816	.34704	.15990	.25264	1.8295	1.4008	1.8527
#1	.14631	.23225	.54656	1.7578	688.72	33.478	.11428
#2	.14635	.23163	.54826	1.7497	709.49	34.139	.11385
#3	.14603	.23066	.54778	1.7505	712.28	34.403	.11774
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**34.773**	**10.118**	**.50172**	**7.3468**	**1.2828**	**8.6640**	**.07798**
Stddev	.365	.122	.00066	.0869	.0012	.0091	.00184
%RSD	1.0506	1.2028	.13203	1.1831	.09056	.10550	2.3596
#1	34.358	9.9794	.50248	7.2487	1.2837	8.6663	.08010
#2	34.915	10.167	.50143	7.3776	1.2815	8.6718	.07675
#3	35.045	10.208	.50125	7.4142	1.2831	8.6540	.07710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080506 Acquired: 6/29/2012 15:29:59 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.45545**	F **396.12**	**.01755**	**3.1635**	**.26098**	**.03541**	**1.0739**
Stddev	.00158	.87	.00039	.0235	.00350	.00536	.0012
%RSD	.34782	.22061	2.2113	.74340	1.3406	15.128	.11118
#1	.45647	395.30	.01800	3.1366	.25732	.03681	1.0742
#2	.45362	396.02	.01739	3.1740	.26133	.02949	1.0749
#3	.45624	397.04	.01728	3.1800	.26429	.03992	1.0726
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**20.310**
Stddev	.023
%RSD	.11441
#1	20.327
#2	20.319
#3	20.283
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13968.**	**26490.**
Stddev	9.	236.
%RSD	.06500	.89012
#1	13963.	26751.
#2	13962.	26425.
#3	13978.	26293.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 15:33:30 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39830**	**10.196**	**.40349**	**.50207**	**1.0446**	**.05144**	F **12.956**
Stddev	.00117	.070	.00231	.00360	.0198	.00002	4.205
%RSD	.29378	.68337	.57252	.71668	1.8989	.02948	32.453
#1	.39773	10.277	.40093	.50610	1.0675	.05145	17.806
#2	.39965	10.160	.40414	.50094	1.0341	.05145	10.734
#3	.39753	10.153	.40541	.49918	1.0322	.05143	10.329
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							10.000
Range							10.000%

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04921**	**.19815**	**.49985**	**.49847**	F **7.5362**	**54.806**	**1.0883**
Stddev	.00017	.00017	.00126	.00096	4.9111	.518	.0103
%RSD	.34414	.08517	.25290	.19281	65.167	.94464	.94704
#1	.04940	.19833	.49945	.49769	13.196	55.398	1.1001
#2	.04908	.19801	.50126	.49954	5.0161	54.586	1.0834
#3	.04915	.19810	.49883	.49817	4.3967	54.436	1.0812
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value					4.0000		
Range					10.000%		

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.573**	F **.55912**	**.99831**	**53.893**	**.51382**	**.50734**	**1.1909**
Stddev	.313	.06561	.00059	.459	.00057	.00160	.0032
%RSD	2.9566	11.734	.05926	.85090	.11039	.31618	.26925
#1	10.934	.63478	.99891	54.423	.51327	.50843	1.1878
#2	10.378	.52470	.99773	53.631	.51440	.50550	1.1905
#3	10.407	.51789	.99828	53.627	.51379	.50809	1.1942
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		.50000					
Range		10.000%					

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 15:33:30 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41054**	F **10.413**	**1.0095**	**1.0358**	**.98796**	**.51072**	**.99384**
Stddev	.00585	.577	.0014	.0243	.00926	.00165	.00287
%RSD	1.4245	5.5453	.13801	2.3484	.93728	.32273	.28879
#1	.41335	10.503	1.0110	1.0639	.99862	.50892	.99170
#2	.41445	10.941	1.0083	1.0224	.98191	.51108	.99710
#3	.40382	9.7964	1.0093	1.0212	.98335	.51215	.99272
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		5.0000					
Range		10.000%					

Elem	Zn2062
Units	ppm
Avg	**.99490**
Stddev	.00073
%RSD	.07343
#1	.99503
#2	.99412
#3	.99556
Check ?	Chk Pass
Value	
Range	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13415.**	**23428.**
Stddev	4.	167.
%RSD	.02825	.71469
#1	13414.	23240.
#2	13411.	23561.
#3	13419.	23484.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCB Acquired: 6/29/2012 15:36:46 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00090**	**.00489**	**.00081**	**-.00075**	**.00013**	**.00004**	**.02867**	**-.00019**
Stddev	.00015	.00201	.00164	.00212	.00009	.00003	.00803	.00019
%RSD	17.173	41.100	202.80	282.64	70.970	93.437	28.014	98.885
#1	.00107	.00667	.00269	-.00316	.00018	.00007	.03694	-.00024
#2	.00077	.00271	-.00026	.00010	.00002	.00002	.02090	-.00035
#3	.00085	.00530	-.00001	.00081	.00019	.00001	.02819	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00068**	**.00025**	**.00781**	**-.25132**	**.01275**	**.00599**	**-.00402**
Stddev	.00007	.00022	.00039	.00643	.01991	.00194	.03621	.00035
%RSD	159.25	33.266	154.25	82.333	7.9212	15.216	604.19	8.8340
#1	-.00007	.00078	.00055	.00145	-.22926	.01295	.02344	-.00363
#2	-.00010	.00042	.00039	.00767	-.26795	.01071	-.03564	-.00408
#3	.00004	.00083	-.00019	.01431	-.25677	.01458	.03018	-.00434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00089**	**.07210**	**-.00655**	**-.00167**	**.00172**	**-.00153**	**.30580**	**.00088**
Stddev	.00031	.00634	.00022	.00133	.00073	.00447	.34383	.00053
%RSD	35.351	8.7904	3.4367	79.495	42.640	291.38	112.44	60.595
#1	.00054	.06479	-.00658	-.00278	.00117	-.00627	-.09006	.00027
#2	.00097	.07593	-.00675	-.00020	.00143	-.00095	.47752	.00109
#3	.00115	.07559	-.00630	-.00202	.00255	.00262	.52994	.00127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Approved: July 02, 2012
Pierre Morris

Sample Name: CCB Acquired: 6/29/2012 15:36:46 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.00111**	**.00438**	**.00044**	**.00247**
Stddev	.00005	.00081	.00172	.00005	.00010
%RSD	15.663	73.298	39.369	11.927	4.1558
#1	.00030	.00204	.00538	.00040	.00236
#2	.00032	.00069	.00537	.00042	.00257
#3	.00040	.00059	.00239	.00050	.00249
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13326.**	**23323.**
Stddev	7.	72.
%RSD	.05383	.31065
#1	13330.	23253.
#2	13330.	23318.
#3	13318.	23398.

Approved: July 02, 2012
Pierre Morris

Sample Name: PBW 05 Acquired: 6/29/2012 15:40:15 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401956-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.00806**	**-.00043**	**-.00328**	**.00010**	**.00003**	**.03832**
Stddev	.00067	.00101	.00102	.00137	.00008	.00004	.00298
%RSD	588.67	12.530	235.13	41.614	75.247	124.28	7.7756
#1	.00002	.00693	-.00160	-.00365	.00006	.00007	.03819
#2	-.00084	.00836	.00023	-.00177	.00019	.00001	.03541
#3	.00048	.00888	.00007	-.00443	.00006	.00001	.04136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**-.00020**	**-.00226**	**-.00020**	**-.00796**	**-.26282**	**.01171**
Stddev	.00007	.00011	.00056	.00114	.00195	.04819	.00142
%RSD	62.407	57.949	24.987	569.82	24.523	18.336	12.157
#1	.00006	-.00027	-.00161	.00110	-.00998	-.21512	.01249
#2	.00019	-.00025	-.00266	-.00105	-.00608	-.31149	.01006
#3	.00008	-.00007	-.00249	-.00065	-.00782	-.26186	.01257
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.01012**	F **-.00478**	**-.00005**	**.06515**	**-.00732**	**-.00141**	**.00023**
Stddev	.01570	.00057	.00024	.00278	.00052	.00154	.00163
%RSD	155.14	11.819	442.46	4.2649	7.1401	109.75	700.62
#1	-.00936	-.00423	.00007	.06332	-.00744	-.00319	-.00164
#2	-.02618	-.00536	.00009	.06379	-.00674	-.00054	.00127
#3	.00519	-.00475	-.00033	.06835	-.00776	-.00050	.00106
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		180.00					
Low Limit		-.00300					

Approved: July 02, 2012
Pierre Morris

Sample Name: PBW 05 Acquired: 6/29/2012 15:40:15 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401956-02

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00223**	**-.04842**	**-.00132**	**.00017**	**.00055**	**.00193**	**.00003**
Stddev	.00233	.31661	.00004	.00005	.00025	.00143	.00017
%RSD	104.42	653.87	3.0368	27.245	45.862	74.187	654.64
#1	-.00178	.18323	-.00127	.00012	.00061	.00354	-.00006
#2	-.00016	-.40918	-.00134	.00022	.00028	.00145	-.00008
#3	-.00475	.08069	-.00134	.00017	.00078	.00080	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	**.00282**
Stddev	.00008
%RSD	2.8548
#1	.00287
#2	.00273
#3	.00287
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13276.**	**23261.**
Stddev	15.	74.
%RSD	.11552	.31944
#1	13271.	23183.
#2	13293.	23330.
#3	13263.	23272.

Approved: July 02, 2012
Pierre Morris

Sample Name: LCSW 05 Acquired: 6/29/2012 15:43:44 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401956-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19924**	**4.7960**	**.19262**	**.95791**	**.49787**	**.02470**	**4.9851**
Stddev	.00083	.0156	.00188	.00350	.00046	.00004	.0100
%RSD	.41879	.32421	.97590	.36489	.09330	.17837	.20046
#1	.19982	4.8130	.19045	.95697	.49794	.02474	4.9964
#2	.19963	4.7925	.19367	.96178	.49829	.02470	4.9816
#3	.19829	4.7824	.19374	.95499	.49737	.02466	4.9773
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02354**	**.09577**	**.23732**	**.23948**	**1.9687**	**26.250**	**.53678**
Stddev	.00008	.00018	.00139	.00080	.0047	.059	.00098
%RSD	.34817	.18846	.58673	.33311	.23846	.22359	.18262
#1	.02357	.09570	.23571	.23857	1.9634	26.276	.53697
#2	.02361	.09598	.23809	.24005	1.9724	26.183	.53765
#3	.02345	.09564	.23816	.23983	1.9704	26.291	.53572
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.0949**	**.25580**	**.50055**	**26.688**	**.24454**	**.24418**	**.55976**
Stddev	.0570	.00069	.00121	.048	.00062	.00437	.00116
%RSD	1.1178	.27055	.24261	.18123	.25520	1.7879	.20810
#1	5.0529	.25656	.49916	26.686	.24524	.24832	.55853
#2	5.0721	.25562	.50109	26.738	.24436	.24459	.55992
#3	5.1597	.25522	.50140	26.641	.24403	.23962	.56084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: LCSW 05 Acquired: 6/29/2012 15:43:44 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401956-03

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19343**	F **594.94**	**.00281**	**.49069**	**.47098**	**.24647**	**.48567**
Stddev	.00124	1.03	.00077	.00027	.00112	.00097	.00040
%RSD	.63881	.17353	27.541	.05555	.23716	.39172	.08170
#1	.19231	593.80	.00218	.49038	.46970	.24537	.48580
#2	.19323	595.23	.00258	.49081	.47177	.24719	.48599
#3	.19475	595.80	.00368	.49089	.47146	.24685	.48523
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.48573**
Stddev	.00031
%RSD	.06428
#1	.48540
#2	.48578
#3	.48602
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13296.**	**23208.**
Stddev	26.	23.
%RSD	.19585	.09877
#1	13323.	23182.
#2	13270.	23222.
#3	13295.	23221.

Approved: July 02, 2012
Pierre Morris

Sample Name: FBLK Acquired: 6/29/2012 15:46:59 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401904-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**.06320**	**-.00122**	**.00141**	**.00052**	**.00001**	**.12100**	**.00007**
Stddev	.00036	.00102	.00028	.00075	.00025	.00003	.00650	.00007
%RSD	90.955	1.6083	23.269	52.988	48.588	403.16	5.3733	104.48
#1	.00052	.06302	-.00091	.00083	.00060	-.00002	.12819	.00003
#2	.00069	.06429	-.00126	.00115	.00024	.00000	.11930	.00003
#3	-.00001	.06228	-.00148	.00225	.00073	.00005	.11552	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00082**	**.00100**	**.12709**	**-.23436**	**.01284**	**.05019**	**.00175**
Stddev	.00019	.00015	.00065	.00761	.03039	.00124	.00569	.00032
%RSD	312.86	17.868	64.946	5.9861	12.969	9.6274	11.341	18.449
#1	-.00023	.00078	.00046	.12044	-.22423	.01167	.04610	.00209
#2	-.00010	.00070	.00083	.13538	-.21032	.01413	.04778	.00169
#3	.00015	.00098	.00173	.12545	-.26852	.01271	.05669	.00146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**153.84**	**-.00701**	**.00028**	**-.00217**	**-.00546**	**27.074**	**-.00081**
Stddev	.00020	.22	.00111	.00064	.00164	.00429	.236	.00049
%RSD	727.56	.14409	15.850	232.13	75.396	78.584	.87146	60.338
#1	.00018	153.59	-.00590	.00006	-.00227	-.00074	26.900	-.00132
#2	-.00020	153.97	-.00702	-.00023	-.00049	-.00911	27.343	-.00077
#3	.00010	153.97	-.00812	.00100	-.00376	-.00652	26.980	-.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Approved: July 02, 2012
Pierre Morris

Sample Name: FBLK Acquired: 6/29/2012 15:46:59 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401904-01

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**.00351**	**.00300**	**.00032**	**.00723**
Stddev	.00006	.00147	.00147	.00028	.00022
%RSD	9.4328	41.958	49.212	87.063	3.0677
#1	.00067	.00300	.00299	.00003	.00708
#2	.00061	.00236	.00153	.00034	.00712
#3	.00055	.00517	.00448	.00058	.00748
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13311.**	**23322.**
Stddev	58.	64.
%RSD	.43428	.27414
#1	13312.	23278.
#2	13368.	23395.
#3	13253.	23292.

Approved: July 02, 2012
Pierre Morris

Sample Name: FBLK Acquired: 6/29/2012 15:50:28 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401904-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**.02124**	**.00112**	**-.00335**	**.00015**	**-.00001**	**.08330**	**.00012**
Stddev	.00020	.00112	.00075	.00125	.00014	.00003	.00550	.00015
%RSD	48.420	5.2496	67.493	37.335	95.708	227.69	6.6049	122.88
#1	.00047	.02130	.00183	-.00206	.00009	-.00004	.07726	-.00004
#2	.00019	.02232	.00033	-.00341	.00031	-.00002	.08463	.00016
#3	.00058	.02010	.00120	-.00456	.00004	.00002	.08802	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**-.00084**	**.00028**	**.00462**	**-.25849**	**.01378**	**.02647**	**-.00284**
Stddev	.00016	.00018	.00051	.00256	.03215	.00281	.00990	.00030
%RSD	82.431	21.581	184.80	55.457	12.438	20.395	37.403	10.689
#1	-.00037	-.00087	.00051	.00756	-.29287	.01064	.02634	-.00317
#2	-.00005	-.00101	.00064	.00335	-.22917	.01605	.03644	-.00257
#3	-.00016	-.00065	-.00031	.00294	-.25343	.01464	.01664	-.00277
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.13472**	**-.00753**	**.00071**	**-.00060**	**-.00247**	**18.190**	**-.00040**
Stddev	.00012	.01005	.00038	.00086	.00109	.00425	.098	.00034
%RSD	54.984	7.4591	5.0056	120.71	183.65	171.86	.53725	85.342
#1	-.00034	.13794	-.00780	.00030	.00063	-.00659	18.093	-.00004
#2	-.00011	.12345	-.00710	.00171	-.00095	.00189	18.288	-.00043
#3	-.00019	.14276	-.00770	.00013	-.00147	-.00271	18.190	-.00071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Approved: July 02, 2012
Pierre Morris

Sample Name: FBLK Acquired: 6/29/2012 15:50:28 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401904-02

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.00363**	**-.00181**	**.00042**	**.00583**
Stddev	.00011	.00167	.00085	.00023	.00025
%RSD	34.564	46.026	46.788	55.363	4.2851
#1	.00033	.00551	-.00147	.00049	.00594
#2	.00043	.00231	-.00119	.00060	.00554
#3	.00021	.00307	-.00278	.00016	.00600
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13328.**	**23333.**
Stddev	8.	59.
%RSD	.05985	.25380
#1	13331.	23372.
#2	13318.	23362.
#3	13333.	23264.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206078501 Acquired: 6/29/2012 15:53:57 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401956-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**.29033**	**.00131**	**.08737**	**.01741**	**.00002**	**84.869**
Stddev	.00016	.00124	.00216	.00089	.00009	.00003	.129
%RSD	29.255	.42543	164.71	1.0174	.50839	133.56	.15197
#1	.00055	.29155	-.00074	.08820	.01750	-.00001	84.725
#2	.00071	.29036	.00112	.08747	.01733	.00006	84.907
#3	.00039	.28908	.00356	.08643	.01739	.00002	84.974
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**.00060**	**.04922**	**.00342**	**1.0392**	**.77379**	**.02918**
Stddev	.00009	.00019	.00060	.00020	.0076	.07532	.00170
%RSD	20.142	32.338	1.2242	5.8989	.72684	9.7337	5.8310
#1	.00051	.00067	.04968	.00361	1.0307	.71604	.03111
#2	.00035	.00076	.04854	.00345	1.0453	.74636	.02850
#3	.00050	.00038	.04944	.00321	1.0416	.85899	.02792
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96237**	**.06585**	**.00151**	**160.73**	**-.00612**	**.01936**	**-.00103**
Stddev	.02176	.00039	.00013	.14	.00041	.00031	.00094
%RSD	2.2606	.59149	8.4588	.08776	6.7443	1.6237	90.961
#1	.94060	.06616	.00136	160.62	-.00628	.01936	.00002
#2	.98411	.06598	.00160	160.69	-.00565	.01968	-.00134
#3	.96241	.06541	.00156	160.89	-.00642	.01905	-.00177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206078501 Acquired: 6/29/2012 15:53:57 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401956-01

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00298**	F **349.09**	**-.00070**	**.07789**	**.00271**	**.00568**	**.00294**
Stddev	.00489	.06	.00011	.00008	.00086	.00294	.00045
%RSD	164.16	.01735	15.536	.09951	31.743	51.730	15.381
#1	.00126	349.11	-.00058	.07798	.00309	.00343	.00247
#2	-.00186	349.13	-.00071	.07787	.00331	.00459	.00337
#3	-.00832	349.02	-.00080	.07783	.00172	.00900	.00299
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.12149**
Stddev	.00011
%RSD	.09188
#1	.12162
#2	.12146
#3	.12140
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13163.**	**23240.**
Stddev	16.	98.
%RSD	.11926	.42304
#1	13152.	23142.
#2	13181.	23338.
#3	13156.	23240.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206078501S Acquired: 6/29/2012 15:57:24 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401956-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20318**	**5.0149**	**.19613**	**1.0705**	**.51427**	**.02520**	**89.361**
Stddev	.00098	.0284	.00350	.0062	.00043	.00013	.099
%RSD	.48357	.56691	1.7835	.58058	.08452	.50741	.11079
#1	.20425	5.0447	.19966	1.0755	.51382	.02531	89.303
#2	.20299	4.9881	.19267	1.0725	.51431	.02522	89.305
#3	.20231	5.0120	.19606	1.0636	.51469	.02506	89.476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02408**	**.09595**	**.28975**	**.23717**	**2.1067**	**27.321**	**.55186**
Stddev	.00013	.00042	.00262	.00070	.0052	.067	.00143
%RSD	.52080	.43492	.90305	.29410	.24628	.24685	.25828
#1	.02413	.09606	.29233	.23697	2.1013	27.354	.55094
#2	.02418	.09548	.28983	.23795	2.1072	27.244	.55114
#3	.02394	.09629	.28709	.23660	2.1117	27.366	.55350
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.8702**	**.27315**	**.50837**	**186.40**	**.24244**	**.24779**	**.56567**
Stddev	.0347	.00034	.00060	.15	.00056	.00034	.00142
%RSD	.59028	.12514	.11796	.08313	.23077	.13837	.25114
#1	5.8952	.27351	.50905	186.32	.24232	.24741	.56429
#2	5.8307	.27283	.50793	186.29	.24195	.24809	.56559
#3	5.8849	.27311	.50813	186.58	.24305	.24785	.56713
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206078501S Acquired: 6/29/2012 15:57:24 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401956-04

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19769**	F **1022.0**	**.00048**	**.56732**	**.47934**	**.24580**	**.49511**
Stddev	.00203	1.5	.00049	.00052	.00112	.00171	.00318
%RSD	1.0260	.14857	101.38	.09095	.23349	.69551	.64324
#1	.19644	1022.6	.00087	.56733	.47812	.24458	.49792
#2	.19659	1023.1	.00064	.56680	.47958	.24776	.49576
#3	.20003	1020.2	-.00007	.56783	.48032	.24507	.49165
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.49023**
Stddev	.00147
%RSD	.29967
#1	.49143
#2	.49067
#3	.48859
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13034.**	**23149.**
Stddev	61.	84.
%RSD	.46737	.36259
#1	12983.	23081.
#2	13017.	23243.
#3	13101.	23124.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206078501SD Acquired: 6/29/2012 16:00:38 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401956-05

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20208**	**4.9360**	**.19715**	**1.0683**	**.51250**	**.02522**	**89.665**
Stddev	.00017	.0032	.00157	.0019	.00058	.00007	.046
%RSD	.08636	.06536	.79712	.17750	.11348	.28513	.05183
#1	.20212	4.9326	.19893	1.0666	.51307	.02524	89.612
#2	.20189	4.9391	.19597	1.0678	.51254	.02514	89.694
#3	.20224	4.9363	.19653	1.0703	.51191	.02528	89.691
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02386**	**.09545**	**.28906**	**.23622**	**2.1049**	**27.272**	**.55154**
Stddev	.00013	.00037	.00116	.00088	.0089	.030	.00152
%RSD	.55265	.38249	.40116	.37244	.42347	.10898	.27496
#1	.02401	.09587	.28988	.23599	2.1112	27.240	.55247
#2	.02379	.09517	.28773	.23719	2.1089	27.298	.54979
#3	.02378	.09532	.28956	.23547	2.0947	27.279	.55236
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.8396**	**.27296**	**.50691**	**187.73**	**.24239**	**.24242**	**.56872**
Stddev	.0120	.00034	.00119	.13	.00133	.00074	.00125
%RSD	.20497	.12428	.23437	.06670	.54824	.30620	.22056
#1	5.8533	.27330	.50620	187.72	.24161	.24277	.56728
#2	5.8312	.27262	.50624	187.85	.24163	.24156	.56927
#3	5.8344	.27295	.50828	187.60	.24392	.24291	.56960
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206078501SD Acquired: 6/29/2012 16:00:38 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401956-05

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19784**	F **994.10**	**.00045**	**.56538**	**.47491**	**.24316**	**.49326**
Stddev	.00497	1.11	.00082	.00042	.00128	.00197	.00045
%RSD	2.5140	.11204	184.58	.07405	.26964	.81050	.09152
#1	.19443	993.45	.00065	.56579	.47618	.24149	.49339
#2	.20354	993.45	.00115	.56541	.47362	.24267	.49276
#3	.19554	995.38	-.00046	.56495	.47494	.24534	.49363
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.48980**
Stddev	.00056
%RSD	.11406
#1	.48983
#2	.48923
#3	.49035
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13147.**	**23391.**
Stddev	5.	52.
%RSD	.04051	.22055
#1	13145.	23406.
#2	13153.	23333.
#3	13143.	23432.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206079701 Acquired: 6/29/2012 16:03:54 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**.20598**	**.00841**	**.02957**	**.01100**	**.00000**	**8.7004**
Stddev	.00054	.00042	.00189	.00085	.00015	.00003	.0073
%RSD	119.06	.20600	22.471	2.8660	1.3788	1863.6	.08355
#1	.00107	.20549	.00625	.02947	.01083	.00003	8.7012
#2	.00022	.20621	.00978	.03046	.01111	-.00001	8.6927
#3	.00006	.20624	.00920	.02877	.01107	-.00002	8.7071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.00609**	**.00344**	**.00453**	**1.2359**	**1.2447**	**.01100**
Stddev	.00001	.00016	.00049	.00054	.0061	.0201	.00024
%RSD	8.6767	2.6547	14.153	12.012	.49237	1.6180	2.1837
#1	.00014	.00615	.00396	.00422	1.2291	1.2563	.01127
#2	.00013	.00591	.00299	.00421	1.2408	1.2564	.01092
#3	.00015	.00622	.00338	.00516	1.2379	1.2215	.01082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.0276**	**.55187**	**.00068**	**146.11**	**.00583**	**.03352**	**-.00068**
Stddev	.0401	.00044	.00024	.10	.00051	.00320	.00265
%RSD	1.9796	.08013	35.610	.06903	8.8031	9.5560	389.64
#1	1.9813	.55203	.00062	146.21	.00584	.03442	.00207
#2	2.0527	.55137	.00047	146.11	.00634	.02996	-.00089
#3	2.0489	.55221	.00095	146.00	.00531	.03617	-.00322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206079701 Acquired: 6/29/2012 16:03:54 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00450**	F **88.706**	**-.00068**	**.03303**	**.00361**	**.00198**	**.00079**
Stddev	.00121	.135	.00052	.00007	.00083	.00056	.00013
%RSD	27.004	.15257	76.611	.21279	22.984	28.319	16.329
#1	-.00377	88.759	-.00008	.03311	.00346	.00133	.00085
#2	-.00382	88.806	-.00104	.03297	.00451	.00230	.00088
#3	-.00590	88.552	-.00092	.03301	.00287	.00230	.00064
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.09922**
Stddev	.00019
%RSD	.18750
#1	.09942
#2	.09906
#3	.09919
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13352.**	**23595.**
Stddev	9.	40.
%RSD	.07043	.16963
#1	13341.	23579.
#2	13355.	23565.
#3	13359.	23640.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206079701PS Acquired: 6/29/2012 16:07:18 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401974-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20309**	**5.0564**	**.20121**	**1.0044**	**.51165**	**.02539**	**12.768**
Stddev	.00117	.0138	.00139	.0024	.00112	.00014	.029
%RSD	.57714	.27274	.69279	.24010	.21943	.55848	.22952
#1	.20183	5.0553	.19989	1.0016	.51055	.02522	12.740
#2	.20328	5.0431	.20266	1.0058	.51279	.02546	12.799
#3	.20415	5.0706	.20108	1.0057	.51160	.02547	12.765
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02381**	**.10116**	**.23815**	**.24174**	**3.0764**	**27.635**	**.53672**
Stddev	.00008	.00014	.00075	.00073	.0098	.061	.00129
%RSD	.32037	.13552	.31440	.30379	.31879	.21926	.24042
#1	.02390	.10100	.23729	.24090	3.0749	27.565	.53799
#2	.02377	.10122	.23857	.24211	3.0868	27.678	.53541
#3	.02376	.10126	.23859	.24223	3.0674	27.660	.53676
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**6.8971**	**.74542**	**.50548**	**158.02**	**.24991**	**.27245**	**.56412**
Stddev	.0078	.00107	.00073	.15	.00124	.00061	.00029
%RSD	.11307	.14311	.14504	.09293	.49779	.22381	.05220
#1	6.9030	.74468	.50485	158.04	.25080	.27231	.56412
#2	6.9001	.74494	.50529	158.15	.24849	.27312	.56442
#3	6.8883	.74665	.50629	157.86	.25045	.27193	.56383
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206079701PS Acquired: 6/29/2012 16:07:18 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401974-03

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19655**	F **687.81**	**-.00083**	**.51998**	**.47698**	**.24671**	**.49209**
Stddev	.00143	1.37	.00032	.00052	.00113	.00123	.00168
%RSD	.72948	.19885	38.233	.10075	.23782	.49751	.34085
#1	.19492	686.29	-.00114	.51943	.47670	.24668	.49017
#2	.19760	688.20	-.00050	.52047	.47602	.24795	.49279
#3	.19714	688.94	-.00084	.52005	.47823	.24550	.49330
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.57131**
Stddev	.00030
%RSD	.05291
#1	.57140
#2	.57098
#3	.57156
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13264.**	**23488.**
Stddev	18.	32.
%RSD	.13621	.13466
#1	13283.	23471.
#2	13263.	23525.
#3	13247.	23469.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206079701DL Acquired: 6/29/2012 16:10:33 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401974-04

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**.04184**	**.00214**	**.00639**	**.00214**	**.00001**	**1.7905**	**-.00011**
Stddev	.00040	.00342	.00210	.00116	.00012	.00003	.0038	.00010
%RSD	78.722	8.1701	98.036	18.101	5.7875	264.87	.21236	92.466
#1	.00064	.04569	.00175	.00506	.00227	.00004	1.7915	-.00010
#2	.00084	.04063	.00026	.00716	.00203	-.00002	1.7863	-.00001
#3	.00006	.03918	.00440	.00696	.00212	.00002	1.7938	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00141**	**-.00297**	**-.00007**	**.23608**	**.03992**	**.01130**	**.42770**	**.10835**
Stddev	.00016	.00035	.00011	.00108	.05921	.00127	.01750	.00040
%RSD	11.409	11.887	154.17	.45906	148.32	11.232	4.0916	.36497
#1	.00151	-.00323	.00004	.23581	.10035	.01000	.40795	.10802
#2	.00150	-.00311	-.00017	.23727	-.01799	.01254	.44125	.10824
#3	.00123	-.00257	-.00008	.23515	.03739	.01136	.43391	.10879
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**29.954**	**-.00569**	**.00491**	**.00005**	**-.00595**	**17.553**	**-.00119**
Stddev	.00014	.045	.00055	.00181	.00212	.00178	.303	.00014
%RSD	58.731	.15103	9.5882	36.959	4098.4	29.903	1.7279	12.127
#1	.00029	29.998	-.00592	.00282	-.00224	-.00697	17.276	-.00122
#2	.00008	29.955	-.00507	.00610	.00194	-.00389	17.506	-.00103
#3	.00033	29.908	-.00608	.00581	.00045	-.00698	17.877	-.00132
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206079701DL Acquired: 6/29/2012 16:10:33 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401974-04

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00670**	**.00209**	**.00356**	**.00012**	**.02177**
Stddev	.00008	.00032	.00155	.00027	.00005
%RSD	1.1373	15.135	43.600	225.48	.22272
#1	.00667	.00173	.00416	.00039	.02182
#2	.00679	.00220	.00472	-.00014	.02176
#3	.00665	.00233	.00180	.00011	.02172
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13621.**	**23867.**
Stddev	26.	42.
%RSD	.19285	.17768
#1	13643.	23881.
#2	13629.	23901.
#3	13592.	23819.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 16:14:01 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39890**	**10.096**	**.40426**	**.50292**	**1.0345**	**.05126**	**10.209**
Stddev	.00093	.008	.00506	.00132	.0086	.00005	.080
%RSD	.23405	.07490	1.2522	.26249	.83475	.10538	.78044
#1	.39976	10.088	.40981	.50145	1.0246	.05120	10.123
#2	.39791	10.098	.40308	.50400	1.0381	.05130	10.226
#3	.39903	10.102	.39990	.50331	1.0407	.05128	10.279
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04952**	**.19892**	**.49775**	**.50150**	**4.2391**	**54.529**	**1.0792**
Stddev	.00010	.00034	.00065	.00077	.0353	.324	.0086
%RSD	.20411	.16881	.13077	.15383	.83189	.59348	.79910
#1	.04963	.19902	.49850	.50222	4.1988	54.158	1.0695
#2	.04943	.19854	.49740	.50160	4.2543	54.674	1.0819
#3	.04950	.19919	.49735	.50069	4.2643	54.755	1.0861
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.243**	**.51379**	**1.0034**	**53.534**	**.51501**	**.50808**	**1.1982**
Stddev	.124	.00503	.0006	.348	.00059	.00104	.0025
%RSD	1.2079	.97846	.06331	.65021	.11361	.20376	.20613
#1	10.114	.50803	1.0039	53.143	.51434	.50832	1.2005
#2	10.254	.51610	1.0035	53.645	.51525	.50898	1.1985
#3	10.360	.51726	1.0027	53.812	.51543	.50695	1.1956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 16:14:01 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41340**	F **10.346**	**1.0116**	**1.0172**	**.98091**	**.50972**	**.98889**
Stddev	.00577	.570	.0007	.0080	.00690	.00329	.00177
%RSD	1.3955	5.5128	.06893	.78108	.70300	.64600	.17908
#1	.40726	10.854	1.0116	1.0082	.97427	.50763	.98986
#2	.41870	10.456	1.0109	1.0204	.98042	.51351	.98995
#3	.41424	9.7290	1.0122	1.0230	.98803	.50801	.98684
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		5.0000					
Range		10.000%					

Elem	Zn2062
Units	ppm
Avg	**.99350**
Stddev	.00117
%RSD	.11825
#1	.99481
#2	.99316
#3	.99254
Check ?	Chk Pass
Value	
Range	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13148.**	**23146.**
Stddev	13.	16.
%RSD	.10067	.07100
#1	13134.	23147.
#2	13159.	23161.
#3	13153.	23129.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCB Acquired: 6/29/2012 16:17:15 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**.00571**	**-.00167**	**-.00042**	**.00010**	**.00001**	**.02408**	**.00008**
Stddev	.00037	.00327	.00194	.00167	.00009	.00004	.01280	.00009
%RSD	101.81	57.229	116.77	395.12	82.133	498.24	53.168	124.31
#1	-.00001	.00194	.00026	-.00090	.00015	-.00002	.03828	.00000
#2	.00038	.00782	-.00363	.00143	.00001	.00000	.02054	.00005
#3	.00073	.00735	-.00162	-.00180	.00016	.00005	.01342	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00070**	**-.00019**	**.00770**	**-.22145**	**.01475**	**.02335**	**-.00398**
Stddev	.00009	.00019	.00024	.00293	.02876	.00239	.01794	.00029
%RSD	262.83	26.896	125.46	38.043	12.985	16.235	76.850	7.1571
#1	-.00007	.00050	-.00043	.00480	-.25454	.01622	.00289	-.00377
#2	.00006	.00087	.00004	.00765	-.20733	.01604	.03076	-.00431
#3	.00011	.00074	-.00017	.01066	-.20249	.01199	.03639	-.00387
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00105**	**.08790**	**-.00658**	**-.00039**	**.00097**	**-.00201**	**.14247**	**.00057**
Stddev	.00020	.00586	.00005	.00328	.00190	.00179	.22771	.00036
%RSD	19.280	6.6658	.78529	833.93	194.90	88.812	159.82	62.469
#1	.00105	.09453	-.00664	-.00254	-.00091	-.00002	.03673	.00091
#2	.00084	.08344	-.00657	-.00203	.00094	-.00348	-.01313	.00060
#3	.00125	.08572	-.00654	.00339	.00289	-.00253	.40383	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Approved: July 02, 2012
Pierre Morris

Sample Name: CCB Acquired: 6/29/2012 16:17:15 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**.00183**	**.00341**	**.00043**	**.00235**
Stddev	.00005	.00111	.00213	.00023	.00013
%RSD	12.933	60.504	62.601	52.612	5.3525
#1	.00045	.00059	.00096	.00067	.00245
#2	.00037	.00218	.00440	.00042	.00221
#3	.00036	.00273	.00486	.00022	.00239
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13168.**	**23112.**
Stddev	12.	30.
%RSD	.09409	.13100
#1	13165.	23089.
#2	13182.	23146.
#3	13157.	23102.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1203083701 Acquired: 6/29/2012 16:20:52 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.05862**	**-.00047**	**.06562**	**.06379**	**-.00004**	**71.370**
Stddev	.00073	.00116	.00245	.00030	.00013	.00001	.187
%RSD	215.81	1.9789	525.85	.45129	.20600	41.169	.26250
#1	.00102	.05860	.00042	.06528	.06364	-.00005	71.156
#2	-.00043	.05747	-.00324	.06582	.06390	-.00004	71.503
#3	.00042	.05978	.00142	.06576	.06382	-.00002	71.453
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.00020**	**-.00201**	**.00077**	**.03918**	**.00156**	**.01198**
Stddev	.00004	.00013	.00075	.00027	.00369	.03599	.00262
%RSD	44.948	66.970	37.230	35.062	9.4151	2304.6	21.836
#1	.00012	.00005	-.00271	.00077	.03707	-.02579	.01181
#2	.00004	.00023	-.00210	.00050	.03703	.04234	.00946
#3	.00012	.00030	-.00122	.00105	.04344	-.01186	.01468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.4373**	**.17978**	**.00008**	**159.72**	**-.00558**	**-.00109**	**.00104**
Stddev	.0193	.00035	.00018	.14	.00084	.00101	.00334
%RSD	1.3405	.19736	222.39	.08812	15.099	92.177	319.93
#1	1.4207	.17948	.00009	159.56	-.00461	-.00024	.00488
#2	1.4584	.17968	-.00010	159.76	-.00596	-.00221	-.00125
#3	1.4326	.18017	.00025	159.84	-.00616	-.00083	-.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1203083701 Acquired: 6/29/2012 16:20:52 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00208**	F **83.036**	**-.00042**	**.19088**	**.00512**	**.00237**	**.00046**
Stddev	.00217	.946	.00021	.00036	.00007	.00425	.00016
%RSD	104.16	1.1395	50.906	.18912	1.2988	179.72	34.082
#1	-.00096	81.961	-.00024	.19053	.00504	-.00157	.00061
#2	-.00459	83.404	-.00036	.19086	.00516	.00688	.00030
#3	-.00071	83.743	-.00065	.19126	.00516	.00179	.00045
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.01597**
Stddev	.00014
%RSD	.90595
#1	.01581
#2	.01607
#3	.01604
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13090.**	**23189.**
Stddev	11.	44.
%RSD	.08622	.19113
#1	13090.	23141.
#2	13079.	23196.
#3	13101.	23228.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1203083702 Acquired: 6/29/2012 16:24:18 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.45628**	**.00178**	**.07752**	**.07033**	**.00001**	**65.446**
Stddev	.00068	.00350	.00189	.00171	.00045	.00003	.053
%RSD	700.29	.76610	106.49	2.2084	.64039	247.33	.08127
#1	-.00009	.45227	.00155	.07627	.06982	.00003	65.384
#2	.00085	.45872	.00378	.07947	.07048	.00003	65.478
#3	-.00047	.45784	.00001	.07681	.07068	-.00002	65.475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00085**	**-.00192**	**.00017**	**4.1034**	**.28035**	**.01254**
Stddev	.00004	.00022	.00021	.00111	.0089	.00864	.00125
%RSD	187.42	26.198	10.657	654.13	.21737	3.0836	10.001
#1	.00002	.00060	-.00213	-.00080	4.1137	.27449	.01399
#2	-.00002	.00094	-.00192	-.00007	4.0980	.27627	.01185
#3	.00006	.00102	-.00172	.00138	4.0985	.29028	.01179
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.2692**	**.22889**	**.00011**	**165.79**	**-.00409**	**.00084**	**-.00109**
Stddev	.0115	.00089	.00021	.14	.00068	.00135	.00136
%RSD	.90719	.38949	184.34	.08709	16.635	160.59	124.44
#1	1.2569	.22841	.00024	165.77	-.00331	.00071	-.00017
#2	1.2711	.22834	-.00013	165.66	-.00437	.00225	-.00266
#3	1.2797	.22992	.00023	165.95	-.00459	-.00044	-.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1203083702 Acquired: 6/29/2012 16:24:18 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00123**	F **89.930**	**-.00042**	**.23463**	**.00689**	**.00153**	**.00107**
Stddev	.00360	.228	.00055	.00040	.00030	.00195	.00044
%RSD	292.67	.25321	130.19	.16836	4.3024	127.25	41.581
#1	-.00510	90.095	-.00067	.23481	.00712	-.00068	.00149
#2	.00201	90.026	.00021	.23418	.00656	.00300	.00112
#3	-.00060	89.671	-.00080	.23490	.00700	.00227	.00060
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.02607**
Stddev	.00003
%RSD	.12280
#1	.02605
#2	.02605
#3	.02610
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13067.**	**23251.**
Stddev	18.	70.
%RSD	.13415	.30202
#1	13078.	23184.
#2	13046.	23245.
#3	13075.	23324.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1203083703 Acquired: 6/29/2012 16:27:44 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.28671**	**-.00028**	**.06731**	**.07332**	**.00004**	**69.575**	**-.00009**
Stddev	.00071	.00276	.00104	.00072	.00025	.00004	.048	.00012
%RSD	510.40	.96197	377.74	1.0680	.34487	98.938	.06969	126.59
#1	.00052	.28509	-.00090	.06764	.07304	.00007	69.522	-.00021
#2	-.00090	.28990	.00093	.06781	.07340	.00000	69.618	.00003
#3	-.00005	.28515	-.00086	.06649	.07353	.00004	69.586	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**-.00172**	**.00092**	**.52451**	**.13613**	**.01284**	**1.4228**	**.23772**
Stddev	.00016	.00007	.00035	.00798	.04823	.00093	.0253	.00027
%RSD	26.181	4.0997	38.348	1.5217	35.433	7.2525	1.7804	.11494
#1	.00049	-.00177	.00096	.51565	.08500	.01201	1.3977	.23768
#2	.00054	-.00174	.00126	.53113	.18082	.01385	1.4484	.23802
#3	.00078	-.00164	.00056	.52674	.14256	.01265	1.4223	.23747
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**160.78**	**-.00549**	**.00177**	**.00056**	**-.00291**	**59.483**	**-.00038**
Stddev	.00019	.06	.00061	.00157	.00350	.00160	.509	.00025
%RSD	275.71	.03687	11.136	88.584	627.54	55.042	.85549	66.236
#1	.00002	160.74	-.00600	.00028	.00134	-.00348	58.910	-.00010
#2	-.00009	160.75	-.00565	.00341	.00360	-.00414	59.656	-.00060
#3	.00028	160.84	-.00481	.00164	-.00327	-.00110	59.883	-.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Approved: July 02, 2012
Pierre Morris

Sample Name: L1203083703 Acquired: 6/29/2012 16:27:44 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.16664**	**.00622**	**.00255**	**.00053**	**.04464**
Stddev	.00019	.00074	.00065	.00059	.00002
%RSD	.11546	11.857	25.517	110.94	.05513
#1	.16642	.00539	.00329	.00089	.04464
#2	.16680	.00681	.00203	.00085	.04461
#3	.16669	.00645	.00234	-.00015	.04466
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13225.**	**23563.**
Stddev	20.	89.
%RSD	.15029	.37709
#1	13202.	23647.
#2	13233.	23470.
#3	13239.	23573.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1203083704 Acquired: 6/29/2012 16:31:10 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.61640**	**.00342**	**.08400**	**.08154**	**.00000**	**65.561**	**.00015**
Stddev	.00065	.00259	.00264	.00055	.00004	.00002	.088	.00001
%RSD	11412.	.42068	76.984	.65952	.05189	348.48	.13429	5.0437
#1	.00026	.61346	.00357	.08370	.08150	-.00001	65.558	.00015
#2	.00049	.61738	.00598	.08464	.08155	.00002	65.475	.00014
#3	-.00074	.61836	.00072	.08366	.08158	.00001	65.651	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00089**	**-.00135**	**.00126**	**1.6914**	**.12585**	**.01461**	**1.3894**	**.28001**
Stddev	.00021	.00035	.00034	.0113	.05636	.00134	.0203	.00038
%RSD	23.583	25.826	27.244	.66791	44.786	9.1954	1.4611	.13567
#1	.00084	-.00159	.00160	1.6818	.14484	.01439	1.3946	.27957
#2	.00071	-.00095	.00129	1.6886	.17025	.01339	1.3671	.28027
#3	.00112	-.00151	.00091	1.7039	.06244	.01605	1.4067	.28018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**158.81**	**-.00518**	**.00610**	**-.00092**	**-.00343**	**66.301**	**-.00028**
Stddev	.00021	.11	.00084	.00259	.00144	.00202	.373	.00018
%RSD	83.862	.07114	16.276	42.512	156.13	58.958	.56247	63.501
#1	.00047	158.90	-.00598	.00633	-.00257	-.00569	66.719	-.00015
#2	.00006	158.68	-.00430	.00856	-.00026	-.00179	66.181	-.00021
#3	.00021	158.84	-.00526	.00340	.00006	-.00280	66.003	-.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Approved: July 02, 2012
Pierre Morris

Sample Name: L1203083704 Acquired: 6/29/2012 16:31:10 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.16590**	**.00304**	**.00245**	**.00129**	**.19329**
Stddev	.00029	.00045	.00239	.00053	.00016
%RSD	.17665	14.674	97.294	41.175	.08255
#1	.16581	.00330	.00031	.00085	.19333
#2	.16567	.00329	.00503	.00188	.19312
#3	.16623	.00252	.00203	.00114	.19343
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13122.**	**23605.**
Stddev	17.	52.
%RSD	.12815	.22108
#1	13125.	23578.
#2	13104.	23666.
#3	13138.	23573.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1203083705 Acquired: 6/29/2012 16:34:35 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00086**	**.06872**	**.00025**	**.09833**	**.06183**	**.00003**	**38.817**	**.00011**
Stddev	.00048	.00271	.00170	.00032	.00018	.00001	.033	.00007
%RSD	56.464	3.9444	670.07	.32609	.28849	36.817	.08496	68.128
#1	.00035	.06811	.00001	.09841	.06165	.00005	38.784	.00019
#2	.00090	.07169	-.00131	.09860	.06200	.00003	38.817	.00005
#3	.00132	.06637	.00206	.09798	.06184	.00002	38.850	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00086**	**-.00124**	**.00040**	**2.2834**	**.06934**	**.01278**	**1.1103**	**.12535**
Stddev	.00014	.00024	.00051	.0024	.03280	.00146	.0174	.00022
%RSD	16.698	19.494	127.83	.10358	47.299	11.413	1.5706	.17560
#1	.00070	-.00099	.00001	2.2853	.07087	.01114	1.0907	.12523
#2	.00092	-.00147	.00098	2.2807	.10134	.01328	1.1241	.12560
#3	.00097	-.00127	.00021	2.2841	.03580	.01392	1.1161	.12520
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**159.15**	**-.00368**	**.00106**	**-.00031**	**-.00036**	**71.645**	**-.00042**
Stddev	.00028	.01	.00025	.00056	.00160	.00202	.114	.00039
%RSD	94.431	.00820	6.6828	53.093	515.25	562.55	.15922	94.350
#1	-.00047	159.17	-.00340	.00166	.00151	-.00025	71.630	-.00001
#2	.00003	159.15	-.00380	.00055	-.00151	.00160	71.539	-.00079
#3	-.00044	159.14	-.00384	.00097	-.00094	-.00243	71.766	-.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Approved: July 02, 2012
Pierre Morris

Sample Name: L1203083705 Acquired: 6/29/2012 16:34:35 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14811**	**.00778**	**.00328**	**.00030**	**.25569**
Stddev	.00005	.00164	.00132	.00012	.00037
%RSD	.03275	21.086	40.148	41.516	.14536
#1	.14817	.00590	.00285	.00032	.25543
#2	.14807	.00854	.00223	.00017	.25552
#3	.14811	.00890	.00476	.00041	.25611
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13136.**	**23389.**
Stddev	23.	63.
%RSD	.17751	.26873
#1	13160.	23320.
#2	13136.	23405.
#3	13113.	23442.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1203083706 Acquired: 6/29/2012 16:38:01 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.03736**	**.00080**	**.07854**	**.04727**	**-.00004**	**69.753**	**.00003**
Stddev	.00062	.00108	.00320	.00090	.00010	.00002	.088	.00012
%RSD	471.37	2.8795	399.29	1.1465	.21170	57.856	.12613	349.14
#1	-.00052	.03621	-.00079	.07847	.04731	-.00005	69.805	.00013
#2	.00021	.03834	.00448	.07768	.04715	-.00001	69.804	-.00010
#3	.00070	.03754	-.00129	.07948	.04734	-.00005	69.652	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**-.00142**	**.00043**	**.03043**	**.04679**	**.01318**	**1.5812**	**.16808**
Stddev	.00013	.00119	.00014	.00545	.02371	.00089	.0079	.00035
%RSD	34.552	84.145	31.605	17.923	50.662	6.7334	.50180	.21044
#1	.00043	-.00008	.00042	.03139	.04254	.01344	1.5724	.16782
#2	.00050	-.00181	.00030	.02456	.07233	.01219	1.5836	.16795
#3	.00024	-.00236	.00057	.03535	.02550	.01390	1.5878	.16849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**163.01**	**-.00560**	**-.00085**	**.00095**	**-.00080**	**66.057**	**-.00097**
Stddev	.00050	.25	.00037	.00092	.00221	.00127	.077	.00036
%RSD	278.59	.15256	6.6559	107.65	232.18	157.80	.11659	37.428
#1	-.00074	163.26	-.00537	-.00187	.00349	-.00077	66.128	-.00121
#2	.00020	163.02	-.00603	-.00061	-.00056	.00045	65.975	-.00055
#3	.00000	162.76	-.00541	-.00008	-.00008	-.00209	66.068	-.00116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Approved: July 02, 2012
Pierre Morris

Sample Name: L1203083706 Acquired: 6/29/2012 16:38:01 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.15385**	**.00472**	**.00338**	**-.00005**	**.03322**
Stddev	.00010	.00077	.00309	.00030	.00007
%RSD	.06213	16.351	91.440	600.67	.22517
#1	.15376	.00475	.00281	-.00006	.03328
#2	.15395	.00393	.00061	.00026	.03313
#3	.15384	.00547	.00672	-.00035	.03323
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13042.**	**23514.**
Stddev	30.	78.
%RSD	.22665	.33171
#1	13013.	23454.
#2	13041.	23487.
#3	13072.	23602.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1203083707 Acquired: 6/29/2012 16:41:29 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.28914**	**.00163**	**.07440**	**.08905**	**.00000**	**64.664**
Stddev	.00036	.00114	.00063	.00029	.00024	.0000	.049
%RSD	130.51	.39344	38.667	.38522	.26903	832.91	.07564
#1	.00012	.29018	.00226	.07415	.08904	-.00003	64.611
#2	.00002	.28931	.00101	.07433	.08881	.00000	64.671
#3	.00069	.28792	.00162	.07471	.08929	.00002	64.708
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00059**	**-.00121**	**.00237**	**.53249**	**.06230**	**.01413**
Stddev	.00022	.00010	.00061	.00036	.00677	.04218	.00473
%RSD	261.71	17.014	50.255	15.069	1.2718	67.705	33.490
#1	.00021	.00055	-.00161	.00223	.52511	.10906	.01830
#2	-.00017	.00071	-.00051	.00209	.53394	.02712	.01509
#3	.00021	.00052	-.00151	.00277	.53842	.05073	.00899
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.1440**	**.21750**	**-.00019**	**160.07**	**-.00460**	**.00184**	**-.00078**
Stddev	.0082	.00100	.00033	.10	.00033	.00099	.00164
%RSD	.71653	.45818	179.16	.05954	7.2204	53.874	210.21
#1	1.1364	.21675	-.00013	159.96	-.00423	.00283	.00093
#2	1.1527	.21711	-.00054	160.13	-.00472	.00085	-.00093
#3	1.1429	.21863	.00011	160.13	-.00486	.00185	-.00234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1203083707 Acquired: 6/29/2012 16:41:29 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	F **148.60**	**-.00055**	**.18638**	**.00942**	**.00174**	**.00105**
Stddev	.00255	.33	.00073	.00025	.00128	.00263	.00016
%RSD	1184.1	.22137	133.95	.13205	13.600	151.12	15.330
#1	-.00078	148.86	-.00095	.18610	.00796	.00000	.00097
#2	.00311	148.70	-.00099	.18658	.00992	.00046	.00094
#3	-.00169	148.23	.00030	.18645	.01037	.00477	.00123
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.08808**
Stddev	.00042
%RSD	.48095
#1	.08760
#2	.08824
#3	.08840
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13029.**	**23534.**
Stddev	5.	78.
%RSD	.03697	.33200
#1	13032.	23526.
#2	13023.	23460.
#3	13031.	23616.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206079801 Acquired: 6/29/2012 16:44:55 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.18848**	**.00082**	**.13504**	**.05282**	**.00004**	**5.6067**
Stddev	.00065	.00195	.00139	.00044	.00015	.00001	.0041
%RSD	189.24	1.0357	169.55	.32649	.27947	34.328	.07359
#1	-.00039	.18684	-.00011	.13543	.05270	.00003	5.6051
#2	.00083	.18797	.00015	.13456	.05278	.00005	5.6036
#3	.00058	.19064	.00242	.13512	.05299	.00004	5.6113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.00124**	**.00513**	**.00202**	**2.7485**	**-.00894**	**.01298**
Stddev	.00003	.00014	.00030	.00036	.0083	.01881	.00089
%RSD	8.9514	10.939	5.7706	17.756	.30245	210.40	6.8384
#1	.00026	.00127	.00484	.00243	2.7502	.00431	.01308
#2	.00031	.00136	.00543	.00178	2.7395	-.03047	.01382
#3	.00030	.00109	.00511	.00184	2.7559	-.00066	.01205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.44174**	**.02767**	**.00013**	**165.24**	**.00542**	**.01138**	**-.00005**
Stddev	.02019	.00016	.00002	.14	.00011	.00029	.00096
%RSD	4.5709	.58245	16.886	.08345	1.9684	2.5504	2009.8
#1	.43006	.02778	.00013	165.21	.00532	.01116	-.00104
#2	.43011	.02775	.00010	165.12	.00553	.01171	.00002
#3	.46506	.02748	.00015	165.39	.00541	.01127	.00087
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206079801 Acquired: 6/29/2012 16:44:55 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00170**	F **235.52**	**.00022**	**.01488**	**.00361**	**.00247**	**.00031**
Stddev	.00163	1.06	.00056	.00010	.00049	.00119	.00033
%RSD	95.806	.44972	250.82	.64711	13.561	48.216	106.62
#1	-.00012	234.35	.00046	.01498	.00407	.00150	.00013
#2	-.00161	236.42	.00062	.01478	.00366	.00211	.00011
#3	-.00338	235.79	-.00042	.01489	.00310	.00380	.00069
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**3.4450**
Stddev	.0011
%RSD	.03202
#1	3.4444
#2	3.4443
#3	3.4463
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13118.**	**23259.**
Stddev	33.	34.
%RSD	.25056	.14711
#1	13090.	23297.
#2	13154.	23231.
#3	13111.	23248.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080201 Acquired: 6/29/2012 16:48:20 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**.04136**	**-.00134**	**.10960**	**.00758**	**.00001**	**33.808**
Stddev	.00118	.00168	.00270	.00232	.00012	.00004	.041
%RSD	249.24	4.0637	201.01	2.1140	1.5514	320.58	.12136
#1	.00169	.04309	-.00384	.10946	.00746	-.00002	33.814
#2	.00041	.04127	.00152	.11198	.00769	.00006	33.845
#3	-.00068	.03973	-.00171	.10735	.00759	.00000	33.764
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00027**	**-.00129**	**.00119**	**.46972**	**-.06789**	**.01273**
Stddev	.00034	.00012	.00037	.00031	.00061	.03595	.00232
%RSD	313.02	42.635	28.891	26.389	.13001	52.944	18.237
#1	.00016	.00023	-.00153	.00114	.46936	-.09511	.01069
#2	.00042	.00041	-.00086	.00090	.47043	-.02715	.01526
#3	-.00025	.00019	-.00148	.00152	.46937	-.08143	.01224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.65803**	**.08752**	**.00039**	**166.26**	**-.00587**	**-.00012**	**.00029**
Stddev	.03594	.00047	.00019	.12	.00076	.00242	.00435
%RSD	5.4613	.53398	49.022	.07219	12.920	2088.7	1521.8
#1	.63400	.08714	.00052	166.29	-.00672	-.00268	-.00102
#2	.64074	.08804	.00017	166.37	-.00526	.00019	-.00326
#3	.69934	.08739	.00047	166.13	-.00564	.00214	.00515
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080201 Acquired: 6/29/2012 16:48:20 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00190**	F **84.840**	**-.00092**	**.09039**	**.00177**	**.00074**	**.00004**
Stddev	.00405	.549	.00059	.00003	.00090	.00125	.00030
%RSD	213.40	.64671	64.338	.03745	50.721	169.51	798.18
#1	-.00253	85.459	-.00153	.09040	.00274	.00111	.00010
#2	.00243	84.647	-.00086	.09041	.00162	-.00066	-.00029
#3	-.00559	84.414	-.00036	.09035	.00096	.00176	.00030
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.04127**
Stddev	.00005
%RSD	.11254
#1	.04126
#2	.04123
#3	.04132
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13013.**	**23252.**
Stddev	19.	63.
%RSD	.14350	.27023
#1	12994.	23200.
#2	13031.	23234.
#3	13014.	23322.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206081838 Acquired: 6/29/2012 16:51:47 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00062**	**.11547**	**.00008**	**.18652**	**.03078**	**.00003**	**5.2368**
Stddev	.00045	.00283	.00103	.00100	.00020	.00001	.0076
%RSD	72.109	2.4484	1322.5	.53385	.63724	38.892	.14513
#1	.00015	.11703	-.00111	.18626	.03076	.00004	5.2292
#2	.00104	.11220	.00064	.18567	.03059	.00003	5.2367
#3	.00069	.11717	.00071	.18761	.03098	.00002	5.2444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**-.00015**	**-.00116**	**.00026**	**.11983**	**.19872**	**.01277**
Stddev	.00020	.00026	.00044	.00072	.00157	.05444	.00218
%RSD	2484.8	178.02	37.903	274.01	1.3137	27.394	17.052
#1	.00023	-.00038	-.00161	.00084	.12093	.23266	.01127
#2	-.00017	-.00021	-.00074	-.00054	.12053	.13593	.01178
#3	-.00004	.00014	-.00111	.00049	.11802	.22756	.01527
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.82717**	**-.00049**	**-.00011**	**161.75**	**-.00638**	**-.00015**	**-.00059**
Stddev	.00916	.00064	.00014	.29	.00039	.00224	.00164
%RSD	1.1074	130.86	120.18	.17974	6.1842	1523.0	279.04
#1	.83174	-.00029	-.00026	161.42	-.00612	.00036	-.00208
#2	.81662	-.00120	.00001	161.82	-.00683	-.00260	.00116
#3	.83315	.00003	-.00009	161.99	-.00619	.00180	-.00084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206081838 Acquired: 6/29/2012 16:51:47 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00408**	F **119.76**	**-.00051**	**.02715**	**.00323**	**.00180**	**.00029**
Stddev	.00359	.50	.00021	.00008	.00036	.00059	.00031
%RSD	87.881	.42060	41.082	.28672	11.178	32.992	109.88
#1	-.00162	119.61	-.00066	.02707	.00286	.00154	.00062
#2	-.00243	120.32	-.00027	.02715	.00358	.00138	.00000
#3	-.00820	119.34	-.00060	.02723	.00323	.00248	.00024
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.00867**
Stddev	.00014
%RSD	1.6405
#1	.00874
#2	.00876
#3	.00850
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13012.**	**23326.**
Stddev	22.	23.
%RSD	.16666	.10000
#1	13026.	23300.
#2	13024.	23343.
#3	12987.	23336.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 16:55:14 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40338**	**10.123**	**.40842**	**.50400**	**1.0346**	**.05118**	**10.246**
Stddev	.00152	.041	.00406	.00156	.0028	.00020	.028
%RSD	.37622	.40740	.99349	.31051	.27220	.39324	.27418
#1	.40248	10.158	.40910	.50359	1.0313	.05107	10.214
#2	.40513	10.133	.41209	.50573	1.0361	.05141	10.260
#3	.40254	10.078	.40406	.50268	1.0363	.05106	10.265
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04992**	**.20076**	**.50787**	**.50562**	**4.2148**	**54.363**	**1.0896**
Stddev	.00015	.00014	.00086	.00211	.0175	.191	.0040
%RSD	.31000	.07017	.16984	.41796	.41440	.35123	.36633
#1	.04995	.20092	.50751	.50633	4.1947	54.156	1.0868
#2	.05007	.20068	.50885	.50729	4.2235	54.401	1.0942
#3	.04976	.20067	.50724	.50324	4.2263	54.532	1.0879
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.169**	**.51552**	**1.0036**	**53.781**	**.51577**	**.50572**	**1.2081**
Stddev	.054	.00259	.0024	.060	.00084	.00058	.0014
%RSD	.52810	.50307	.23614	.11243	.16325	.11403	.11816
#1	10.110	.51253	1.0033	53.712	.51488	.50553	1.2064
#2	10.184	.51694	1.0062	53.827	.51588	.50526	1.2089
#3	10.214	.51709	1.0015	53.803	.51655	.50637	1.2089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 16:55:14 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41370**	F **10.102**	**1.0119**	**1.0165**	**.99075**	**.50988**	**.99509**
Stddev	.00197	.336	.0018	.0024	.00365	.00194	.00333
%RSD	.47529	3.3287	.17321	.23863	.36793	.38130	.33450
#1	.41503	10.483	1.0105	1.0137	.98680	.51140	.99409
#2	.41462	9.9751	1.0138	1.0181	.99398	.51056	.99880
#3	.41144	9.8477	1.0113	1.0177	.99149	.50769	.99237
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		5.0000					
Range		10.000%					

Elem	Zn2062
Units	ppm
Avg	**1.0036**
Stddev	.0008
%RSD	.07713
#1	1.0037
#2	1.0043
#3	1.0028
Check ?	Chk Pass
Value	
Range	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12994.**	**23051.**
Stddev	21.	63.
%RSD	.16229	.27296
#1	13012.	22989.
#2	12971.	23050.
#3	13000.	23115.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCB Acquired: 6/29/2012 16:58:29 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**.00751**	**.00004**	**-.00158**	**.00043**	**.00000**	**.01543**	**-.00006**
Stddev	.00013	.00209	.00215	.00067	.00010	.00002	.00688	.00001
%RSD	36.648	27.840	5410.2	42.510	22.688	446.50	44.569	9.6139
#1	.00048	.00937	-.00220	-.00084	.00051	.00001	.01960	-.00006
#2	.00036	.00525	.00210	-.00177	.00044	.00002	.01921	-.00005
#3	.00022	.00792	.00022	-.00214	.00032	-.00002	.00749	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**.00246**	**.00001**	**.01465**	**-.16255**	**.00673**	**.00614**	**-.00374**
Stddev	.00019	.00033	.00089	.00460	.02712	.00387	.01470	.00017
%RSD	63.575	13.497	9937.1	31.395	16.686	57.544	239.30	4.5571
#1	.00049	.00218	-.00039	.01921	-.13402	.01070	-.00506	-.00373
#2	.00029	.00236	.00103	.01002	-.18800	.00297	.00070	-.00391
#3	.00011	.00282	-.00062	.01471	-.16561	.00652	.02279	-.00357
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00090**	**.09593**	**-.00563**	**-.00127**	**-.00003**	**-.00257**	**.17359**	**.00067**
Stddev	.00027	.00942	.00024	.00120	.00070	.00114	.12129	.00036
%RSD	30.564	9.8235	4.3506	94.578	2123.0	44.327	69.871	54.208
#1	.00067	.08678	-.00539	-.00093	.00077	-.00357	.24867	.00093
#2	.00120	.09538	-.00562	-.00028	-.00037	-.00133	.03366	.00026
#3	.00082	.10561	-.00588	-.00260	-.00050	-.00282	.23846	.00081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Approved: July 02, 2012
Pierre Morris

Sample Name: CCB Acquired: 6/29/2012 16:58:29 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**.00162**	**.00151**	**.00072**	**.00214**
Stddev	.00003	.00074	.00094	.00013	.00008
%RSD	6.8528	45.574	62.147	17.508	3.7766
#1	.00045	.00150	.00076	.00064	.00208
#2	.00044	.00095	.00122	.00067	.00211
#3	.00050	.00240	.00257	.00087	.00223
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13019.**	**22904.**
Stddev	32.	104.
%RSD	.24245	.45229
#1	12999.	22906.
#2	13004.	23007.
#3	13056.	22800.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206084201 Acquired: 6/29/2012 17:01:58 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**.08099**	**-.00115**	**.06913**	**.02166**	**-.00001**	**68.127**
Stddev	.00074	.00262	.00109	.00115	.00009	.00002	.225
%RSD	151.75	3.2410	95.062	1.6611	.40300	167.30	.33024
#1	-.00028	.08111	-.00034	.06838	.02173	-.00002	67.867
#2	.00054	.08356	-.00239	.07045	.02156	.00001	68.267
#3	.00119	.07831	-.00071	.06856	.02169	-.00004	68.246
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.00028**	**-.00222**	**-.00013**	**.33845**	**.08911**	**.00614**
Stddev	.00015	.00033	.00039	.00108	.00595	.03073	.00138
%RSD	478.27	118.11	17.543	803.78	1.7567	34.490	22.571
#1	-.00020	.00040	-.00177	.00112	.34397	.07138	.00667
#2	.00001	.00054	-.00248	-.00076	.33216	.12459	.00456
#3	.00009	-.00009	-.00240	-.00076	.33923	.07135	.00718
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.6616**	**.26132**	**.00021**	**161.15**	**-.00636**	**.00016**	**-.00028**
Stddev	.0082	.00154	.00033	.41	.00015	.00146	.00125
%RSD	.49561	.58885	152.41	.25516	2.4140	888.35	451.07
#1	1.6522	.25956	.00000	160.68	-.00653	.00134	-.00170
#2	1.6652	.26242	.00005	161.43	-.00632	-.00148	.00062
#3	1.6674	.26199	.00059	161.34	-.00623	.00063	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206084201 Acquired: 6/29/2012 17:01:58 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00375**	F **79.911**	**-.00092**	**.06615**	**.00441**	**.00301**	**.00048**
Stddev	.00608	1.021	.00054	.00027	.00095	.00380	.00031
%RSD	162.02	1.2770	58.584	.40500	21.520	126.17	65.118
#1	.00321	80.736	-.00148	.06586	.00534	.00578	.00013
#2	-.00803	80.227	-.00040	.06637	.00445	.00457	.00058
#3	-.00644	78.770	-.00087	.06624	.00344	-.00132	.00074
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.01070**
Stddev	.00011
%RSD	1.0449
#1	.01065
#2	.01083
#3	.01062
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13007.**	**23016.**
Stddev	92.	93.
%RSD	.70465	.40452
#1	12919.	22909.
#2	12999.	23074.
#3	13102.	23066.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206084301 Acquired: 6/29/2012 17:05:24 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**1.7267**	**.00163**	**.02778**	**.27664**	**.00008**	**281.88**
Stddev	.00049	.0076	.00098	.00154	.00068	.00001	.70
%RSD	99.820	.43980	60.335	5.5398	.24693	12.715	.24792
#1	.00038	1.7289	.00053	.02603	.27622	.00007	281.48
#2	.00102	1.7183	.00191	.02893	.27628	.00007	281.47
#3	.00007	1.7330	.00244	.02837	.27743	.00009	282.68
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00065**	**.00230**	**.01242**	**1.9031**	**295.95**	**.05625**
Stddev	.00008	.00023	.00025	.00066	.0133	.47	.00164
%RSD	27.665	35.331	10.846	5.3114	.69979	.15866	2.9083
#1	.00036	.00075	.00241	.01283	1.8879	295.89	.05452
#2	.00021	.00039	.00201	.01166	1.9090	295.51	.05778
#3	.00026	.00082	.00248	.01276	1.9125	296.44	.05645
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.3367**	**.10067**	**.00455**	F **403.42**	**-.00466**	**.01405**	**-.00161**
Stddev	.0184	.00001	.00026	3.33	.00031	.00095	.00074
%RSD	1.3736	.00856	5.7696	.82556	6.6741	6.7498	46.146
#1	1.3453	.10067	.00440	399.78	-.00486	.01297	-.00075
#2	1.3156	.10066	.00439	404.17	-.00482	.01442	-.00201
#3	1.3492	.10066	.00485	406.32	-.00430	.01475	-.00206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit				270.00			
Low Limit				-.50000			

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206084301 Acquired: 6/29/2012 17:05:24 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01979**	F **88.132**	**.00028**	**.61774**	**.00646**	**.00130**	**.00260**
Stddev	.00119	.654	.00012	.00133	.00147	.00141	.00011
%RSD	6.0200	.74168	43.938	.21521	22.682	107.87	4.3217
#1	.02114	88.879	.00035	.61661	.00519	.00213	.00258
#2	.01933	87.852	.00035	.61741	.00613	-.00032	.00273
#3	.01889	87.665	.00014	.61921	.00807	.00210	.00251
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.04736**
Stddev	.00032
%RSD	.67578
#1	.04716
#2	.04773
#3	.04719
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12613.**	**22719.**
Stddev	8.	115.
%RSD	.06048	.50544
#1	12605.	22687.
#2	12613.	22846.
#3	12620.	22623.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206084302 Acquired: 6/29/2012 17:08:58 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**.41097**	**-.00076**	**.01744**	**.11025**	**-.00005**	**222.13**
Stddev	.00044	.00274	.00089	.00093	.00023	.00001	.20
%RSD	106.88	.66574	116.60	5.3611	.20728	15.914	.09098
#1	.00041	.40800	-.00008	.01673	.11040	-.00004	222.25
#2	-.00003	.41149	-.00176	.01850	.10999	-.00005	221.90
#3	.00085	.41340	-.00044	.01710	.11036	-.00005	222.26
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.00026**	**-.00042**	**.00473**	**.02536**	**262.86**	**.05917**
Stddev	.00004	.00040	.00038	.00021	.00127	.39	.00091
%RSD	401.37	153.06	89.718	4.3928	5.0052	.14844	1.5308
#1	-.00002	-.00052	-.00040	.00494	.02453	263.13	.05850
#2	-.00005	-.00046	-.00006	.00471	.02473	262.42	.06020
#3	.00004	.00020	-.00082	.00453	.02682	263.04	.05880
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08492**	F **-.00340**	**.00298**	F **376.01**	**-.00735**	**.00004**	**.00055**
Stddev	.01936	.00020	.00016	2.81	.00015	.00077	.00277
%RSD	22.804	5.7402	5.4211	.74728	1.9847	1829.7	503.94
#1	.10706	-.00320	.00283	374.77	-.00725	.00065	-.00248
#2	.07117	-.00358	.00315	374.03	-.00728	.00030	.00119
#3	.07652	-.00342	.00296	379.23	-.00752	-.00082	.00294
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		180.00		270.00			
Low Limit		-.00300		-.50000			

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206084302 Acquired: 6/29/2012 17:08:58 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02384**	F **92.903**	**-.00022**	**.39876**	**.00388**	**.00384**	**.00011**
Stddev	.00375	.882	.00027	.00011	.00073	.00120	.00010
%RSD	15.722	.94964	123.67	.02834	18.891	31.120	91.913
#1	.02023	91.891	-.00005	.39880	.00362	.00260	.00000
#2	.02771	93.508	-.00053	.39864	.00471	.00499	.00013
#3	.02358	93.310	-.00008	.39886	.00331	.00393	.00019
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.00599**
Stddev	.00013
%RSD	2.2406
#1	.00596
#2	.00613
#3	.00587
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12681.**	**22975.**
Stddev	14.	72.
%RSD	.10899	.31388
#1	12668.	22960.
#2	12679.	23053.
#3	12696.	22911.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 17:12:34 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40201**	**10.061**	**.40455**	**.50322**	**1.0378**	**.05162**	**10.214**
Stddev	.00045	.023	.00086	.00127	.0048	.00016	.050
%RSD	.11077	.23340	.21297	.25330	.46104	.31274	.48781
#1	.40152	10.088	.40382	.50237	1.0324	.05165	10.159
#2	.40211	10.049	.40434	.50261	1.0397	.05145	10.226
#3	.40239	10.047	.40550	.50469	1.0414	.05177	10.257
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04908**	**.19666**	**.50083**	**.49844**	**4.2667**	F **55.022**	**1.0768**
Stddev	.00011	.00054	.00063	.00095	.0260	.220	.0040
%RSD	.21606	.27252	.12482	.19056	.61024	.39942	.37286
#1	.04920	.19722	.50122	.49949	4.2368	54.814	1.0728
#2	.04901	.19660	.50011	.49816	4.2843	54.999	1.0769
#3	.04904	.19615	.50116	.49765	4.2790	55.252	1.0808
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						50.000	
Range						10.000%	

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.282**	**.51449**	**.99924**	**53.378**	**.51498**	**.50351**	**1.1907**
Stddev	.026	.00182	.00080	.149	.00128	.00172	.0001
%RSD	.25341	.35367	.07976	.27905	.24931	.34226	.01094
#1	10.286	.51270	1.0001	53.221	.51646	.50525	1.1907
#2	10.254	.51442	.99902	53.396	.51411	.50181	1.1906
#3	10.306	.51634	.99858	53.518	.51438	.50349	1.1909
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 17:12:34 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.41055**	F **9.6186**	**1.0074**	**1.0193**	**.97967**	**.50838**	**.99061**
Stddev	.00103	.1179	.0014	.0044	.00683	.00335	.00105
%RSD	.25065	1.2258	.13948	.43507	.69738	.65990	.10626
#1	.40963	9.5495	1.0090	1.0143	.97213	.50942	.99016
#2	.41166	9.5515	1.0066	1.0211	.98143	.51109	.98986
#3	.41037	9.7547	1.0066	1.0226	.98545	.50463	.99181
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		5.0000					
Range		10.000%					

Elem	Zn2062
Units	ppm
Avg	**.98486**
Stddev	.00211
%RSD	.21469
#1	.98719
#2	.98431
#3	.98307
Check ?	Chk Pass
Value	
Range	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13149.**	**23217.**
Stddev	21.	48.
%RSD	.15818	.20689
#1	13160.	23182.
#2	13162.	23272.
#3	13125.	23198.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCB Acquired: 6/29/2012 17:15:49 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**.00581**	**-.00100**	**-.00189**	**.00047**	**-.00001**	**.01473**
Stddev	.00083	.00032	.00198	.00010	.00008	.00004	.00719
%RSD	181.51	5.5802	197.14	5.1025	16.929	648.10	48.820
#1	.00012	.00587	-.00282	-.00200	.00044	-.00002	.01019
#2	-.00015	.00611	-.00128	-.00183	.00056	.00004	.02302
#3	.00141	.00546	.00110	-.00184	.00041	-.00004	.01098
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00014**	F **.00375**	**-.00023**	**.01450**	**.00709**	**.00381**
Stddev	.00013	.00013	.00031	.00057	.00339	.04552	.00168
%RSD	350.25	92.688	8.1466	242.66	23.385	642.27	44.216
#1	-.00018	.00028	.00408	-.00039	.01246	-.01125	.00559
#2	.00005	.00009	.00370	-.00071	.01841	.05892	.00360
#3	.00002	.00004	.00348	.00040	.01262	-.02640	.00224
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.00300				
Low Limit			-.00300				

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00560**	**-.00381**	**.00066**	**.09325**	**-.00557**	**-.00083**	**.00035**
Stddev	.03169	.00057	.00023	.00912	.00016	.00039	.00187
%RSD	565.80	15.062	34.517	9.7806	2.7887	47.460	532.93
#1	.03092	-.00352	.00047	.10011	-.00543	-.00102	-.00170
#2	-.02587	-.00447	.00059	.09675	-.00556	-.00109	.00198
#3	-.02186	-.00344	.00091	.08290	-.00574	-.00038	.00077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: CCB Acquired: 6/29/2012 17:15:49 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00228**	**-.19550**	**.00049**	**.00031**	**.00354**	**.00266**	**.00032**
Stddev	.00186	.17869	.00025	.00008	.00048	.00040	.00015
%RSD	81.689	91.402	51.164	24.563	13.716	14.900	48.151
#1	-.00297	.01080	.00073	.00040	.00376	.00242	.00040
#2	-.00370	-.29542	.00049	.00029	.00298	.00245	.00041
#3	-.00017	-.30187	.00024	.00025	.00387	.00312	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	**.00216**
Stddev	.00008
%RSD	3.7379
#1	.00221
#2	.00221
#3	.00207
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13132.**	**22950.**
Stddev	36.	88.
%RSD	.27288	.38318
#1	13098.	22944.
#2	13127.	22866.
#3	13170.	23041.

Approved: July 02, 2012
Pierre Morris

Sample Name: PBS 5A Acquired: 6/29/2012 17:19:17 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401963-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**.00204**	**.00008**	**-.00292**	**.00013**	**-.00002**	**.02249**
Stddev	.00075	.00255	.00160	.00024	.00015	.00001	.00580
%RSD	163.23	124.77	1931.5	8.0835	114.39	39.674	25.810
#1	.00094	.00307	.00177	-.00300	.00030	-.00001	.02902
#2	-.00041	.00393	-.00011	-.00266	-.00001	-.00002	.02051
#3	.00085	-.00086	-.00141	-.00311	.00012	-.00003	.01793
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**-.00026**	**-.00197**	**.00345**	**-.01247**	**-.02966**	**.00385**
Stddev	.00009	.00020	.00066	.00620	.00713	.03046	.00131
%RSD	42.551	77.744	33.480	179.77	57.174	102.70	34.125
#1	.00028	-.00050	-.00257	-.00024	-.01321	-.00884	.00524
#2	.00023	-.00015	-.00127	-.00002	-.00500	-.01552	.00263
#3	.00011	-.00014	-.00207	.01060	-.01919	-.06462	.00368
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00938**	F **-.00538**	**.00010**	**.06221**	**.25700**	**-.00058**	**.00158**
Stddev	.00627	.00004	.00028	.00673	.45827	.00254	.00140
%RSD	66.838	.77013	282.55	10.825	178.31	435.52	88.559
#1	.00310	-.00534	.00016	.06999	-.00786	-.00330	.00015
#2	.00941	-.00542	-.00020	.05848	-.00730	.00173	.00295
#3	.01564	-.00537	.00034	.05817	.78616	-.00018	.00164
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		180.00					
Low Limit		-.00300					

Approved: July 02, 2012
Pierre Morris

Sample Name: PBS 5A Acquired: 6/29/2012 17:19:17 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401963-02

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00080**	**16.167**	**.00044**	**.00009**	**.00266**	**-.00081**	**.00018**
Stddev	.00105	23.491	.00022	.00005	.00105	.00213	.00077
%RSD	130.93	145.30	49.316	52.218	39.323	261.71	433.88
#1	.00162	2.5121	.00020	.00011	.00385	.00027	.00104
#2	-.00038	2.6981	.00061	.00013	.00189	.00056	-.00008
#3	.00117	43.292	.00051	.00004	.00223	-.00326	-.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	**.04985**
Stddev	.08289
%RSD	166.28
#1	.00191
#2	.00208
#3	.14556
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12639.**	**23052.**
Stddev	431.	195.
%RSD	3.4079	.84799
#1	12852.	23242.
#2	12921.	23062.
#3	12143.	22852.

Approved: July 02, 2012
Pierre Morris

Sample Name: LCSS 5A Acquired: 6/29/2012 17:22:46 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401963-03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.19920**	**4.5210**	**.18524**	**.93016**	**.49142**	**.02488**	**4.7621**
Stddev	.00116	.0569	.00118	.00549	.01007	.00011	.0923
%RSD	.58399	1.2593	.63852	.59004	2.0492	.42380	1.9382
#1	.19853	4.4612	.18421	.93016	.48060	.02487	4.6703
#2	.19854	4.5272	.18496	.92467	.49314	.02478	4.7611
#3	.20055	4.5746	.18653	.93565	.50052	.02499	4.8549
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02304**	**.09453**	**.23816**	**.23468**	**1.9067**	**25.739**	**.51300**
Stddev	.00004	.00027	.00081	.00070	.0389	.567	.01286
%RSD	.15466	.28256	.33988	.29616	2.0402	2.2048	2.5063
#1	.02307	.09447	.23887	.23389	1.8652	25.105	.49867
#2	.02300	.09429	.23728	.23495	1.9126	25.910	.51679
#3	.02304	.09482	.23832	.23520	1.9424	26.201	.52353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**4.8681**	**.23664**	**.50616**	**25.570**	**.24127**	**.24069**	**.54949**
Stddev	.1243	.00602	.00194	.539	.00070	.00103	.00343
%RSD	2.5524	2.5455	.38289	2.1066	.29041	.42783	.62340
#1	4.7337	.23030	.50428	24.990	.24190	.24049	.55066
#2	4.8916	.23732	.50606	25.664	.24052	.23977	.54563
#3	4.9789	.24229	.50815	26.055	.24141	.24180	.55217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: LCSS 5A Acquired: 6/29/2012 17:22:46 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG401963-03

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.18571**	F **606.24**	**.42908**	**.47750**	**.45808**	**.23967**	**.49054**
Stddev	.00553	2.01	.00103	.00956	.01032	.00213	.00164
%RSD	2.9774	.33207	.23987	2.0014	2.2537	.88951	.33408
#1	.17949	604.21	.42967	.46706	.44653	.23825	.49007
#2	.19006	606.25	.42789	.47964	.46128	.24212	.48919
#3	.18759	608.24	.42968	.48581	.46642	.23862	.49237
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.46726**
Stddev	.00142
%RSD	.30308
#1	.46631
#2	.46658
#3	.46889
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12914.**	**23285.**
Stddev	27.	263.
%RSD	.20661	1.1311
#1	12924.	23570.
#2	12934.	23237.
#3	12883.	23050.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080415 Acquired: 6/29/2012 17:25:59 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06378**	**131.31**	**.91644**	**.18573**	**3.9416**	**.02461**	**456.20**
Stddev	.00050	.80	.00116	.00015	.0249	.00005	5.24
%RSD	.78841	.61228	.12610	.08188	.63143	.21799	1.1484
#1	.06365	131.17	.91563	.18590	3.9165	.02454	453.00
#2	.06336	130.59	.91776	.18568	3.9419	.02463	453.36
#3	.06434	132.18	.91592	.18561	3.9663	.02465	462.25
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.16445**	**.14658**	**.18539**	**1.8803**	**538.78**	**30.621**	**.11810**
Stddev	.00008	.00059	.00054	.0023	.97	.233	.00062
%RSD	.04599	.40532	.28986	.12213	.17981	.75998	.52307
#1	.16438	.14691	.18487	1.8808	537.83	30.420	.11770
#2	.16445	.14589	.18536	1.8778	538.73	30.568	.11780
#3	.16453	.14694	.18595	1.8823	539.77	30.876	.11882
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**26.700**	**17.263**	**.07494**	**1.9713**	**.27325**	**20.603**	**.12725**
Stddev	.192	.107	.00019	.0082	.00037	.014	.00180
%RSD	.71873	.61961	.24846	.41494	.13518	.06995	1.4134
#1	26.530	17.151	.07501	1.9737	.27292	20.602	.12904
#2	26.662	17.272	.07509	1.9779	.27365	20.589	.12727
#3	26.908	17.365	.07473	1.9621	.27317	20.618	.12544
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080415 Acquired: 6/29/2012 17:25:59 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02111**	F **532.24**	**.49825**	**2.4438**	**.35807**	**.01118**	**.46275**
Stddev	.00362	1.01	.00172	.0161	.00240	.00499	.00153
%RSD	17.159	.18947	.34443	.65917	.66965	44.607	.32981
#1	.01826	533.38	.49971	2.4276	.35586	.01449	.46210
#2	.02518	531.85	.49636	2.4440	.35772	.01360	.46165
#3	.01988	531.48	.49867	2.4598	.36062	.00544	.46449
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**23.611**
Stddev	.021
%RSD	.09080
#1	23.616
#2	23.588
#3	23.630
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13504.**	**25063.**
Stddev	7.	90.
%RSD	.05405	.35764
#1	13511.	25083.
#2	13504.	25142.
#3	13496.	24966.

Approved: July 02, 2012
Pierre Morris

L1206080415PS

Sample Name: ~~L1206080416~~ Acquired: 6/29/2012 17:29:29 Type: Unk

Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000

User: PDM Custom ID1: Custom ID2: Custom ID3:

Comment: WG402119-01

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.23201**	**124.34**	**.98414**	**.98658**	**4.0470**	**.04408**	**419.29**
Stddev	.00594	.47	.01113	.03106	.0190	.00075	6.76
%RSD	2.5584	.37807	1.1307	3.1484	.46838	1.7013	1.6112
#1	.23791	124.57	.98925	1.0158	4.0264	.04479	413.92
#2	.23207	123.80	.99180	.98994	4.0510	.04415	417.07
#3	.22604	124.66	.97138	.95398	4.0636	.04330	426.88
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.16973**	**.20030**	**.37162**	**1.9129**	**504.84**	**52.902**	**.59937**
Stddev	.00042	.00520	.00657	.0034	4.13	.359	.01224
%RSD	.24537	2.5964	1.7678	.17496	.81875	.67869	2.0416
#1	.16989	.20554	.37764	1.9122	500.61	53.278	.61181
#2	.17005	.20022	.37261	1.9165	505.03	52.866	.59897
#3	.16926	.19514	.36462	1.9100	508.87	52.563	.58734
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**28.779**	**15.896**	**.41380**	**26.515**	**.41918**	**19.359**	**.49816**
Stddev	.153	.126	.03160	.551	.01416	.130	.03311
%RSD	.53228	.79493	7.6372	2.0770	3.3789	.67051	6.6462
#1	28.639	15.771	.44556	27.020	.43338	19.228	.53181
#2	28.755	15.893	.41349	26.598	.41911	19.362	.49707
#3	28.943	16.024	.38235	25.928	.40505	19.487	.46561
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012

Pierre Morris

L1206080415PS
Sample Name: ~~L1206080416~~ Acquired: 6/29/2012 17:29:29 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: WG402119-01

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14681**	F **902.36**	**.46375**	**2.6722**	**.76189**	**.16749**	**.84185**
Stddev	.01032	35.94	.00381	.0088	.00791	.01553	.01427
%RSD	7.0269	3.9828	.82212	.32908	1.0382	9.2731	1.6955
#1	.15616	937.62	.45950	2.6623	.76916	.18369	.85582
#2	.14853	903.68	.46489	2.6751	.76306	.16606	.84245
#3	.13574	865.78	.46687	2.6792	.75347	.15273	.82729
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**22.450**
Stddev	.149
%RSD	.66479
#1	22.300
#2	22.451
#3	22.598
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13398.**	**24896.**
Stddev	23.	148.
%RSD	.17453	.59600
#1	13423.	24737.
#2	13396.	25031.
#3	13376.	24920.

Approved: July 02, 2012
Pierre Morris

L1206080415DL

Sample Name: ~~L1206080417~~ Acquired: 6/29/2012 17:32:50 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: 5 Custom ID2: Custom ID3:
Comment: WG402119-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01367**	**28.527**	**.19995**	**.04148**	**.83547**	**.00528**	**101.22**
Stddev	.00067	.100	.00176	.00095	.00025	.00004	.01
%RSD	4.8795	.35146	.87825	2.2980	.02954	.74913	.00563
#1	.01306	28.428	.20092	.04238	.83538	.00524	101.22
#2	.01356	28.525	.20101	.04048	.83575	.00532	101.21
#3	.01438	28.628	.19793	.04158	.83528	.00528	101.22
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.03549**	**.03225**	**.03870**	**.41901**	**121.95**	**6.5085**	**.02866**
Stddev	.00018	.00047	.00101	.00035	.07	.0395	.00185
%RSD	.50003	1.4656	2.6151	.08442	.05856	.60671	6.4636
#1	.03533	.03236	.03765	.41875	121.90	6.5287	.03071
#2	.03568	.03173	.03966	.41941	122.03	6.4630	.02709
#3	.03546	.03266	.03879	.41887	121.93	6.5338	.02818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**5.9686**	**3.7881**	**.01564**	**.43903**	**.05476**	**4.5363**	**.02897**
Stddev	.0262	.0009	.00027	.00530	.00025	.0048	.00203
%RSD	.43967	.02436	1.7494	1.2083	.45684	.10510	6.9970
#1	5.9960	3.7890	.01545	.44513	.05494	4.5328	.02770
#2	5.9437	3.7881	.01551	.43644	.05486	4.5343	.02790
#3	5.9661	3.7872	.01595	.43551	.05447	4.5417	.03130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

L1206080415DL

Sample Name: ~~L120608041~~7 Acquired: 6/29/2012 17:32:50 Type: Unk

Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000

User: PDM Custom ID1: 5 Custom ID2: Custom ID3:

Comment: WG402119-02

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00075**	F **113.36**	**.10712**	**.52030**	**.07834**	**.00655**	**.09745**
Stddev	.00134	.59	.00099	.00014	.00129	.00205	.00013
%RSD	179.13	.52228	.92544	.02699	1.6438	31.329	.12990
#1	-.00029	113.61	.10607	.52019	.07724	.00877	.09758
#2	.00227	112.69	.10725	.52024	.07975	.00615	.09733
#3	.00028	113.79	.10804	.52046	.07802	.00472	.09743
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**5.4942**
Stddev	.0002
%RSD	.00372
#1	5.4941
#2	5.4941
#3	5.4944
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13783.**	**24360.**
Stddev	22.	145.
%RSD	.15736	.59358
#1	13807.	24512.
#2	13765.	24343.
#3	13778.	24224.

Approved: July 02, 2012

Pierre Morris

L1206080415DL

Sample Name: ~~L1206080418~~ Acquired: 6/29/2012 17:36:08 Type: Unk

Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000

User: PDM Custom ID1: 25 Custom ID2: Custom ID3:

Comment: WG402119-02

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00278**	**5.6201**	**.03899**	**.00607**	**.16819**	**.00109**	**20.285**	**.00703**
Stddev	.00052	.0294	.00086	.00003	.00026	.00002	.017	.00007
%RSD	18.606	.52236	2.2141	.51101	.15241	1.7083	.08521	.96656
#1	.00226	5.5868	.03978	.00607	.16807	.00111	20.266	.00708
#2	.00280	5.6316	.03912	.00604	.16802	.00107	20.298	.00695
#3	.00329	5.6420	.03806	.00611	.16849	.00110	20.292	.00705
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00674**	**.00616**	**.08498**	**24.767**	**1.2549**	**.00906**	**1.2448**	**.76857**
Stddev	.00017	.00033	.00072	.013	.0255	.00061	.0098	.00132
%RSD	2.5853	5.3846	.84680	.05132	2.0309	6.6997	.79074	.17185
#1	.00655	.00631	.08425	24.753	1.2750	.00939	1.2378	.77009
#2	.00689	.00639	.08499	24.772	1.2636	.00836	1.2560	.76767
#3	.00680	.00578	.08569	24.778	1.2262	.00943	1.2405	.76796
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00270**	**.10644**	**.00507**	**.92410**	**.00387**	**-.00609**	**21.392**	**.01829**
Stddev	.00010	.02033	.00019	.00127	.00341	.00377	.198	.00033
%RSD	3.6933	19.100	3.7980	.13737	88.024	61.786	.92702	1.8049
#1	.00281	.10220	.00505	.92470	.00000	-.00368	21.210	.01794
#2	.00266	.12855	.00489	.92264	.00644	-.00417	21.603	.01859
#3	.00262	.08856	.00528	.92496	.00518	-.01043	21.364	.01834
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Approved: July 02, 2012

Pierre Morris

L1206080415DL

Sample Name: L~~1206080418~~ Acquired: 6/29/2012 17:36:08 Type: Unk

Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000

User: PDM Custom ID1: 25 Custom ID2: Custom ID3:

Comment: WG402119-02

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10481**	**.01718**	**.00385**	**.01929**	**1.1478**
Stddev	.00013	.00070	.00050	.00014	.0003
%RSD	.12110	4.0792	12.927	.74452	.02484
#1	.10480	.01764	.00348	.01944	1.1478
#2	.10468	.01637	.00366	.01927	1.1481
#3	.10494	.01752	.00442	.01916	1.1476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13792.**	**24019.**
Stddev	23.	124.
%RSD	.17002	.51707
#1	13807.	24159.
#2	13804.	23980.
#3	13765.	23920.

Approved: July 02, 2012

Pierre Morris

L1206080416

Sample Name: ~~L1206080419~~ Acquired: 6/29/2012 17:39:30 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11944**	**153.82**	**1.0847**	**.17605**	**4.7047**	**.02325**	**141.36**
Stddev	.00102	1.09	.0013	.00569	.0298	.00010	1.04
%RSD	.85477	.71024	.12150	3.2293	.63309	.41320	.73816
#1	.12001	154.43	1.0858	.16957	4.6738	.02314	140.30
#2	.11826	152.56	1.0851	.18018	4.7071	.02328	141.40
#3	.12005	154.48	1.0832	.17842	4.7332	.02332	142.38
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.25676**	**.19352**	**.18984**	**2.3325**	**615.76**	**26.732**	**.14661**
Stddev	.00014	.00117	.00117	.0034	8.47	.210	.00337
%RSD	.05475	.60671	.61568	.14755	1.3749	.78589	2.2973
#1	.25682	.19468	.18951	2.3364	606.00	26.547	.14410
#2	.25687	.19233	.18887	2.3314	621.17	26.688	.14531
#3	.25660	.19354	.19113	2.3298	620.11	26.960	.15044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.635**	**28.527**	**.06440**	**1.6260**	**.38977**	**20.490**	**.10438**
Stddev	.197	.188	.00039	.0026	.00033	.031	.00182
%RSD	.76973	.65945	.60830	.15901	.08408	.15074	1.7423
#1	25.446	28.338	.06420	1.6249	.39009	20.524	.10586
#2	25.619	28.529	.06415	1.6241	.38944	20.479	.10235
#3	25.840	28.715	.06485	1.6289	.38979	20.465	.10492
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

L1206080416

Sample Name: ~~L1206080419~~ Acquired: 6/29/2012 17:39:30 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00789**	F **526.29**	**.47841**	**1.0245**	**.27380**	**.01270**	**.51307**
Stddev	.00062	2.05	.00223	.0062	.00116	.00254	.00293
%RSD	7.8542	.38993	.46511	.60368	.42205	20.027	.57065
#1	.00794	528.61	.48038	1.0183	.27320	.01371	.51070
#2	.00849	525.57	.47885	1.0247	.27306	.00980	.51218
#3	.00725	524.70	.47600	1.0306	.27513	.01458	.51634
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	F **46.336**
Stddev	.138
%RSD	.29803
#1	46.229
#2	46.287
#3	46.492
Check ?	Chk Fail
High Limit	45.000
Low Limit	-.01000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13845.**	**25439.**
Stddev	16.	33.
%RSD	.11556	.12978
#1	13842.	25428.
#2	13863.	25476.
#3	13831.	25413.

Approved: July 02, 2012
Pierre Morris

L1206080417

Sample Name: ~~L1206080419PS~~ Acquired: 6/29/2012 17:43:09 Type: Unk

Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000

User: PDM Custom ID1: Custom ID2: Custom ID3:

Comment: ~~WG402119-01~~

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.08142**	**137.91**	**.53372**	**.15998**	**3.5421**	**.01431**	F **1220.4**
Stddev	.00038	1.07	.00028	.00091	.0210	.00004	10.9
%RSD	.46461	.77605	.05317	.56972	.59405	.30752	.89316
#1	.08123	138.89	.53366	.15915	3.5194	.01431	1213.8
#2	.08186	138.07	.53347	.15982	3.5460	.01427	1233.0
#3	.08118	136.77	.53403	.16095	3.5610	.01436	1214.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.25645**	**.15430**	F **-.04759**	**1.4871**	**599.36**	**22.113**	**.16043**
Stddev	.00040	.00015	.00192	.0029	4.89	.201	.00051
%RSD	.15538	.09596	4.0383	.19577	.81565	.91061	.31596
#1	.25671	.15447	-.04541	1.4893	599.44	21.905	.16000
#2	.25599	.15419	-.04829	1.4882	594.43	22.125	.16030
#3	.25664	.15423	-.04906	1.4838	604.21	22.308	.16099
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			90.000				
Low Limit			-.00300				

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**50.693**	**57.199**	**.03261**	**2.3653**	**.34590**	**15.440**	**.01585**
Stddev	.364	.336	.00027	.0175	.00101	.006	.00175
%RSD	.71762	.58786	.81813	.73868	.29323	.04009	11.017
#1	50.313	56.844	.03259	2.3508	.34491	15.444	.01396
#2	50.728	57.241	.03235	2.3605	.34694	15.443	.01618
#3	51.038	57.512	.03289	2.3847	.34584	15.433	.01740
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012

Pierre Morris

L1206080417

Sample Name: ~~L1206080419PS~~ Acquired: 6/29/2012 17:43:09 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment: ~~WG402119-01~~

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00418**	F **665.10**	**.19407**	F **7.4996**	**.22412**	**.01944**	**.38862**
Stddev	.00417	4.86	.00042	.0847	.00176	.00106	.00105
%RSD	99.918	.73052	.21396	1.1300	.78551	5.4518	.26944
#1	.00884	668.57	.19452	7.4018	.22228	.01890	.38929
#2	.00290	667.19	.19370	7.5465	.22429	.01877	.38742
#3	.00079	659.55	.19398	7.5506	.22579	.02067	.38916
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000		4.5000			
Low Limit		-1.0000		-.01000			

Elem	Zn2062
Units	ppm
Avg	**42.444**
Stddev	.028
%RSD	.06662
#1	42.476
#2	42.429
#3	42.426
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12922.**	**24534.**
Stddev	11.	41.
%RSD	.08874	.16613
#1	12916.	24574.
#2	12935.	24536.
#3	12915.	24492.

Approved: July 02, 2012
Pierre Morris

L1206080418

Sample Name: ~~L1206080419DL~~ Acquired: 6/29/2012 17:46:54 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: ~~5~~ Custom ID2: Custom ID3:
Comment: ~~WG402119-02~~

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00468**	**22.122**	**.09161**	**.04553**	**.58567**	**.00213**	F **4232.5**
Stddev	.00008	.191	.00271	.00276	.00813	.00004	75.9
%RSD	1.7370	.86183	2.9601	6.0573	1.3876	1.7450	1.7925
#1	.00466	21.927	.09434	.04266	.57685	.00216	4145.0
#2	.00477	22.131	.09158	.04816	.58728	.00213	4278.5
#3	.00461	22.308	.08891	.04576	.59286	.00209	4274.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01738**	**.04639**	**.02874**	**.24493**	**104.38**	**8.3881**	**.17096**
Stddev	.00018	.00040	.00013	.00139	1.58	.1963	.00269
%RSD	1.0371	.86400	.46502	.56625	1.5136	2.3399	1.5763
#1	.01717	.04685	.02860	.24354	102.66	8.1766	.16831
#2	.01746	.04615	.02875	.24492	104.71	8.4232	.17088
#3	.01750	.04616	.02886	.24631	105.77	8.5644	.17370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**148.86**	**6.7014**	**.01178**	**2.3883**	**.19154**	**.96599**	**.00620**
Stddev	2.38	.0897	.00046	.0371	.00103	.00352	.00191
%RSD	1.5956	1.3387	3.8765	1.5537	.53917	.36490	30.759
#1	146.30	6.6048	.01141	2.3492	.19258	.96193	.00747
#2	149.29	6.7173	.01229	2.3927	.19153	.96814	.00401
#3	151.00	6.7821	.01163	2.4230	.19051	.96792	.00713
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

L1206080418

Sample Name: ~~L1206080419DL~~ Acquired: 6/29/2012 17:46:54 Type: Unk

Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000

User: PDM Custom ID1: ~~5~~ Custom ID2: Custom ID3:

Comment: ~~WG402119-02~~

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00955**	F **738.93**	**.03459**	F **31.397**	**.10133**	**.00146**	**.09330**
Stddev	.00471	1.19	.00097	.558	.00281	.00298	.00048
%RSD	49.340	.16041	2.8082	1.7776	2.7698	203.70	.51833
#1	.00436	740.05	.03530	30.888	.09813	.00482	.09295
#2	.01356	737.69	.03348	31.309	.10340	-.00089	.09310
#3	.01074	739.06	.03500	31.994	.10245	.00046	.09385
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000		4.5000			
Low Limit		-1.0000		-.01000			

Elem	Zn2062
Units	ppm
Avg	**2.5285**
Stddev	.0095
%RSD	.37400
#1	2.5230
#2	2.5230
#3	2.5394
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**11261.**	**22454.**
Stddev	20.	215.
%RSD	.17725	.95608
#1	11271.	22646.
#2	11275.	22493.
#3	11238.	22222.

Approved: July 02, 2012

Pierre Morris

Sample Name: L1206080419~~DL~~ Acquired: 6/29/2012 17:50:30 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: ~~25~~ Custom ID2: Custom ID3:
Comment: ~~WG402119-02~~

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.05140**	**133.69**	**.45928**	**.12022**	**2.1979**	**.01277**	**851.68**
Stddev	.00013	.98	.00176	.00233	.0110	.00007	1.43
%RSD	.25410	.73169	.38311	1.9350	.49968	.58420	.16734
#1	.05131	132.56	.45902	.11942	2.1853	.01268	851.29
#2	.05133	134.27	.46116	.11840	2.2054	.01283	853.26
#3	.05155	134.23	.45767	.12284	2.2031	.01279	850.50
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.14474**	**.10319**	**.16882**	**1.2342**	**399.48**	**23.305**	**.13470**
Stddev	.00023	.00020	.00073	.0015	2.07	.142	.00257
%RSD	.16009	.19575	.43409	.11954	.51736	.61122	1.9109
#1	.14461	.10304	.16803	1.2326	397.10	23.141	.13175
#2	.14461	.10312	.16893	1.2354	400.62	23.376	.13653
#3	.14501	.10342	.16948	1.2348	400.73	23.397	.13581
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**27.863**	**14.743**	**.02559**	**2.1220**	**.22089**	**9.6534**	**.03191**
Stddev	.092	.077	.00035	.0176	.00064	.0041	.00312
%RSD	.33193	.52125	1.3746	.82779	.29160	.04261	9.7887
#1	27.823	14.654	.02521	2.1109	.22113	9.6508	.02849
#2	27.968	14.786	.02591	2.1422	.22139	9.6581	.03264
#3	27.797	14.788	.02566	2.1128	.22016	9.6512	.03461
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080419~~DL~~ Acquired: 6/29/2012 17:50:30 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: ~~25~~ Custom ID2: Custom ID3:
Comment: ~~WG402119-02~~

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01754**	F **688.47**	**.14286**	**3.6215**	**.24865**	**.00789**	**.40151**
Stddev	.00616	1.23	.00079	.0074	.00307	.00240	.00168
%RSD	35.111	.17924	.55579	.20338	1.2365	30.382	.41773
#1	.01600	689.80	.14376	3.6224	.24534	.01065	.39975
#2	.01230	688.23	.14257	3.6283	.24917	.00643	.40310
#3	.02433	687.37	.14225	3.6137	.25142	.00658	.40169
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	**25.943**
Stddev	.015
%RSD	.05843
#1	25.926
#2	25.950
#3	25.954
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13079.**	**24227.**
Stddev	3.	67.
%RSD	.02082	.27454
#1	13082.	24299.
#2	13076.	24168.
#3	13079.	24214.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 17:53:56 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39983**	**10.085**	**.39991**	**.49766**	**1.0299**	**.05142**	**10.156**
Stddev	.00126	.030	.00226	.00019	.0111	.00006	.063
%RSD	.31557	.29749	.56453	.03819	1.0725	.11636	.61871
#1	.40128	10.083	.40251	.49766	1.0172	.05145	10.086
#2	.39894	10.056	.39843	.49746	1.0363	.05135	10.208
#3	.39929	10.116	.39879	.49784	1.0363	.05145	10.174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04893**	**.19699**	**.49384**	**.49674**	**4.1819**	**54.996**	**1.0716**
Stddev	.00024	.00033	.00128	.00089	.0192	.376	.0124
%RSD	.49570	.16847	.25917	.17925	.45904	.68394	1.1546
#1	.04888	.19728	.49499	.49620	4.1597	54.562	1.0573
#2	.04919	.19707	.49407	.49776	4.1936	55.188	1.0795
#3	.04871	.19663	.49246	.49624	4.1923	55.237	1.0780
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.176**	**.50908**	**.99580**	**53.467**	**.50776**	**.50047**	**1.1844**
Stddev	.096	.00518	.00111	.507	.00114	.00069	.0015
%RSD	.94100	1.0166	.11175	.94805	.22418	.13716	.12752
#1	10.066	.50313	.99704	52.882	.50787	.50010	1.1831
#2	10.244	.51165	.99547	53.771	.50884	.50126	1.1860
#3	10.217	.51247	.99489	53.749	.50657	.50005	1.1839
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 17:53:56 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.40259**	F **10.888**	**1.0034**	**1.0086**	**.97973**	**.50473**	**.98936**
Stddev	.00629	.272	.0013	.0099	.00943	.00053	.00142
%RSD	1.5628	2.5003	.13100	.97743	.96238	.10426	.14366
#1	.40173	10.699	1.0025	.99732	.96886	.50520	.99091
#2	.39677	10.765	1.0028	1.0154	.98462	.50484	.98904
#3	.40927	11.200	1.0049	1.0131	.98570	.50416	.98812
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		5.0000					
Range		10.000%					

Elem	Zn2062
Units	ppm
Avg	**.98297**
Stddev	.00010
%RSD	.01067
#1	.98301
#2	.98285
#3	.98305
Check ?	Chk Pass
Value	
Range	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13330.**	**23446.**
Stddev	12.	107.
%RSD	.09227	.45651
#1	13344.	23544.
#2	13325.	23461.
#3	13321.	23332.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCB Acquired: 6/29/2012 17:57:11 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	**.00340**	**.00000**	**-.00184**	**.00030**	**.00000**	**.02743**	**-.00005**
Stddev	.00018	.00220	.0021	.00101	.00036	.00001	.01022	.00023
%RSD	46.439	64.786	45867.	54.915	119.91	300.83	37.252	509.41
#1	-.00048	.00104	-.00190	-.00083	.00071	.00001	.03845	.00015
#2	-.00051	.00541	-.00042	-.00183	.00014	-.00001	.02560	.00001
#3	-.00018	.00374	.00231	-.00285	.00005	.00002	.01825	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**-.00216**	**-.00079**	**-.00772**	**-.03690**	**.00474**	**.01329**	**-.00497**
Stddev	.00017	.00020	.00020	.00396	.09649	.00235	.00658	.00012
%RSD	66.861	9.4350	25.459	51.324	261.53	49.659	49.490	2.4406
#1	-.00010	-.00207	-.00099	-.01203	.04873	.00664	.01592	-.00483
#2	-.00022	-.00202	-.00059	-.00425	-.14145	.00211	.00580	-.00503
#3	-.00043	-.00240	-.00080	-.00686	-.01797	.00547	.01814	-.00504
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.03567**	**-.00722**	**-.00037**	**.00211**	**-.00238**	**.30929**	**.00117**
Stddev	.00028	.00588	.00018	.00026	.00239	.00234	.42659	.00031
%RSD	290.46	16.484	2.5598	70.453	113.24	97.925	137.92	26.191
#1	-.00020	.04200	-.00711	-.00007	.00340	-.00299	.13596	.00144
#2	.00034	.03039	-.00710	-.00049	-.00065	-.00436	-.00334	.00122
#3	.00014	.03461	-.00743	-.00056	.00359	.00019	.79526	.00084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Approved: July 02, 2012
Pierre Morris

Sample Name: CCB Acquired: 6/29/2012 17:57:11 Type: Blank
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sr4077	Ti3372	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00183**	**.00187**	**.00028**	**.00143**
Stddev	.00012	.00089	.00201	.00031	.00018
%RSD	101.92	48.632	107.08	113.22	12.691
#1	-.00001	.00097	.00407	.00055	.00127
#2	.00024	.00178	.00142	.00034	.00163
#3	.00013	.00275	.00013	-.00006	.00140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13229.**	**23018.**
Stddev	14.	83.
%RSD	.10394	.35997
#1	13231.	23083.
#2	13215.	23048.
#3	13242.	22925.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080420 Acquired: 6/29/2012 18:00:40 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02501**	**86.044**	**.26570**	**.20843**	**2.7796**	**.00873**	F **2733.2**
Stddev	.00086	.717	.00440	.00307	.0176	.00003	46.6
%RSD	3.4403	.83323	1.6571	1.4718	.63178	.39793	1.7056
#1	.02584	85.226	.26931	.20490	2.7601	.00875	2685.4
#2	.02412	86.342	.26079	.21002	2.7845	.00869	2778.6
#3	.02506	86.564	.26701	.21039	2.7942	.00876	2735.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20904**	**.08868**	**.19122**	**.81057**	**296.98**	**22.447**	**.14570**
Stddev	.00010	.00042	.00064	.00196	2.25	.137	.00301
%RSD	.04885	.47723	.33263	.24162	.75656	.60871	2.0625
#1	.20898	.08820	.19139	.81221	294.49	22.321	.14253
#2	.20916	.08883	.19175	.80840	297.63	22.427	.14851
#3	.20899	.08900	.19052	.81110	298.84	22.592	.14605
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**87.958**	**9.9062**	**.02744**	**2.0310**	**.25730**	**6.6722**	**.02671**
Stddev	.576	.0703	.00008	.0239	.00098	.0029	.00275
%RSD	.65498	.70945	.30463	1.1767	.38069	.04357	10.277
#1	87.342	9.8284	.02749	2.0050	.25746	6.6749	.02916
#2	88.047	9.9251	.02749	2.0361	.25625	6.6691	.02374
#3	88.483	9.9650	.02734	2.0520	.25819	6.6727	.02724
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080420 Acquired: 6/29/2012 18:00:40 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02085**	F **598.11**	**.18286**	F **14.673**	**.21436**	**.00487**	**.25686**
Stddev	.00653	.86	.00061	.100	.00106	.00415	.00112
%RSD	31.338	.14360	.33112	.67927	.49594	85.150	.43505
#1	.01644	598.96	.18225	14.583	.21380	.00942	.25568
#2	.02836	598.12	.18346	14.655	.21370	.00130	.25791
#3	.01775	597.24	.18287	14.780	.21559	.00389	.25699
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000		4.5000			
Low Limit		-1.0000		-.01000			

Elem	Zn2062
Units	ppm
Avg	**17.966**
Stddev	.006
%RSD	.03400
#1	17.959
#2	17.969
#3	17.969
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12096.**	**23189.**
Stddev	14.	96.
%RSD	.11485	.41391
#1	12085.	23295.
#2	12092.	23164.
#3	12112.	23108.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080421 Acquired: 6/29/2012 18:04:15 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.17613**	**128.00**	**3.9598**	**.18554**	**3.7802**	**.01676**	**285.57**
Stddev	.00094	.53	.0030	.00614	.0188	.00009	1.15
%RSD	.53427	.41785	.07567	3.3085	.49671	.50972	.40386
#1	.17711	128.24	3.9568	.17858	3.7609	.01680	284.39
#2	.17604	128.37	3.9599	.19015	3.7812	.01666	285.64
#3	.17524	127.39	3.9628	.18790	3.7984	.01681	286.69
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.54835**	**.13770**	**.11117**	**13.810**	**543.67**	**22.700**	**.12213**
Stddev	.00034	.00007	.00058	.006	9.08	.200	.00072
%RSD	.06205	.05125	.51855	.04661	1.6709	.88076	.59337
#1	.54842	.13777	.11168	13.814	533.44	22.525	.12174
#2	.54865	.13763	.11054	13.814	550.81	22.657	.12169
#3	.54798	.13770	.11130	13.803	546.76	22.918	.12297
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**23.681**	**27.226**	**.09500**	**2.7630**	**.27839**	**38.965**	**.51432**
Stddev	.113	.155	.00038	.0211	.00086	.030	.00101
%RSD	.47680	.56775	.40225	.76351	.31034	.07626	.19551
#1	23.551	27.064	.09544	2.7420	.27922	38.931	.51367
#2	23.753	27.244	.09481	2.7628	.27848	38.977	.51381
#3	23.739	27.371	.09474	2.7842	.27749	38.987	.51548
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080421 Acquired: 6/29/2012 18:04:15 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01331**	F **738.05**	**.93712**	**1.6042**	**.38473**	**.01122**	**.45796**
Stddev	.00475	.87	.00074	.0068	.00190	.00061	.00087
%RSD	35.715	.11800	.07863	.42236	.49452	5.4453	.18923
#1	.00856	738.94	.93774	1.5975	.38301	.01076	.45825
#2	.01332	738.02	.93731	1.6042	.38441	.01100	.45864
#3	.01806	737.20	.93631	1.6110	.38677	.01192	.45698
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	F **88.949**
Stddev	.196
%RSD	.22054
#1	89.106
#2	89.012
#3	88.730
Check ?	Chk Fail
High Limit	45.000
Low Limit	-.01000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13322.**	**24385.**
Stddev	6.	39.
%RSD	.04223	.16010
#1	13317.	24362.
#2	13328.	24364.
#3	13321.	24430.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080422 Acquired: 6/29/2012 18:07:45 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02065**	**88.828**	**.24679**	**.11504**	**1.9745**	**.00846**	F **2994.6**
Stddev	.00065	1.007	.00610	.00170	.0104	.00002	35.1
%RSD	3.1672	1.1337	2.4726	1.4820	.52454	.28243	1.1712
#1	.02008	87.743	.24091	.11695	1.9647	.00848	2966.4
#2	.02051	89.733	.25309	.11368	1.9734	.00846	3033.9
#3	.02137	89.009	.24637	.11450	1.9853	.00843	2983.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.11713**	**.08289**	**.13926**	**.65742**	**288.91**	**22.739**	**.15320**
Stddev	.00028	.00029	.00025	.00175	1.76	.156	.00110
%RSD	.24057	.35061	.18288	.26647	.61054	.68544	.71985
#1	.11682	.08318	.13943	.65549	287.07	22.581	.15193
#2	.11720	.08260	.13897	.65784	289.08	22.744	.15375
#3	.11737	.08291	.13939	.65892	290.58	22.893	.15392
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**104.85**	**10.756**	**.02220**	**1.8908**	**.23900**	**4.4567**	**.02046**
Stddev	.63	.057	.00041	.0108	.00169	.0035	.00038
%RSD	.59787	.53079	1.8367	.56907	.70698	.07805	1.8385
#1	104.18	10.700	.02267	1.8835	.23705	4.4565	.02033
#2	104.95	10.753	.02199	1.9031	.23998	4.4533	.02088
#3	105.43	10.814	.02194	1.8857	.23998	4.4603	.02016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080422 Acquired: 6/29/2012 18:07:45 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01154**	F **583.59**	**.16978**	F **17.764**	**.20063**	**.00162**	**.25648**
Stddev	.00581	1.48	.00159	.141	.00051	.00290	.00013
%RSD	50.340	.25411	.93854	.79337	.25302	178.42	.04931
#1	.01309	584.65	.16902	17.606	.20063	-.00153	.25633
#2	.01643	584.22	.17162	17.875	.20012	.00223	.25652
#3	.00512	581.89	.16871	17.812	.20114	.00417	.25657
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000		4.5000			
Low Limit		-1.0000		-.01000			

Elem	Zn2062
Units	ppm
Avg	**15.519**
Stddev	.007
%RSD	.04346
#1	15.513
#2	15.518
#3	15.527
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**11991.**	**22910.**
Stddev	4.	220.
%RSD	.03019	.95876
#1	11989.	23133.
#2	11988.	22694.
#3	11995.	22902.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080423 Acquired: 6/29/2012 18:11:20 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15527**	**143.11**	**1.4218**	**.15650**	**5.9980**	**.01704**	**324.84**
Stddev	.00018	.56	.0023	.00474	.0447	.00005	2.06
%RSD	.11488	.39084	.16222	3.0301	.74497	.32227	.63523
#1	.15512	142.58	1.4211	.16175	5.9517	.01705	322.75
#2	.15547	143.07	1.4243	.15253	6.0015	.01709	324.90
#3	.15523	143.69	1.4199	.15523	6.0408	.01698	326.88
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.86559**	**.12802**	**.40392**	**3.9173**	**532.98**	**27.655**	**.13051**
Stddev	.00141	.00016	.00303	.0087	5.03	.223	.00049
%RSD	.16277	.12609	.75028	.22136	.94368	.80771	.37648
#1	.86632	.12790	.40478	3.9151	538.27	27.487	.13107
#2	.86648	.12820	.40643	3.9269	528.25	27.569	.13015
#3	.86396	.12795	.40055	3.9100	532.42	27.908	.13031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**22.555**	**17.040**	**.05180**	**1.7138**	**.31622**	**20.658**	**.14219**
Stddev	.220	.129	.00025	.0117	.00057	.031	.00394
%RSD	.97625	.75614	.47573	.68082	.18155	.14960	2.7696
#1	22.352	16.905	.05187	1.7136	.31683	20.651	.14667
#2	22.524	17.052	.05200	1.7022	.31569	20.692	.14061
#3	22.789	17.162	.05153	1.7255	.31615	20.631	.13929
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080423 Acquired: 6/29/2012 18:11:20 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01837**	F **454.23**	**.42466**	**1.5828**	**.26143**	**.01139**	**.46858**
Stddev	.00372	.98	.00246	.0084	.00233	.00144	.00137
%RSD	20.275	.21584	.57835	.52845	.89284	12.669	.29287
#1	.02172	453.26	.42423	1.5743	.25885	.00998	.46942
#2	.01436	455.22	.42731	1.5830	.26206	.01132	.46934
#3	.01903	454.20	.42245	1.5910	.26339	.01287	.46700
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	F **65.631**
Stddev	.439
%RSD	.66872
#1	66.111
#2	65.251
#3	65.531
Check ?	Chk Fail
High Limit	45.000
Low Limit	-.01000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13462.**	**24379.**
Stddev	30.	82.
%RSD	.22478	.33722
#1	13440.	24473.
#2	13450.	24320.
#3	13497.	24345.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080424 Acquired: 6/29/2012 18:14:56 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02257**	**72.373**	**.43953**	**.08739**	**1.8649**	**.00700**	F **2253.9**
Stddev	.00053	.746	.00294	.00145	.0108	.00005	34.9
%RSD	2.3624	1.0309	.66956	1.6609	.57950	.64411	1.5464
#1	.02258	71.800	.44287	.08603	1.8539	.00696	2218.8
#2	.02309	72.103	.43840	.08721	1.8655	.00698	2254.4
#3	.02203	73.217	.43731	.08892	1.8755	.00705	2288.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.82703**	**.08502**	**.15806**	**.74111**	**221.70**	**17.691**	**.11198**
Stddev	.00066	.00029	.00077	.00085	1.56	.135	.00315
%RSD	.07991	.34623	.48669	.11458	.70541	.76538	2.8159
#1	.82766	.08476	.15883	.74027	220.08	17.540	.10917
#2	.82708	.08534	.15729	.74111	221.83	17.732	.11139
#3	.82635	.08497	.15806	.74196	223.20	17.801	.11539
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**71.070**	**9.8728**	**.01590**	**1.6078**	**.23838**	**5.3689**	**.02101**
Stddev	.622	.0682	.00046	.0053	.00083	.0037	.00137
%RSD	.87475	.69071	2.8878	.32800	.35019	.06896	6.4999
#1	70.470	9.8008	.01562	1.6029	.23743	5.3646	.02157
#2	71.028	9.8812	.01565	1.6072	.23873	5.3709	.01946
#3	71.711	9.9364	.01643	1.6134	.23899	5.3711	.02201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080424 Acquired: 6/29/2012 18:14:56 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01128**	F **712.28**	**.08484**	F **10.886**	**.57142**	**.00071**	**.26196**
Stddev	.00451	1.86	.00085	.161	.00410	.00291	.00085
%RSD	40.000	.26164	.99694	1.4834	.71768	411.98	.32428
#1	.00695	711.33	.08570	10.711	.56753	-.00131	.26111
#2	.01596	714.42	.08482	10.918	.57103	-.00061	.26197
#3	.01093	711.08	.08401	11.030	.57571	.00404	.26281
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000		4.5000			
Low Limit		-1.0000		-.01000			

Elem	Zn2062
Units	ppm
Avg	**14.984**
Stddev	.017
%RSD	.11380
#1	14.970
#2	14.980
#3	15.003
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12639.**	**23970.**
Stddev	16.	199.
%RSD	.12972	.82844
#1	12658.	24100.
#2	12629.	24069.
#3	12630.	23742.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080425 Acquired: 6/29/2012 18:18:31 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.16473**	**134.42**	**4.0540**	**.15947**	**2.7586**	**.01461**	**468.72**
Stddev	.00158	.76	.0054	.00441	.0169	.00002	5.46
%RSD	.96076	.56678	.13328	2.7644	.61346	.14214	1.1659
#1	.16447	134.13	4.0479	.16455	2.7409	.01462	462.42
#2	.16330	133.84	4.0582	.15718	2.7603	.01463	471.99
#3	.16643	135.28	4.0559	.15669	2.7746	.01459	471.77
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.20328**	**.11665**	**.10700**	**9.2472**	**543.03**	**22.259**	**.13575**
Stddev	.00023	.00030	.00110	.0034	3.66	.132	.00336
%RSD	.11239	.26028	1.0312	.03641	.67311	.59104	2.4757
#1	.20324	.11692	.10778	9.2506	546.51	22.125	.13533
#2	.20307	.11671	.10574	9.2471	539.22	22.262	.13262
#3	.20352	.11632	.10749	9.2439	543.34	22.388	.13930
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**25.666**	**26.358**	**.07209**	**1.9318**	**.24245**	**29.448**	**.28358**
Stddev	.206	.162	.00053	.0039	.00034	.040	.00192
%RSD	.80273	.61294	.73832	.20270	.13990	.13456	.67541
#1	25.433	26.187	.07271	1.9335	.24225	29.478	.28513
#2	25.740	26.380	.07180	1.9274	.24226	29.463	.28418
#3	25.825	26.507	.07178	1.9346	.24285	29.403	.28144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080425 Acquired: 6/29/2012 18:18:31 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01060**	F **722.86**	**.17414**	**2.3741**	**.33391**	**.01017**	**.41247**
Stddev	.00250	1.86	.00072	.0133	.00182	.00337	.00106
%RSD	23.577	.25665	.41336	.55969	.54437	33.146	.25610
#1	.00794	722.67	.17484	2.3600	.33195	.01344	.41196
#2	.01099	724.80	.17340	2.3759	.33423	.01037	.41176
#3	.01289	721.10	.17419	2.3864	.33554	.00670	.41368
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	F **80.422**
Stddev	.158
%RSD	.19635
#1	80.347
#2	80.315
#3	80.603
Check ?	Chk Fail
High Limit	45.000
Low Limit	-.01000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13250.**	**24392.**
Stddev	4.	49.
%RSD	.02964	.20059
#1	13245.	24410.
#2	13252.	24429.
#3	13252.	24336.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080426 Acquired: 6/29/2012 18:22:07 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01921**	**86.752**	**.20985**	**.09581**	**1.9025**	**.00768**	F **3050.5**
Stddev	.00075	.406	.00358	.00057	.0111	.00004	30.9
%RSD	3.9106	.46845	1.7077	.59199	.58060	.47797	1.0136
#1	.01942	86.352	.21080	.09521	1.8904	.00768	3014.8
#2	.01983	86.742	.20589	.09633	1.9049	.00765	3067.7
#3	.01837	87.164	.21287	.09591	1.9121	.00772	3069.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit							900.00
Low Limit							-.10000

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.06104**	**.07249**	**.16727**	**.57711**	**263.12**	**19.697**	**.15274**
Stddev	.00008	.00018	.00053	.00095	1.50	.067	.00125
%RSD	.13874	.24562	.31507	.16407	.57113	.34137	.81836
#1	.06114	.07255	.16668	.57672	261.54	19.622	.15275
#2	.06100	.07263	.16748	.57641	263.30	19.750	.15148
#3	.06099	.07229	.16767	.57819	264.53	19.720	.15398
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**96.066**	**7.9914**	**.01850**	**1.8355**	**.21395**	**3.8198**	**.02203**
Stddev	.635	.0456	.00039	.0086	.00125	.0048	.00075
%RSD	.66099	.57104	2.0830	.46657	.58223	.12629	3.3842
#1	95.392	7.9421	.01836	1.8300	.21530	3.8157	.02266
#2	96.155	8.0000	.01893	1.8312	.21370	3.8251	.02121
#3	96.652	8.0322	.01819	1.8454	.21285	3.8184	.02222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080426 Acquired: 6/29/2012 18:22:07 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01129**	F **596.80**	**.25046**	F **17.246**	**.24018**	**.00373**	**.23124**
Stddev	.00481	.83	.00178	.113	.00177	.00277	.00079
%RSD	42.608	.13983	.71205	.65616	.73720	74.404	.34215
#1	.01191	597.36	.24966	17.192	.24134	.00693	.23071
#2	.01575	597.19	.25250	17.170	.23814	.00208	.23086
#3	.00620	595.84	.24921	17.376	.24106	.00217	.23215
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000		4.5000			
Low Limit		-1.0000		-.01000			

Elem	Zn2062
Units	ppm
Avg	**9.0625**
Stddev	.0112
%RSD	.12308
#1	9.0511
#2	9.0734
#3	9.0630
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**12139.**	**23323.**
Stddev	7.	129.
%RSD	.05615	.55138
#1	12138.	23452.
#2	12132.	23321.
#3	12146.	23195.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080427 Acquired: 6/29/2012 18:25:43 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.10032**	**130.45**	**4.3352**	**.16621**	**3.5771**	**.01823**	**274.97**
Stddev	.00112	.39	.0046	.00329	.0262	.00027	1.02
%RSD	1.1184	.30160	.10553	1.9774	.73232	1.4952	.37083
#1	.09905	130.03	4.3351	.16869	3.5497	.01800	273.94
#2	.10118	130.51	4.3307	.16248	3.5798	.01817	274.97
#3	.10073	130.81	4.3398	.16746	3.6019	.01853	275.98
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.15817**	**.13215**	**.00992**	**4.1577**	**533.05**	**17.839**	**.11613**
Stddev	.00041	.00030	.00098	.0070	2.81	.104	.00114
%RSD	.25738	.22881	9.8847	.16805	.52737	.58237	.97944
#1	.15781	.13205	.00931	4.1546	535.08	17.724	.11544
#2	.15861	.13250	.00940	4.1658	529.84	17.867	.11745
#3	.15808	.13192	.01105	4.1529	534.24	17.927	.11551
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**21.665**	**42.214**	**.08033**	**1.3411**	**.37867**	**24.051**	**.16710**
Stddev	.206	.289	.00117	.0214	.20803	.042	.00277
%RSD	.94895	.68509	1.4563	1.5958	54.937	.17375	1.6561
#1	21.452	41.915	.07915	1.3280	.25944	24.008	.16475
#2	21.680	42.235	.08036	1.3658	.25768	24.054	.17015
#3	21.863	42.492	.08149	1.3295	.61887	24.091	.16641
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080427 Acquired: 6/29/2012 18:25:43 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00207**	F **754.18**	**.08522**	**1.5373**	**.29294**	**.01445**	**.41771**
Stddev	.00561	9.80	.00013	.0080	.00172	.00291	.00415
%RSD	270.40	1.2997	.15191	.52105	.58695	20.156	.99448
#1	-.00029	748.04	.08517	1.5290	.29141	.01700	.41450
#2	.00847	749.02	.08512	1.5380	.29260	.01128	.41622
#3	-.00196	765.48	.08536	1.5450	.29480	.01507	.42240
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		72.000					
Low Limit		-1.0000					

Elem	Zn2062
Units	ppm
Avg	F **50.925**
Stddev	.286
%RSD	.56192
#1	50.639
#2	50.924
#3	51.212
Check ?	Chk Fail
High Limit	45.000
Low Limit	-.01000

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13863.**	**24971.**
Stddev	123.	47.
%RSD	.88746	.18734
#1	13935.	24992.
#2	13933.	25004.
#3	13721.	24918.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080428 Acquired: 6/29/2012 18:29:11 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**198.85**	**.05319**	**.11433**	**1.0016**	**.01735**	**43.395**
Stddev	.00036	.45	.00184	.00133	.0042	.00009	.197
%RSD	362.89	.22880	3.4593	1.1629	.42251	.52917	.45319
#1	-.00006	199.34	.05202	.11313	.99717	.01727	43.200
#2	-.00015	198.76	.05224	.11576	1.0022	.01733	43.393
#3	.00051	198.45	.05531	.11410	1.0056	.01745	43.593
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**.12682**	**.11078**	**.05380**	**415.45**	**30.191**	**.37522**
Stddev	.00020	.00062	.00034	.00128	2.21	.162	.00194
%RSD	36.264	.48754	.30278	2.3777	.53226	.53593	.51717
#1	.00039	.12718	.11093	.05280	413.10	30.073	.37303
#2	.00047	.12716	.11100	.05336	415.77	30.125	.37594
#3	.00076	.12610	.11039	.05524	417.49	30.376	.37671
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**163.85**	**5.3656**	**.01274**	**.71102**	**.21779**	**.26817**	**-.00642**
Stddev	1.19	.0283	.00041	.00907	.00070	.00928	.00109
%RSD	.72417	.52661	3.1853	1.2754	.32321	3.4620	16.926
#1	162.57	5.3349	.01261	.70180	.21842	.26288	-.00629
#2	164.05	5.3716	.01241	.71133	.21793	.26274	-.00540
#3	164.92	5.3904	.01319	.71993	.21703	.27889	-.00756
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080428 Acquired: 6/29/2012 18:29:11 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **-.01008**	F **347.70**	**.02469**	**.26946**	**1.1640**	**-.00845**	**.45482**
Stddev	.00256	1.01	.00091	.00165	.0065	.00256	.00234
%RSD	25.353	.29036	3.6855	.61155	.55391	30.288	.51414
#1	-.00822	346.61	.02522	.26768	1.1571	-.00563	.45221
#2	-.00902	348.60	.02520	.26976	1.1652	-.00907	.45553
#3	-.01299	347.89	.02364	.27094	1.1699	-.01063	.45673
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	90.000	72.000					
Low Limit	-.01000	-1.0000					

Elem	Zn2062
Units	ppm
Avg	**.98187**
Stddev	.02841
%RSD	2.8937
#1	.96306
#2	.96799
#3	1.0145
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**15938.**	**27868.**
Stddev	1.	130.
%RSD	.00777	.46509
#1	15938.	27725.
#2	15940.	27902.
#3	15937.	27977.

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080429 Acquired: 6/29/2012 18:32:37 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00074**	**.00291**	**-.00086**	**-.00245**	**-.00036**	**.00002**	**.01337**
Stddev	.00073	.00423	.00133	.00109	.00026	.00005	.00979
%RSD	97.638	145.61	155.16	44.411	72.687	357.56	73.244
#1	.00085	.00050	-.00082	-.00229	-.00022	.00001	.02462
#2	-.00003	.00779	.00046	-.00146	-.00019	-.00004	.00680
#3	.00141	.00043	-.00220	-.00362	-.00065	.00007	.00868
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00008**	**-.00107**	**-.00002**	**.02942**	**-.33054**	**.01393**
Stddev	.00010	.00044	.00029	.00066	.03161	.03148	.00223
%RSD	247.17	515.66	26.853	3291.3	107.42	9.5223	16.046
#1	-.00002	-.00008	-.00140	-.00005	.06562	-.35530	.01589
#2	.00015	-.00024	-.00087	-.00066	.01533	-.29512	.01439
#3	-.00001	.00058	-.00094	.00065	.00732	-.34120	.01150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.02684**	F **-.00455**	**-.00015**	**.09631**	**-.00739**	**-.00077**	**-.00036**
Stddev	.01063	.00083	.00026	.08781	.00054	.00181	.00237
%RSD	39.618	18.157	176.67	91.169	7.2912	233.73	658.03
#1	.03683	-.00367	-.00034	.04114	-.00692	-.00211	-.00303
#2	.02801	-.00468	.00015	.19757	-.00727	.00128	.00047
#3	.01566	-.00531	-.00025	.05023	-.00797	-.00149	.00148
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		180.00					
Low Limit		-.00300					

Approved: July 02, 2012
Pierre Morris

Sample Name: L1206080429 Acquired: 6/29/2012 18:32:37 Type: Unk
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00644**	**.22592**	**-.00138**	**-.00001**	**.00169**	**.00179**	**.00005**
Stddev	.00094	.15664	.00005	.00006	.00068	.00424	.00040
%RSD	14.596	69.333	3.6804	557.15	39.957	236.85	788.25
#1	-.00586	.04542	-.00135	-.00008	.00222	-.00281	.00051
#2	-.00594	.30622	-.00135	-.00001	.00093	.00555	-.00012
#3	-.00753	.32613	-.00144	.00005	.00193	.00264	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Zn2062
Units	ppm
Avg	**.00003**
Stddev	.00003
%RSD	97.574
#1	.00000
#2	.00004
#3	.00004
Check ?	Chk Pass
High Limit	
Low Limit	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13879.**	**22696.**
Stddev	15.	1239.
%RSD	.11112	5.4586
#1	13889.	23403.
#2	13861.	21265.
#3	13886.	23419.

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 18:36:05 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4554	Be3131	Ca4226
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39376**	**9.9441**	**.39071**	**.49059**	**1.0297**	**.05254**	**10.093**
Stddev	.00068	.0698	.00226	.00217	.0061	.00014	.071
%RSD	.17248	.70230	.57896	.44132	.59078	.26874	.70148
#1	.39426	9.9312	.39329	.48874	1.0227	.05270	10.012
#2	.39299	9.8817	.38909	.49006	1.0325	.05242	10.122
#3	.39404	10.020	.38974	.49297	1.0339	.05250	10.144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	Co2286	Cr2677	Cu2247	Fe2611	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.04706**	**.19021**	**.47870**	**.48188**	**4.2717**	F **56.040**	**1.0587**
Stddev	.00005	.00044	.00034	.00045	.0410	.197	.0081
%RSD	.11447	.22878	.07127	.09372	.96042	.35232	.76994
#1	.04704	.19022	.47831	.48172	4.2244	55.820	1.0496
#2	.04702	.19063	.47891	.48153	4.2978	56.100	1.0609
#3	.04712	.18976	.47888	.48239	4.2929	56.201	1.0654
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value						50.000	
Range						10.000%	

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.441**	**.50443**	**.98783**	**53.260**	**.50893**	**.50651**	**1.1421**
Stddev	.053	.00381	.00311	.294	.00057	.00819	.0031
%RSD	.50490	.75531	.31517	.55289	.11138	1.6165	.26877
#1	10.389	.50020	.99068	52.930	.50947	.49961	1.1454
#2	10.440	.50547	.98830	53.352	.50897	.50437	1.1416
#3	10.495	.50760	.98451	53.497	.50834	.51556	1.1393
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Approved: July 02, 2012
Pierre Morris

Sample Name: CCV Acquired: 6/29/2012 18:36:05 Type: QC
Method: ICP-THERMO1_6010_200.7_FAST(v1078) Mode: CONC Corr. Factor: 1.000000
User: PDM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2124	Sn1899	Sr4077	Ti3372	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.39998**	F **11.495**	**1.0002**	**1.0019**	**.95565**	**.50702**	**.96820**
Stddev	.00666	1.504	.0023	.0055	.00716	.00058	.00153
%RSD	1.6663	13.086	.23307	.55328	.74950	.11363	.15844
#1	.39300	10.103	1.0025	.99559	.94955	.50750	.96991
#2	.40628	11.290	1.0001	1.0039	.95386	.50638	.96695
#3	.40065	13.090	.99787	1.0061	.96353	.50718	.96776
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		5.0000					
Range		10.000%					

Elem	Zn2062
Units	ppm
Avg	**.97467**
Stddev	.01723
%RSD	1.7679
#1	.96116
#2	.96877
#3	.99408
Check ?	Chk Pass
Value	
Range	

Int. Std.	Y_2243	Y_3774
Units	Cts/S	Cts/S
Avg	**13738.**	**23461.**
Stddev	18.	150.
%RSD	.13236	.64001
#1	13758.	23537.
#2	13722.	23557.
#3	13735.	23288.

Approved: July 02, 2012
Pierre Morris

2.1.2 Metals CVAA Data (Mercury)

2.1.2.1 Summary Data

Login Number: L12060837
Department: Metals - AA
Analyst: Pierce Morris

METHOD

Preparation: SW-846 7470

Analysis: SW-846 7470

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Interference Check Standards: All acceptance criteria were met.

Continuing Calibration Verification: All acceptance criteria were met.

Continuing Calibration Blank: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Serial Dilution/Post Digestion Spikes: WG402160 - All acceptance criteria were met.

Matrix Spikes: All acceptance criteria were met.

SAMPLES

Samples: All acceptance criteria were met.

Narrative ID: 49382
Approved By: Sheri Pfalzgraf

Certificate of Analysis

Sample #: L12060837-01 **PrePrep Method:** **Instrument:** HYDRA
Client ID: NS01-062312 **Prep Method:** 7470A **Prep Date:** 06/28/2012 12:19
Matrix: TCLP Leachate **Analytical Method:** 7470A **Cal Date:** 07/02/2012 11:51
Workgroup #: WG402160 **Analyst:** PDM **Run Date:** 07/02/2012 12:47
Collect Date: 06/23/2012 09:30 **Dilution:** 1 **File ID:** HY.070212.124725
Sample Tag: 01 **Units:** mg/L

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Mercury		U	0.00200	0.00100	D009	0.2

U	Not detected at or above adjusted sample detection limit.

Sample #: L12060837-02 **PrePrep Method:** **Instrument:** HYDRA
Client ID: NS02-062212 **Prep Method:** 7470A **Prep Date:** 06/28/2012 12:19
Matrix: TCLP Leachate **Analytical Method:** 7470A **Cal Date:** 07/02/2012 11:51
Workgroup #: WG402160 **Analyst:** PDM **Run Date:** 07/02/2012 12:49
Collect Date: 06/22/2012 14:15 **Dilution:** 1 **File ID:** HY.070212.124903
Sample Tag: 01 **Units:** mg/L

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Mercury		U	0.00200	0.00100	D009	0.2

U	Not detected at or above adjusted sample detection limit.

Sample #: L12060837-03 **PrePrep Method:** **Instrument:** HYDRA
Client ID: GS01-062112 **Prep Method:** 7470A **Prep Date:** 06/28/2012 12:19
Matrix: TCLP Leachate **Analytical Method:** 7470A **Cal Date:** 07/02/2012 11:51
Workgroup #: WG402160 **Analyst:** PDM **Run Date:** 07/02/2012 12:51
Collect Date: 06/21/2012 14:30 **Dilution:** 1 **File ID:** HY.070212.125109
Sample Tag: 01 **Units:** mg/L

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Mercury		U	0.00200	0.00100	D009	0.2

U	Not detected at or above adjusted sample detection limit.

Sample #: L12060837-04 **PrePrep Method:** **Instrument:** HYDRA
Client ID: GS02-062112 **Prep Method:** 7470A **Prep Date:** 06/28/2012 12:19
Matrix: TCLP Leachate **Analytical Method:** 7470A **Cal Date:** 07/02/2012 11:51
Workgroup #: WG402160 **Analyst:** PDM **Run Date:** 07/02/2012 12:52
Collect Date: 06/21/2012 18:00 **Dilution:** 1 **File ID:** HY.070212.125247
Sample Tag: 01 **Units:** mg/L

Certificate of Analysis

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Mercury		U	0.00200	0.00100	D009	0.2

U	Not detected at or above adjusted sample detection limit.

Sample #: L12060837-05 **PrePrep Method:** **Instrument:** HYDRA
Client ID: GS03-062212 **Prep Method:** 7470A **Prep Date:** 06/28/2012 12:19
Matrix: TCLP Leachate **Analytical Method:** 7470A **Cal Date:** 07/02/2012 11:51
Workgroup #: WG402160 **Analyst:** PDM **Run Date:** 07/02/2012 12:55
Collect Date: 06/22/2012 16:15 **Dilution:** 1 **File ID:** HY.070212.125500
Sample Tag: 01 **Units:** mg/L

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Mercury		U	0.00200	0.00100	D009	0.2

U	Not detected at or above adjusted sample detection limit.

Sample #: L12060837-06 **PrePrep Method:** **Instrument:** HYDRA
Client ID: GS04-062212 **Prep Method:** 7470A **Prep Date:** 06/28/2012 12:19
Matrix: TCLP Leachate **Analytical Method:** 7470A **Cal Date:** 07/02/2012 11:51
Workgroup #: WG402160 **Analyst:** PDM **Run Date:** 07/02/2012 12:56
Collect Date: 06/22/2012 12:45 **Dilution:** 1 **File ID:** HY.070212.125639
Sample Tag: 01 **Units:** mg/L

Analyte	Result	Qual	RL	MDL	EPA HW#	Reg. Limit
Mercury		U	0.00200	0.00100	D009	0.2

U	Not detected at or above adjusted sample detection limit.

2.1.2.2 QC Summary

Example Cold Vapor Mercury Calculations
Hydra AA Mercury Analyzer

1.0 Initial Calibration (ICAL) Parameters
The system performs linear regression from data consisting of a blank and five standards.

2.0 Calculating the concentration (C) of an element in water using data from run log and quantitation report (note:the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Vi} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Diluted to Volume (mL)	40
Vi = Aliquot Volume (mL)	40
D = Manual dilution factor, if required (10X = 10)	1
Cx = Concentration of element in ppb (ug/L)	0.1

3.0 Calculating the concentration (C) of an element in soil using data from prep log and quantitation report (note: the data system performs this calculation automatically when correction factors have been entered):

$$Cx = Cs \times \frac{Vf}{Ws} \times D$$

Where:	**Example:**
Cs = Concentration computed by the data system (ug/L)	0.1
Vf = Diluted to volume (mL)	40
Ws = Aliquot weight (g)	0.6
D = Manual dilution factor	1
Cx = Concentration of element in ug/kg	6.67

4.0 Adjusting the concentration to dry weight:

$$Cdry = \frac{Cx \times 100}{Px}$$

1 Cx = Concentration calculated as received (wet basis)	6.67
Px = Percent solids of sample (%wt)	80
$Cdry$ = Concentration calculated as dry weight (ug/kg)	8.33

8.33 ug/kg = 0.00833 mg/kg

TCLP Non-Volatile

Analyst(s): RLC
Date: 6-27-12
Filter Lot #: 463983
Microbac SOP: TCLP 01 Rev #09

Analyst / Date		Analyst / Date	
RLC 6-27-12		RLC 6-28-12	
Time On	Temp On °C	Time Off	Temp Off °C
1800	24	1000	23

Agitator Speed 30 ± 2 rpm ☑

Jug #	Sample #	Tests	Method	Fluid #	Matrix *	% Solid	Pretest pH Initial	Pretest pH Final	Int. Wt. (g)	Fluid Vol. (mL)	Final extract pH
G1	06-785-01	MESV	1311	F1869	S	100	9	3.5	100.06	2000	7
G1	06-794-01	Herb			S/S		9	2	100.06		6
G15	03						9	2	100.08		5
G8	05						9	2	100.05		5
G5	07						9	2	100.00		5
G28	09						9	2	100.02		5
G6	11						9	2	100.02		5
G14	06-797-01	MESV Pest			S		8	2	100.01		5
D	06-798-01						8	2	100.00		5
D	06-802-01						9	2	100.08		5
G10	06-818-38	SV			S/S		8	2	100.09		5
D	06-831-01						9	RLC 4.8	100.07		6
D	02						8	3.86	100.05		6
D	03						8	2	100.00		6
D	04						8	2	100.07		6
D	05						8	2	100.04		6
D	06						8	2	100.07		6
D	07						8	2	100.00		6
D	06-842-01						9	2	100.06		6
D	843-01			F2291	S		13	13	25.01	500	11
D	02				S		13	13	25.03		11
D	852-01			F1869	S		11	2.5	100.02	2000	11
N/A	FBLK(1)	SV Pest Herb			N/A	N/A	N/A	N/A	N/A		N/A
	FBLK(2)			F2291						500	
		RLC 6-27-12									

*Matrix Code: (S = solid, sand, soil or sludge) (P = paint) (O = organic) (W = water or aqueous waste)
D = Disposable plastic jug
TCLP Pretest weight will be 5.0 g (± 0.1) unless otherwise noted.
Temperature shall be maintained at 23° ± 2 for 18 ± 2 hours unless otherwise noted.

Comments: _____

Peer Review By: _____

Microbac Laboratories Inc.
Metals Digest Log

Workgroup: WG401954
Analyst: REK
Spike Analyst: REK
Method: 7470A
Run Date: 06/28/2012 12:19
Hotblock Start Temp: 94 @ 12:05
Hotblock End Temp: 93.2 @ 14:05

SOP: ME404 Revison 13
Spike Solution: STD52482
Spike Witness: VC
H2SO4 Lot #: COA16153
Digestion Tubes Lot #: COA16255
HNO3 Lot #: COA16256
K2S2O8 1:1 Lot #: RGT16987
KMnO4 1:1 Lot #: RGT17508
Mercury Water ICV Lot #: STD52484
HG H2O STDS 10PPM Lot #: STD52490

	SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Spike Amount	Due Date
1	WG401954-02	BLANK	17	4 mL	40 mL		
2	WG401904-01	FBLK1	17	4 mL	40 mL		
3	WG401904-02	FBLK2	17	4 mL	40 mL		
4	WG401954-03	LCS	17	4 mL	40 mL	4 mL	
5	WG401954-01	REF	17	4 mL	40 mL		
6	L12060785-01	SAMP	17	4 mL	40 mL		07/06/12
7	L12060797-01	SAMP	17	4 mL	40 mL		07/02/12
8	L12060798-01	SAMP	17	4 mL	40 mL		07/02/12
9	L12060802-01	SAMP	17	4 mL	40 mL		07/02/12
10	L12060818-38	SAMP	17	4 mL	40 mL		07/06/12
11	L12060837-01	SAMP	17	4 mL	40 mL		07/03/12
12	L12060837-02	SAMP	17	4 mL	40 mL		07/03/12
13	L12060837-03	SAMP	17	4 mL	40 mL		07/03/12
14	L12060837-04	SAMP	17	4 mL	40 mL		07/03/12
15	L12060837-05	SAMP	17	4 mL	40 mL		07/03/12
16	L12060837-06	SAMP	17	4 mL	40 mL		07/03/12
17	L12060842-01	SAMP	17	4 mL	40 mL		07/03/12
18	L12060843-01	SAMP	17	4 mL	40 mL		07/02/12
19	L12060843-02	SAMP	17	4 mL	40 mL		07/02/12
20	WG401954-04	MS	17	4 mL	40 mL	4 mL	
21	WG401954-05	MSD	17	4 mL	40 mL	4 mL	

Analyst: 

Reviewer: 

HB_DIG - Modified 09/30/2009
PDF ID: 2475277
Report generated: 06/28/2012 15:51

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HYDRA Dataset: 070212B.PRN
Analyst1: PDM Analyst2: N/A
Method: 7470 SOP: ME404 Rev: 13
Maintenance Log ID: 42322

Calibration Std: STD52490 ICV Std: STD52484 Post Spike: STD52490
ICSA: N/A ICSAB: N/A Int. Std:
CCV: LLCCV:

Workgroups: 402160,402147

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	HY.070212.114235	WG402200-01	Calibration Point		1		07/02/12 11:42
2	HY.070212.114412	WG402200-02	Calibration Point		1		07/02/12 11:44
3	HY.070212.114550	WG402200-03	Calibration Point		1		07/02/12 11:45
4	HY.070212.114737	WG402200-04	Calibration Point		1		07/02/12 11:47
5	HY.070212.114939	WG402200-05	Calibration Point		1		07/02/12 11:49
6	HY.070212.115120	WG402200-06	Calibration Point		1		07/02/12 11:51
7	HY.070212.120528	WG402200-07	Initial Calibration Verification		1		07/02/12 12:05
8	HY.070212.120740	WG402200-08	Initial Calib Blank		1		07/02/12 12:07
9	HY.070212.120938	WG402200-09	CCV		1		07/02/12 12:09
10	HY.070212.121125	WG402200-10	CCB		1		07/02/12 12:11
11	HY.070212.122222	WG401954-02	Method/Prep Blank	4/40	1		07/02/12 12:22
12	HY.070212.122438	WG401954-03	Laboratory Control S	4/40	1		07/02/12 12:24
13	HY.070212.122634	WG401904-01	TCLP Fluid Blank 1		1		07/02/12 12:26
14	HY.070212.122812	WG401904-02	TCLP Fluid Blank 2		1		07/02/12 12:28
15	HY.070212.123020	WG401954-01	Reference Sample	4/40	1	L12060785-01	07/02/12 12:30
16	HY.070212.123201	WG401954-04	Matrix Spike	4/40	1	L12060785-01	07/02/12 12:32
17	HY.070212.123340	WG401954-05	Matrix Spike Duplica	4/40	1	L12060785-01	07/02/12 12:33
18	HY.070212.123527	L12060797-01	2061368-01	4/40	1		07/02/12 12:35
19	HY.070212.123705	WG402160-01	Post Digestion Spike		1	L12060797-01	07/02/12 12:37
20	HY.070212.123842	L12060798-01	2061432-01	4/40	1		07/02/12 12:38
21	HY.070212.124024	WG402200-11	CCV		1		07/02/12 12:40
22	HY.070212.124223	WG402200-12	CCB		1		07/02/12 12:42
23	HY.070212.124411	L12060802-01	2061363-01	4/40	1		07/02/12 12:44
24	HY.070212.124549	L12060818-38	153-IDW-1	4/40	1		07/02/12 12:45
25	HY.070212.124725	L12060837-01	NS01-062312	4/40	1		07/02/12 12:47
26	HY.070212.124903	L12060837-02	NS02-062212	4/40	1		07/02/12 12:49
27	HY.070212.125109	L12060837-03	GS01-062112	4/40	1		07/02/12 12:51
28	HY.070212.125247	L12060837-04	GS02-062112	4/40	1		07/02/12 12:52
29	HY.070212.125500	L12060837-05	GS03-062212	4/40	1		07/02/12 12:55
30	HY.070212.125639	L12060837-06	GS04-062212	4/40	1		07/02/12 12:56
31	HY.070212.125816	L12060842-01	2ND CARBON BLDG	4/40	1		07/02/12 12:58
32	HY.070212.125955	L12060843-01	HSBH BLUE	4/40	1		07/02/12 12:59
33	HY.070212.130143	WG402200-13	CCV		1		07/02/12 13:01
34	HY.070212.130411	WG402200-14	CCB		1		07/02/12 13:04

Page: 1 Approved: July 02, 2012

Sheri L. Babgard

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HYDRA Dataset: 070212B.PRN
Analyst1: PDM Analyst2: N/A
Method: 7470 SOP: ME404 Rev: 13
Maintenance Log ID: 42322

Calibration Std: STD52490 ICV Std: STD52484 Post Spike: STD52490
ICSA: N/A ICSAB: N/A Int. Std:
CCV: LLCCV:

Workgroups: 402160,402147

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
35	HY.070212.130558	L12060843-02	ALAN RED	4/40	1		07/02/12 13:05
36	HY.070212.130749	WG402200-15	CCV		1		07/02/12 13:07
37	HY.070212.130937	WG402200-16	CCB		1		07/02/12 13:09
38	HY.070212.131116	WG401909-03	Method/Prep Blank	40/40	1		07/02/12 13:11
39	HY.070212.131308	WG401909-04	Laboratory Control S	40/40	1		07/02/12 13:13
40	HY.070212.131446	L12060740-01	77-77MW3-G-1	40/40	1		07/02/12 13:14
41	HY.070212.131623	L12060740-02	77-77MW3-G-1-D	40/40	1		07/02/12 13:16
42	HY.070212.131820	L12060740-03	77-77MW4-G-1	40/40	1		07/02/12 13:18
43	HY.070212.132011	WG401947-01	Post Digestion Spike		1	L12060740-01	07/02/12 13:20
44	HY.070212.132201	WG401909-01	Reference Sample	40/40	1	L12060740-04	07/02/12 13:22
45	HY.070212.132339	L12060740-05	77-77MW2-G-1-MS	36/40	1	WG401909-05	07/02/12 13:23
46	HY.070212.132537	L12060740-06	77-77MW2-G-1-MSD	36/40	1	WG401909-06	07/02/12 13:25
47	HY.070212.132718	L12060778-01	MW-23-006	40/40	1		07/02/12 13:27
48	HY.070212.132855	WG402200-17	CCV		1		07/02/12 13:28
49	HY.070212.133052	WG402200-18	CCB		1		07/02/12 13:30
50	HY.070212.133230	L12060778-02	MW-23-007	40/40	1		07/02/12 13:32
51	HY.070212.133410	L12060778-03	MW-23-002	40/40	1		07/02/12 13:34
52	HY.070212.133617	L12060778-04	MW-23-005	40/40	1		07/02/12 13:36
53	HY.070212.133807	WG401909-02	Reference Sample	40/40	1	L12060778-05	07/02/12 13:38
54	HY.070212.134007	L12060778-06	MW-23-009MS	36/40	1	WG401909-07	07/02/12 13:40
55	HY.070212.134155	L12060778-07	MW-23-009MSD	36/40	1	WG401909-08	07/02/12 13:41
56	HY.070212.134406	L12060778-08	MW-23-008	40/40	1		07/02/12 13:44
57	HY.070212.134550	L12060778-10	06212012-FD-1	40/40	1		07/02/12 13:45
58	HY.070212.134749	L12060793-01	193042	40/40	1		07/02/12 13:47
59	HY.070212.134930	L12060793-02	193042	40/40	1		07/02/12 13:49
60	HY.070212.135130	WG402200-19	CCV		1		07/02/12 13:51
61	HY.070212.135311	WG402200-20	CCB		1		07/02/12 13:53
62	HY.070212.135452	L12060817-36	153-02-RB	40/40	1		07/02/12 13:54
63	HY.070212.135702	L12060817-37	153-08-RB	40/40	1		07/02/12 13:57
64	HY.070212.135850	L12060889-01	HTA11-01	40/40	1		07/02/12 13:58
65	HY.070212.140027	L12060889-02	HTA14-RB	40/40	1		07/02/12 14:00
66	HY.070212.140206	WG402200-21	CCV		1		07/02/12 14:02
67	HY.070212.140343	WG402200-22	CCB		1		07/02/12 14:03

Page: 2 Approved: July 02, 2012

Sheri L. Babgard

Microbac

Microbac Laboratories Inc.

Data Checklist

Date: 02-JUL-2012
Analyst: PDM
Analyst: NA
Method: 7470
Instrument: HYDRA
Curve Workgroup: 402200
Runlog ID: 47609
Analytical Workgroups: 402160,402147

Calibration/Linearity	X
ICV/CCV	X
ICV RSD <= 3% (EPA 200.7 only)	
ICB/CCB	X
ICSA/ICSAB	
CRI	
Blank/LCS	X
MS/MSD	X
Post Spike/Serial Dilution	X
Upload Results	X
Data Qualifiers	
Generate PDF Instrument Data	X
Sign/Annotate PDF Data	X
Upload Curve Data	X
Workgroup Forms	X
Case Narrative	0797,0798,0802,0818,0837,0740,0793
Client Forms	0793,0817,0889
Level X	
Level 3	0793
Level 4	0818,0837,0740,0793,0817,0889
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	PDM
Secondary Reviewer	SLP
Comments	

Primary Reviewer:
02-JUL-2012
Pierce Morris

Secondary Reviewer:
02-JUL-2012
Sheri L. Babcock

CHECKLIST1 - Modified 03/05/2008
Generated: JUL-02-2012 15:53:07

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 7470A AAB#: WG402160

Login Number: L12060837

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
NS01-062312	01	06/23/12	06/27/12	4.4	28		06/28/12	5.1	28		07/02/12	4.8	28	
NS02-062212	02	06/22/12	06/27/12	5.2	28		06/28/12	5.9	28		07/02/12	4.8	28	
GS01-062112	03	06/21/12	06/27/12	6.1	28		06/28/12	6.9	28		07/02/12	4.8	28	
GS02-062112	04	06/21/12	06/27/12	6	28		06/28/12	6.8	28		07/02/12	4.8	28	
GS03-062212	05	06/22/12	06/27/12	5.1	28		06/28/12	5.8	28		07/02/12	4.8	28	
GS04-062212	06	06/22/12	06/27/12	5.2	28		06/28/12	6	28		07/02/12	4.8	28	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 2479314
Report generated 07/02/2012 15:16

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L12060837
Work Group: WG402160
Blank File ID: HY.070212.122222
Blank Sample ID: WG401954-02
Prep Date: 06/28/12 12:19
Instrument ID: HYDRA
Analyzed Date: 07/02/12 12:22
Method: 7470A
Analyst: PDM

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG401954-03	HY.070212.122438	07/02/12 12:24	01
NS01-062312	L12060837-01	HY.070212.124725	07/02/12 12:47	01
NS02-062212	L12060837-02	HY.070212.124903	07/02/12 12:49	01
GS01-062112	L12060837-03	HY.070212.125109	07/02/12 12:51	01
GS02-062112	L12060837-04	HY.070212.125247	07/02/12 12:52	01
GS03-062212	L12060837-05	HY.070212.125500	07/02/12 12:55	01
GS04-062212	L12060837-06	HY.070212.125639	07/02/12 12:56	01

Report Name: BLANK_SUMMARY
PDF File ID: 2479315
Report generated 07/02/2012 15:16

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L12060837 Prep Date: 06/28/12 12:19 Sample ID: WG401954-02
Instrument ID: HYDRA Run Date: 07/02/12 12:22 Prep Method: 7470A
File ID: HY.070212.122222 Analyst: PDM Method: 7470A
Workgroup (AAB#): WG402160 Matrix: TCLP Leach Units: mg/L
Contract #: Cal ID: HYDRA-02-JUL-12

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Mercury	0.00100	0.00200	0.00100	1	U

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 2479316
02-JUL-2012 15:16

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L12060837 **Run Date:** 07/02/2012 **Sample ID:** WG401954-03
Instrument ID: HYDRA **Run Time:** 12:24 **Prep Method:** 7470A
File ID: HY.070212.122438 **Analyst:** PDM **Method:** 7470A
Workgroup (AAB#): WG402160 **Matrix:** TCLP Leach **Units:** mg/L
QC Key: WATERLOO **Lot#:** STD52482 **Cal ID:** HYDRA-02-JUL-12

Analytes	Expected	Found	% Rec	LCS Limits	Q
Mercury	0.0400	0.0429	107	85 - 115	

LCS - Modified 03/06/2008
PDF File ID: 2479317
Report generated: 07/02/2012 15:16

Microbac Laboratories Inc.

MATRIX SPIKE AND MATRIX SPIKE DUP (MS/MSD)

Loginnum:L12060837 Cal ID:HYDRA- Worknum:WG402160

Instrument ID:HYDRA Contract #: Method:7470A

Parent ID:WG401954-01 File ID:HY.070212.123020 Dil:1 Matrix:WATER

Sample ID:WG401954-04 MS File ID:HY.070212.123201 Dil:1 Units:mg/L

Sample ID:WG401954-05 MSD File ID:HY.070212.123340 Dil:1

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Mercury	ND	0.0400	0.0416	104	0.0400	0.0422	106	1.43	85 - 115	20	

* FAILS %REC LIMIT

FAILS RPD LIMIT

NOTE: This is an internal quality control sample.

WG_MS_MSD_DRYWT - Modified 05/26/2011

PDF File ID: 2479662

Report generated 07/02/2012 16:10

Microbac Laboratories Inc.
POST SPIKE REPORT

Sample Login ID: L12060837 **Worknum:** WG402160
Instrument ID: HYDRA **Method:** 7470A
Post Spike ID: WG402160-01 **File ID:** HY.070212.123705 **Dil:** 1 **Units:** ug/L
Sample ID: L12060797-01 **File ID:** HY.070212.123527 **Dil:** 1 **Matrix:** TCLP Leac

Analyte	Post Spike Result	C	Sample Result	C	Spike Added(SA)	% R	Control Limit %R	Q
MERCURY	0.880		0	U	1	88.0	85 - 115	

N = % Recovery exceeds control limits
F = Result is between MDL and RL
U = Sample result is below MDL. A value of zero is used in the calculation

POST_SPIKE - Modified 03/06/2008
PDF File ID: 2479313
Report generated: 07/02/2012 15:16

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L12060837
Analytical Method: 7470A
ICAL Worknum: WG402200

Workgroup (AAB#): WG402160
Instrument ID: HYDRA
Initial Calibration Date: 07/02/2012 11:51

Analyte	WG402200-01		WG402200-02		WG402200-03		WG402200-04		WG402200-05		WG402200-06	
	STD	INT	STD	INT	STD	INT	STD	INT	STD	INT	STD	INT
Mercury	0	2319	0.200	10482	1.00	50057	2.00	98951	5.00	239704	10.0	474942

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
*** = Out of Compliance; R < 0.995**

INT_CAL_HG_FU - Modified 03/06/2008
PDF File ID: 2479318
Report generated 07/02/2012 15:16

Microbac Laboratories Inc.

INITIAL CALIBRATION SUMMARY

Login Number: L12060837
Analytical Method: 7470A
ICAL Worknum: WG402200

Workgroup (AAB#): WG402160
Instrument ID: HYDRA
Initial Calibration Date: 07/02/2012 11:51

Analyte	R	Q
Mercury	1.000	

INT = Instrument intensity
R = Coefficient of correlation
Q = Data Qualifier
* = Out of Compliance; R < 0.995

INT_CAL_HG_FU - Modified 03/06/2008
PDF File ID: 2479318
Report generated 07/02/2012 15:16

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L12060837 Run Date: 07/02/2012 Sample ID: WG402200-08
Instrument ID: HYDRA Run Time: 12:07 Method: 7470A
File ID: HY.070212.120740 Analyst: PDM Units: ug/L
Workgroup (AAB#): WG402160 Cal ID: HYDRA - 02-JUL-12
Matrix: TCLP LEACHATE

Analytes	MDL	RDL	Concentration	Qualifier
MERCURY	.1	.2	.1	U

ICB - Modified 07/14/2009
PDF File ID: 2479320
Report generated 07/02/2012 15:16

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L12060837	Run Date:	07/02/2012	Sample ID:	WG402200-10
Instrument ID:	HYDRA	Run Time:	12:11	Method:	7470A
File ID:	HY.070212.121125	Analyst:	PDM	Units:	ug/L
Workgroup (AAB#):	WG402160	Cal ID:	HYDRA - 02-JUL-12		
Matrix:	TCLP LEACHATE	QAPP:	WATERLOO		

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.100	0.200	0.100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 2479322
Report generated 07/02/2012 15:16

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L12060837	Run Date:	07/02/2012	Sample ID:	WG402200-12
Instrument ID:	HYDRA	Run Time:	12:42	Method:	7470A
File ID:	HY.070212.124223	Analyst:	PDM	Units:	ug/L
Workgroup (AAB#):	WG402160	Cal ID:	HYDRA - 02-JUL-12		
Matrix:	TCLP LEACHATE	QAPP:	WATERLOO		

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.100	0.200	0.100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 2479322
Report generated 07/02/2012 15:16

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L12060837 Run Date: 07/02/2012 Sample ID: WG402200-14

Instrument ID: HYDRA Run Time: 13:04 Method: 7470A

File ID: HY.070212.130411 Analyst: PDM Units: ug/L

Workgroup (AAB#): WG402160 Cal ID: HYDRA - 02-JUL-12

Matrix: TCLP LEACHATE QAPP: WATERLOO

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.100	0.200	0.100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 2479322
Report generated 07/02/2012 15:16

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)
(Alternate Source)

Login Number: L12060837 Run Date: 07/02/2012 Sample ID: WG402200-07
Instrument ID: HYDRA Run Time: 12:05 Method: 7470A
File ID: HY.070212.120528 Analyst: PDM Units: ug/L
Workgroup (AAB#): WG402160 Cal ID: HYDRA - 02-JUL-12
QC Key: WATERLOO

Analyte		Expected	Found	%REC	LIMITS	Q
Mercury		2	2.10	105	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008
PDF File ID: 2479319
Report generated 07/02/2012 15:16

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L12060837 Run Date: 07/02/2012 Sample ID: WG402200-09

Instrument ID: HYDRA Run Time: 12:09 Method: 7470A

File ID: HY.070212.120938 Analyst: PDM QC Key: WATERLOO

Workgroup (AAB#): WG402160 Cal ID: HYDRA - 02-JUL-12

Matrix: TCLP LEACH

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00204	mg/L	102	80 - 120		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 2479321

Report generated 07/02/2012 15:16

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L12060837 Run Date: 07/02/2012 Sample ID: WG402200-11

Instrument ID: HYDRA Run Time: 12:40 Method: 7470A

File ID: HY.070212.124024 Analyst: PDM QC Key: WATERLOO

Workgroup (AAB#): WG402160 Cal ID: HYDRA - 02-JUL-12

Matrix: TCLP LEACH

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00194	mg/L	97.0	80 - 120		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 2479321

Report generated 07/02/2012 15:16

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L12060837 Run Date: 07/02/2012 Sample ID: WG402200-13

Instrument ID: HYDRA Run Time: 13:01 Method: 7470A

File ID: HY.070212.130143 Analyst: PDM QC Key: WATERLOO

Workgroup (AAB#): WG402160 Cal ID: HYDRA - 02-JUL-12

Matrix: TCLP LEACH

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00192	mg/L	96.0	80 - 120		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 2479321

Report generated 07/02/2012 15:16

2.1.2.3 Raw Data

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Standard: 1 Rep: 1              Seq:  1       11:42:35 02 Jul 12   HG

Hg    .000    ppb      2319

*** Standard: 2 Rep: 1              Seq:  2       11:44:12 02 Jul 12   HG

Hg    .200    ppb      10482

*** Standard: 3 Rep: 1              Seq:  3       11:45:50 02 Jul 12   HG

Hg    1.00    ppb      50057

*** Standard: 4 Rep: 1              Seq:  4       11:47:37 02 Jul 12   HG

Hg    2.00    ppb      98951

*** Standard: 5 Rep: 1              Seq:  5       11:49:39 02 Jul 12   HG

Hg    5.00    ppb      239704

*** Standard: 6 Rep: 1              Seq:  6       11:51:20 02 Jul 12   HG

Hg    10.0    ppb      474942

*** Check Standard: 2  Ck2ICV       Seq:  7       12:05:28 02 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          105.     2.10    2.00   ppb        .000

*** Check Standard: 3  Ck3ICB       Seq:  8       12:07:40 02 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg         -14.4    -.029    .200   ppb        .000

*** Check Standard: 4  Ck4CCV       Seq:  9       12:09:38 02 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          102.     2.04    2.00   ppb        .000

*** Check Standard: 5  Ck5CCB       Seq:  10      12:11:25 02 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg         -18.9    -.038    .200   ppb        .000

*** Sample ID: WG40195402 070212B    Seq:  11     12:22:22 02 Jul 12   HG
                          PBW R5
Hg   -.053    ppb       .000     -.053

*** Sample ID: WG40195403 070212B    Seq:  12     12:24:38 02 Jul 12   HG
                         LCSW R5
Hg    4.29    ppb       .000      4.29
```

Approved: July 02, 2012

Pierce Morris

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Sample ID: WG40190401 070212B    Seq:  13     12:26:34 02 Jul 12   HG
                          FBLK
Hg   -.016    ppb       .000     -.016

*** Sample ID: WG40190402 070212B    Seq:  14     12:28:12 02 Jul 12   HG
                          FBLK
Hg   -.028    ppb       .000     -.028

*** Sample ID: 1206078501 070212B    Seq:  15     12:30:20 02 Jul 12   HG
                          WG40195401
Hg   -.002    ppb       .000     -.002

*** Sample ID: WG40195404 070212B    Seq:  16     12:32:01 02 Jul 12   HG
                          1206078501S
Hg    4.16    ppb       .000      4.16

*** Sample ID: WG40195405 070212B    Seq:  17     12:33:40 02 Jul 12   HG
                          1206078501SD
Hg    4.22    ppb       .000      4.22

*** Sample ID: 1206079701 070212B    Seq:  18     12:35:27 02 Jul 12   HG

Hg   -.070    ppb       .000     -.070

*** Sample ID: WG40216001 070212B    Seq:  19     12:37:05 02 Jul 12   HG
                          1206079701PS.9
Hg    .880    ppb       .000      .880

*** Sample ID: 1206079801 070212B    Seq:  20     12:38:42 02 Jul 12   HG

Hg   -.061    ppb       .000     -.061

*** Check Standard: 4  Ck4CCV       Seq:  21      12:40:24 02 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          97.2     1.94    2.00   ppb        .000

*** Check Standard: 5  Ck5CCB       Seq:  22      12:42:23 02 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg         -47.3    -.095    .200   ppb        .000

*** Sample ID: 1206080201 070212B    Seq:  23     12:44:11 02 Jul 12   HG

Hg   -.069    ppb       .000     -.069

*** Sample ID: 1206081838 070212B    Seq:  24     12:45:49 02 Jul 12   HG

Hg   -.028    ppb       .000     -.028
```

Approved: July 02, 2012

Pierce Morris

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: 1206083701 070212B Seq: 25 12:47:25 02 Jul 12 HG

Hg .001 ppb .000 .001

*** Sample ID: 1206083702 070212B Seq: 26 12:49:03 02 Jul 12 HG

Hg -.006 ppb .000 -.006

*** Sample ID: 1206083703 070212B Seq: 27 12:51:09 02 Jul 12 HG

Hg -.001 ppb .000 -.001

*** Sample ID: 1206083704 070212B Seq: 28 12:52:47 02 Jul 12 HG

Hg -.020 ppb .000 -.020

*** Sample ID: 1206083705 070212B Seq: 29 12:55:00 02 Jul 12 HG

Hg -.041 ppb .000 -.041

*** Sample ID: 1206083706 070212B Seq: 30 12:56:39 02 Jul 12 HG

Hg -.054 ppb .000 -.054

*** Sample ID: 1206084201 070212B Seq: 31 12:58:16 02 Jul 12 HG

Hg -.062 ppb .000 -.062

*** Sample ID: 1206084301 070212B Seq: 32 12:59:55 02 Jul 12 HG

Hg -.081 ppb .000 -.081

*** Check Standard: 4 Ck4CCV Seq: 33 13:01:43 02 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		96.2	1.92	2.00	ppb	.000

*** Check Standard: 5 Ck5CCB Seq: 34 13:04:11 02 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		-37.5	-.075	.200	ppb	.000

*** Sample ID: 1206084302 070212B Seq: 35 13:05:58 02 Jul 12 HG

Hg .011 ppb .000 .011

*** Check Standard: 4 Ck4CCV Seq: 36 13:07:49 02 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		97.7	1.95	2.00	ppb	.000

Approved: July 02, 2012
Pierce Morris

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 5 Ck5CCB Seq: 37 13:09:37 02 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		-27.4	-.055	.200	ppb	.000

*** Sample ID: WG40190903 070212B Seq: 38 13:11:16 02 Jul 12 HG
PBS 9P

Hg	.003	ppb	.000	.003		

*** Sample ID: WG40190904 070212B Seq: 39 13:13:08 02 Jul 12 HG
LCSS 9P

Hg	3.79	ppb	.000	3.79		

*** Sample ID: 1206074001 070212B Seq: 40 13:14:46 02 Jul 12 HG

Hg	.025	ppb	.000	.025		

*** Sample ID: 1206074002 070212B Seq: 41 13:16:23 02 Jul 12 HG

Hg	-.076	ppb	.000	-.076		

*** Sample ID: 1206074003 070212B Seq: 42 13:18:20 02 Jul 12 HG

Hg	-.087	ppb	.000	-.087		

*** Sample ID: WG40194701 070212B Seq: 43 13:20:11 02 Jul 12 HG
1206074003PS.9

Hg	1.06	ppb	.000	1.06		

*** Sample ID: 1206074004 070212B Seq: 44 13:22:01 02 Jul 12 HG
WG40190901

Hg	.087	ppb	.000	.087		

*** Sample ID: WG40190905 070212B Seq: 45 13:23:39 02 Jul 12 HG
1206074005S

Hg	4.16	ppb	.000	4.16		

*** Sample ID: WG40190906 070212B Seq: 46 13:25:37 02 Jul 12 HG
1206074006SD

Hg	4.14	ppb	.000	4.14		

*** Sample ID: 1206077801 070212B Seq: 47 13:27:18 02 Jul 12 HG

Hg	.104	ppb	.000	.104		

*** Check Standard: 4 Ck4CCV Seq: 48 13:28:55 02 Jul 12 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		94.7	1.89	2.00	ppb	.000

Approved: July 02, 2012
Pierce Morris

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Check Standard: 5  Ck5CCB       Seq:  49      13:30:52 02 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          -23.3    -.047    .200   ppb        .000

*** Sample ID: 1206077802 070212B    Seq:  50     13:32:30 02 Jul 12   HG

Hg   -.116    ppb       .000     -.116

*** Sample ID: 1206077803 070212B    Seq:  51     13:34:10 02 Jul 12   HG

Hg   -.072    ppb       .000     -.072

*** Sample ID: 1206077804 070212B    Seq:  52     13:36:17 02 Jul 12   HG

Hg   -.070    ppb       .000     -.070

*** Sample ID: 1206077805 070212B    Seq:  53     13:38:07 02 Jul 12   HG
                        WG40190902
Hg   -.067    ppb       .000     -.067

*** Sample ID: WG40190907 070212B    Seq:  54     13:40:07 02 Jul 12   HG
                        1206077806S
Hg    4.23    ppb       .000      4.23

*** Sample ID: WG40190908 070212B    Seq:  55     13:41:55 02 Jul 12   HG
                        1206077807SD
Hg    4.30    ppb       .000      4.30

*** Sample ID: 1206077808 070212B    Seq:  56     13:44:06 02 Jul 12   HG

Hg   -.030    ppb       .000     -.030

*** Sample ID: 1206077810 070212B    Seq:  57     13:45:50 02 Jul 12   HG

Hg   -.037    ppb       .000     -.037

*** Sample ID: 1206079301 070212B    Seq:  58     13:47:49 02 Jul 12   HG

Hg   -.048    ppb       .000     -.048

*** Sample ID: 1206079302 070212B    Seq:  59     13:49:30 02 Jul 12   HG

Hg   -.038    ppb       .000     -.038

*** Check Standard: 4  Ck4CCV       Seq:  60      13:51:30 02 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          94.5     1.89    2.00   ppb        .000
```

Approved: July 02, 2012

Pierce Morris

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Check Standard: 5  Ck5CCB       Seq:  61      13:53:11 02 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg         -40.7    -.081    .200   ppb        .000

*** Sample ID: 1206081736 070212B    Seq:  62     13:54:52 02 Jul 12   HG

Hg   -.042    ppb       .000     -.042

*** Sample ID: 1206081737 070212B    Seq:  63     13:57:02 02 Jul 12   HG

Hg   -.038    ppb       .000     -.038

*** Sample ID: 1206088901 070212B    Seq:  64     13:58:50 02 Jul 12   HG

Hg    .005    ppb       .000      .005

*** Sample ID: 1206088902 070212B    Seq:  65     14:00:27 02 Jul 12   HG

Hg    .002    ppb       .000      .002

*** Check Standard: 4  Ck4CCV       Seq:  66      14:02:06 02 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          98.9     1.98    2.00   ppb        .000

*** Check Standard: 5  Ck5CCB       Seq:  67      14:03:43 02 Jul 12   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg         -35.2    -.070    .200   ppb        .000
```

Approved: July 02, 2012

Pierce Morris

3.0 Attachments

Microbac Laboratories Inc.
Ohio Valley Division Analyst List
July 6, 2012

ADC – ANTHONY D. CANTER	AGK – ANDREW G. KASICK	AJF – AMANDA J. FICKIESEN
ALB – ANNIE L. BROWN	ALV – AMY L. VALENTINE	AML – TONY M. LONG
AZH – AFTER HOURS	BLG – BRENDA L. GREENWALT	BRG – BRENDA R. GREGORY
CAA – CASSIE A. AUGENSTEIN	CAF – CHERYL A. FLOWERS	CEB – CHAD E. BARNES
CLC – CHRYS L. CRAWFORD	CLS – CARA L. STRICKLER	CLW – CHARISSA L. WINTERS
CPD – CHAD P. DAVIS	CS – CODY M. STRAHLER	CSH – CHRIS S. HILL
DDE – DEBRA D. ELLIOTT	DEV – DAVID E. VANDENBERG	DGB – DOUGLAS G. BUTCHER
DIH – DEANNA I. HESSON	DLB – DAVID L. BUMGARNER	DLP – DOROTHY L. PAYNE
DLR – DIANNA L. RAUCH	DSM – DAVID S. MOSSOR	ECL – ERIC C. LAWSON
EDL – ERIN D. LONG	ERP – ERIN R. PORTER	FJB – FRANCES J. BOLDEN
HAV – HEMA VILASAGAR	HJR – HOLLY J. REED	JAL – JOHN A. LENT
JBK – JEREMY B. KINNEY	JDH – JUSTIN D. HESSON	JKS – JANE K. SCHAAD
JLL – JOHN L. LENT	JWR – JOHN W. RICHARDS	JWS – JACK W. SHEAVES
JYH – JI Y. HU	KEB – KATIE E. BARNES	KHR – KIM H. RHODES
KRA – KATHY R. ALBERTSON	LKN – LINDA K. NEDEFF	LSB – LESLIE S. BUCINA
MDA – MIKE D. ALBERTSON	MDC – MIKE D. COCHRAN	MES – MARY E. SCHILLING
MMB – MAREN M. BEERY	MRT – MICHELLE R. TAYLOR	MSW – MATT S. WILSON
PDM – PIERCE D. MORRIS	PWD – PAUL W. DENT	QX – QIN XU
RAH – ROY A. HALSTEAD	REK – BOB E. KYER	RLB – BOB BUCHANAN
RLK – ROBIN L. KLINGER	RS – ROSEMARY SCOTT	RWC – RODNEY W. CAMPBELL
SJP – SUZANNE J. PAUGH	SLM – STEPHANIE L. MOSSBURG	SLP – SHERI L. PFALZGRAF
TIP – TAE I. PARRISH	TMB – TIFFANY M. BAILEY	TMM – TAMMY M. MORRIS
VC – VICKI COLLIER	WJB – WILL J. BEASLEY	WTD – WADE T. DELONG
XXX – UNAVAILABLE OR SUBCONTRACT		

Microbac Laboratories Inc.
List of Valid Qualifiers
July 06, 2012

Qualkey: WATERLOO

Qualifier	Description
*	Surrogate or spike compound out of range
+	Correlation coefficient for the MSA is less than 0.995
<	Result is less than the associated numerical value.
>	Result is greater than the associated numerical value.
A	See the report narrative
B	Analyte detected in the method blank
B1	Target analyte detected in method blank at or above the method reporting limit
B3	Target analyte detected in calibration blank at or above the method reporting limit
B4	The BOD unseeded dilution water blank exceeded 0.2 mg/L
C	Confirmed by GC/MS
CG	Confluent growth
DL	Surrogate or spike compound was diluted out
E	Estimated concentration due to interference.
E	Semiquantitative result (out of calibration range)
EDL	Elevated sample reporting limits, presence of non-target analytes
EMPC	Estimated Maximum Possible Concentration
F, S	Estimated result below quantitation limit; method of standard additions(MSA)
FL	Free Liquid
H1	Sample analysis performed past holding time.
I	Semiquantitative result (out of instrument calibration range)
J	Estimated concentration.
J	The analyte was positively identified, but the quantitation was below the RL.
J,B	Analyte detected in both the method blank and sample above the MDL.
J,P	Estimate; columns don't agree to within 40%
J,S	Estimated concentration; analyzed by method of standard addition (MSA)
L	Sample reporting limits elevated due to matrix interference
L1	The associated blank spike (LCS) recovery was above the laboratory acceptance limits.
L2	The associated blank spike (LCS) recovery was below the laboratory acceptance limits.
M	Matrix effect; the concentration is an estimate due to matrix effect.
N	Tentatively identified compound(TIC)
NA	Not applicable
ND	Not detected at or above the reporting limit (RL).
ND, L	Not detected; sample reporting limit (RL) elevated due to interference
ND, S	Not detected; analyzed by method of standard addition (MSA)
NF	Not found by library search
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentrations >40% difference between the two GC columns
Q	One or more quality control criteria failed. See narrative.
QNS	Quantity of sample not sufficient to perform analysis
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition (MSA)
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TIC	Library Search Compound
TNTC	Too numerous to count
U	Not detected at or above adjusted sample detection limit.
UJ	Undetected; the MDL and RL are estimated due to quality control discrepancies.
UJ	Undetected; the analyte was analyzed for, but not detected.
UQ	Undetected; the analyte was analyzed for, but not detected.
W	Post-digestion spike for furnace AA out of control limits
X	Exceeds regulatory limit
X, S	Exceeds regulatory limit; method of standard additions (MSA)
Z	Cannot be resolved from isomer - see below

COC No. A 30494

158 Starlite Drive
Marietta, OH 45750

Microbac

CHAIN-OF-CUSTODY RECORD

Phone: 740-373-4071
Fax: 740-373-4835

Company Name: CH2M HILL

Project Contact: Shane Lowe | Contact Phone #: 314-421-0313

Turn Around Requirements: 5D | Location: Dow Waterloo, NY

Project ID: Waterloo Design Sediment Inv. PN# 437940.01.FS

Sampler (print): Jeffrey Johnson | Signature:

Program: ☐ CWA ☐ RCRA ☐ DOD ☐ AFCEE ☐ Other

Sample I.D. No.	Comp	Grab	Date	Time	Matrix*	NUMBER OF CONTAINERS	Hold	TCLP (Pb, Hg, Cd, Cr)	TCLP (Pb)	TOTAL # (LAB USE)	ADDITIONAL REQUIREMENTS
NS01-062312	X		6/23/2012	0930	SED	1		X			
NS02-062212	X		6/22/2012	~~1445~~ 1447	SED	1		X			
GS01-062112	X		6/21/2012	1430	SED	1		X			
GS02-062112	X		6/21/2012	1800	SED	1		X			
GS03-062212	X		6/22/2012	1615	SED	1		X			
GS04-062212	X		6/22/2012	1745	SED	1		X			
DS01-062312	X		6/23/2012	0900	SED	1			X		

Relinquished by: (Signature)	Date	Time	R (S
Jeffrey Johnson	6/25/12	1600	
Relinquished by: (Signature)	Date	Time	R (S

Microbac OVD
Received: 06/26/2012 10:54
By: BOB BUCHANAN
221000026215
RF Buchanan

Date	Time	Received by: (Signature)

Remarks:

*Water (W), Soil (S), Solid Waste (SD), Unknown (X)

Page 1 of 1

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L12060837
Account: 2736
Project: 2736.072
Samples: 7
Due Date: 03-JUL-2012

Samplenum	Container ID	Products
L12060837-01	984972	TC-EX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	26-JUN-2012 16:30	RS		
2	PREP	W1	TCL	27-JUN-2012 07:39	RWC	AZH	
3	STORE	TCL	A2	28-JUN-2012 06:15	AZH	RWC	

Samplenum	Container ID	Products
L12060837-02	984973	TC-EX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	26-JUN-2012 16:30	RS		
2	PREP	W1	TCL	27-JUN-2012 07:39	RWC	AZH	
3	STORE	TCL	A2	28-JUN-2012 06:15	AZH	RWC	

Samplenum	Container ID	Products
L12060837-03	984974	TC-EX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	26-JUN-2012 16:30	RS		
2	PREP	W1	TCL	27-JUN-2012 07:39	RWC	AZH	
3	STORE	TCL	A2	28-JUN-2012 06:15	AZH	RWC	

Samplenum	Container ID	Products
L12060837-04	984975	TC-EX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	26-JUN-2012 16:30	RS		
2	PREP	W1	TCL	27-JUN-2012 07:39	RWC	AZH	
3	STORE	TCL	A2	28-JUN-2012 06:15	AZH	RWC	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L12060837
Account: 2736
Project: 2736.072
Samples: 7
Due Date: 03-JUL-2012

Samplenum	Container ID	Products
L12060837-05	984976	TC-EX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	26-JUN-2012 16:30	RS		
2	PREP	W1	TCL	27-JUN-2012 07:39	RWC	AZH	
3	STORE	TCL	A2	28-JUN-2012 06:15	AZH	RWC	

Samplenum	Container ID	Products
L12060837-06	984977	TC-EX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	26-JUN-2012 16:30	RS		
2	PREP	W1	TCL	27-JUN-2012 07:39	RWC	AZH	
3	STORE	TCL	A2	28-JUN-2012 06:15	AZH	RWC	

Samplenum	Container ID	Products
L12060837-07	984978	TC-EX

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	26-JUN-2012 16:30	RS		
2	PREP	W1	TCL	27-JUN-2012 07:39	RWC	AZH	
3	STORE	TCL	A2	28-JUN-2012 06:15	AZH	RWC	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

NELAP Addendum - March 4, 2011

Non-NELAP LIMS Product and Description

The following is a list of those tests that are not included in the Microbac – OVL NELAP Scope of Accreditation:

Heat of Combustion (BTU)
Total Halide by Bomb Combustion (TX)
Particle Sizing - 200 Mesh (PS200)
Sulfate (SO4) - 9038
Specific Gravity/Density (SPGRAV)
Total Residual Chlorine (CL-TRL)
Total Volatile Solids (all forms) (TVS)
Total Coliform Bacteria (all methods)
Fecal Coliform Bacteria (all methods)
Sulfite (SO3)
Thiodiglycol (TDG-LCMS)

NELAP Accreditation by Laboratory SOP

NONPOTABLE WATER

OVL HPLC02/HPLC-UV

Nitroglycerin
Nitroguanidine
Acetic acid
Butyric acid
Lactic acid
Propionic acid
Pyruvic acid

OVL KNITRO-C-WUV-VIS

Nitrocellulose

OVL MSS01/GC-MS

1,4-Phenylenediamine
1-Methylnaphthalene
1,4-Dioxane
Atrazine
Benzaldehyde
Biphenyl
Caprolactam
Hexamethylphosphoramide (HMPA)
Pentachlorobenzene
Pentachloroethane

NELAP Accreditation by Laboratory SOP

NONPOTABLE WATER

OVL MSV0I/GC-MS

1, 1, 2-Trichloro-1,2,2-trifluoroethane
1,3-Butadiene
Cyclohexane
Cyclohexanone
Dimethyl disulfide
Dimethylsulfide
Ethyl-t-butylether (ETBE)
Isoprene
Methylacetate
Methylcyclohexane
T-amylmethylether (TAME)
Tetrahydrofuran (THF)

OVL RSKOI/GC-FID

Isobutane
n-Butane
Propane
Propylene
Propyne

OVL HPLC07/HPLC-MS-MS

Hexamethylphosphoramide (XMPA-LCMS)

SOLID AND HAZARDOUS CHEMICALS

OVL HPLCOS-HPLC-UV

Nitroguanidine

OVL KNITRO-C-S/UV-VIS

Nitrocellulose

OVL MSS0I/GC-MS

1-Methylnaphthalene
Benzaldehyde
Biphenyl
Caprolactam
Pentachloroethane

NELAP Accreditation by Laboratory SOP

SOLID AND HAZARDOUS CHEMICALS

OVL MSV0I/GC-MS

1.3-Butadiene
Cyclohexane
Cyclohexanone
Dimethyl disulfide
Dimethylsulfide
Ethyl-t-butylether (ETBE)
lsoprene
Methylacetate
Methylcyclohexane
n-Hexane
T-amylmethylether (TAME)