U.S. Coast Guard

RCRA Facility Investigation Report
San Miguel Island Aid to Navigation Site
Santa Barbara Channel, California

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Technical Memorandum

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Executive Summary

The U.S. Coast Guard (USCG) is conducting a RCRA Facility Investigation (RFI) of the San Miguel Aid to Navigation (ATON) site, in the Channel Islands, off the coast of Santa Barbara, California. The ATON site is on a south-facing plateau, approximately 375 feet above sea level, near Crook Point. The ATON is no longer in use and all equipment has been removed, including the concrete pad. On November 13, 2002, soil samples were collected at the site by a field team consisting of personnel from the USCG, CDM, and the State of California Department of Toxic Substances Control (DTSC).

The objective of the RFI was to collect and analyze sufficient soil samples to characterize residual metal and metalloid soil contamination in the vicinity of the ATON on San Miguel Island. The results from this investigation will be used to:

- Determine island-specific natural background metal concentrations in soils
- Support estimation of exposure concentrations for use in the Human Health Risk Assessment (HHRA) and Ecological Risk Assessment (ERA) for any chemicals that exceed background concentrations, and
- Complete the habitat characterization, including further identification of plant communities and species of special concern, to support the ERA

Based on the analytical results, arsenic, cadmium, copper, lead, mercury, nickel, and zinc were detected in all samples, although some were estimated values. Both antimony and selenium were detected in 11 of 38 site-related samples. All antimony detections were estimated values, and five of the selenium detections were estimated values. The maximum concentrations of all chemicals occurred in either the eyebolt area, or towards the top of the main drainage.

B. Beatty (CDM), and I. Williams (NPS) performed the habitat characterization. In consultation among the field team, the site area was defined. Three primary plant communities were observed in the site area:

- Coastal sage scrub, with intermixed grassy areas, on the cliff near the eyebolt, and on the slope leading down to the alluvial fan
- Annual grasses, primarily on the alluvial fan, below the slope
- A small (i.e., 30 feet x 120 feet) flood pond area, near the beach

The field team specifically looked for threatened and endangered species. The island fox (*Urocyon littoralis*) was not observed during the November 2002 sit visit, but I. Williams, the park ranger for the island, stated that the fox ranges the whole island, and could occasionally visit the site area. The island paintbrush (*Castilleja hololeuca*) was observed in the site area during this site visit.

1.0 Introduction and RFI Objectives

The U.S. Coast Guard (USCG) is conducting a RCRA Facility Investigation (RFI) of the San Miguel Aid to Navigation (ATON) site, in the Channel Islands, off the coast of Santa Barbara, California. On November 13, 2002, soil samples were collected by a field team consisting of personnel from the USCG, CDM, and the State of California Department of Toxic Substances Control (DTSC). The purpose of this Technical Memorandum (TM) is to summarize the field activities, discuss any deviations from the Sampling and Analysis Plan (CDM 2002), summarize the results of sample analyses, and discuss findings and interpretations.

The objective of the RFI was to collect and analyze sufficient soil samples to characterize residual metal and metalloid soil contamination in the vicinity of the ATON on San Miguel Island. The results from this investigation will be used to:

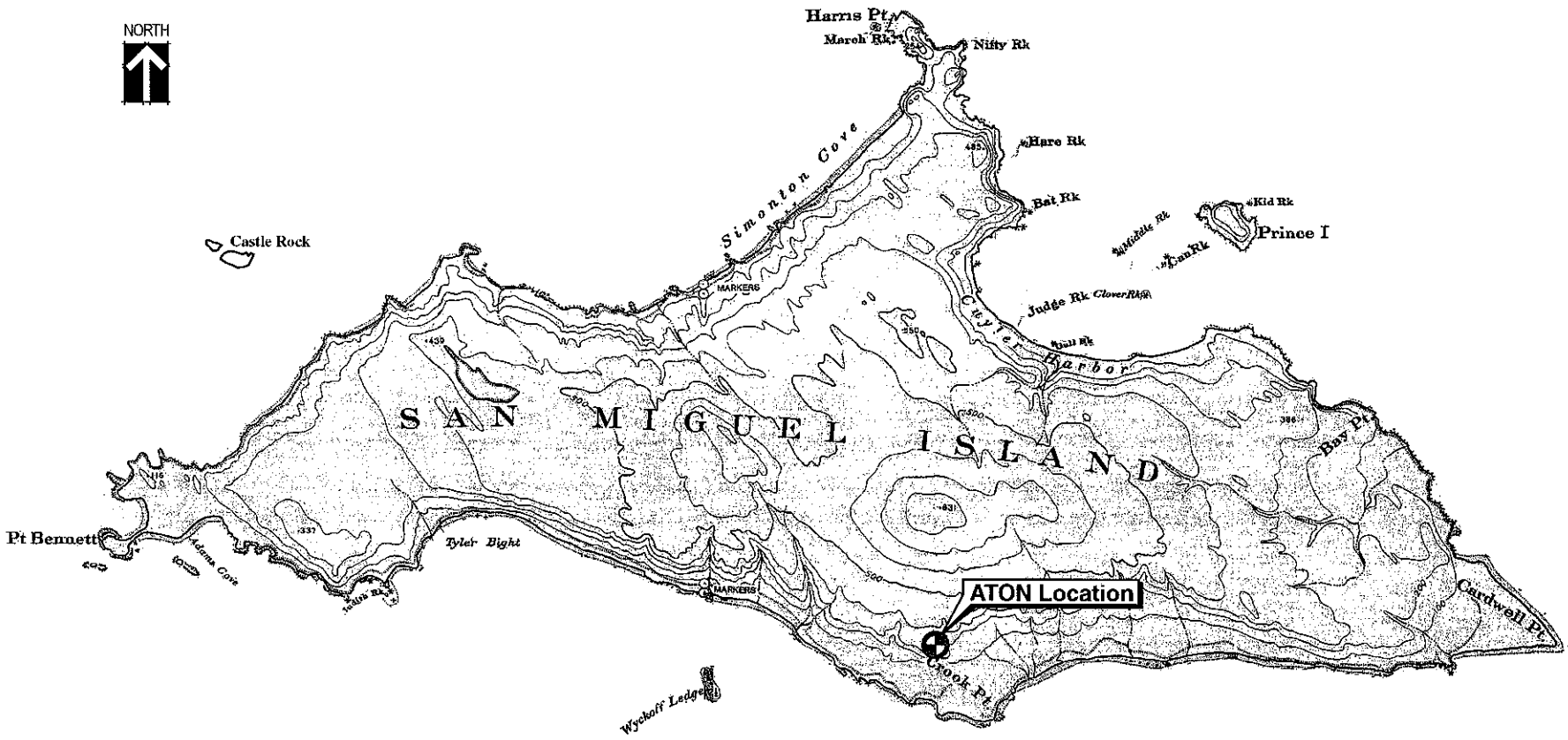
- Determine island-specific natural background metal concentrations in soils
- Support estimation of exposure concentrations for use in the Human Health Risk Assessment (HHRA) and Ecological Risk Assessment (ERA) for any chemicals that exceed background concentrations, and
- Complete the habitat characterization, including further identification of plant communities and species of special concern, to support the ERA

2.0 Site Location and Description

San Miguel Island is located in the Channel Islands, off the coast of southern California. The island is four miles wide, eight miles long, with a surface area of 9,325 acres.

The ATON site is on a south-facing plateau, approximately 375 feet above sea level, near Crook Point (Figure 2-1). The ATON is no longer in use and all equipment has been removed, including the concrete pad. The only indication of the site location is an eyebolt, approximately 18 inches tall. Approximate latitude and longitude for the site are latitude 3400 00 58.6 and longitude 120 22 01.3.

The vegetation in the vicinity of the ATON site on San Miguel Island can generally be described as Coastal Sage Scrub, dominated by half-woody shrubs. A large portion of the beach area directly downgradient of the ATON site supports both seabird rookeries (e.g., double crested cormorant), as well as sea lion and seal pupping areas. Soil in the vicinity of the former ATON is thin and friable, sandy in texture, with much exposed bedrock. A deeply incised arroyo to the east and southeast of the ATON leads to the beach area below. During the site visit, no evidence of erosional channels leading away from the ATON site in other directions was observed. An approximately 60-degree slope leads down to the beach from the ATON site. Beaches below are approximately 3/4 mile from the site and support sea mammal pupping areas in the spring. Photos taken during the November 2002 sampling effort are provided in Appendix A.



Source: National Oceanic and Atmospheric Administration
Nautical Chart Catalog No. 2, Panel Q, #18727, 11th Ed., Nov. 1992

Figure 2-1
Location of Aid to Navigation (ATON) on San Miguel Island

3.0 San Miguel ATON RFI Sampling

Surficial soil sampling was conducted on San Miguel Island on November 13, 2002 by the USCG, CDM, and DTSC. This section discusses the rational for selection of sample locations, the sampling methodologies, deviations from the sampling plan, and Quality Assurance/Quality Control (QA/QC) of sample results.

3.1 Sampling Rationale

Based on the Conceptual Site Model (CSM) developed for this site (CDM 2001), the source of potential contamination at the site was spent batteries previously abandoned onsite. Although a large amount of battery debris has been removed (i.e., 2100 pounds), scattered pieces of battery debris were observed on the slope (see photos), and the potential for residual chemicals in site soils exists. This contamination could be present in the immediate vicinity of the former ATON, or may have migrated down the adjacent erosional channel during storm events. It was therefore decided to characterize metal concentrations in surface soils in the immediate vicinity of the former ATON, downgradient of the site along probable erosional channels, and on the beach area located approximately ¾ mile below the cliff near the former ATON site. Details regarding proposed sampling locations and field methodologies are documented in the *Final RCRA Facility Investigation Workplan/Sampling and Analysis Plan, San Miguel Island Aid to Navigation* (Workplan) (CDM 2002). Actual sample locations selected in the field were determined through onsite observations and in-field consensus between the USCG and DTSC. A total of six background soil samples (five samples and one duplicate), 26 primary soil samples (including four duplicate samples), and 12 additional discretionary samples selected by DTSC, were collected, for an overall total of 44 soil samples. Sample locations are illustrated on Figure 3-1.

Review of site photos, coupled with onsite observations and in-field consensus between the USCG and DTSC, were used to select the location for collection of site-specific background soil samples. Background samples were collected from a nearby drainage that would not have been impacted by either water or wind erosion from the ATON site. This location was the first erosional channel located approximately 500 feet to the west of the former ATON site. A total of 6 background samples were collected, including one duplicate sample. Background samples were collected at the same depth as other samples, and analyzed for the same chemicals.

3.2 Sampling Methods

The day before the trip to the island, the field team met to review procedures to be used in the field, to review the use and reading of GPS units, and to review the health and safety plan.

Upon arrival at the site via helicopter, the health and safety plan was reviewed again, and the field team split up into two groups:

- **Group 1** – B. Beatty (CDM) and I. Williams (NPS) initiated a site survey to characterize habitats at the site and in potentially affected downgradient locations.

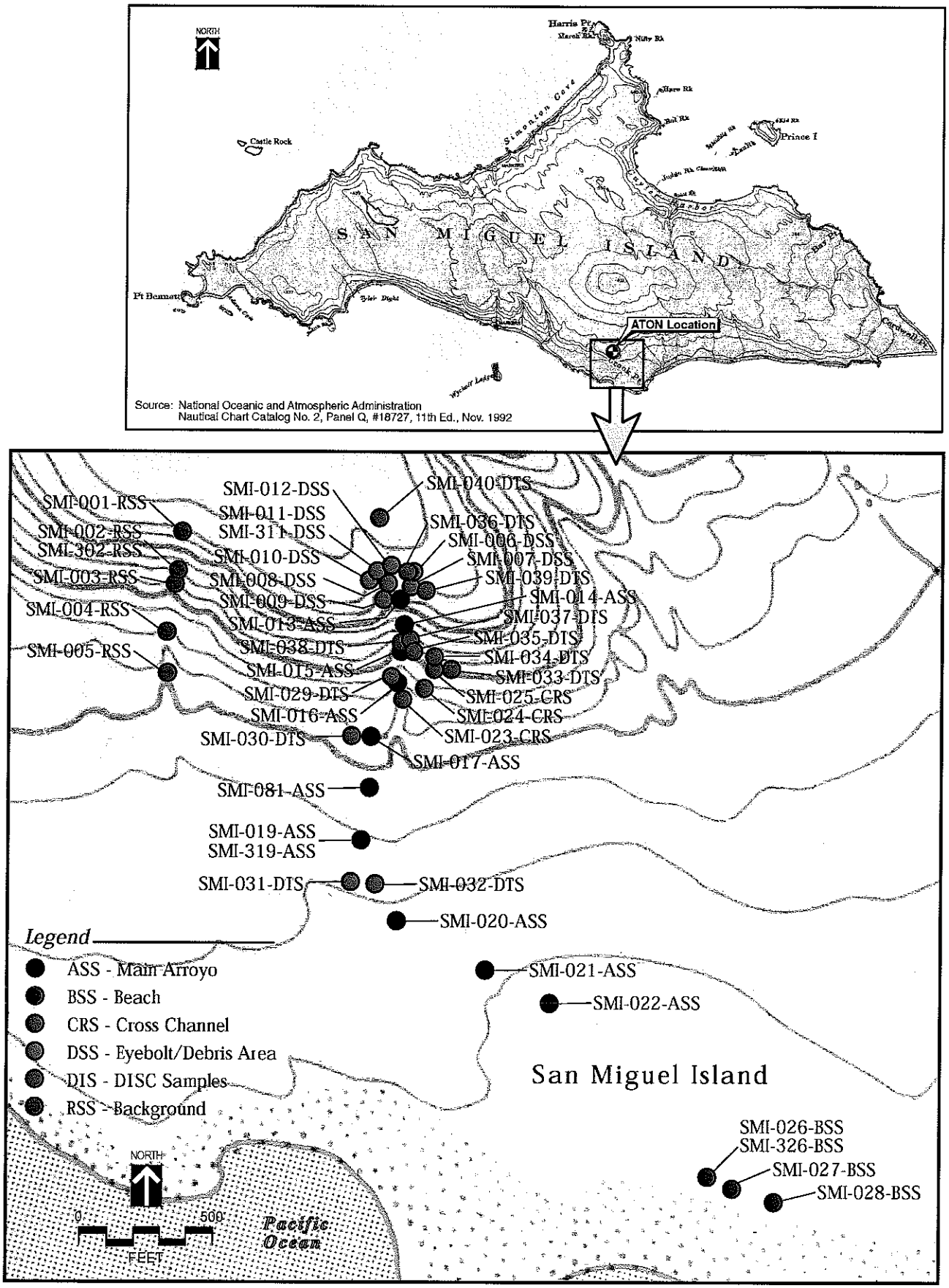


Figure 3-1
Sample Location Map
November 2002 Field Activities
San Miguel Island Aid To Navigation

CDM

- **Group 2** – J. Sabel and M. Braden (USCG), D. Lange (CDM), and C. Bucklin (DTSC). After discussions between the USCG and DTSC, the locations for background sample collections were selected. All four members participated in background soil sample collection to ensure consistency in sample collection and labeling methods.

After the collection of background soil samples, Group 2 proceeded to the eyebolt area. At this point, Group 2 split into two teams:

- **Group 2** – J. Sabel and C. Bucklin proceeded to mark sample locations with flagging as specified in the sampling plan (i.e., near the eyebolt, in radii extending from the eyebolt, down the primary arroyo drainage, within the cross drainage, and on the beach). This allowed discussion between the USCG and DTSC regarding the placement of sample locations, and also regarding the placement of discretionary samples selected by DTSC. While Group 3 collected most of the soil samples, group 2 collected the samples on the beach, due to time constraints.

- **Group 3** – D. Lange and M. Braden followed behind Group 2 to collect and label soil samples.

In general, soil samples were collected in accordance with CDM Standard Operating Procedure (SOP) 1-3, Surface Soil Sampling, with modification as described in the Workplan (CDM 2002). Surface soil samples were collected at two to six inches using disposable plastic trowels, and placed into plastic bags rather than glass jars. A new trowel was used for each location homogenization was accomplished by thoroughly shaking the plastic bags. Samples were double bagged, and sample labels placed directly on the outside bag. Specific details regarding sample collection are provided in the Workplan.

3.3 Deviations from the Sampling Plan

Some procedures that were specified in the Workplan were not conducted in the field for various reasons. Field notes are provided with this report as Appendix B, and deviations from the sampling plan are discussed below.

3.3.1 Time of Departure

The original time of departure on November 13 was planned for one hour before sunrise to ensure maximum daylight for sample collection. However, the helicopter experienced mechanical problems and arrived late. As a result, the helicopter departed at 1005 and arrived at San Miguel Island at 1020.

3.3.2 Number of Samples

The number of samples proposed in the Workplan is shown in Table 3-1.

Table 3-1 Proposed Soil Sampling Locations and Number of Samples			
Sampling Area	**Primary Samples**	**Field Duplicates**	**DTSC Samples**
ATON area and radii	10	1	4
Erosion channel from ATON to beach	7	1	6
Cross Channel	5	0	0
Beach area	3	1	1
Background	5	1	1
Total Samples	30	4	12

No rinsate blanks were proposed for collection, since new trowels were used at each sample location, and no field decontamination of sampling equipment occurred.

Based on field conditions (i.e., topography, visual observations), and discussions between the USCG and DTSC, the numbers of primary samples were modified as shown in Table 3-2a:

Table 3-2a Modified Soil Sampling Locations and Number of Samples			
Sampling Area	**Sample Identification**	**Primary Samples**	**Field Duplicates**
ATON area and radii	Samples 006-DSS through 012-DSS, and 311-DSS as the duplicate	7	1
Erosion channel from ATON to beach	Samples 013-ASS through 022-ASS, and 319-ASS as the duplicate	10	1
Cross channel	Samples 023–CRS through 025-CRS	3	0
Beach area	Samples 026-BSS through 028-BSS, and 326-BSS as the duplicate	3	1
Background	Samples 001-RSS through 005-RSS, and 302-RSS as the duplicate	5	1
Total samples		28	4

While sufficient hand trowels were available for sampling, at locations SMI-026-BSS and SMI-028-BSS soils were particularly loose and were collected without a trowel by inverting the bag over the field sampler's hand and grasping loose soil to a depth of six inches. After extracting the sample the bag was reverted and sealed.

Based on field conditions (i.e., topography, visual observations), and discussions between the USCG and DTSC, the numbers of DTSC Discretionary samples were modified as shown in Table 3-2b:

Table 3-2b Discretionary DTSC Soil Samples Locations and Number of Samples	
Sampling Area	**Sample Identification**
30 feet west of main drainage	029-DTS
100 feet west of main drainage, near edge of another small drainage	030-DTS
Western edge of alluvial fan	031-DTS
Open, grassy area in main drainage, near the toe of the alluvial fan	032-DTS
In big canyon at base of bare rocks	033-DTS
Approximately 100 feet above 025-CRS in a subtle drainage	034-DTS
On the slope, directly below a piece of battery casing	035-DTS
Eyebolt area	036-DTS
Most of the way up the slope, 50 feet east of the main drainage	037-DTS
About 100 feet below the top of the slope, 75 feet east of the main drainage	038-DTS
Approximately 60 feet east of the eyebolt, at the edge of a big canyon	039-DTS
At the top of the slope, about 100 feet north of the eyebolt	040-DTS
Total Number of Samples:	12

The following samples were collected without a trowel by directly scooping the soil into the sample bag: SMI-033, 034, 035, 037, 038, and 039-DTS.

Upon return to the mainland, the field team worked to ensure that all bags were sealed, sample tags were complete, and Chain of Custody records were complete. Samples were delivered, under custody, by D. Lange, to Applied Physics and Chemistry Laboratory on November 14, 2002. Copies of field notes are provided with this report as Appendix B.

3.4 Quality Assurance/Quality Control Assessment

All samples collected on November 13, 2003 were received intact, at 21.3 degrees Celsius and with complete chain of custody documentation. The samples were extracted, digested and analyzed within established EPA holding times. Samples were analyzed using EPA methods 6010B/7471A. Duplicate, background and field blank samples were collected as QA/QC measures as outlined in the Work Plan (CDM, 2002).

no ice?

Two field blank (FB) samples were collected to ensure that sample container baggies and plastic trowels used to collect the soil samples were not sources of metals. Pursell's STAGreen potting soil was used to collect the sample. Analytical results contained high concentrations of metals. It is believed that the results characterized the composition of the potting soil and failed to quantify potential contamination due to equipment use and, therefore, FB data was omitted from this report.

Four duplicate samples were collected at the background, debris, arroyo and beach locations as outlined in the WP. The analytical results for mercury were outside the acceptable relative percent difference (RPF) of 30% for soils in the three samples and associated duplicates collected from the non-background locations. Debris sample SMI-011-DSS and its duplicate were also above acceptable precision goals for cadmium.

Matrix spike/matrix spike duplicate (MS/MSD) analyses were performed by Applied P&CH Laboratory and percent recoveries for all samples fell within acceptable QA/QC limits except sample SMI-014-ASS results for zinc. All laboratory control spike/laboratory control spike duplicate sample recoveries met QA/QC limits. Detected values below the Practical Quantitation Limit were flagged with a "J" qualifier.

4.0 Site Characterization

This section presents the results of both the soil sample analyses and the habitat characterization.

4.1 Data Summary

This section presents the analytical results for the soil samples collected at the San Miguel ATON site on November 13, 2002. The surface soil data results are discussed below, by chemical, and are shown on Table 4-1. Laboratory analytical reports are presented in Appendix C.

4.1.1 Antimony

Antimony was detected in 11 of 38 samples, with detected concentrations ranging from 0.15 mg/kg to 0.41 mg/kg. The maximum detected value was from sample SMI-311-DSS (the duplicate for sample 211-DSS [which was below the detection limit]), located in the eyebolt area. All detections were estimated values. The maximum detected background concentration was 0.19 mg/kg (an estimated value below the reporting limit). Of the concentrations above the reporting limit, six were greater than the maximum background concentration. It should also be noted that the maximum background value was below the laboratory reporting limit.

4.1.2 Arsenic

Arsenic was detected in all samples, in concentrations ranging from 1.4 mg/kg to 10.5 mg/kg. The maximum concentration was from sample SMI-012-DSS, located in the eyebolt area. The maximum background concentration was 2.5 mg/kg. Of the detected concentrations, 18 were greater than the maximum background concentration.

4.1.3 Cadmium

Cadmium was detected in all of the samples, in concentrations ranging from 0.032 mg/kg to 0.6 mg/kg. Two detections were estimated values. The maximum detected value was from sample SMI-012-DSS, located in the eyebolt area. The maximum background concentration was 0.13 mg/kg (an estimated value). Of the detected concentrations, 12 were greater than the maximum background concentration.

4.1.4 Copper

Copper was detected in all of the samples, in concentrations ranging from 0.24 mg/kg to 25.9 mg/kg. Two detections were estimated values. The maximum concentration was from SMI-039-DTS, a DTSC discretionary sample, located approximately 60 feet

Table 4-1
Soil Sample Analytical Results
San Miguel Island ATON Investigation, November 2002

Chemicals Evaluated (mg/kg)	Antimony		Arsenic		Cadmium		Copper		Lead		Mercury		Nickel		Selenium		Zinc	
Mean Background	0.93		2.17		0.12		2.70		2.28		0.02		3.95		0.40		11.48	
Standard Deviation for Background	0.37		0.34		0.02		1.03		0.75		0.01		1.09		0.15		3.88	
Maximum Background	1.1 ~~0.19~~	J	2.5		0.13	J	3.7		3.2		0.030	J	5		0.55 ~~0.28~~	J	16.2	
Sample ID																		
BACKGROUND (West Drainage Area)																		
SMI-001-RSS	1.1	U	2		0.13	J	1.8		2.2		0.03	J	3		0.53	U	7.5	
SMI-002-RSS	1.1	U	2.4		0.13	J	3.3		2.6		0.024	J	4.9		0.28	J	13.4	
SMI-302-RSS(duplicate)	1.1	U	2.5		0.12	J	3.4		2.6		0.029	J	5		0.27	J	13.4	
SMI-003-RSS	0.19	J	1.8		0.12	J	2.9		2.1		0.019	J	4		0.23	J	12.3	
SMI-004-RSS	1.1	U	1.8		0.088	J	3.7		3.2		0.017	J	4.5		0.55	U	16.2	
SMI-005-RSS	1	U	2.5		0.12	J	1.1		0.98		0.015	J	2.3		0.52	U	6.1	
EYEBOLT DEBRIS AREA																		
SMI-006-DSS	0.17	J	5.7		0.12	J	7.3		7.3		0.032	J	14.3		0.32	J	29.7	
SMI-007-DSS	1	U	2.5		0.044	J	5.8		4.5		0.029	J	7.6		0.66		41.1	
SMI-008-DSS	1.1	U	5.9		0.14	J	11.5		7.7		0.024	J	13.6		1.2		42	
SMI-009-DSS	1.1	U	6.1		0.12	J	11.3		9.6		0.039	J	15.9		0.56	U	44.3	
SMI-010-DSS	1.1	U	3.5		0.057	J	7.2		6.6		0.027	J	9.3		0.57	U	35.4	
SMI-011-DSS	1.1	U	6.2		0.041	J	9.5		7.4		0.044	J	13.6		0.68		37.6	
SMI-311-DSS	0.41	J	5.9		0.086	J	10.5		7.8		0.03	J	14.5		0.57		41.5	
SMI-012-DSS	0.22	J	10.5		0.6		23.2		11.2		0.052	J	32.2		2.2		72.9	

Table 4-1
Soil Sample Analytical Results
San Miguel Island ATON Investigation, November 2002

Chemicals Evaluated (mg/kg)	Antimony		Arsenic		Cadmium		Copper		Lead		Mercury		Nickel		Selenium		Zinc	
MAIN DRAINAGE AREA																		
SMI-013-ASS	1.1	U	4.8		0.1	J	9.7		6.5		0.047	J	12.6		0.54	U	47.4	
SMI-014-ASS	1.1	U	3.4		0.16	J	5.4		3.7		0.098		8.5		0.68		109	
SMI-015-ASS	1.1	U	4.2		0.095	J	7.7		5.2		0.082	J	10.4		0.54	U	98.2	
SMI-016-ASS	1.1	U	6.4		0.17	J	11.2		8.9		0.076	J	15.8		0.57	U	88.4	
SMI-017-ASS	1.1	U	2.2		0.13	J	1.8		1.6		0.03	J	3.2		0.53	U	25.6	
SMI-018-ASS	1.1	U	1.8		0.13	J	1.4		1.4		0.023	J	2.8		0.53	U	7.6	
SMI-019-ASS	1.1	U	2		0.13	J	1.9		2.1		0.041	J	3		0.53	U	10.1	
SMI-319-ASS	0.21	J	2		0.12	J	1.8		2		0.027	J	2.4		0.52	U	9.6	
SMI-020-ASS	1.1	U	1.9		0.12	J	1.3		1.2		0.032	J	2.2		0.53	U	8.8	
SMI-021-ASS	0.16	J	2		0.14	J	1.9		1.8		0.022	J	2.4		0.53	U	10.8	
SMI-022-ASS	0.15	J	2.2		0.12	J	1.3		1.7		0.023	J	2.4		0.52	U	22.3	
CROSS CHANNEL AREA																		
SMI-023-CRS	0.25	J	1.6		0.12	J	0.83		0.93		0.018	J	1.6		0.52	U	5.4	
SMI-024-CRS	1.0	U	1.8		0.13	J	1.2		1		0.039	J	2.7		0.52	U	6.7	
SMI-025-CRS	0.19	J	2.3		0.11	J	1.2		1		0.033	J	2.7		0.52	U	7.7	
BEACH AREA																		
SMI-026-BSS	1.0	U	1.4		0.048	J	0.24	J	0.26	J	0.024	J	0.73		0.51	U	3.1	
SMI-326-BSS	1.0	U	1.6		0.045	J	0.25	J	0.28	J	0.012	J	0.75		0.51	U	2.9	
SMI-027-BSS	0.3	J	2		0.044	J	0.53		0.41		0.033	J	1.3		0.52	U	3.6	
SMI-028-BSS	0.22	J	1.4		0.048	J	0.71		0.34		0.022	J	0.77		0.52	U	2.9	

Table 4-1
Soil Sample Analytical Results
San Miguel Island ATON Investigation, November 2002

Chemicals Evaluated (mg/kg)	Antimony		Arsenic		Cadmium		Copper		Lead		Mercury		Nickel		Selenium		Zinc	
DTSC DISCRETIONARY SAMPLES																		
SMI-029-DTS	1.1	U	3.5		0.17	J	6		5.1		0.038	J	8.2		0.53	U	32.2	
SMI-030-DTS	1.1	U	2.5		0.08	J	4		2.5		0.018	J	4.3		0.15	J	13.9	
SMI-031-DTS	1.1	U	2.2		0.13	J	2.8		3.5		0.042	J	3.4		0.53	U	25.5	
SMI-032-DTS	1.1	U	1.8		0.16	J	1.8		2		0.025	J	2.8		0.53	U	9.6	
SMI-033-DTS	1.0	U	1.9		0.13	J	1.2		1.1		0.013	J	2.8		0.52	U	7.3	
SMI-034-DTS	1.0	U	2		0.2	J	3.1		3.2		0.035	J	4.2		0.4	J	17.1	
SMI-035-DTS	1.1	U	2.6		0.14	J	4.4		4.4		0.024	J	5.7		0.53	U	85.6	
SMI-036-DTS	1.1	U	8.5		0.088	J	10.2		11		0.041	J	23.5		0.57	U	45.8	
SMI-037-DTS	1.0	U	3.3		0.2	J	3.6		3.7		0.021	J	11		0.52	U	27.5	
SMI-038-DTS	1.0	U	5.5		0.14	J	10.7		8.6		0.023	J	13.6		0.35	J	66.1	
SMI-039-DTS	0.19	J	8.2		0.45		25.9		15.7		0.058	J	18		0.57	U	67.1	
SMI-040-DTS	1.1	U	8		0.032	J	14.2		10.6		0.033	J	20.5		0.23	J	41.9	

Notes: J- estimated value; U - below reporting limit

east of the eyebolt area, at the edge of the large canyon. The maximum background concentration was 3.7 mg/kg. Of the detected concentrations, 19 were greater than the maximum background concentration.

4.1.5 Lead

Lead was detected in all of the samples , in concentrations ranging from 0.26 mg/kg to 15.7 mg/kg. Two detections were estimated values. The maximum concentration was in sample SMI-039-DTS, a DTSC discretionary sample, located approximately 60 feet east of the eyebolt area, at the edge of the large canyon. The maximum background concentration was 3.2 mg/kg. Of the detected concentrations, 20 were greater than the maximum background concentration.

4.1.6 Mercury

Mercury was detected in all of the samples collected, in concentrations ranging from 0.012 mg/kg to 0.098 mg/kg. All detections except two were estimated values. The maximum concentration was in sample SMI-014-ASS, towards the top of the main drainage. The maximum background concentration was 0.030 mg/kg (an estimated value). Of the detected concentrations, 19 were greater than the maximum background concentration.

4.1.7 Nickel

Nickel was detected in all of the samples, in concentrations ranging from 0.73 mg/kg to 32.2 mg/kg. The maximum concentration was in sample SMI-012-DSS, located in the eyebolt area. The maximum background concentration was 5 mg/kg. Of the detected concentrations, 19 were greater than the maximum background concentration.

4.1.8 Selenium

Selenium was detected in 14 of 44 samples, in concentrations ranging from 0.15 mg/kg to 2.2 mg/kg. The maximum detected concentration was from sample SMI-012-DSS, located in the eyebolt area. Eight of the detections were estimated values. The maximum background concentration was 0.28 mg/kg (an estimated value below the reporting limit). Of the detected concentrations, nine were greater than the maximum background concentration. It should also be noted that the maximum background value was below the laboratory reporting limit.

4.1.9 Zinc

Zinc was detected in all of the samples collected, with concentrations ranging from 2.9 mg/kg to 109 mg/kg. The maximum detected concentration was from sample SMI-014-ASS, located towards the top of the main drainage. The maximum detected site-specific background concentration was 16.2 mg/kg. Of the detected concentrations, 23 were greater than the maximum background concentration.

4.2 Conclusions

The RFI described procedures for collecting the desired amount of soil samples within the limited time available at the Site. In this regard, the proposed Plan was successfully completed and represents a workable template for subsequent investigation planning at other island ATON locations. The Plan implementation also allowed for the successful identification and collection of the DTSC "discretionary" samples.

The data quality objectives established in the RFI were achieved (i.e., sample custody, holding times, detection limits, and collection of field duplicate samples). The results of the sample analyses do not indicate a pattern of high residual contaminant migration from the former ATON area.

The field sampling activities provided sufficient spatial representation of soil data to support subsequent ecological and human health risk characterizations.

4.3 Habitat Characterization

One of the objectives of the RFI was to further characterize habitat at and near the ATON site, as well as areas downgradient from the site. To accomplish this, B. Beatty, ecologist (CDM) teamed with I. Williams (NPS) to characterize habitats, and document opportunistic sightings of wildlife or signs of wildlife.

In conducting the site survey, EPA's *Checklist for Ecological Assessment/Sampling* (Appendix A in EPA 1997) was completed to summarize observations. The ecological survey checklist is provided with this report as Appendix D. A brief summary is provided below.

In consultation among the field team, the site area was determined to extend from the drainage where background samples were collected, east to the large drainage to the southeast of the eyebolt, and from the eyebolt down the slope to the south, onto the alluvial fan, and southeast where the drainage leads to the beach, where standing water was observed, just upland of the beach area. Three primary plant communities were observed in the site area:

- Coastal sage scrub, interspersed with grassy areas, bare soil, and rock outcrops, on the cliff near the eyebolt, and on the slope leading down to the alluvial fan.
- Annual grasses, primarily on the alluvial fan, below the slope
- A small (i.e., 30 feet x 120 feet) flood pond area, near the beach

I. Williams has previously noted several species in the area, as listed below. Species observed during this site visit are indicated by (*):

- Common raven (*Corvus corax*) *
- Burrowing Owl (*Athene culicularia*) *

- Kestrel (*Falco sparvarius*)
- Red-tailed hawk (*Buteo jamaicensis*)
- Northern harrier (*Circus cyaneus*)*
- Western meadowlark (*Sturnella neglecta*)
- Horned Lark (*Eremophila alpestris*)
- Song sparrow (*Melospiza melodia*)
- Say's phoebe (*Sayornis saya*) *
- Peregrine falcon (*Falco peregrinus*) *
- Elephant seal (*Mirounga angustirostris*)

Cite

During the site survey, shells of native snails were also observed throughout the site, as well as burrows, runways, and seed caches of small rodents, and burrows made by insects such as wasps.

During the site survey, the field team specifically looked for threatened and endangered species. The island paintbrush (*Castilleja hololeuca*) was observed in the site area, and the island fox (*Urocyon littoralis*) ranges the whole island, and could occur in the area.

5.0 References

CDM 2001. Ecological and Human Health Risk Assessment Work Plan and Preliminary Evaluation. San Miguel Island Aid to Navigation. October 10.

CDM 2002. Final RCRA Facility Investigation Workplan/Sampling and Analysis Plan. San Miguel Island Aid to Navigation. September 27.

Environmental Protection Agency (EPA). 1997. Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments. Interim Final. Solid Waste and Emergency Response. EPA/540-R-97-006. June.

RFI guidance by EPA

Appendix A
Site Photographs
(San Miguel Island, November 13, 2002)

Photo 1 Eyebolt area, looking south

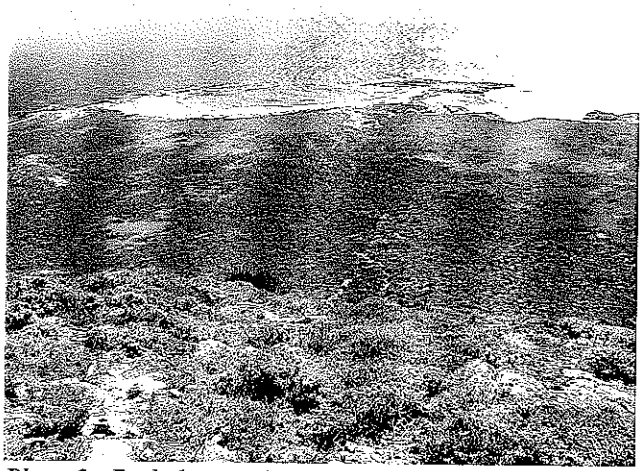


Photo 2. Eyebolt area, looking south.

Photo 3. View of overall drainages.

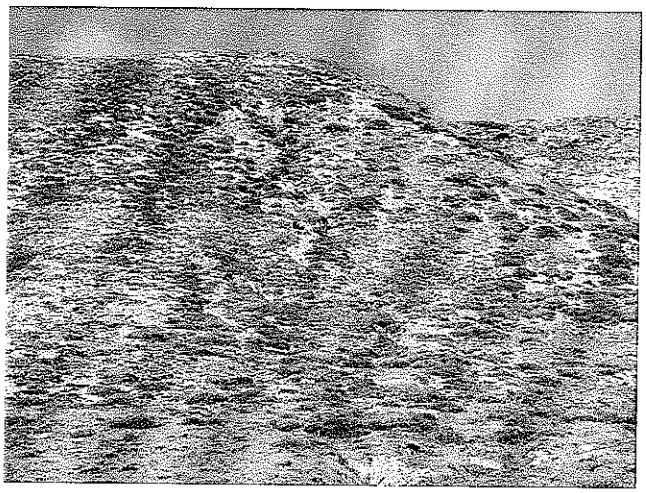


Photo 4 Main drainage that was sampled

Photo 5. Main drainage that was sampled

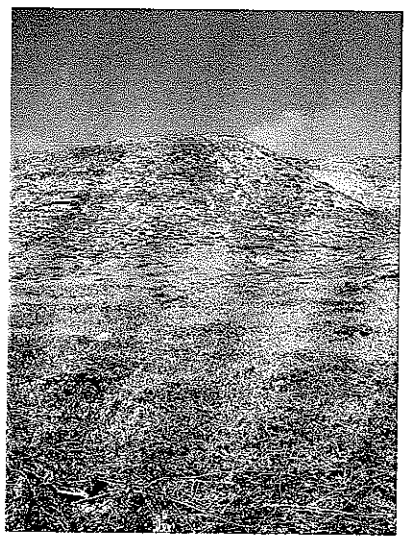


Photo 6. Main drainage that was sampled.

Photo 7. Sample collection within the main drainage

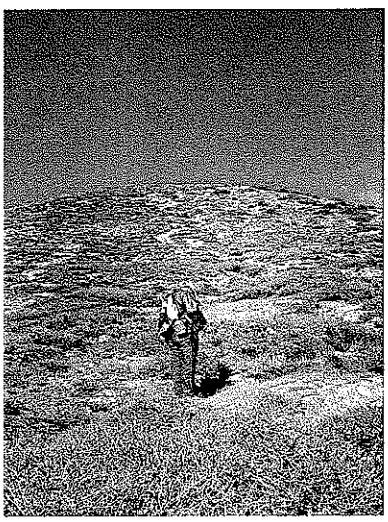


Photo 8 Sample collection within the main drainage.

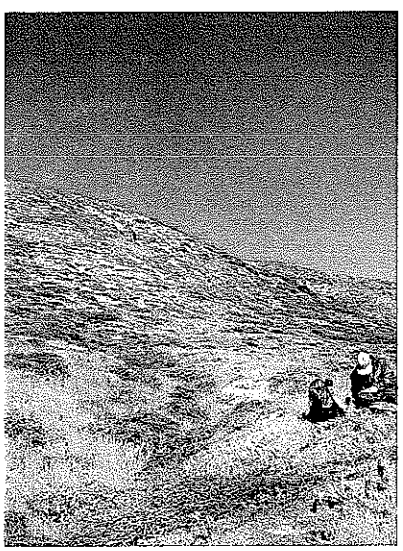


Photo 9. Sample collection within the main drainage

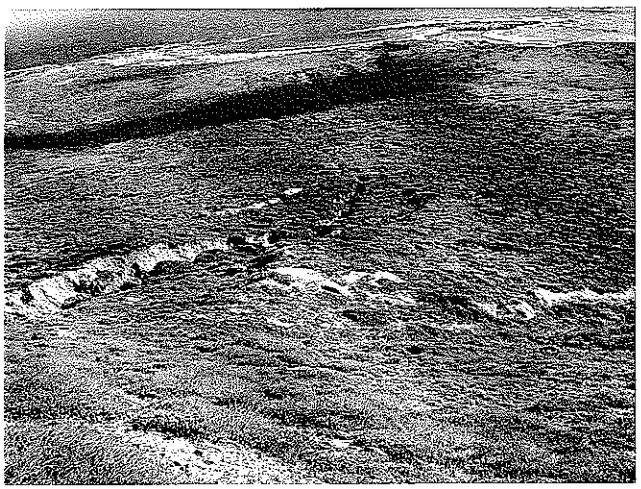


Photo 10 Bottom of large drainage to east of eyebolt

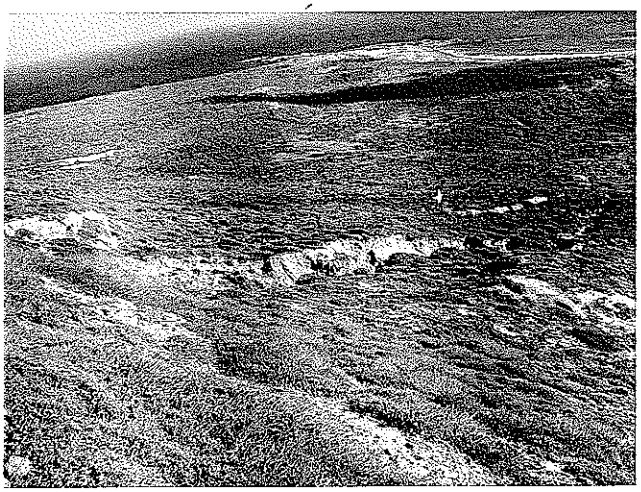


Photo 11 Bottom of large drainage to east of eyebolt.

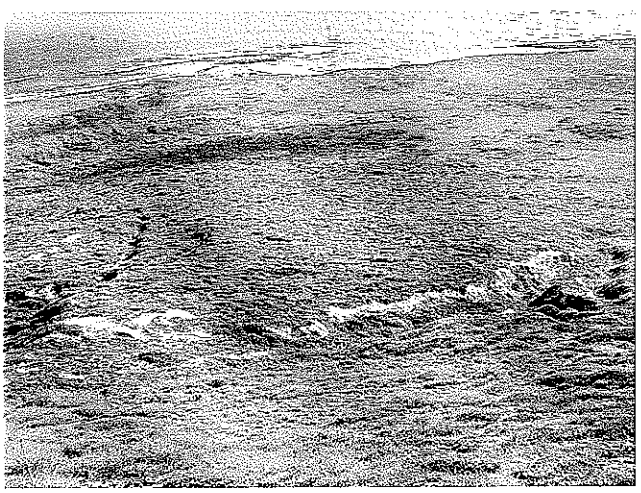


Photo 12. Bottom of large drainage to east of eyebolt

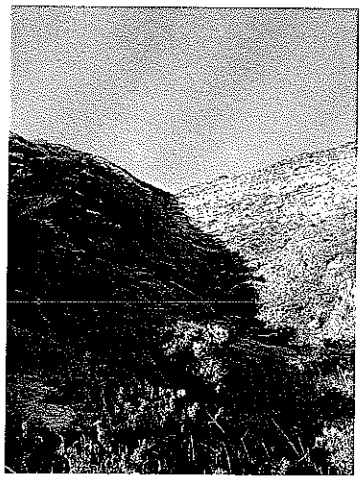


Photo 13. Large drainage, east of eyebolt, not sampled

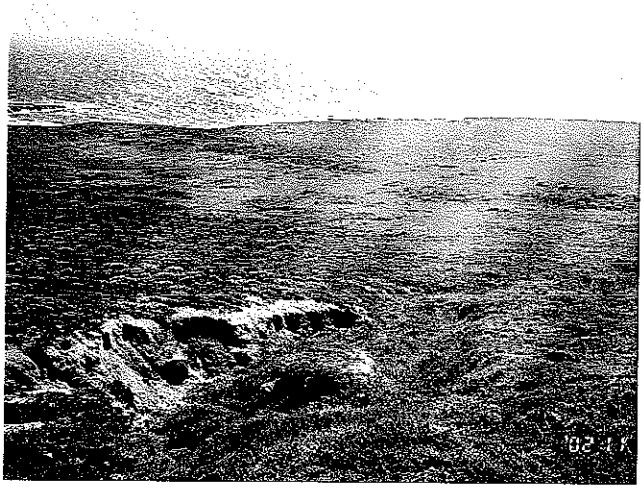


Photo 16. Bottom of main drainage

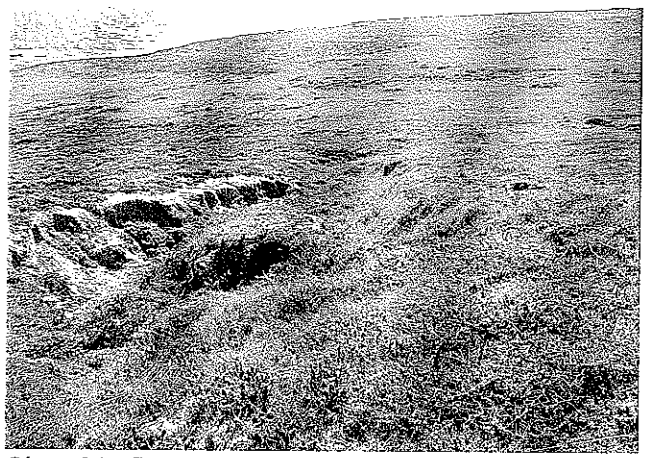


Photo 14. Cross drainage that was sampled

Photo 17. Sample collection method

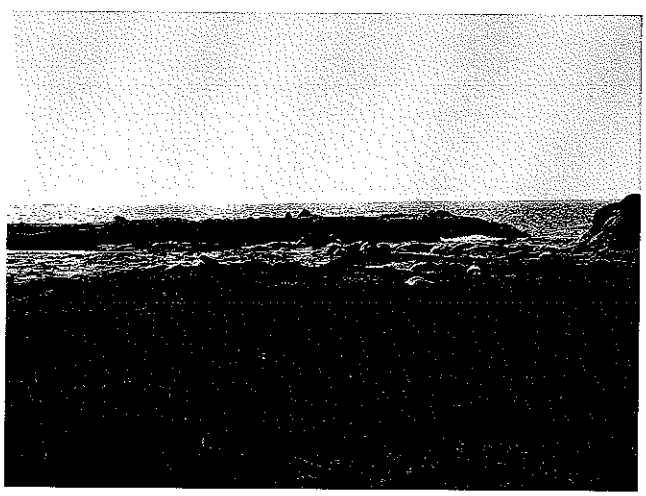


Photo 15. Elephant seals on beach below site.

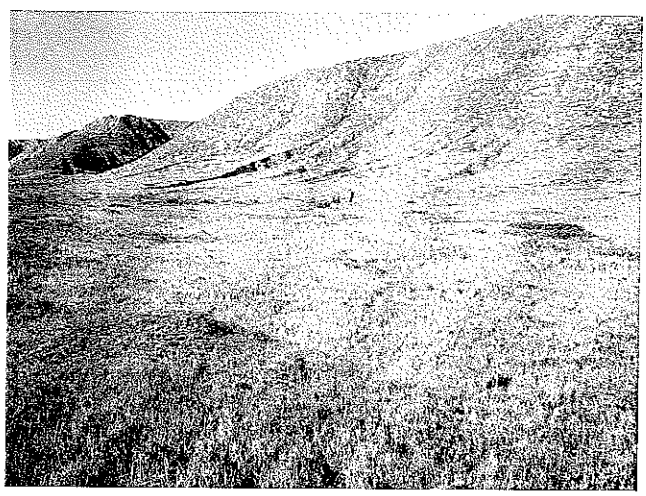


Photo 18. Bottom of main drainage

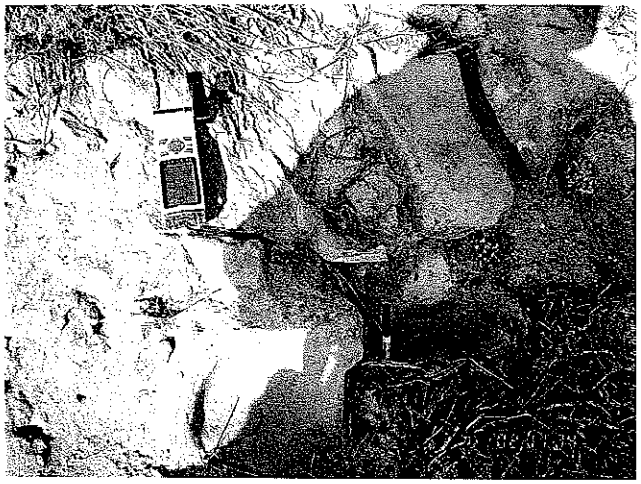


Photo 19 Sample location showing battery casing

Photo 22 Jerusalem cricket

Photo 20 Sample collection at edge of large drainage, east of eyebolt

Photo 23 Seals on beach below flood pond

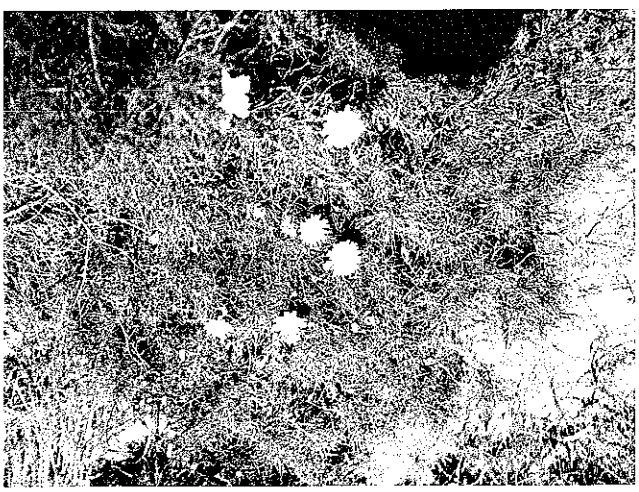


Photo 21 Cliff aster.

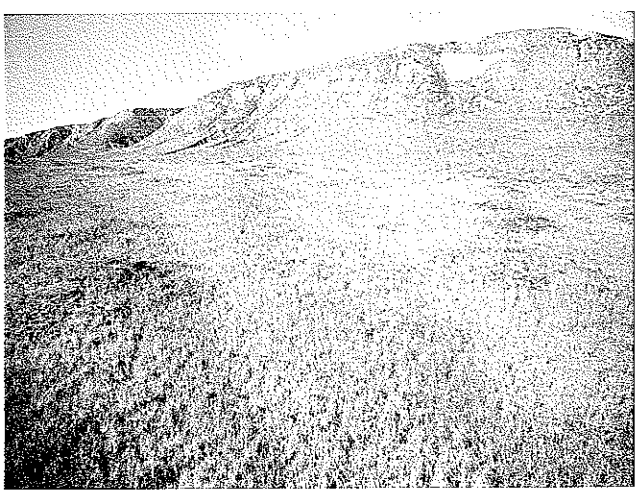


Photo 24 Grassy area on lower slope, below coastal sage scrub

Photo 25. Small rodent burrow in grassy area.

Photo 28. Battery casing, found on slope leading down from eyebolt.

Photo 26. Wood, possibly from ATON platform, shows steepness of slope

Photo 29. Island paintbrush.

Photo 27. Small rodent seed cache

Photo 30. Vegetation on slope

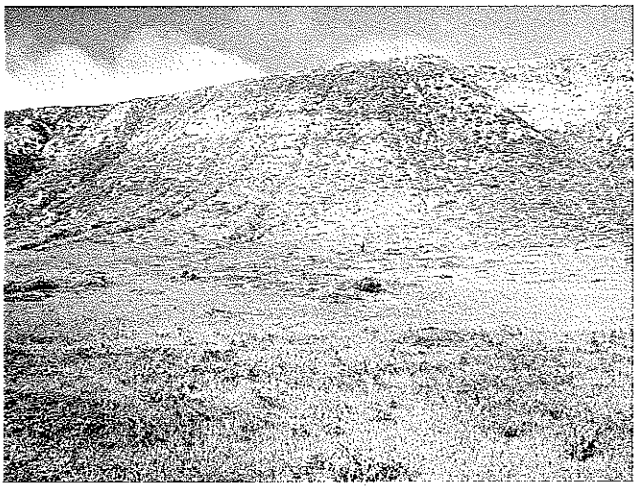


Photo 31 Soil samplers at base of slope

Photo 34. Looking down the slope to the beach, large drainage on left, southeast of eyebolt

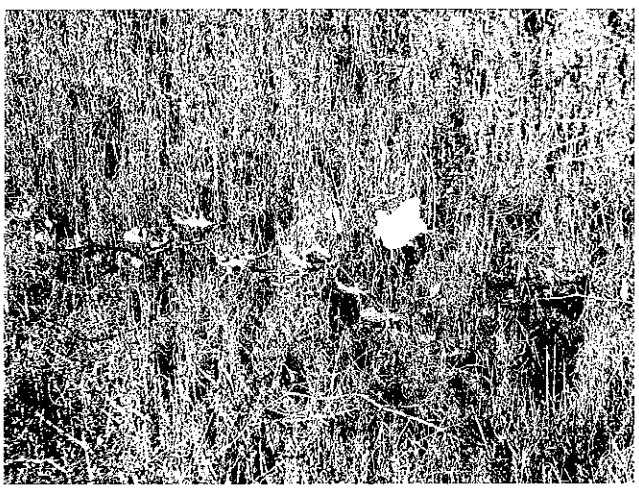


Photo 32 Morning glory

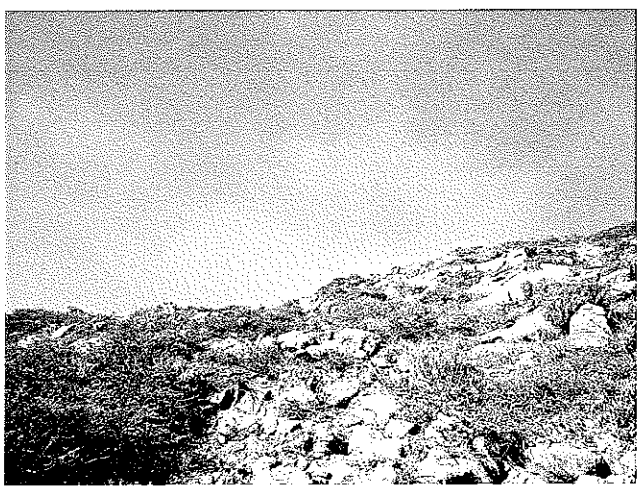


Photo 35 Top of ridge, near eyebolt

Photo 33. Flood pond near beach.

Photo 36 Coyote bush.

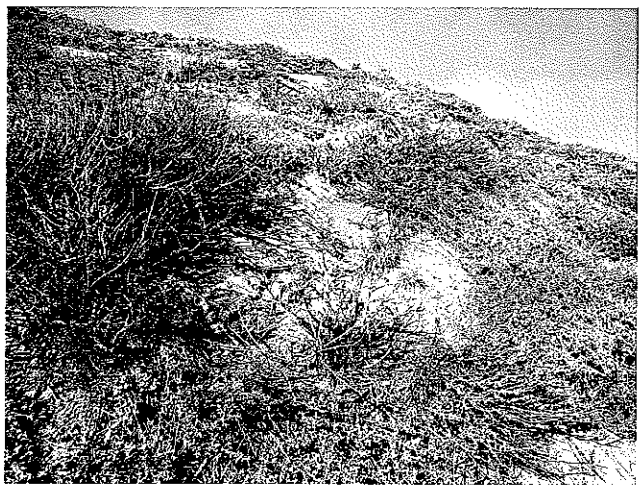


Photo 37. Top of slope, wood debris observed in this area.

Photo 38. Edge of cliff, 50 ft. south of eyebolt, looking down towards the beach

Photo 39. Beach area where drainage empties, elephant seals observed here

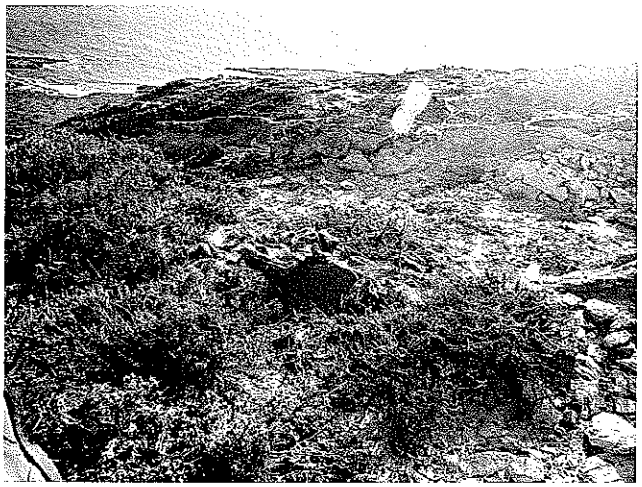


Photo 40. Habitat in the vicinity of the eyebolt, showing wind-exposed rocky soil and wind-stunted vegetation

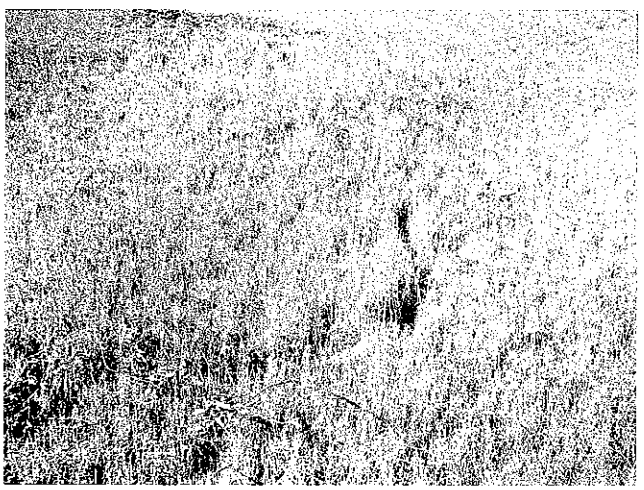


Photo 41. Small rodent trail through grass

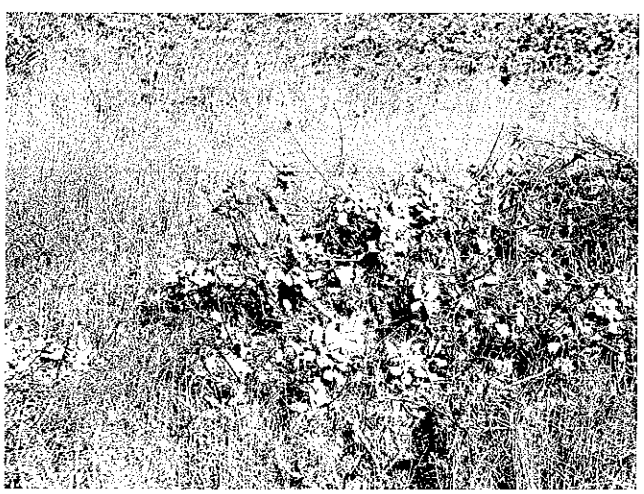


Photo 42. Buckwheat.

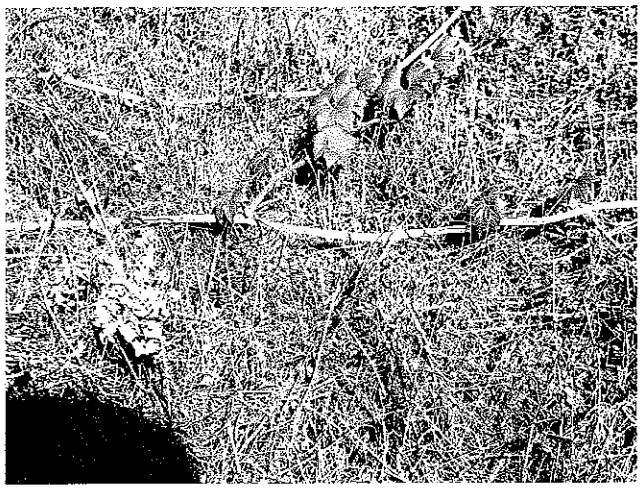


Photo 43. Wild cucumber.

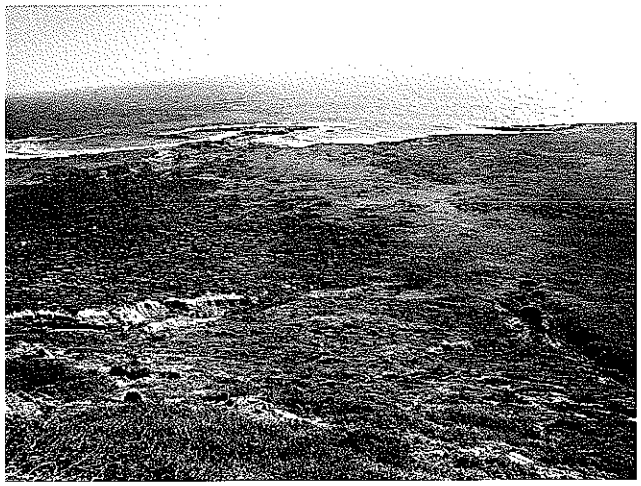


Photo 46. Lower part of drainage

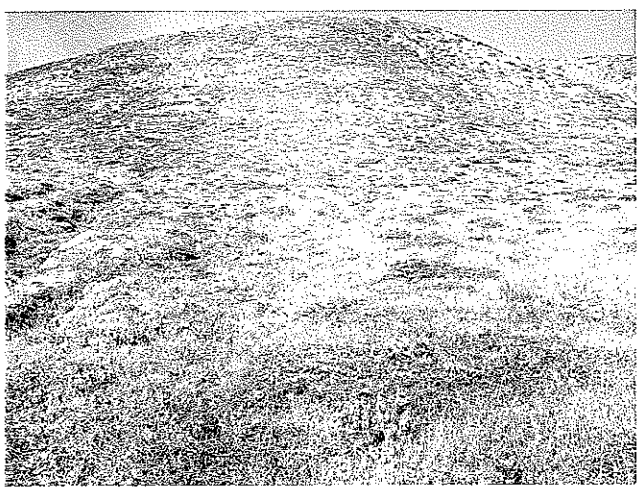


Photo 44. Grasslands on lower alluvial fan, intergrading back into coastal sage scrub on the slope.

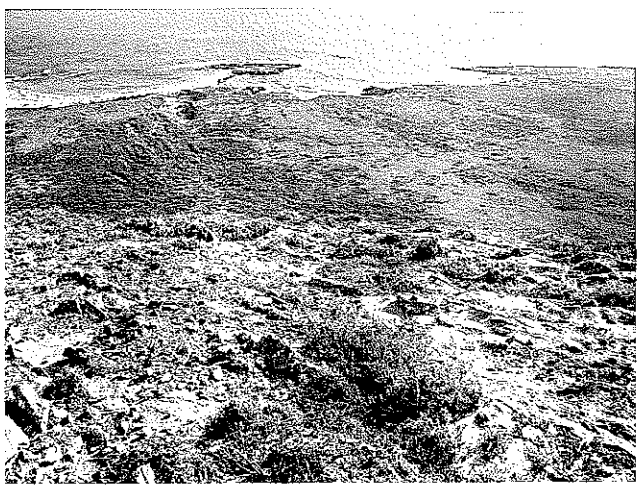


Photo 47. Edge of cliff, about 60 ft south of the eyebolt.

Photo 45. Vegetation on lower slope

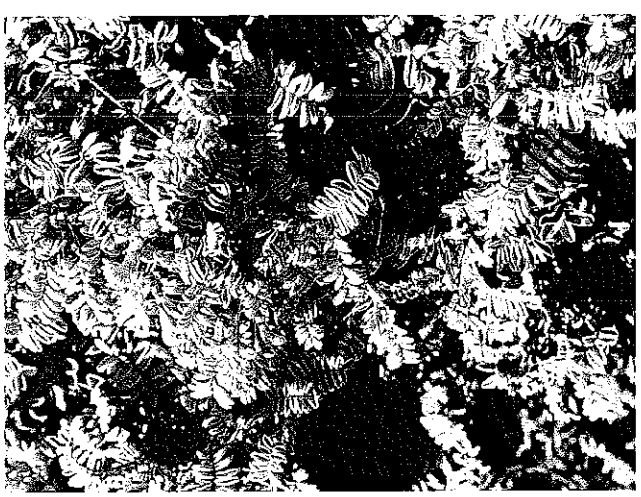


Photo 48. San Miguel Island Locoweed

Photo 49. Coastal sage plant.

Photo 52. Flood pond near beach

Photo 50. Common raven

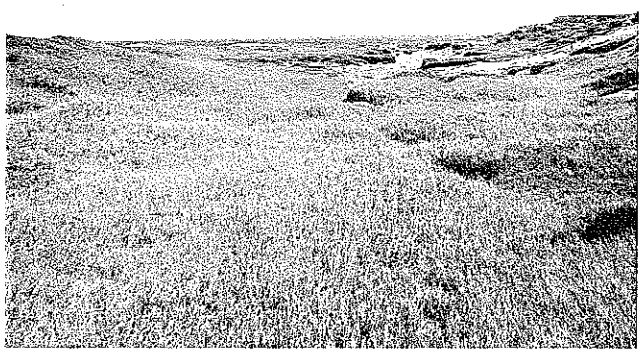


Photo 53. Saltgrass in flood pond area near beach

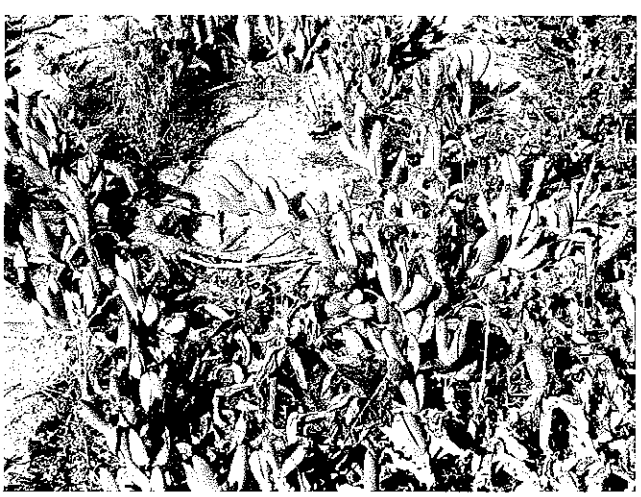


Photo 51. Sea fig.

Appendix B
Field Notes

San Miguel Field Notes
November 12 – 13, 2002
Brenda Beatty

November 12, 2002

Traveled from Denver to Santa Barbara, met Joe Sabel at Budget car rental at approximately 11:30. Went to lunch, then USCG office at SB airport. Met with David Lange, Chris Bucklin, and Matt Braden to go over field procedures. Tested field equipment, and covered health and safety plan.

November 13, 2002

08:30 Met at hotel with Joe Sabel, Matt Braden, Dave Lange, Chris Bucklin. Drove to airport to meet with helicopter crew. Mechanical problems with helicopter resulted in late start for flight. Met with helicopter crew for safety briefing, headed to San Miguel. Arrive at 10:45.

10:45 Met with NPS personnel, Ian Williams (Island park ranger) and Georgianna _____ (NPS archaeologist). Brenda, Joe, and Dave set out GPS units to check readings:

Brenda: N 34 01.305
W 120 21.980

Dave: N 34 01.307
W 120 21.977

Joe: N 34 01.333
W 120 22.014

Sampling team headed off to collect background samples, I met with Ian Williams to review and identify vegetation communities in the area. Wildlife species reported by Ian that he has previously identified at the site include:

Red tailed hawk
Raven
Bald eagles (presumably from the population introduced at Santa Cruz)
Island fox (there is only one wild fox remaining on San Miguel. Several are kept in protective cages on the island however, for a captive breeding program)

Plants identified at the top of the slope, near the eyebolt, and between the eyebolt and the part of the slope where the field team descended to collect background samples:

Iceplant (*Mesembryanthemum edulis*)
Goldenbush (*Isocoma* [previously Haplopappus] *menziesii*)
San Miguel Island locoweed (*Astragalus miguelensis*)
Island sage
Coastal Sage

11:30 Met with sampling team at the eyebolt to visually identify the area of the site, so that the ecological characterization can be conducted in those areas Area determined to extend from drainage where background samples were collected east to large drainage to southeast of eyebolt, and from eyebolt down the slope to the south, onto the alluvial fan, and southeast where drainage leads to the beach, where standing water is seen

11:35 Started down 60 degree slope with Ian, plan to walk slope, alluvial fan, note where drainage goes, and to standing water near the beach Plan to photograph plant communities, individual plant species, and any other eco features seen Using Canon 35 mm camera and ASA 800 film

Photo log:

Roll 1

Photo 5 (4 photos previously taken on this roll) – San Miguel Island Locoweed (milkvetch) (*Astragalus miguelensis*) – endemic to islands, but not just San Miguel (Ian reports that there are no plants endemic to only San Miguel)
Photo 6 – Island morning glory - endemic
Photo 7 – sea fig (*Mesembryanthemum edulis*)
Photo 8 – goldenbush (*Isocoma menziesii*)
Photo 9 – Coyote bush (*Baccharis pilularis*)
Photo 10 – sea fig
Photo 11 – western thistle
Photo 12 – island buckwheat (*Eriogonum grande rubescens*) - endemic
Photo 13 –burrow, likely island deer mouse (per Ian) (*Peromyscus maniculatus*)
Photo 14 – elephant seals on beach (*Mirounga angustirostris*)
Photo 15 – Island paintbrush (*Castilleja hololeuca*) (T&E)
Photo 16 – Island paintbrush (*Castilleja hololeuca*) (T&E) (flowering)
Photo 17 – wood, possibly from ATON platform, shows steepness of slope
Photo 18 – battery casing, found on slope leading down from eyebolt
Photo 19 – metal in ravine near beach (photo not clear)
Photo 20 – wood on lower slope (remnant of ATON structure ?)
Photo 21 – Island wallflower (*Erysimum insulare*) rare endemic
Photo 22 – Island buckwheat flower
Photo 23 –Wild cucumber (*Marah macrocarpa*)
Photo 24 – Insect burrows (wasps, per Ian), in bank of lower ravine, some of the lower ones could be mouse burrows
Photo 25 – Vegetation on lower slope

Roll 2

Photo 1 – cliff aster, cliff desert dandelion (*Malacothrix saxatilis implicata*)
Photo 2 – flood pond (per Ian) at base of slope
Photo 3 – coyote bush (*Baccharis pilularis*)
Photo 4 – coastal sage plant

Photo 5 – beach area below site
Photo 6 – looking upslope from the alluvial fan
Photo 7 – common raven (*Corvus corax*), on dune just north of beach
Photo 8 – saltgrass (*Distichlis spicata*) in flood pond area near beach
Photo 9 – photo of beach near floodpond (foreground). Elephant seals observed here
Photo 10 – immature Jerusalem cricket (*Stenopelmatus fuscus*)
Photo 11 – Beach below flood pond, with seals
Photo 12 – beach below flood pond, with seals
Photo 13 – looking north across lower grassy area, and back up slope towards eyebolt area. Shows slope where debris was thrown, shows how drainage goes towards the west, and finally runs into alluvial area and drainage area that ends at the beach
Photo 14 – grassy area on lower slope, below coastal sage scrub
Photo 15 – mouse burrow in grassy area
Photo 16 – mouse seed cache
Photo 17 - Island paintbrush (*Castilleja hololeuca*) (T&E) (flowering)
Photo 18 – soil samplers at base of slope
Photo 19 – morning glory
Photo 20 – mouse trail through grass
Photo 21 - island buckwheat (*Eriogonum grande rubescens*) - endemic
Photo 22 – wild cucumber
Photo 23 – grasslands on lower alluvial fan, intergrading back into coastal sage scrub on slope
Photo 24 – mouse burrows
Photo 25 – soil samplers in lower part of drainage
Photo 26 – spider web
Photo 27 – spider web
Photo 28 – looking back down slope to beach, large drainage, southeast of eyebolt, on left
Photo 29 – top of ridge, climbing back up slope. Metal debris observed in this area
Photo 30 - top of ridge, climbing back up slope. Wood debris observed in this area
Photo 31 – looking over cliff, ~ 50 ft south of eyebolt
Photo 32 - looking over cliff, ~ 50 ft south of eyebolt
Photo 33 – beach area where drainage empties, elephant seals observed here. Ian also reported seeing plovers on these beaches during the summer
Photo 34 – habitat in vicinity of eyebolt, showing wind-exposed rocky soil and wind-stunted vegetation
Photo 35 - ~30 ft south of eyebolt, leads down large drainage to southeast (Joe reports that no debris was found here when the USCG was removing debris)
Photo 36 – edge of cliff ~ 60 ft south of eyebolt

Note: Most photos were of plant species to facilitate plant identification. Therefore, time was not recorded.

Other notes:
Native snail (*Helmintheglypta ayres*) seen throughout site on soil (exposed to potential soil contamination, eaten by birds, foxes, mice). Grasshoppers seen on grassy slope below site.

Other plants seen: yarrow, horehound, *Mesembryanthemum nodiflorum, M. crystallinum*. Vegetation on lower part of slope is the same as that above, but of greater density, somewhat sheltered from winds experienced above. Woody vegetation on lower grassy area is similar to above, with many more grasses, plus wild cucumber, and wild morning glory. Near the beach, at the bottom of the drainage, where the standing water occurs, halophytic (salt tolerant) vegetation (i.e., saltgrass, alkalai heath) were observed.

General habitat description: Approximately 35 mph winds at top of slope, all day. In this area, vegetation is very low, from the winds, (approximately 6 to 12 inches tall). Representative plant species (i.e., in November), woody species such as goldenbush, Island milk vetch (locoweed), sea fig. The percent cover in this area varies, depending on location. Where shrubby vegetation has a hold, there are areas of 90 percent cover. In the rocky and steeper areas, just to the south of the e;yebolt, it is mostly exposed rock, with vegetation in depressions that are somewhat protected from the wind.

There is some coastal sage scrub vegetation at the top as well as down the slope, and into the grassy area on the alluvial fan below, but the vegetation on the slope is much more robust. In fact, some of the plants lower on the slope are a little more protected from the winds, and are flowering. Species seen flowering include cliff aster, buckwheat, coyote bush, morning glory, ice plant, island paintbrush, and goldenbush.

Birds seen in area by Ian or during this site visit (indicated by *):
Common raven * (*Corvus corax*)
Burrowing owl * (*Athene culicularia*)
Kestrel (*Falco sparvarius*)
Red-tailed hawk (*Buteo jamaicensis*)
Northern harrier (*Circus cyaneus*)
Western meadowlark (*Sturnella neglecta*)
Horned lark (*Eremophila alpestris*)
Song sparrow (*Melospiza melodia*)
Say' phoebe * (*Sayornis saya*)
Peregrine falcon * (*Falco peregrinus*)
Plover (type?)

Elephant seals don't feed while on shore, the feed in the ocean, and fast when they come on shore (per Ian).

1600: Fog moving in, covering top of island, winds approximately 35 mph.

1630: picked up by helicopter to return to Santa Barbara

1700: at hotel, team continued to work on checklist, sample packaging, chain of custody records. Briefed team on ecological sightings for the day

1915: quit for the day

San Miguel Field Notes

David Lange (CDM)

Date: 11/12/02

1500
Started field meeting. Joe Sabel (USCG), Brenda Beatty (CDM Denver), Dave Lange (CDM San Diego), Chris Bucklin (DTSC) and Matt Braden (USCG) present. Changes made to sampling plan agreed on by all present:
1. Modified Radial Area. Changed distance of Radii from 60′ to 120′ and extended from 180′ to 250′ (11 degree intervals). *note: Distance of radii were later changed back to original length of 60′ due to field conditions.*

2. Agreed that flags would be set by Chris and Joe and labeled with letters. Sample recording will use numbers.

1540
Held Safety meeting and went through equipment. Separated equipment to define necessary items. Tested GPS units:
(Dave) N 34°24.573′
W 119° 41.680′

(Brenda) N 34° 24.576′
W 119°41.678′

(Joe) Problem with GPS datum will coordinate in morning

1650
Flight Crew delayed so early morning take-off also delayed until about 1200. Possible spill over requiring two days of sampling.

1700
End Day

Date: 11/13/02

0830
Leave Hotel for Airport

0900
Arrive at Airport waiting for helicopter crew. Sampling teams will include: Joe Sabel and Chris Bucklin marking sample locations while Matt and Dave take samples and record sample locations. Brenda and Ian Willams (ParkService) will perform habitat characterization.

No. of Samples

5 - Background	3 - Beach
7 - Main Drainage	1 - Eyebolt
6 - Radial	12 - Discretionary
5 - Cross Drainage	3 - Drainage to beach

1005
Took off from airport for San Miguel Island.

1020
Landed on SMI met with Ian Williams and Georgina (PS archeologist). Held safety meeting. Tested radios and GPS units.

Sample Info to be recorded at each location by Matt
Time of Sample:
Sample Number:
Sample Letter (ID):
GPS Coordinates:
elevation (extra):

Time of Sample: 1058
Sample Number: **001**
Sample Letter (ID): A
GPS Coordinates: N 34° 01.272′
W 120° 21.955′
elevation (extra): 370 ft

Date: 11/13/02 cont.

Time of Sample: 1109
Sample Number: **002**
Sample Letter (ID): B
GPS Coordinates: N 34° 01.253′
W 120° 21.958′
elevation (extra): 320 ft

Time of Sample: 1113
Sample Number: **002 (Duplicate)**
Sample Letter (ID): B
GPS Coordinates: N 34° 01.253′
W 120° 21.958′
elevation (extra): 320 ft

Time of Sample: 1122
Sample Number: **003**
Sample Letter (ID): C
GPS Coordinates: N 34° 01.245′
W 120° 21.960′
elevation (extra): 255 ft

Time of Sample: 1131
Sample Number: **004**
Sample Letter (ID): D
GPS Coordinates: N 34° 01.223′
W 120° 21.965′
elevation (extra): 116 ft

Time of Sample: 1139
Sample Number: **005**
Sample Letter (ID): E
GPS Coordinates: N 34° 01.202′
W 120° 21.964′
elevation (extra): 90 ft

Time of Sample: 1222
Sample Number: **006 DSS (eyebolt)**
Sample Letter (ID): F
GPS Coordinates: N 34° 01.249′
W 120° 21.879′
elevation (extra): 350 ft

Date: 11/13/02 cont.

Time of Sample: 1224
Sample Number: **007 (radii 1)** — Show Radii #1 MAP with Radii
Sample Letter (ID): G
GPS Coordinates: N 34° 01.242′
W 120° 21.878′
elevation (extra): 338 ft

Time of Sample: 1232
Sample Number: **008 (radii 3)**
Sample Letter (ID): H
GPS Coordinates: N 34° 01.244′
W 120° 21.891′
elevation (extra): 339 ft

Time of Sample: 1239
Sample Number: **009 (radii 2)**
Sample Letter (ID): I
GPS Coordinates: N 34° 01.236′
W 120° 21.894′
elevation (extra): 320 ft

Time of Sample: 1246
Sample Number: **010 (radii 4)**
Sample Letter (ID): J
GPS Coordinates: N 34° 01.245′
W 120° 21.902′
elevation (extra): 337 ft

Time of Sample: 1255
Sample Number: **011 (radii 5)**
Sample Letter (ID): K
GPS Coordinates: N 34° 01.250′
W 120° 21.897′
elevation (extra): 346 ft

Time of Sample: 1259
Sample Number: **011 (Duplicate)**
Sample Letter (ID): L
GPS Coordinates: N 34° 01.250′
W 120° 21.897′
elevation (extra): 346 ft

NOTE: Sample letter should be same as original sample K

Date: 11/13/02 cont.

Time of Sample: 1304
Sample Number: **012**
Sample Letter (ID): M
GPS Coordinates: N 34° 01.252′
W 120° 21.889′
elevation (extra): 340 ft

Time of Sample: 1316
Sample Number: **013**
Sample Letter (ID): N **(F)**
GPS Coordinates: N 34° 01.235′
W 120° 21.883′
elevation (extra): 314 ft

NOTE:
Radial samples were not given Letters by Joe/Chris. Letters started up again at this point. Sample team Dave/Matt continued lettering for all samples.

Time of Sample: 1325
Sample Number: **014**
Sample Letter (ID): O **(G)**
GPS Coordinates: N 34° 01.222′
W 120° 21.882′
elevation (extra): 280 ft

Time of Sample: 1336
Sample Number: **015**
Sample Letter (ID): P **(H)**
GPS Coordinates: N 34° 01.212′
W 120° 21.882′
elevation (extra): 218 ft

Time of Sample: 1344
Sample Number: **016**
Sample Letter (ID): Q **(I)**
GPS Coordinates: N 34° 01.195′
W 120° 21.884′
elevation (extra): 148 ft

Time of Sample: 1350
Sample Number: **017**
Sample Letter (ID): R **(J)**
GPS Coordinates: N 34° 01.168′
W 120° 21.900′
elevation (extra): 86 ft

Date: 11/13/02 cont.

Time of Sample: 1356
Sample Number: **018**
Sample Letter (ID): S **(K)** K?
GPS Coordinates: N 34° 01.143′
W 120° 21.903′
elevation (extra): 63 ft

Time of Sample: 1404
Sample Number: **019**
Sample Letter (ID): T **(L)**
GPS Coordinates: N 34° 01.118′
W 120° 21.907′
elevation (extra): 15 ft

L?

Time of Sample: 1411
Sample Number: **019**
Sample Letter (ID): U **(L) Dup**
GPS Coordinates: N 34° 01.118′
W 120° 21.907′
elevation (extra): 15 ft

M? ?

Time of Sample: 1420
Sample Number: **020**
Sample Letter (ID): V **(M)**
GPS Coordinates: N 34° 01.077′
W 120° 21.885′
elevation (extra): 10 ft

Time of Sample: 1428
Sample Number: **021**
Sample Letter (ID): W **(N)**
GPS Coordinates: N 34° 01.053′
W 120° 21.834′
elevation (extra): 5 ft

Time of Sample: 1435
Sample Number: **022**
Sample Letter (ID): X **(O)**
GPS Coordinates: N 34° 01.036′
W 120° 21.796′
elevation (extra): 4 ft

Date: 11/13/02 cont.

Time of Sample: 1457
Sample Number: **023 CRS**
Sample Letter (ID): Y **(P)**
GPS Coordinates: N 34° 01.186′
W 120° 21.882′
elevation (extra): 96 ft

Time of Sample: 1502
Sample Number: **024 CRS**
Sample Letter (ID): Z **(Q)**
GPS Coordinates: N 34° 01.192′
W 120° 21.870′
elevation (extra): 99 ft

Time of Sample: 1509
Sample Number: **025 CRS**
Sample Letter (ID): AA **(R)**
GPS Coordinates: N 34° 01.202′
W 120° 21.863′
elevation (extra): 108 ft

Time of Sample: 1529
Sample Number: **026 5 ft N. of eyebolt**
Sample Letter (ID): AB **(No label by joe/chris off on their own)**
GPS Coordinates: N 34° 01.249′
W 120° 21.880′
elevation (extra): 325 ft

1540
End Sampling. More samples taken by DTSC not included above will be upon returning to mainland. Wind picking up.

1800
Arrived at Hotel, coordinated sample labels. Only 3 samples were taken at cross channel instead of 5 as agreed to by DTSC.

1830
Completed chain of custodies and ended day. Samples taken by DTSC will be recorded in logbook after copies are received.

Date: 11/14/02

0830
Leave Santa Barbara for lab

1200
Stopped at Lowe's picked up potting soil (Pursell's STAGreen 0.13-0.04-0.09) for 2 field blanks. Talked to lab and confirmed that potting soil would work.

1250
Field blank sample taken SMI-041-BLN

1252
Field blank sample taken SMI-042-BLN

1300
Head for lab dropped off samples and then returned to S.D.

San Miguel Field Notes

12 –13 Nov 2002

12 Nov 02

1500 Prep for field
GPS comparison at Country Inn pkg lot
JMS 34 24.574 119 41.738
BB 34 24.577 119 41.678
DL 34 24.576 119 41.678
Discussion about correct datum – NAD 83 vs NAD 29

Covered H & S plan
Sample protocol
Bagging spl
Background loc
Modified radial area

Time at LZ for departure
Sand Spit off 217 before main terminal

For helo 0830

Me, Matt
Brenda Beatty
Dave Lange
Chris Bucklin

1015 Touch down on island
unload gear and divide
Quick discussion w/ NPS staff

1045 Howling wind CAVU
Safety brief and signed plan – my copy
Distributed gear /radios
Me Georgian & Ian

GPS comp
DL 34 01.307 120 21.977
BB 34 01 305 120 21.980
JMS 34 01.333 120 22.014

Background spls

A BG #1 34 01.268 120 22.014

B BG # 2 34 01.271 120.016
Much bare rx
Accum of sediment in bottom chl

C BG #3 34 01.227 120 22.023
Midden? Shell matter approx 2 m down slope photos
Oth side of chl

D BG#4 34 01.221 120 22.028
E BG# 5 34 01.201 120 22.023
Bottom brk in slope
Photo of spl location
Photo up hill of BG draw

1152 back at eye bolt to set grid

1205 Discussion about radial spl w/ Chris Decided to return to sked as in SAP for dist, but radii spread evenly between #1 @ 180T & #6 @ 260T approx 13 between ea

eyebolt v34 01.240 120 21.928
Radius 6 34 01.249 120 21.948
Radius 1 34 01.241 120 21.926
Just over brk in slope photo
Wind deps in blowout in med SS bed
Due to strong wind am pacing distance tape not practical

NB flushed smallish brn owl on hike up bluff – burrowing owl?

Rad 2 34 01.233 120 21.957

Rad 3 (apparently forgot to take LL)
In wind blown sand trapped in roots of plant
Moved ~ 10 ft frm loc same direction

Rad 4 34 01.248 120 21.956
Sand in blowout photo
Moved ~ 2 ft

Rad 5 34 01.249 120 21.956
Dup @ this location

Rad 6 34 01.257 120 21.941
Photo

Flagging in drainage

Spl F 34 01.232 120 21.941
Some pieces of debris in area battery plate and csg photo

Spl G 34 01.219 120 21.939
2nd spl in drainage just below wood beams @ a piece of battery csg photo

SMI-029-DTS
DTSC #1 34 01.207 120 21.945
Spl ~ 30 ft W of drainage
Time 1312 photo

SPL H 34 01.207 120 21.36
3rd of 7 in drainage

SPL I 34 01.193 120 21.941
A section of the drainage becomes hard to see Took spl at last clear point
Drainage well defined again ~ 30 ft down slope photo

SPL J 34 01.170 120 21.956
Drainage becomes less defined beyond this point 5th of spls in drainage Photo after flower on new roll of film SMI buckwheat

SMI-030-DTS
DTSC 2 34 01.179 120 21.969
Another small drainage ~ 100 ft west of main spl'd drainage spl from edge T=1333

SPL K 34 01.139 120 21.964
Flatish area but in drainage as best as Chris & I can determine

SPL L 34 01.107 120 21.964
Dup for drainage chnl poorly defined toe of fan

DTSC 3 34 01.106 120 21.970
SMI-031-DTS Photo – crs sand very rooty & a lot of organics T=1359
Under bush W edge of fan

DTSC 4 34 01.105 120 21.955
SMI-032-DTS More open grassy area in channel perhaps toe of fan T=1402

SPL M 34 01.077 120 21.937
Channel again visible well defined ~ 8 ft E of meandering chnl Photos up & down stream from spl pt

SPL N 34 01.054 120 21.886
~5 ft off main channel course

SPL O 34 01.041 120 21.848
In channel bottom

SMI-026-BSS
Beach 1 w/ dupe 34 00.955 120 21.754
Dup SMI-326-BSS
T= 1428 soft well sorted beach sand
In interest of time spl collected by DTSC collected w/o scoop like picking up dog poop

Beach 2 334 00.949 120 21.739
SMI-027-BSS Photo T=1432 w/scoop

Beach 3 34 00.942 120 21.715
T= 1436 w/o scoop

Spl P 34 01.203 120 21.931
Crs drain near wood rusty bucket ~ 50 ft E of main drainage

Spl Q 34 01.203 120 21.3929
Crs chnl
Photo down slope top

Spl R 34 01.201 120 21.917

DTSC 5 34 01.212 120 21.910
SMI-033-DTS T=1505
In big canyon @ base of bare rx photo up & down & spl loc w/o scoop

SMI-034-DTS
DTSC 6~ 100 ft above R in subtle drainage
34 01.216 120 21.919
T=1511 w/o scoop

DTSC 7 34 01.221 120 21.932
SMI-035-DTS spl on slope directly below piece of battery case
T= 1515 w/o scoop

DTSC 9 34 01.225 120 21.935
SMI-037-DTS Most of way up slope 50 ft E. of spl'd draw
T=1522 w/o scoop

DTSC 10 34 01.224 120 21.938
SMI-038-DTS T=1526 about 100 ft below top 75 ft E of main spl drainage w/o scoop

DTSC 11 34 01.250 120 21.926

SMI-039-DTS T=1531
Spl 60 ft east of eyebolt at edge of big canyon Soil silty almost absent of sand
Photo w/o scoop

SMI-036-DTS
DTSC 8 34 01.287 120 21.953
T=1529 collected by Matt and Dave w/scoop

SMI-040-DTS
DTSC 12 34-01.287 120 21.953
T=1537 At top ~100 ft north of eyebolt collected w/ scoop

Pilot indicated winds @ bluff 33 kts
Packed gear to LZ 1604

Motel 1705
Completed labels 1815 w/ COC

1. – coastal sage scrub
morning glory golden bush throughout SMI locoweed noted everywhere island sage

3. halophytic 2. grassland mainly introduced

secured @ 1915

Appendix C
Laboratory Analytical Report

APCL

Applied Physics & Chemistry Laboratory

13760 Magnolia Ave. Chino CA 91710
Tel. (909) 590-1828 Fax (909) 590-1498

December 9, 2002

CDM Federal Programs Corp.
Attention: Matt Brookshire
3760 Convoy St., Ste 210
San Diego CA 92111

Dear Matt,

This package contains samples in our Service ID 02-6141 and your project San Miguel Island Job#2606. Enclosed please find:

(1) Original Analytical Report.
(2) One diskette containing EDD deliverable.
(3) One original and one compact disk of Level D of Data Package Deliverable.
(4) Original Chain of custody record.

If anything is missing or you have any questions, please feel free to contact me.

Respectfully submitted,

Regina Kirakozova
Associate QA/QC Director
Applied P & Ch Laboratory

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result SMI-008-DSS 02-06141-9	SMI-009-DSS 02-06141-10	SMI-010-DSS 02-06141-11	SMI-311-DSS 02-06141-12
MOISTURE	ASTM-D2216	%Moisture	0.5	8.9	10.2	11.8	9.8
PRIORITY POLLUTANT METALS (CWA) (13)							
Dilution Factor				1	1	1	1
ANTIMONY	6010B	mg/kg	1	<1.1	<1.1	<1.1	0.41J
ARSENIC	6010B	mg/kg	0.3	5.9	6.1	3.5	5.9
BERYLLIUM	6010B	mg/kg	0.2	0.15J	0.28	0.17J	0.21J
CADMIUM	6010B	mg/kg	0.2	0.14J	0.12J	0.057J	0.086J
CHROMIUM	6010B	mg/kg	0.5	13.6	18.6	14.4	12.7
COPPER	6010B	mg/kg	0.5	11.5	11.3	7.2	10.5
LEAD	6010B	mg/kg	0.3	7.7	9.6	6.6	7.8
MERCURY	7471A	mg/kg	0.08	0.024J	0.039J	0.027J	0.030J
NICKEL	6010B	mg/kg	0.3	13.6	15.9	9.3	14.5
SELENIUM	6010B	mg/kg	0.5	1.2	<0.56	<0.57	0.57
SILVER	6010B	mg/kg	0.1	<0.11	<0.11	<0.11	<0.11
THALLIUM	6010B	mg/kg	0.5	<0.55	<0.56	<0.57	<0.55
ZINC	6010B	mg/kg	1	42.0	44.3	35.4	41.5

Component Analyzed	Method	Unit	PQL	Analysis Result SMI-012-DSS 02-06141-13	SMI-011-DSS 02-06141-14	SMI-013-ASS 02-06141-15
MOISTURE	ASTM-D2216	%Moisture	0.5	12.9	9.1	8.0
PRIORITY POLLUTANT METALS (CWA) (13)						
Dilution Factor				1	1	1
ANTIMONY	6010B	mg/kg	1	0.22J	<1.1	<1.1
ARSENIC	6010B	mg/kg	0.3	10.5	6.2	4.8
BERYLLIUM	6010B	mg/kg	0.2	0.41	0.21J	0.14J
CADMIUM	6010B	mg/kg	0.2	0.60	0.041J	0.10J
CHROMIUM	6010B	mg/kg	0.5	22.6	13.4	13.7
COPPER	6010B	mg/kg	0.5	23.2	9.5	9.7
LEAD	6010B	mg/kg	0.3	11.2	7.4	6.5
MERCURY	7471A	mg/kg	0.08	0.052J	0.044J	0.047J
NICKEL	6010B	mg/kg	0.3	32.2	13.6	12.6
SELENIUM	6010B	mg/kg	0.5	2.2	0.68	<0.54
SILVER	6010B	mg/kg	0.1	<0.11	<0.11	<0.11
THALLIUM	6010B	mg/kg	0.5	0.20J	<0.55	<0.54
ZINC	6010B	mg/kg	1	72.9	37.9	47.4

PQL: Practical Quantitation Limit MDL: Method Detection Limit CRDL: Contract Required Detection Limit
N.D.: Not Detected or less than the practical quantitation limit "-": Analysis is not required
J: Reported between PQL and MDL.
† All results are reported on dry basis for soil samples
Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & Ch Laboratory

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
CDM Federal Programs Corp.
Attention: Dave Lange
3760 Convoy St., Ste 210
San Diego CA 92111
Tel: (858)268-3383 Fax: (858)268-9677

Service ID #: 801-026141
Collected by: Dave Lange
Collected on: 11/13/02

Received: 11/14/02
Extracted: N/A
Tested: 11/15-22/02
Reported: 11/25/02

Sample Description: Soil
Project Description: San Miguel Island Job#2606

Analysis of Soil Samples

Component Analyzed	Method	Unit	PQL	Analysis Result SMI-001-RSS 02-06141-1	SMI-002-RSS 02-06141-2	SMI-302-RSS 02-06141-3	SMI-003-RSS 02-06141-4
MOISTURE	ASTM-D2216	%Moisture	0.5	5.4	5.4	5.7	4.5
PRIORITY POLLUTANT METALS (CWA) (13)							
Dilution Factor				1	1	1	1
ANTIMONY	6010B	mg/kg	1	<1.1	<1.1	<1.1	0.19J
ARSENIC	6010B	mg/kg	0.3	2.0	2.4	2.5	1.8
BERYLLIUM	6010B	mg/kg	0.2	0.033J	0.060J	0.068J	0.026J
CADMIUM	6010B	mg/kg	0.2	0.13J	0.13J	0.12J	0.12J
CHROMIUM	6010B	mg/kg	0.5	6.7	10.2	10.3	8.7
COPPER	6010B	mg/kg	0.5	1.8	3.3	3.4	2.9
LEAD	6010B	mg/kg	0.3	2.2	2.6	2.6	2.1
MERCURY	7471A	mg/kg	0.08	0.030J	0.024J	0.029J	0.019J
NICKEL	6010B	mg/kg	0.3	3.0	4.9	5.0	4.0
SELENIUM	6010B	mg/kg	0.5	<0.53	0.28J	0.27J	0.23J
SILVER	6010B	mg/kg	0.1	<0.11	<0.11	<0.11	<0.10
THALLIUM	6010B	mg/kg	0.5	0.63	0.33J	0.30J	<0.52
ZINC	6010B	mg/kg	1	7.5	13.4	13.4	12.3

Component Analyzed	Method	Unit	PQL	Analysis Result SMI-004-RSS 02-06141-5	SMI-005-RSS 02-06141-6	SMI-006-DSS 02-06141-7	SMI-007-DSS 02-06141-8
MOISTURE	ASTM-D2216	%Moisture	0.5	9.8	4.1	10.3	1.6
PRIORITY POLLUTANT METALS (CWA) (13)							
Dilution Factor				1	1	1	1
ANTIMONY	6010B	mg/kg	1	<1.1	<1.0	0.17J	<1.0
ARSENIC	6010B	mg/kg	0.3	1.8	2.5	5.7	2.5
BERYLLIUM	6010B	mg/kg	0.2	0.075J	0.012J	0.27	0.054J
CADMIUM	6010B	mg/kg	0.2	0.088J	0.12J	0.12J	0.044J
CHROMIUM	6010B	mg/kg	0.5	6.9	5.7	15.1	10.0
COPPER	6010B	mg/kg	0.5	3.7	1.1	7.3	5.8
LEAD	6010B	mg/kg	0.3	3.2	0.98	7.3	4.5
MERCURY	7471A	mg/kg	0.08	0.017J	0.015J	0.032J	0.029J
NICKEL	6010B	mg/kg	0.3	4.5	2.3	14.3	7.6
SELENIUM	6010B	mg/kg	0.5	<0.55	<0.52	0.32J	0.66
SILVER	6010B	mg/kg	0.1	<0.11	<0.10	<0.11	<0.10
THALLIUM	6010B	mg/kg	0.5	0.087J	0.62	<0.56	<0.51
ZINC	6010B	mg/kg	1	16.2	6.1	29.7	41.1

Level D Data Package Deliverables

General Information

Project: San Miguel Island Job#2606

APCL Service ID: 02-6141

Applied Research Laboratory
13760 Magnolia Ave. Chino, CA 91710
Telephone (909)590-1828
Fax (909)590-1498

11709

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Case Narrative

Project: San Miguel Island

For CDM Federal Programs Corp.

APCL Service No: 02-6141

1. Sample Identification

The sample identifications are listed in the following table:

CDM Federal Programs Corp. Sample ID	APCL Sample ID
SMI-001-RSS	02-06141-1
SMI-002-RSS	02-06141-2
SMI-302-RSS	02-06141-3
SMI-003-RSS	02-06141-4
SMI-004-RSS	02-06141-5
SMI-005-RSS	02-06141-6
SMI-006-DSS	02-06141-7
SMI-007-DSS	02-06141-8
SMI-008-DSS	02-06141-9
SMI-009-DSS	02-06141-10
SMI-010-DSS	02-06141-11
SMI-011-DSS	02-06141-14
SMI-311-DSS	02-06141-12
SMI-012-DSS	02-06141-13
SMI-013-ASS	02-06141-15

2. Analytical Methodology

Samples are analyzed by EPA methods

ASTM-D2216 (Moisture, percent in soil),
6010B/7471A (Priority Pollutant Metals (CWA) (13)),

3. Holding Time

All samples were extracted digested and analyzed within the holding times defined by the appropriate EPA methods of the analyses

4. Preservation

All samples were preserved and stored according to the appropriate EPA methods

5. Tele-log

One e-mail requesting the ICP analyses

6. Anomaly

None

"I certify that these data are technically accurate complete, and in compliance with the terms and conditions of the contract, for other than the conditions detailed above Release of the data contained in the hardcopy

data package and its electronic data deliverable submitted on diskette had been authorized by the Laboratory Manager or her/his designee, as verified by the following signature."

Respectfully submitted,

Regina Kirakozova
Associate QA/QC Director
Applied P & Ch Laboratory

Applied P & Ch Laboratory

APCL

13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Chain of Custody

Please Print in pen

Client: CDM Contact: Dave Lange Tel #: 858-268-3383 Fax #: 858-268-9677

Address: 3760 Convoy St. Suite 210 City: San Diego State: CA Zip code: 92111

Bill to:

Project Name/Code: San Miguel Island Job # 2606 P.O. #

Project Address APCL Quotation #

Due Date: [X] regular [ ] rush: ___ days ___ hours Sampled by: Dave Lange

Analysis Items: CLP Metals ILM04.0

White - With report
Yellow - Lab copy
Pink - Originator

Field Sample ID No.	Sample Description	Date Collected	Time	Sample Matrix	Preservation	# of Containers	CLP Metals ILM04.0	Remarks
SMI-001-RSS	Background Sample 1	11/13/02	1058	SOIL	NONE	1	X	
SMI-002-RSS	" 2	11/13/02	1109	SOIL	NONE	1	X	
SMI-302-RSS	" 2 DUP	11/13/02	1113	SOIL	NONE	1	X	
SMI-003-RSS	" 3	11/13/02	1122	SOIL	NONE	1	X	
SMI-004-RSS	" 4	11/13/02	1131	SOIL	NONE	1	X	
SMI-005-RSS	" 5	11/13/02	1139	SOIL	NONE	1	X	
SMI-006-DSS	Debris Field EYEBOLT	11/13/02	1222	SOIL	NONE	1	X	
SMI-007-DSS	Debris Field	11/13/02	1224	SOIL	NONE	1	X	
SMI-008-DSS	Debris Field	11/13/02	1232	SOIL	NONE	1	X	
SMI-009-DSS	Debris Field	11/13/02	1239	SOIL	NONE	1	X	
SMI-010-DSS	Debris Field	11/13/02	1246	SOIL	NONE	1	X	
SMI-011-DSS	Debris Field	11/13/02	1255	SOIL	NONE	1	X	
SMI-311-DSS	Debris Field Dup	11/13/02	1259	SOIL	NONE	1	X	
SMI-012-DSS	Debris Field	11/13/02	1304	SOIL	NONE	1	X	
SMI-013-DSS	Arroyo 1	11/13/02	1316	SOIL	NONE	1	X	

QC Requirement: [ ] Regular; [ ] QA/QC Report; [ ] WIP; [X] Raw Data; [ ] Extended Raw Data [ ] CLP; [ ] ACE [ ] AFCEE [ ] NEESA ___ (E, C or D); [ ] Other _____ (Please specify)

Sample Disposal: [ ] Return [ ] Disposal by APCL [ ] Hold for _____ days after receiving date. **If not specified, samples will be discarded 45 days after samples are received.**

Sample Conditions: [ ] Intact; [ ] Broken. Cooler Seal: [ ] Intact; [ ] Broken; [ ] None. Tag # _____ Temperature: [X] Room [ ] Cold (_____ °C).

Relinquished by [signature] Date/Time 11/14/02 / 1350 Received by [signature] Date/Time 11/14/02 / 1350

Relinquished by Date/Time / Received by Date/Time /

APCL USE ONLY Service # Note:

Clients understand that all terms described in the proposals, quotations for this project, and/or the general terms provided in the current APCL price schedules will be followed. APCL reserves the right to terminate its service or withhold delivery of any reports, if in APCL's sole discretion the terms of the project have been broken.

Hsin-Yi Lee

From: Brookshire, Matthew [BrookshireMS@cdm.com]
Sent: Wednesday, November 20, 2002 11:23 AM
To: 'Hsin-Yi Lee'
Subject: RE: CLP Limits are in ( )

Hi Hsin Yi.

This message is in regard to the samples collected for the San Miguel project. Please perform the ICP method so that we can reach the original detection limits that were sent to you as Attachment 2 of the scope of work. Analysis by CLP method is NOT required.

Thank you.

Matt Brookshire

-----Original Message-----
From: Hsin-Yi Lee [mailto:HsinL@apclab.com]
Sent: Wednesday, November 20, 2002 10:51 AM
To: Brookshire, Matthew
Subject: CLP Limits are in ( )

<< File: ATTACHEMENT 2 reporting limits_CLP.doc >>

If you have any questions please feel free to contact me.

Hsin-Yi Lee
Project Manager
Applied Physics and Chemistry Laboratory
13760 Magnolia Ave.
Chino, CA 91710
(909)-590-1828 x113
HsinL@apclab.com

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Applied P & Ch Laboratory
13760 Magnolia Ave., Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Sample Receiving Checklist

APCL ServiceID: 6141 **Client Name/Project:** CDM.

1. **Sample Arrival**

Date/Time Received 11/14/2 1350 Date/Time Opened 11/14/2 1350 By (name): Henry Lee

Custody Transfer: ☑ Client ☐ Golden State ☐ UPS ☐ US Mail ☐ FedEx ☐ APCL Empl: ____

2. **Chain-of-Custody (CoC)**

☑ With Samples? ☐ Faxed? ☐ Client has Copy? ☑ Signed, dated? By: ____
☑ Project ID? ☑ Analyses Clear? ☐ Hold Samples? #on Hold ____ # Received 15
☑ CoC/Docs Zip-Locked under lid? ☐ Compos #: ____ ☑ #Samples OK? ____
☐ Discrepancies? ☐ Client notified? ☐ Response (attach docs): ____

3. **Shipping Container/Cooler**

☑ Cooler Used? # of 2 Cooled by: ☐ Ice ☐ Blue Ice ☐ Dry Ice ☑ None
Temp °C 21.3°C 20.9°C ____ ____ ____ ____
(Cooler temperature measured from temp blank if present otherwise measured from the cooler)
Cooler Custody Seal? ☐ Absent ☑ Intact ☐ Tampered?

4. **Sample Preservation**

☐ **pH <2** ☐ pH >12
If Not, pH = ____ Preserved by: ☐ Client ☐ APCL ☐ Third Party ____

5. **Holding-time Requirements**

☐ pH 24hr ☐ BACT 6/24hr ☐ Cr^{VI} 24hr ☐ NO_3^- 48hr ☐ BOD 48hr
☐ Cl_2 ASAP ☐ Turbidity 48hr ☐ DO ASAP ☐ Fe(II) ASAP
☐ HT Expired? ☐ Client notified?

6. **Sample Container Condition**

☑ Intact? ☐ Broken? ☐ Documented? Number: ____
Type: ☑ plastic ☐ glass ☐ Tube: brass/SS ☐ Tedlar Bag
☑ Quantity OK? ☐ Leaking? ☐ Anomaly?
☑ Caps tight? ☐ Air Bubbles? ☐ Anomaly?
Labels: ☑ Unique ID? ☑ Date/Time ☐ Preserved?

7. **Turn Around Time**

☑ RUSH TAT: ____ ☐ Std (7-10 days) ☐ Not Marked

8. **Sample Matrix**

☐ Drinking H_2O ☐ Other Liq ☑ Soil ☐ Wipe ☐ Polymer ☐ Air ☐ Other: ____
☐ Ground H_2O ☐ Sludge ☐ Filter ☐ Oil/Petro ☐ Paint ☐ W. Water ☐ Extract ☐ Unknown

9. **Pre-Login Check List Completed & OK?**

☑ ALL OK? (if not, attach docs) ☐ Client Contact? (Name: ____)Date/Time: ____

Received/Checked by: Henry Lee Date: 14 Nov 2002 Time: 8:23 a.m

*HT: Samples must be analyzed for results to reflect total concentrations Results generated outside required of holding times are considered minimal values and may be used to define waste as hazardous but not as non-hazardous

DocumentFile: [neal.texfiles]smprcl.tex

11704

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Sample Login: Check List

02-06141 (0787_425) (2683383_425)

11/20/02

Part 1: General Information

☐	Company Information	Name:	*CDM Federal Programs Corp.*
		Address:	*3760 Convoy St., Ste 210 ,San Diego ,CA 92111*
☐	Project Information	Project Description:	*San Miguel Island*
		Project #:	
☐	Billing Information	P.O. #:	
		Bill Address:	*1526 Cole Blvd, 3., St 150 ,Golden ,CO 80401*
		Lab Project ID:	
		Client Database #:	*0*
☐	Receiving Information	Who Received Sample?	*Hsin-Yi Lee*
		Receiving Date/Time:	*11/14/02 1350*
		COC No.	
☐	Shipping Information	Shipping Company	*by Client*
		Packing Information:	*Others*
☐	Container Information	Container Provider:	*Client*
☐	Sampling Information	Sampling Person:	*Dave Lange*
		Sampling Company:	*Client*
☐	Turn-Around-Time Option:		*Rush 5 working day(s)*
☐	QC Option:		*NEESA D*
☐	Disposal Option:		*Not specify*

Part 2: Sample Information

Seq #	Sample ID (on COC)	Sample Sub-ID	APCL Sample ID	Matrix	Cont-tainer	Preser-vative	Vol, ml Am. g	# of Replica	Condition G, L, B	Collected mmddyy	Hold ?	Composite Group	TAT Days	
1	SMI-001-RSS		02-06141-1	S	P		300	1	G	111302	N	0	7	☐
2	SMI-002-RSS		02-06141-2	S	P		300	1	G	111302	N	0	7	☐
3	SMI-302-RSS		02-06141-3	S	P		300	1	G	111302	N	0	7	☐
4	SMI-003-RSS		02-06141-4	S	P		300	1	G	111302	N	0	7	☐
5	SMI-004-RSS		02-06141-5	S	P		300	1	G	111302	N	0	7	☐
6	SMI-005-RSS		02-06141-6	S	P		300	1	G	111302	N	0	7	☐
7	SMI-006-DSS		02-06141-7	S	P		300	1	G	111302	N	0	7	☐
8	SMI-007-DSS		02-06141-8	S	P		300	1	G	111302	N	0	7	☐
9	SMI-008-DSS		02-06141-9	S	P		300	1	G	111302	N	0	7	☐
10	SMI-009-DSS		02-06141-10	S	P		300	1	G	111302	N	0	7	☐
11	SMI-010-DSS		02-06141-11	S	P		300	1	G	111302	N	0	7	☐
12	SMI-011-DSS		02-06141-14	S	P		300	1	G	111302	N	0	7	☐
13	SMI-311-DSS		02-06141-12	S	P		300	1	G	111302	N	0	7	☐
14	SMI-012-DSS		02-06141-13	S	P		300	1	G	111302	N	0	7	☐
15	SMI-013-ASS		02-06141-15	S	P		300	1	G	111302	N	0	7	☐

Part 3: Analysis Information

Test Items:

☐ *ASTM-D2216* Moisture, percent in soil

☐ *6010B/7000A* Priority Pollutant Metals (CWA) (13)

☐ *200.7/6010B* Beryllium, Be, by ICP

Seq #	Client"s Sample ID (as given on COC)	Sample Sub-ID	APCL Sample ID	Matrix	MOISTURE	METALS	BE	
1	SMI-001-RSS		02-06141-1	S	X	X	X	☐
2	SMI-002-RSS		02-06141-2	S	X	X	X	☐
3	SMI-302-RSS		02-06141-3	S	X	X	X	☐
4	SMI-003-RSS		02-06141-4	S	X	X	X	☐
5	SMI-004-RSS		02-06141-5	S	X	X	X	☐
6	SMI-005-RSS		02-06141-6	S	X	X	X	☐
7	SMI-006-DSS		02-06141-7	S	X	X	X	☐
8	SMI-007-DSS		02-06141-8	S	X	X	X	☐
9	SMI-008-DSS		02-06141-9	S	X	X	X	☐
10	SMI-009-DSS		02-06141-10	S	X	X	X	☐
11	SMI-010-DSS		02-06141-11	S	X	X	X	☐
12	SMI-011-DSS		02-06141-14	S	X	X	X	☐
13	SMI-311-DSS		02-06141-12	S	X	X	X	☐
14	SMI-012-DSS		02-06141-13	S	X	X	X	☐
15	SMI-013-ASS		02-06141-15	S	X	X	X	☐

☐ Client"s Requirement: ~~CLP METALS BY ILF 4.0 (SEE ATTACHED LIST)~~ HC 11/20/2

Level D Data Package Deliverables

Metals

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11707

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Metal Analysis Results

Client Name:	CDM Federal Programs Corp.	Project No:		Collection Date:	11/21/2002
Project ID:	San Miguel Island	Service ID:	026141	Collected by:	
		Lab Sample ID:	02M2368MB01	Received Date:	11/21/2002
Sample ID:		Sample Matrix	Soil	Moisture %:	
Sample Type:	Method Blank				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1	<1	U	P		02M2368M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.3	<0.3	U	P		02M2368M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.2	<0.2	U	P		02M2368M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.2	<0.2	U	P		02M2368M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.5	<0.5	U	P		02M2368M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.5	<0.5	U	P		02M2368M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.3	<0.3	U	P		02M2368M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.08	<0.08	U	CV		02M2384H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.3	0.077	B	P		02M2368M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.5	<0.5	U	P		02M2368M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.1	<0.1	U	P		02M2368M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.5	<0.5	U	P		02M2368M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1	<1	U	P		02M2368M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026141	Collected by:	Dave Lange
		Lab Sample ID:	02-6141-1	Received Date:	11/14/2002
Sample ID:	**SMI-001-RSS**	Sample Matrix	Soil	Moisture %:	5.4
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.1	<1.1	U	P		02M2368M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.32	2.0		P		02M2368M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.21	0.033	B	P		02M2368M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.21	0.13	B	P		02M2368M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.53	6.7		P		02M2368M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.53	1.8		P		02M2368M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.32	2.2		P		02M2368M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.085	0.030	B	CV		02M2384H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.32	3.0		P		02M2368M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.53	<0.53	U	P		02M2368M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.11	<0.11	U	P		02M2368M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.53	0.63		P		02M2368M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.1	7.5		P		02M2368M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

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W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp.	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026141	Collected by:	Dave Lange
		Lab Sample ID:	02-6141-2	Received Date:	11/14/2002
Sample ID:	**SMI-002-RSS**	Sample Matrix	Soil	Moisture %:	5.4
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.1	<1.1	U	P		02M2368M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.32	2.4		P		02M2368M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.21	0.060	B	P		02M2368M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.21	0.13	B	P		02M2368M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.53	10.2		P		02M2368M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.53	3.3		P		02M2368M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.32	2.6		P		02M2368M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.085	0.024	B	CV		02M2384H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.32	4.9		P		02M2368M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.53	0.28	B	P		02M2368M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.11	<0.11	U	P		02M2368M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.53	0.33	B	P		02M2368M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.1	13.4		P		02M2368M	11/21/02	11/21/02	1	6010B

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M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp.	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026141	Collected by:	Dave Lange
		Lab Sample ID:	02-6141-3	Received Date:	11/14/2002
Sample ID:	**SMI-302-RSS**	Sample Matrix	Soil	Moisture %:	5.7
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.1	<1.1	U	P		02M2368M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.32	2.5		P		02M2368M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.21	0.068	B	P		02M2368M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.21	0.12	B	P		02M2368M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.53	10.3		P		02M2368M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.53	3.4		P		02M2368M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.32	2.6		P		02M2368M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.085	0.029	B	CV		02M2384H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.32	5.0		P		02M2368M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.53	0.27	B	P		02M2368M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.11	<0.11	U	P		02M2368M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.53	0.30	B	P		02M2368M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.1	13.4		P		02M2368M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable

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Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026141	Collected by:	Dave Lange
		Lab Sample ID:	02-6141-4	Received Date:	11/14/2002
Sample ID:	**SMI-003-RSS**	Sample Matrix	Soil	Moisture %:	4.5
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.0	0.19	B	P		02M2368M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.31	1.8		P		02M2368M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.21	0.026	B	P		02M2368M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.21	0.12	B	P		02M2368M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.52	8.7		P		02M2368M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.52	2.9		P		02M2368M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.31	2.1		P		02M2368M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.084	0.019	B	CV		02M2384H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.31	4.0		P		02M2368M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.52	0.23	B	P		02M2368M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.10	<0.10	U	P		02M2368M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.52	<0.52	U	P		02M2368M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.0	12.3		P		02M2368M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp.	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026141	Collected by:	Dave Lange
		Lab Sample ID:	02-6141-5	Received Date:	11/14/2002
Sample ID:	**SMI-004-RSS**	Sample Matrix	Soil	Moisture %:	9 8
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.1	<1.1	U	P		02M2368M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.33	1.8		P		02M2368M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.22	0.075	B	P		02M2368M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.22	0.088	B	P		02M2368M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.55	6 9		P		02M2368M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.55	3.7		P		02M2368M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0 33	3 2		P		02M2368M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.089	0.017	B	CV		02M2384H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.33	4.5		P		02M2368M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.55	<0.55	U	P		02M2368M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.11	<0 11	U	P		02M2368M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.55	0.087	B	P		02M2368M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.1	16 2		P		02M2368M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp.	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026141	Collected by:	Dave Lange
		Lab Sample ID:	02-6141-6	Received Date:	11/14/2002
Sample ID:	**SMI-005-RSS**	Sample Matrix	Soil	Moisture %:	4.1
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.0	<1.0	U	P		02M2368M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.31	2.5		P		02M2368M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.21	0.012	B	P		02M2368M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.21	0.12	B	P		02M2368M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.52	5.7		P		02M2368M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.52	1.1		P		02M2368M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.31	0.98		P		02M2368M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.083	0.015	B	CV		02M2384H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.31	2.3		P		02M2368M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.52	<0.52	U	P		02M2368M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.10	<0.10	U	P		02M2368M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.52	0.62		P		02M2368M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.0	6.1		P		02M2368M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp.	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026141	Collected by:	Dave Lange
		Lab Sample ID:	02-6141-7	Received Date:	11/14/2002
Sample ID:	**SMI-006-DSS**	Sample Matrix	Soil	Moisture %:	10.3
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.1	0.17	B	P		02M2368M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.33	5.7		P		02M2368M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.22	0.27		P		02M2368M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.22	0.12	B	P		02M2368M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.56	15.1		P		02M2368M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.56	7.3		P		02M2368M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.33	7.3		P		02M2368M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.089	0.032	B	CV		02M2384H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.33	14.3		P		02M2368M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.56	0.32	B	P		02M2368M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.11	<0.11	U	P		02M2368M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.56	<0.56	U	P		02M2368M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.1	29.7		P		02M2368M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp.	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026141	Collected by:	Dave Lange
		Lab Sample ID:	02-6141-8	Received Date:	11/14/2002
Sample ID:	**SMI-007-DSS**	Sample Matrix	Soil	Moisture %:	1.6
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.0	<1.0	U	P		02M2368M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.30	2.5		P		02M2368M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.20	0.054	B	P		02M2368M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.20	0.044	B	P		02M2368M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.51	10.0		P		02M2368M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.51	5.8		P		02M2368M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.30	4.5		P		02M2368M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.081	0.029	B	CV		02M2384H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.30	7.6		P		02M2368M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.51	0.66		P		02M2368M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.10	<0.10	U	P		02M2368M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.51	<0.51	U	P		02M2368M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.0	41.1		P		02M2368M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp.	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026141	Collected by:	Dave Lange
		Lab Sample ID:	02-6141-9	Received Date:	11/14/2002
Sample ID:	**SMI-008-DSS**	Sample Matrix	Soil	Moisture %:	8 9
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1 1	<1.1	U	P		02M2368M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.33	5.9		P		02M2368M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0 22	0.15	B	P		02M2368M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0 22	0.14	B	P		02M2368M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.55	13.6		P		02M2368M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.55	11.5		P		02M2368M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.33	7 7		P		02M2368M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.088	0 024	B	CV		02M2384H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.33	13.6		P		02M2368M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0 55	1.2		P		02M2368M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0 11	<0.11	U	P		02M2368M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.55	<0.55	U	P		02M2368M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1 1	42 0		P		02M2368M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026141	Collected by:	Dave Lange
		Lab Sample ID:	02-6141-10	Received Date:	11/14/2002
Sample ID:	**SMI-009-DSS**	Sample Matrix	Soil	Moisture %:	10.1
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.1	<1.1	U	P		02M2368M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.33	6.1		P		02M2368M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.22	0.28		P		02M2368M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.22	0.12	B	P		02M2368M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.56	18.6		P		02M2368M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.56	11.3		P		02M2368M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.33	9.6		P		02M2368M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.089	0.039	B	CV		02M2384H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.33	15.9		P		02M2368M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.56	<0.56	U	P		02M2368M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.11	<0.11	U	P		02M2368M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.56	<0.56	U	P		02M2368M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.1	44.3		P		02M2368M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp.	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026141	Collected by:	Dave Lange
		Lab Sample ID:	02-6141-11	Received Date:	11/14/2002
Sample ID:	**SMI-010-DSS**	Sample Matrix	Soil	Moisture %:	11.8
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.1	<1.1	U	P		02M2368M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.34	3.5		P		02M2368M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.23	0.17	B	P		02M2368M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.23	0.057	B	P		02M2368M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.57	14.4		P		02M2368M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.57	7.2		P		02M2368M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.34	6.6		P		02M2368M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.091	0.027	B	CV		02M2384H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.34	9.3		P		02M2368M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.57	<0.57	U	P		02M2368M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.11	<0.11	U	P		02M2368M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.57	<0.57	U	P		02M2368M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.1	35.4		P		02M2368M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp.	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026141	Collected by:	Dave Lange
		Lab Sample ID:	02-6141-12	Received Date:	11/14/2002
Sample ID:	**SMI-311-DSS**	Sample Matrix	Soil	Moisture %:	9.8
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.1	0.41	B	P		02M2368M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.33	5.9		P		02M2368M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.22	0.21	B	P		02M2368M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.22	0.086	B	P		02M2368M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.55	12.7		P		02M2368M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.55	10.5		P		02M2368M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.33	7.8		P		02M2368M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.089	0.030	B	CV		02M2384H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.33	14.5		P		02M2368M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.55	0.57		P		02M2368M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.11	<0.11	U	P		02M2368M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.55	<0.55	U	P		02M2368M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.1	41.5		P		02M2368M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026141	Collected by:	Dave Lange
		Lab Sample ID:	02-6141-13	Received Date:	11/14/2002
Sample ID:	**SMI-012-DSS**	Sample Matrix	Soil	Moisture %:	12.9
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.1	0.22	B	P		02M2368M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.34	10.5		P		02M2368M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.23	0.41		P		02M2368M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.23	0.60		P		02M2368M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.57	22.6		P		02M2368M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.57	23.2		P		02M2368M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.34	11.2		P		02M2368M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.092	0.052	B	CV		02M2384H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.34	32.2		P		02M2368M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.57	2.2		P		02M2368M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.11	<0.11	U	P		02M2368M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.57	0.20	B	P		02M2368M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.1	72.9		P		02M2368M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026141	Collected by:	Dave Lange
		Lab Sample ID:	02-6141-14	Received Date:	11/14/2002
Sample ID:	**SMI-011-DSS**	Sample Matrix	Soil	Moisture %:	9.1
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.1	<1.1	U	P		02M2368M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.33	6.2		P		02M2368M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.22	0.21	B	P		02M2368M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.22	0.041	B	P		02M2368M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.55	13.4		P		02M2368M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.55	9.5		P		02M2368M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.33	7.4		P		02M2368M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.088	0.044	B	CV		02M2384H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.33	13.6		P		02M2368M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.55	0.68		P		02M2368M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.11	<0.11	U	P		02M2368M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.55	<0.55	U	P		02M2368M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.1	37.9		P		02M2368M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026141	Collected by:	Dave Lange
		Lab Sample ID:	02-6141-15	Received Date:	11/14/2002
Sample ID:	**SMI-013-ASS**	Sample Matrix	Soil	Moisture %:	7.9
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.1	<1.1	U	P		02M2368M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.33	4.8		P		02M2368M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.22	0.14	B	P		02M2368M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.22	0.10	B	P		02M2368M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.54	13.7		P		02M2368M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.54	9.7		P		02M2368M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.33	6.5		P		02M2368M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.087	0.047	B	CV		02M2384H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.33	12.6		P		02M2368M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.54	<0.54	U	P		02M2368M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.11	<0.11	U	P		02M2368M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.54	<0.54	U	P		02M2368M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.1	47.4		P		02M2368M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

FORM-2A Metal

Applied P & Ch Laboratory

Initial and Continuing Calibration Verification

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026141	Sequence No.:	02M2368M
		Instrument:	ICP -M	Method:	6010B
Batch No.(s):	02M2368				

Analysis Date: **11/21/02** Concentration Units: **UG/L**

#	Analyte	ICV True	11:18 Result	%R	CCV True	11:38 Result	%R	CCV True	12:20 Result	%R	CCV True	12:55 Result	%R
1	Aluminum	10000.0	9973.22	99.7	5000.0	5136.08	102.7	5000.0	5109.74	102.2	5000.0	5076.71	101.5
2	Antimony	4000.0	3959.23	99.0	2000.0	2029.50	101.5	2000.0	2029.91	101.5	2000.0	2023.50	101.2
3	Arsenic	1000.0	1005.01	100.5	500.0	517.98	103.6	500.0	512.45	102.5	500.0	508.17	101.6
4	Barium	10000.0	9914.57	99.1	5000.0	5159.87	103.2	5000.0	5238.85	104.8	5000.0	5175.92	103.5
5	Beryllium	1000.0	996.84	99.7	500.0	507.65	101.5	500.0	514.78	103.0	500.0	507.92	101.6
6	Cadmium	2000.0	1991.51	99.6	1000.0	1030.16	103.0	1000.0	1041.33	104.1	1000.0	1034.24	103.4
7	Calcium	100000.0	99694.01	99.7	50000.0	50815.67	101.6	50000.0	51938.29	103.9	50000.0	51698.86	103.4
8	Chromium	1000.0	990.94	99.1	500.0	512.06	102.4	500.0	518.99	103.8	500.0	513.55	102.7
9	Cobalt	4000.0	3968.49	99.2	2000.0	2068.51	103.4	2000.0	2096.72	104.8	2000.0	2081.80	104.1
10	Copper	4000.0	3980.39	99.5	2000.0	2059.74	103.0	2000.0	2108.18	105.4	2000.0	2064.88	103.2
11	Iron	10000.0	9829.03	98.3	5000.0	5165.13	103.3	5000.0	5164.79	103.3	5000.0	5229.27	104.6
12	Lead	1000.0	992.37	99.2	500.0	510.85	102.2	500.0	507.70	101.5	500.0	506.40	101.3
13	Magnesium	50000.0	49514.18	99.0	25000.0	26044.82	104.2	25000.0	26175.39	104.7	25000.0	25854.37	103.4
14	Manganese	4000.0	3970.14	99.3	2000.0	2065.48	103.3	2000.0	2108.89	105.4	2000.0	2081.77	104.1
15	Nickel	4000.0	3965.79	99.1	2000.0	2067.35	103.4	2000.0	2080.47	104.0	2000.0	2064.06	103.2
16	Selenium	1000.0	991.68	99.2	500.0	519.62	103.9	500.0	516.62	103.3	500.0	516.12	103.2
17	Silver	2000.0	1989.26	99.5	1000.0	1020.44	102.0	1000.0	1030.01	103.0	1000.0	1021.95	102.2
18	Thallium	1000.0	986.60	98.7	500.0	518.52	103.7	500.0	515.91	103.2	500.0	513.54	102.7
19	Vanadium	4000.0	3968.69	99.2	2000.0	2039.20	102.0	2000.0	2062.04	103.1	2000.0	2045.48	102.3
20	Zinc	4000.0	3987.11	99.7	2000.0	2043.46	102.2	2000.0	2055.75	102.8	2000.0	2032.83	101.6
21	Molybdenum	4000.0	3966.46	99.2	2000.0	2048.77	102.4	2000.0	2058.34	102.9	2000.0	2042.60	102.1

(a) ICV Control Limit 95-105%; For Hg, 90-110%

(b) CCV Control Limit 90-110%; For Hg, 80-120%

FORM-2A Metal

Applied P & Ch Laboratory

Initial and Continuing Calibration Verification

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026141	Sequence No :	02M2368M
		Instrument:	ICP -M	Method:	6010B

Batch No (s): 02M2368

Analysis Date: **11/21/02**

Concentration Units: **UG/L**

#	Analyte	CCV True	13:17 Result	%R	CCV True	13:53 Result	%R	CCV True	14:32 Result	%R	CCV True	15:01 Result	%R
1	Aluminum	5000.0	5019.21	100.4	5000.0	5032.46	100.6	5000.0	4978.94	99.6	5000.0	5055.29	101.1
2	Antimony	2000.0	2042.62	102.1	2000.0	2057.80	102.9	2000.0	2056.87	102.8	2000.0	2071.83	103.6
3	Arsenic	500.0	512.73	102.5	500.0	516.09	103.2	500.0	519.29	103.9	500.0	524.15	104.8
4	Barium	5000.0	5149.48	103.0	5000.0	5143.38	102.9	5000.0	5017.65	100.4	5000.0	5107.28	102.1
5	Beryllium	500.0	511.87	102.4	500.0	516.05	103.2	500.0	508.82	101.8	500.0	520.80	104.2
6	Cadmium	1000.0	1033.13	103.3	1000.0	1044.39	104.4	1000.0	1044.87	104.5	1000.0	1063.20	106.3
7	Calcium	50000.0	51159.06	102.3	50000.0	51936.37	103.9	50000.0	52556.80	105.1	50000.0	52847.30	105.7
8	Chromium	500.0	503.01	100.6	500.0	502.57	100.5	500.0	495.18	99.0	500.0	499.19	99.8
9	Cobalt	2000.0	2073.27	103.7	2000.0	2098.14	104.9	2000.0	2097.32	104.9	2000.0	2135.46	106.8
10	Copper	2000.0	2067.03	103.4	2000.0	2087.57	104.4	2000.0	2044.22	102.2	2000.0	2087.77	104.4
11	Iron	5000.0	5180.71	103.6	5000.0	5090.05	101.8	5000.0	4949.67	99.0	5000.0	5033.59	100.7
12	Lead	500.0	509.48	101.9	500.0	510.21	102.0	500.0	506.62	101.3	500.0	507.48	101.5
13	Magnesium	25000.0	25815.90	103.3	25000.0	25918.22	103.7	25000.0	25422.37	101.7	25000.0	25892.31	103.6
14	Manganese	2000.0	2085.64	104.3	2000.0	2101.08	105.1	2000.0	2068.22	103.4	2000.0	2117.27	105.9
15	Nickel	2000.0	2072.18	103.6	2000.0	2105.58	105.3	2000.0	2107.68	105.4	2000.0	2151.52	107.6
16	Selenium	500.0	513.88	102.8	500.0	514.07	102.8	500.0	506.13	101.2	500.0	503.61	100.7
17	Silver	1000.0	1007.74	100.8	1000.0	1007.18	100.7	1000.0	995.43	99.5	1000.0	1007.38	100.7
18	Thallium	500.0	515.65	103.1	500.0	514.06	102.8	500.0	510.14	102.0	500.0	512.21	102.4
19	Vanadium	2000.0	2000.62	100.0	2000.0	1992.40	99.6	2000.0	1965.96	98.3	2000.0	1983.11	99.2
20	Zinc	2000.0	2035.17	101.8	2000.0	2065.29	103.3	2000.0	2049.08	102.5	2000.0	2077.77	103.9
21	Molybdenum	2000.0	2026.92	101.3	2000.0	2041.62	102.1	2000.0	2040.81	102.0	2000.0	2060.78	103.0

(a) ICV Control Limit 95-105%; For Hg, 90-110%

(b) CCV Control Limit 90-110%; For Hg, 80-120%

FORM-2A Metal

Applied P & Ch Laboratory

Initial and Continuing Calibration Verification

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026141	Sequence No :	02M2368M
		Instrument:	ICP -M	Method:	6010B
Batch No (s):	02M2368				

Analysis Date: **11/21/02** Concentration Units: **UG/L**

#	Analyte	CCV True	15:43 Result	%R	CCV True	16:20 Result	%R	CCV True	16:43 Result	%R	CCV True	17:22 Result	%R
1	Aluminum	5000.0	5072.82	101.5	5000.0	5005.42	100.1	5000.0	5200.00	104.0	5000.0	5139.09	102.8
2	Antimony	2000.0	2064.61	103.2	2000.0	2038.87	101.9	2000.0	2038.84	101.9	2000.0	2034.37	101.7
3	Arsenic	500.0	523.94	104.8	500.0	513.16	102.6	500.0	515.71	103.1	500.0	514.54	102.9
4	Barium	5000.0	5144.60	102.9	5000.0	5133.76	102.7	5000.0	5168.05	103.4	5000.0	5173.60	103.5
5	Beryllium	500.0	520.80	104.2	500.0	508.03	101.6	500.0	510.28	102.1	500.0	511.14	102.2
6	Cadmium	1000.0	1059.48	105.9	1000.0	1028.51	102.9	1000.0	1055.83	105.6	1000.0	1045.18	104.5
7	Calcium	50000.0	52763.33	105.5	50000.0	50951.04	101.9	50000.0	52964.51	105.9	50000.0	52088.34	104.2
8	Chromium	500.0	505.49	101.1	500.0	503.45	100.7	500.0	520.24	104.0	500.0	514.35	102.9
9	Cobalt	2000.0	2124.94	106.2	2000.0	2065.47	103.3	2000.0	2130.11	106.5	2000.0	2106.62	105.3
10	Copper	2000.0	2097.00	104.8	2000.0	2062.94	103.1	2000.0	2069.59	103.5	2000.0	2068.02	103.4
11	Iron	5000.0	5030.69	100.6	5000.0	5090.12	101.8	5000.0	5228.01	104.6	5000.0	5239.46	104.8
12	Lead	500.0	508.62	101.7	500.0	506.52	101.3	500.0	509.34	101.9	500.0	508.13	101.6
13	Magnesium	25000.0	25983.36	103.9	25000.0	25720.14	102.9	25000.0	25851.86	103.4	25000.0	25864.11	103.5
14	Manganese	2000.0	2114.68	105.7	2000.0	2079.85	104.0	2000.0	2083.32	104.2	2000.0	2088.11	104.4
15	Nickel	2000.0	2130.58	106.5	2000.0	2055.64	102.8	2000.0	2122.17	106.1	2000.0	2103.88	105.2
16	Selenium	500.0	510.54	102.1	500.0	514.10	102.8	500.0	517.11	103.4	500.0	514.17	102.8
17	Silver	1000.0	1015.84	101.6	1000.0	1001.71	100.2	1000.0	1038.23	103.8	1000.0	1025.38	102.5
18	Thallium	500.0	512.90	102.6	500.0	517.10	103.4	500.0	515.33	103.1	500.0	516.24	103.2
19	Vanadium	2000.0	2006.83	100.3	2000.0	2004.28	100.2	2000.0	2074.43	103.7	2000.0	2047.00	102.4
20	Zinc	2000.0	2075.06	103.8	2000.0	2019.47	101.0	2000.0	2085.40	104.3	2000.0	2058.44	102.9
21	Molybdenum	2000.0	2064.44	103.2	2000.0	2021.42	101.1	2000.0	2101.20	105.1	2000.0	2073.80	103.7

(a) ICV Control Limit 95-105%; For Hg, 90-110%

(b) CCV Control Limit 90-110%; For Hg, 80-120%

FORM-2A Metal

Applied P & Ch Laboratory

Initial and Continuing Calibration Verification

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026141	Sequence No.:	02M2368M
		Instrument:	ICP -M	Method:	6010B
Batch No.(s):	02M2368				

Analysis Date: **11/21/02** Concentration Units: **UG/L**

#	Analyte	CCV True	18:16 Result	%R	True	Result	%R	True	Result	%R	True	Result	%R
1	Aluminum	5000.0	4973.20	99.5									
2	Antimony	2000.0	1979.78	99.0									
3	Arsenic	500.0	499.98	100.0									
4	Barium	5000.0	5026.36	100.5									
5	Beryllium	500.0	493.51	98.7									
6	Cadmium	1000.0	1005.77	100.6									
7	Calcium	50000.0	50489.67	101.0									
8	Chromium	500.0	492.92	98.6									
9	Cobalt	2000.0	2034.94	101.7									
10	Copper	2000.0	2009.70	100.5									
11	Iron	5000.0	5011.84	100.2									
12	Lead	500.0	492.71	98.5									
13	Magnesium	25000.0	25364.15	101.5									
14	Manganese	2000.0	2027.01	101.4									
15	Nickel	2000.0	2031.44	101.6									
16	Selenium	500.0	503.49	100.7									
17	Silver	1000.0	992.91	99.3									
18	Thallium	500.0	502.37	100.5									
19	Vanadium	2000.0	1971.82	98.6									
20	Zinc	2000.0	2028.26	101.4									
21	Molybdenum	2000.0	2005.12	100.3									

(a) ICV Control Limit 95-105%; For Hg, 90-110%

(b) CCV Control Limit 90-110%; For Hg, 80-120%

FORM-2A Metal

Applied P & Ch Laboratory

Initial and Continuing Calibration Verification

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026141	Sequence No.:	02M2384H
		Instrument:	CV -H	Method:	7471A
Batch No (s):	02M2384				

Analysis Date: **11/22/02** Concentration Units: **UG/L**

#	Analyte	ICV 12:16 True	Result	%R	CCV 12:39 True	Result	%R	CCV 13:01 True	Result	%R	CCV 13:59 True	Result	%R
1	Mercury	7.5	7.65	102.0	5.0	5.13	102.6	5.0	5.19	103.8	5.0	5.22	104.4

(a) ICV Control Limit 95-105%; For Hg, 90-110%

(b) CCV Control Limit 90-110%; For Hg, 80-120%

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FORM-2A Metal

Applied P & Ch Laboratory

Initial and Continuing Calibration Verification

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026141	Sequence No.:	02M2384H
		Instrument:	CV -H	Method:	7471A
Batch No (s):	02M2384				

Analysis Date: **11/22/02** Concentration Units: **UG/L**

#	Analyte	CCV 14:22			CCV 14:44			CCV 15:19			CCV 15:42		
		True	Result	%R	True	Result	%R	True	Result	%R	True	Result	%R
1	Mercury	5.0	5.06	101.2	5.0	5.09	101.9	5.0	5.25	105.1	5.0	4.90	98.0

(a) ICV Control Limit 95-105%; For Hg, 90-110%

(b) CCV Control Limit 90-110%; For Hg, 80-120%

FORM-2A Metal

Applied P & Ch Laboratory

Initial and Continuing Calibration Verification

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026141	Sequence No.:	02M2384H
		Instrument:	CV -H	Method:	7471A
Batch No (s):	02M2384				

Analysis Date: **11/22/02** Concentration Units: **UG/L**

#	Analyte	CCV 16:05 True	Result	%R	CCV 16:24 True	Result	%R	True	Result	%R	True	Result	%R
1	Mercury	5.0	4.90	98.0	5.0	4.88	97.6						

(a) ICV Control Limit 95-105%; For Hg, 90-110%

(b) CCV Control Limit 90-110%; For Hg, 80-120%

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FORM-2B Metal

Applied P & Ch Laboratory

CRDL Standard For AA and ICP

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026141	Sequence No.:	02M2368M
		Instrument:	ICP -M	Method:	6010B

Batch No (s): 02M2368

Analysis Date: **11/21/02**

Concentration Units: **UG/L**

#	Analyte	True	11:28 Found	R%	Time Found	R%
1	Aluminum	200.0	223.18	111.6		
2	Antimony	10.0	11.76	117.6		
3	Arsenic	10.0	11.91	119.1		
4	Barium	5.0	6.77	135.4		
5	Beryllium	2.0	2.23	111.5		
6	Cadmium	2.0	2.33	116.4		
7	Calcium	500.0	640.58	128.1		
8	Chromium	2.0	2.92	146.1		
9	Cobalt	20.0	26.14	130.7		
10	Copper	20.0	19.38	96.9		
11	Iron	50.0	26.70	53.4		
12	Lead	3.0	3.01	100.3		
13	Magnesium		7.65			
14	Manganese	10.0	11.06	110.6		
15	Nickel	40.0	48.68	121.7		
16	Selenium	5.0	4.42	88.4		
17	Silver	10.0	10.66	106.6		
18	Thallium	10.0	10.57	105.7		
19	Vanadium	10.0	11.82	118.2		
20	Zinc	20.0	23.45	117.2		
21	Molybdenum	20.0	23.06	115.3		

FORM-3 Metal

Applied P & Ch Laboratory

Metal ICB/CCB Summary

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026141	Sequence No.:	02M2368M
		Instrument:	ICP -M	Method:	6010B
Batch No.(s):	02M2368				

Analysis Date: **11/21/02**

Concentration Units: **UG/L**

#	Analyte	ICB Result	11:25 C	CCB Result	11:43 C	CCB Result	12:25 C	CCB Result	13:00 C	CCB Result	13:22 C
1	Aluminum	5.60	U	5.60	U	5.60	U	5.60	U	8.12	B
2	Antimony	2.30	U	2.30	U	2.39	B	2.30	U	2.30	U
3	Arsenic	1.60	U	1.60	U	1.60	U	1.60	U	1.60	U
4	Barium	0.38	U	0.38	U	0.43	B	0.38	U	0.38	U
5	Beryllium	0.15	B	0.14	B	0.13	B	0.10	B	0.13	B
6	Cadmium	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U
7	Calcium	-427.32	B	173.00	U	-184.28	B	173.00	U	258.69	B
8	Chromium	0.64	B	0.66	B	0.59	B	0.88	B	0.41	U
9	Cobalt	1.57	B	0.68	B	1.30	B	0.99	B	0.77	B
10	Copper	0.80	U	0.80	U	0.82	B	0.80	U	0.80	U
11	Iron	-27.74	B	-14.96	B	-15.45	B	5.25	B	28.91	B
12	Lead	0.70	U	0.70	U	0.70	U	0.70	U	-0.89	B
13	Magnesium	17.00	U	86.78	B	17.00	U	17.00	U	17.00	U
14	Manganese	0.34	B	0.34	U	0.40	B	0.36	B	0.76	B
15	Nickel	2.27	B	3.06	B	3.20	B	2.25	B	2.52	B
16	Selenium	2.80	U	2.80	U	2.80	U	2.80	U	-2.85	B
17	Silver	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U
18	Thallium	1.50	U	1.91	B	1.50	U	1.50	U	1.50	U
19	Vanadium	0.60	B	0.90	B	0.68	B	0.89	B	1.26	B
20	Zinc	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U
21	Molybdenum	0.27	U	0.27	U	0.45	B	0.27	U	0.27	U

FORM-3 Metal

Applied P & Ch Laboratory

Metal ICB/CCB Summary

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026141	Sequence No.:	02M2368M
		Instrument:	ICP -M	Method:	6010B

Batch No.(s): 02M2368

Analysis Date: **11/21/02** Concentration Units: **UG/L**

#	Analyte	CCB Result	13:57 C	CCB Result	14:35 C	CCB Result	15:05 C	CCB Result	15:47 C	CCB Result	16:23 C
1	Aluminum	12.31	B	15.41	B	14.55	B	10.97	B	6.53	B
2	Antimony	2.30	U	2.30	U	2.30	U	2.30	U	2.30	U
3	Arsenic	1.60	U	1.60	U	1.60	U	1.60	U	1.60	U
4	Barium	0.70	B	0.66	B	0.38	U	0.56	B	0.65	B
5	Beryllium	0.19	B	0.21	B	0.13	B	0.24	B	0.19	B
6	Cadmium	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U
7	Calcium	173.00	U	173.00	U	173.00	U	-176.92	B	173.00	U
8	Chromium	0.57	B	0.76	B	0.41	U	0.41	U	0.59	B
9	Cobalt	1.89	B	1.13	B	0.46	U	1.16	B	0.64	B
10	Copper	0.92	B	0.80	U	0.80	U	0.94	B	0.80	U
11	Iron	9.99	B	-6.57	B	4.80	U	-24.71	B	16.60	B
12	Lead	0.70	U	0.70	U	0.70	U	0.70	U	0.70	U
13	Magnesium	17.00	U	17.00	U	-27.73	B	-32.43	B	-36.78	B
14	Manganese	0.98	B	0.55	B	0.45	B	0.58	B	0.72	B
15	Nickel	3.40	B	1.49	B	0.79	U	1.68	B	1.92	B
16	Selenium	2.80	U	2.80	U	2.80	U	-5.34	B	-2.82	B
17	Silver	0.42	U	0.42	U	0.42	U	0.42	U	0.68	B
18	Thallium	1.50	U	1.50	U	1.50	U	1.54	B	1.76	B
19	Vanadium	0.71	B	1.19	B	1.22	B	1.42	B	1.03	B
20	Zinc	3.60	B	2.53	B	2.10	U	2.10	U	2.64	B
21	Molybdenum	0.90	B	0.84	B	0.29	B	0.76	B	0.66	B

FORM-3 Metal

Applied P & Ch Laboratory

Metal ICB/CCB Summary

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026141	Sequence No.:	02M2368M
		Instrument:	ICP -M	Method:	6010B
Batch No.(s):	02M2368				

Analysis Date: **11/21/02** Concentration Units: **UG/L**

#	Analyte	CCB Result	16:47 C	CCB Result	17:25 C	CCB Result	18:21 C	CCB Result	Time C	CCB Result	Time C
1	Aluminum	5.60	U	5.60	U	6.91	B				
2	Antimony	2.30	U	2.30	U	2.30	U				
3	Arsenic	1.60	U	1.60	U	1.60	U				
4	Barium	0.70	B	0.92	B	0.38	U				
5	Beryllium	0.20	B	0.20	B	0.09	B				
6	Cadmium	0.21	U	0.21	U	0.21	U				
7	Calcium	-187.67	B	-196.72	B	-224.63	B				
8	Chromium	0.41	U	0.41	U	0.75	B				
9	Cobalt	0.51	B	1.05	B	0.46	U				
10	Copper	0.80	U	0.80	U	1.47	B				
11	Iron	4.80	U	18.85	B	-5.70	B				
12	Lead	0.70	U	0.70	U	0.70	U				
13	Magnesium	-33.68	B	-45.26	B	17.00	U				
14	Manganese	0.57	B	0.77	B	0.34	U				
15	Nickel	1.59	B	2.20	B	1.86	B				
16	Selenium	-4.75	B	-3.30	B	2.80	U				
17	Silver	0.44	B	0.42	U	0.42	U				
18	Thallium	1.98	B	2.45	B	1.83	B				
19	Vanadium	0.73	B	0.99	B	1.01	B				
20	Zinc	2.10	U	2.10	U	4.94	B				
21	Molybdenum	0.62	B	0.65	B	0.27	U				

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FORM-3 Metal

Applied P & Ch Laboratory

Metal ICB/CCB Summary

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026141	Sequence No.:	02M2384H
		Instrument:	CV -H	Method:	7471A

Batch No.(s): 02M2384

Analysis Date: **11/22/02**

Concentration Units: **UG/L**

#	Analyte	ICB Result	12:17 C	CCB Result	12:40 C	CCB Result	13:03 C	CCB Result	14:01 C	CCB Result	14:24 C
1	Mercury	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U

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FORM-3 Metal

Applied P & Ch Laboratory

Metal ICB/CCB Summary

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026141	Sequence No.:	02M2384H
		Instrument:	CV -H	Method:	7471A
Batch No (s):	02M2384				

Analysis Date: **11/22/02**

Concentration Units: **UG/L**

#	Analyte	CCB Result	14:46 C	CCB Result	15:21 C	CCB Result	15:44 C	CCB Result	16:07 C	CCB Result	16:26 C
1	Mercury	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U

FORM-4 Metal

Applied P & Ch Laboratory

ICP Interference Check Sample

Client Name: CDM Federal Programs Corp
Project Name: San Miguel Island

Project No:
Service ID: 026141
ICP ID Number: ICP -M

Lab Code: APCL
Sequence No.: 02M2368M

Batch No (s): 02M2368

Analysis Date: **11/21/02**

Concentration Units: **UG/L**

#	Analyte	Expected Sol. A	Expected Sol. AB	Initial 11:31 Sol. A	Found 11:34 Sol. AB	%R	Final 18:09 Sol. A	Found 18:12 Sol. AB	%R
1	Aluminum	500000	500000	493587	481459.2	96.3	514101	487876.8	97.6
2	Antimony	0	1000	2	957.5	95.7	2	986.6	98.7
3	Arsenic	0	1000	1	949.0	94.9	-5	975.3	97.5
4	Barium	0	500	4	519.8	104.0	4	529.0	105.8
5	Beryllium	0	500	0	481.1	96.2	0	497.8	99.6
6	Cadmium	0	1000	0	967.6	96.8	-1	998.7	99.9
7	Calcium	500000	500000	522495	504931.5	101.0	544079	523150.5	104.6
8	Chromium	0	500	4	499.4	99.9	4	507.1	101.4
9	Cobalt	0	500	4	467.0	93.4	4	480.8	96.2
10	Copper	0	500	1	491.1	98.2	7	514.7	102.9
11	Iron	200000	200000	185078	181986.7	91.0	191047	183511.5	91.8
12	Lead	0	1000	2	918.2	91.8	4	950.5	95.0
13	Magnesium	500000	500000	485792	474032.8	94.8	504296	481002.4	96.2
14	Manganese	0	500	0	486.0	97.2	0	502.3	100.5
15	Nickel	0	1000	5	904.0	90.4	1	931.2	93.1
16	Selenium	0	1000	-6	945.5	94.6	8	981.4	98.1
17	Silver	0	1000	-2	1014.7	101.5	-3	1036.8	103.7
18	Thallium	0	1000	0	888.4	88.8	5	916.7	91.7
19	Vanadium	0	500	-3	482.5	96.5	-2	490.1	98.0
20	Zinc	0	1000	-4	953.2	95.3	9	1006.8	100.7
21	Molybdenum	0	1000	2	936.7	93.7	1	967.1	96.7

FORM-5A Metal

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 6010B

Client Name:	CDM Federal Programs Corp	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	026141
Project ID:	San Miguel Island	Project No:		Sample Matrix:	Soil
		Batch No:	02M2368M		
MS Filename:	-	Date Analyzed:	112102	Time Analyzed:	12:09
MSD Filename:	-	Date Analyzed:	112102	Time Analyzed:	12:12
MS Sample No:	**SMI-001-RSS**	Sample Lab ID:	0261411	Moisture, %	5 4

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
ANTIMONY	mg/kg	26.4	0	23.8	90	75-125
ARSENIC	mg/kg	26.4	2.0	27.6	97	75-125
BERYLLIUM	mg/kg	10 6	0.033	9.86	93	75-125
CADMIUM	mg/kg	13 2	0.13	13.0	98	75-125
CHROMIUM	mg/kg	52.9	6 7	56 6	94	75-125
COPPER	mg/kg	52.9	1 8	51 2	93	75-125
LEAD	mg/kg	159	2.2	145	90	75-125
NICKEL	mg/kg	52.9	3.0	50.4	90	75-125
SELENIUM	mg/kg	26.4	0	26.2	99	75-125
SILVER	mg/kg	52 9	0	53.6	101	75-125
THALLIUM	mg/kg	26.4	0.63	24 0	89	75-125
ZINC	mg/kg	26.4	7 5	32 2	94	75-125
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
ANTIMONY	mg/kg	26 4	23 8	90	0	20	75-125
ARSENIC	mg/kg	26.4	27 4	96	1	20	75-125
BERYLLIUM	mg/kg	10.6	10 1	95	2	20	75-125
CADMIUM	mg/kg	13.2	12.9	97	1	20	75-125
CHROMIUM	mg/kg	52.9	55.9	93	1	20	75-125
COPPER	mg/kg	52 9	51.1	93	0	20	75-125
LEAD	mg/kg	159	144	89	1	20	75-125
NICKEL	mg/kg	52 9	50 1	89	1	20	75-125
SELENIUM	mg/kg	26.4	26 0	98	1	20	75-125
SILVER	mg/kg	52 9	53.1	100	1	20	75-125
THALLIUM	mg/kg	26.4	23.9	88	1	20	75-125
ZINC	mg/kg	26.4	31.9	92	2	20	75-125
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

FORM-5A Metal

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 7471A

Client Name:	CDM Federal Programs Corp.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	026141
Project ID:	San Miguel Island	Project No:		Sample Matrix:	Soil
		Batch No:	02M2384H		
MS Filename:	-	Date Analyzed:	112202	Time Analyzed:	12:31
MSD Filename:	-	Date Analyzed:	112202	Time Analyzed:	12:33
MS Sample No:	**SMI-001-RSS**	Sample Lab ID:	0261411	Moisture, %	5.4

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
MERCURY	mg/kg	0.880	0.030	0.861	94	75-125
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
MERCURY	mg/kg	0.880	0.872	96	2	20	75-125
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

FORM-5B Metal

Applied P & Ch Laboratory

Post Digest Spike Sample Recovery

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026141	Sequence No.:	02M2368M
		Batch No.:	02M2368	Method:	6010B
Spike Sample No. :	02-6141-01	Matrix:	SOIL	Instrument:	ICP -M
Client Sample No.:	**SMI-001-RSS**	Analysis Date:	11/21/02		

Concentration Units: **UG/L**

#	Analyte	Spiked Sample Result(SSR)	12:16 C	Sample Result(SR)	11:58 C	Spike Added(SA)	% Rec.	Control Limit	Q
1	Aluminum	57142.2500		58095.1797		2000.00	-47.6		
2	Antimony	468.5650		1.1420	U	500.00	93.7	75-125	
3	Arsenic	526.9647		38.5809		500.00	97.7	75-125	
4	Barium	4257.9590		483.3049		4000.00	94.4	75-125	
5	Beryllium	189.9517		0.6329	B	200.00	94.7	75-125	
6	Cadmium	241.7655		2.4131	B	250.00	95.7	75-125	
7	Calcium	2531131.2500		2634946.0000		20000.00	-519.1		
8	Chromium	1043.2484		126.7029		1000.00	91.7	75-125	
9	Cobalt	933.2710		28.0063		1000.00	90.5	75-125	
10	Copper	956.8546		33.9743		1000.00	92.3	75-125	
11	Iron	61692.6406		64035.9766		1000.00	-234.3		
12	Lead	2694.2432		42.4445		3000.00	88.4	75-125	
13	Magnesium	69799.3672		63766.9258		10000.00	60.3		
14	Manganese	2321.6467		1467.7345		1000.00	85.4	75-125	
15	Nickel	937.0964		56.9893		1000.00	88.0	75-125	
16	Selenium	496.1582		1.7435	U	500.00	99.2	75-125	
17	Silver	990.7896		-0.4802	U	1000.00	99.1	75-125	
18	Thallium	460.3746		11.9026		500.00	89.7	75-125	
19	Vanadium	2019.3168		123.6393		2000.00	94.8	75-125	
20	Zinc	595.2456		140.9947		500.00	90.9	75-125	
21	Molybdenum	1872.6892		-1.6241	U	2000.00	93.6	75-125	

FORM-5B Metal

Applied P & Ch Laboratory

Post Digest Spike Sample Recovery

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026141	Sequence No.:	02M2384H
		Batch No :	02M2384	Method:	7471A
Spike Sample No. :	02-6141-01	Matrix:	SOIL	Instrument:	CV -H
Client Sample No.:	**SMI-001-RSS**	Analysis Date:	11/22/02		

Concentration Units: **UG/L**

#	Analyte	Spiked Sample Result(SSR)	12:35 C	Sample Result(SR)	12:25 C	Spike Added(SA)	% Rec.	Control Limit	Q
1	Mercury	5.0448		0.1691	B	5.00	97.6	75-125	

11741

FORM-6 Metal

Applied P & Ch Laboratory

Duplicates Verification

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026141	Sequence No :	02M2368M
		Batch No.:	02M2368	Method:	6010B
Spike Sample No.	02-6141-01	Matrix:	SOIL	Instrument:	ICP -M
Client Sample No.	**SMI-001-RSS**	% Solid:	94.56	Analysis Date:	11/21/02

Concentration Unit: **mg/Kg**

#	Analyte	11:58 Sample(s)	C	12:02 Duplicate	C	RPD(%)	Q
1	Aluminum	3071.8687		3047.6946		0.8	
2	Antimony	0.0604	U	0.0834	U		
3	Arsenic	2.0400		1.9752		3.2	
4	Barium	25.5555		25.4348		0.5	
5	Beryllium	0.0335	B	0.0296	B	12.4	
6	Cadmium	0.1276	B	0.1245	B	2.4	
7	Calcium	139326.6719		138771.8594		0.4	
8	Chromium	6.6996		6.6429		0.8	
9	Cobalt	1.4809		1.4536		1.9	
10	Copper	1.7964		1.7585		2.1	
11	Iron	3385.9971		3366.7939		0.6	
12	Lead	2.2443		2.2319		0.6	
13	Magnesium	3371.7705		3358.7356		0.4	
14	Manganese	77.6086		77.3984		0.3	
15	Nickel	3.0134		2.9391		2.5	
16	Selenium	0.0922	U	0.1004	U		
17	Silver	-0.0254	U	-0.0608	U		
18	Thallium	0.6294		0.6471		2.8	
19	Vanadium	6.5376		6.4422		1.5	
20	Zinc	7.4553		7.5046		0.7	
21	Molybdenum	-0.0859	U	-0.1726	U		

FORM-6 Metal

Applied P & Ch Laboratory

Duplicates Verification

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026141	Sequence No.:	02M2384H
		Batch No.:	02M2384	Method:	7471A
Spike Sample No.	02-6141-01	Matrix:	SOIL	Instrument:	CV -H
Client Sample No.	SMI-001-RSS	% Solid:	94.56	Analysis Date:	11/22/02

Concentration Unit: **mg/Kg**

#	Analyte	12:25 Sample(s)	C	12:27 Duplicate	C	RPD(%)	Q
1	Mercury	0.0298	B	0.0292	B	2.1	

FORM-9 Metal

Applied P & Ch Laboratory

ICP Serial Dilutions

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026141	Sequence No.:	02M2368M
		Batch No.:	02M2368	Method:	6010B
Dilution Sample No.:	02-6141-01	Matrix:	SOIL	Instrument:	ICP -M
Client Sample No.:	**SMI-001-RSS**	Analysis Date:	11/21/02		

Concentration Units: **UG/L**

#	Analyte	Initial Sample Results(I)	11:58 C	Serial Dilut Results(S)	12:05 C	% Diff.	Q
1	Aluminum	58095.18		58699.17		1.0	
2	Antimony	1.14	U	9.51	U		
3	Arsenic	38.58		21.41	B	44.5	
4	Barium	483.30		517.72		7.1	
5	Beryllium	0.63	B	0.68	B	7.6	
6	Cadmium	2.41	B	2.13	B	11.9	
7	Calcium	2634946.00		2664692.25		1.1	
8	Chromium	126.70		135.44		6.9	
9	Cobalt	28.01		35.39	B	26.4	E
10	Copper	33.97		36.31	B	6.9	
11	Iron	64035.97		69700.53		8.8	
12	Lead	42.44		38.04		10.4	
13	Magnesium	63766.93		69063.05		8.3	
14	Manganese	1467.73		1582.33		7.8	
15	Nickel	56.99		73.95		29.8	E
16	Selenium	1.74	U	-8.83	U		
17	Silver	-0.48	U	-1.90	U		
18	Thallium	11.90		9.70	B	18.5	
19	Vanadium	123.64		126.15		2.0	
20	Zinc	140.99		149.00		5.7	
21	Molybdenum	-1.62	U	-3.01	U		

FORM-9 Metal

Applied P & Ch Laboratory

ICP Serial Dilutions

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026141	Sequence No.:	02M2384H
		Batch No.:	02M2384	Method:	7471A
Dilution Sample No.:	02-6141-01	Matrix:	SOIL	Instrument:	CV -H
Client Sample No.:	**SMI-001-RSS**	Analysis Date:	11/22/02		

Concentration Units: **UG/L**

#	Analyte	Initial Sample Results(I)	12:25 C	Serial Dilut Results(S)	12:29 C	% Diff.	Q
1	Mercury	0.17	B	0.18	B	8.3	

FORM-14 Metal

Applied P & Ch Laboratory

Analysis Run Log

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026141	Sequence No.:	02M2384H MM
		Instrument:	CV -H	Method:	7471A
Batch No.(s):	02M2384	Start Date:	11/22/02	End Date:	11/22/02

#	APCL Sample No.	D/F	Time	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Hg Ni K Se Ag Na Tl V Zn Mo Sr Ti Sn Li B Si
1	Calib Blank	1.00	11:21	√
2	A1411 0.2PPB	1.00	11:23	√
3	A1411 1PPB	1.00	11:25	√
4	A1411 5PPB	1.00	11:27	√
5	A1411 7.5PPB	1.00	11:28	√
6	A1411 10PPB	1.00	11:30	√
7	ICV A1412	1.00	12:16	√
8	ICB	1.00	12:17	√
9	M-BL 02M2384S	1.00	12:19	√
10	LCS-02M2384	1.00	12:21	√
11	LCSD-02M2384	1.00	12:23	√
12	6141-1 S F=166.	1.00	12:25	√
13	6141-1 D F=166.	1.00	12:27	√
14	6141-1 1/5 F=83	5.00	12:29	√
15	6141-1 MS F=166	1.00	12:31	√
16	6141-1 MSD F=16	1.00	12:33	√
17	6141-1 PS F=166	1.00	12:35	√
18	6141-2 F=166.7	1.00	12:37	√
19	CCV A1413	1.00	12:39	√
20	CCB	1.00	12:40	√
21	6141-3 F=166.7	1.00	12:42	√
22	6141-4 F=166.7	1.00	12:44	√
23	6141-5 F=166.7	1.00	12:46	√
24	6141-6 F=166.7	1.00	12:48	√
25	6141-7 F=166.7	1.00	12:50	√
26	6141-8 F=166.7	1.00	12:52	√
27	6141-9 F=166.7	1.00	12:54	√
28	6141-10 F=166.7	1.00	12:56	√
29	6141-11 F=166.7	1.00	12:58	√
30	6141-12 F=166.7	1.00	13:00	√
31	CCV A1413	1.00	13:01	√
32	CCB	1.00	13:03	√
33	6141-13 F=166.7	1.00	13:05	√
34	6141-14 F=166.7	1.00	13:07	√
35	6141-15 F=166.7	1.00	13:09	√
36	6219-1 F=166.7	1.00	13:11	√
37	6252-5 F=166.7	1.00	13:13	√
38	6252-6 F=166.7	1.00	13:15	√
39	CCV A1413	1.00	13:59	√
40	CCB	1.00	14:01	√

FORM-14 Metal

Applied P & Ch Laboratory

Analysis Run Log

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026141	Sequence No :	02M2384H
		Instrument:	CV -H	Method:	7471A
Batch No (s):	02M2384	Start Date:	11/22/02	End Date:	11/22/02

#	APCL Sample No.	D/F	Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Mo	Sr	Ti	Sn	Li	B	Si
41	M-BL 02M2385S	1.00	14:02															√															
42	LCS-02M2385	1.00	14:04															√															
43	LCSD-02M2385	1.00	14:06															√															
44	6149-1 S F=166.	1.00	14:08															√															
45	6149-1 D F=166.	1.00	14:10															√															
46	6149-1 1/5 F=83	5.00	14:12															√															
47	6149-1 MS F=166	1.00	14:14															√															
48	6149-1 MSD F=16	1.00	14:16															√															
49	6149-1 PS F=166	1.00	14:18															√															
50	6149-2 F=166.7	1.00	14:20															√															
51	CCV A1413	1.00	14:22															√															
52	CCB	1.00	14:24															√															
53	6149-3 F=166.7	1.00	14:25															√															
54	6149-4 F=166.7	1.00	14:27															√															
55	6149-5 F=166.7	1.00	14:29															√															
56	6149-6 F=166.7	1.00	14:31															√															
57	6149-7 F=166.7	1.00	14:33															√															
58	6149-8 F=166.7	1.00	14:35															√															
59	6149-9 F=166.7	1.00	14:37															√															
60	6149-10 F=166.7	1.00	14:39															√															
61	6149-11 F=166.7	1.00	14:41															√															
62	6149-12 F=166.7	1.00	14:43															√															
63	CCV A1413	1.00	14:44															√															
64	CCB	1.00	14:46															√															
65	6149-13 F=166.7	1.00	14:48															√															
66	6149-14 F=166.7	1.00	14:50															√															
67	6149-15 F=166.7	1.00	14:52															√															
68	6149-16 F=166.7	1.00	14:54															√															
69	6252-1 F=166.7	1.00	14:56															√															
70	6252-2 F=166.7	1.00	14:58															√															
71	6252-3 F=166.7	1.00	15:00															√															
72	6252-4 F=166.7	1.00	15:02															√															
73	CCV A1413	1.00	15:19															√															
74	CCB	1.00	15:21															√															
75	M-BL 02M2386S	1.00	15:23															√															
76	LCS-02M2386	1.00	15:25															√															
77	LCSD-02M2386	1.00	15:27															√															
78	6148-1 S F=166.	1.00	15:29															√															
79	6148-1 D F=166.	1.00	15:31															√															
80	6148-1 1/5 F=83	5.00	15:32															√															

FORM-14 Metal

Applied P & Ch Laboratory

Analysis Run Log

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026141	Sequence No :	02M2384H
		Instrument:	CV -H	Method:	7471A
Batch No (s):	02M2384	Start Date:	11/22/02	End Date:	11/22/02

#	APCL Sample No.	D/F	Time	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Hg Ni K Se Ag Na Tl V Zn Mo Sr Ti Sn Li B Si
81	6148-1 MS F=166	1.00	15:34	√
82	6148-1 MSD F=16	1.00	15:36	√
83	6148-1 PS F=166	1.00	15:38	√
84	6148-2 F=166.7	1.00	15:40	√
85	CCV A1413	1.00	15:42	√
86	CCB	1.00	15:44	√
87	6148-3 F=166.7	1.00	15:46	√
88	6148-4 F=166.7	1.00	15:48	√
89	6148-5 F=166.7	1.00	15:50	√
90	6148-6 F=166.7	1.00	15:52	√
91	6148-7 F=166.7	1.00	15:54	√
92	6148-8 F=166.7	1.00	15:55	√
93	6148-9 F=166.7	1.00	15:57	√
94	6148-10 F=166.7	1.00	15:59	√
95	6148-11 F=166.7	1.00	16:01	√
96	6148-12 F=166.7	1.00	16:03	√
97	CCV A1413	1.00	16:05	√
98	CCB	1.00	16:07	√
99	6148-13 F=166.7	1.00	16:09	√
100	6148-14 F=166.7	1.00	16:10	√
101	6148-15 F=166.7	1.00	16:12	√
102	6269-1 F=166.7	1.00	16:14	√
103	6284-1 F=166.7	1.00	16:16	√
104	6284-2 F=166.7	1.00	16:18	√
105	6284-3 F=166.7	1.00	16:20	√
106	6284-4 F=166.7	1.00	16:22	√
107	CCV A1413	1.00	16:24	√
108	CCB	1.00	16:26	√

[illegible]lied P & Ch Laboratory
[illegible] Magnolia Ave. Chino CA 91710
[illegible]) 590-1828 Fax: (909) 590-1498

Digest-058

Metal Digestion (3010/3050) Worksheet

[illegible] DM 2368 Matrix: S Method used: 3050 Date: 11/21/02 Digested by: CC Diluted by: _____

[illegible] ASTM Type I water RW1386 HNO_3 1102020 H_2SO_4 _____ HCl 4102020 H_2O_2 012600

[illegible] #	Type	Samp ID /Lot #	X (g or mL)	$V_{digest}/X = f_1$	$V_f/V_i = f_2$	$V_f'/V_i' = f_3$	$F=f_1f_2f_3$	Note
[illegible]	Method Blank	Bl. Lot: 138-12	2.00	100/X= 50	/ =	/ =		TCLP
2484	LCS1	Bl. Lot: "	1.99	/X=	/ =	/ =		T=95°C
2485	Sample-1	6141-1	1.99	/X=	/ =	/ =		
2486	MS1 on S-1	-1	2.00	/X=	/ =	/ =		
2487	MS2 on S-1	-1	2.00	/X=	/ =	/ =		
2488	Sample 2	-2	2.01	/X=	/ =	/ =		
2489	Sample 3	-3	2.00	/X=	/ =	/ =		
2490	Sample 4	-4	2.00	/X=	/ =	/ =		
2491	Sample 5	-5	2.00	/X=	/ =	/ =		
2492	Sample 6	-6	2.01	/X=	/ =	/ =		
2493	Sample 7	-7	2.00	/X=	/ =	/ =		
2494	Sample 8	-8	1.99	/X=	/ =	/ =		
2495	Sample 9	-9	1.99	/X=	/ =	/ =		
2496	Sample 10	-10	2.00	/X=	/ =	/ =		
2497	LCS2	Bl. Lot: 138-12	2.00	/X=	/ =	/ =		
2498	Sample 11	-11	1.99	/X=	/ =	/ =		
2499	Sample 12	-12	1.99	/X=	/ =	/ =		
2500	Sample 13	-13	2.00	/X=	/ =	/ =		
2501	Sample 14	-14	2.00	/X=	/ =	/ =		
2502	Sample 15	-15	2.00	/X=	/ =	/ =		
2503	Sample 16			/X=	/ =	/ =		
2504	Sample 17			/X=	/ =	/ =		
2505	Sample 18			/X=	/ =	/ =		
2506	Sample 19	CC	11/21/02	/X=	/ =	/ =		
2507	Sample 20			/X=	/ =	/ =		
2508	Duplicate	6141-1	2.00	100/X= 50	/ =	/ =		

Specification of matrix spike and lab control spike

QC Type	Spiked Element *	Spike Stock Solution Lot #	Spike Stock (Rep.) Conc. C_s, µg/mL	Spike Stock Volum Used V_s mL	Spike Level $T'=C_sV_s/V$ ppm or mg/L	Sample Spike T, ppm
MS1	/AsSe/Sb/M_{20}	AA- /AA- /AA- /AA- 1376	/ / / 25	/ / / 4	/ / / 1	
MS2	/AsSe/Sb/M_{20}	AA- /AA- /AA- /AA- "	/ / /	/ / /	/ / /	
LCS1	/AsSe/Sb/M_{20}	AA- /AA- /AA- /AA- 1399	/ / /	/ / /	/ / /	
LCS2	/AsSe/Sb/M_{20}	AA- /AA- /AA- /AA- "	/ / /	/ / /	/ / /	

* Notation: T – rep. sample spike level T' – digest solution spike level $T=f\,T'=C_sV_s/X$ M20 (or Mj) represents 20 (or j) metals, (see STD logbook).
If digest needs dilution for different metals use dilution worksheet.

APCL form 6-116 April 03, 1996. Ver. 4.0 No pencil. Use blue pen for record. Use red pen for correction.
Root File:[CUST.DOC.AA]DIGEST_ROOT.TEX File:[CUST.DOC.AA]DIGEST.TEX

Supervisor Initial [illegible]

11755

Applied P & Ch Laboratory
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Mercury Digestion (7470/7471) Worksheet

Batch # 02M2384 Matrix: S Date: 11 / 22 / 02 Digested by: L.L. Diluted by: _____

Lot #: ASTM Type I water RW1386 HNO_3 020040 H_2SO_4 _____ HCl 020020 $KMnO_4$ A1308

OP #	Type	SID Lot #	$C_{std} \times V_{std}/V_f = C_i$	OP #	Type	SID Lot #	$C_{std} \times V_{std}/V_f = C_i$
1130	STD-1	AA- 1411	200 × 0 / 100 = ~~0.0~~ 0.5 µg/L	1134	STD-5	AA- 1411	200 × 2.5 / 100 = 5.0 µg/L
1131	STD-2	AA- ↓	↓ × 3.75 / ↓ = ~~0.5~~ 7.5 µg/L	1135	STD-6	AA- ↓	↓ × 5 / ↓ = 10.0 µg/L
1132	STD-3	AA-	× 0.5 / = 1.0 µg/L	1136	STD-7	AA-	× / = µg/L
1133	STD-4	AA- ↓	↓ × 0.1 / ↓ = ~~2.0~~ 0.2 µg/L	1137	STD-8	AA-	× / = µg/L

OP #	Type	Samp ID / Lot #	X (g or mL)	$V_{digest}/X = f_1$	$V_f/V_i = f_2$	$V_f'/V_i' = f_3$	$F = f_1 f_2 f_3$	Note
1138	Method Blank	Bl. Lot: BS-12	0.59	100.0/X= 166.7	/ =	/ =		begin: 10:00 end: 10:35
1139	LCS1	Bl. Lot: ↓	0.60	100.0/X=	/ =	/ =		95°C 35 Min
1140	Sample-1	6141-1	0.60	100.0/X=	/ =	/ =		
1141	MS1 on S-1	↓	0.60	100.0/X=	/ =	/ =		
1142	MS2 on S-1	↓	0.61	100.0/X=	/ =	/ =		
1143	Sample 2	2	0.59	100.0/X=	/ =	/ =		
1144	Sample 3	3	0.61	100.0/X=	/ =	/ =		
1145	Sample 4	4	0.61	100.0/X=	/ =	/ =		
1146	Sample 5	5	0.60	100.0/X=	/ =	/ =		
1147	Sample 6	6	0.61	100.0/X=	/ =	/ =		
1148	Sample 7	7	0.59	100.0/X=	/ =	/ =		
1149	Sample 8	8	0.60	100.0/X=	/ =	/ =		
1150	Sample 9	9	0.60	100.0/X=	/ =	/ =		
1151	Sample 10	10	0.61	100.0/X=	/ =	/ =		
1152	LCS2	Bl. Lot: BS-12	0.61	100.0/X=	/ =	/ =		
1153	Sample 11	6141-11	0.59	100.0/X=	/ =	/ =		
1154	Sample 12	12	0.60	100.0/X=	/ =	/ =		
1155	Sample 13	13	0.60	100.0/X=	/ =	/ =		
1156	Sample 14	14	0.60	100.0/X=	/ =	/ =		
1157	Sample 15	15	0.60	100.0/X=	/ =	/ =		
1158	Sample 16	6219-1	0.61	100.0/X=	/ =	/ =		
1159	Sample 17	6252-5	0.61	100.0/X=	/ =	/ =		
1160	Sample 18	6	0.60	100.0/X= ↓	/ =	/ =		
1161	Sample 19	11-12-02 L.L.		100.0/X=	/ =	/ =		
1162	Sample 20			100.0/X=	/ =	/ =		
1163	Duplicate	6141-1	0.60	100.0/X= 166.7	/ =	/ =		

MS/MSD Specification

Op #	STD Lot #	$C_{STD}(\mu g/L) \times V_{STD}(mL)/X(g \text{ or } mL) = T$
1141	AA- 1409	5000 × 0.1 / X = 833.3 ppb
1142	AA- ↓	↓ × ↓ / X = ↓ ppb

LCS/LCSD Specification

Op #	STD Lot #	$C_{STD}(\mu g/L) \times V_{STD}(mL)/X(g \text{ or } mL) = T$
1139	AA- 1410	5000 × 0.1 / X = 833.3 ppb
1152	AA- ↓	↓ × ↓ / X = ↓ ppb

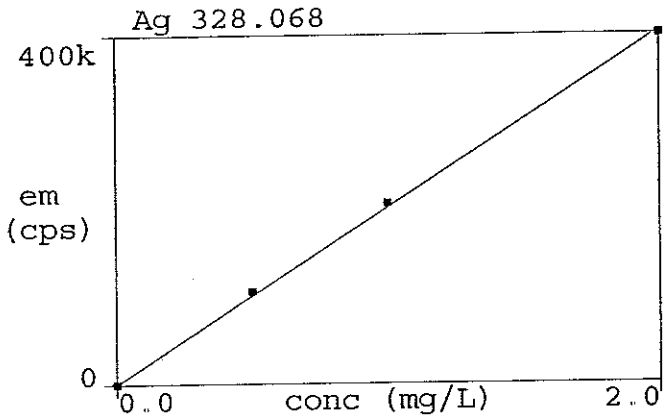
Example-File:[CUST.DOC AA]HG1.TEX Seed-File:[ ]CAL_HG.TEX BODY_HG.TEX MSD_HG.TEX Root-File:[ ]HG_ROOT.TEX File:HG1.TEX
APCL form 6-110 Aug. 31, 1994 Ver. 3.0 No pencil Use blue pen for record Use red pen for correction

Supervisor Initial [illegible]

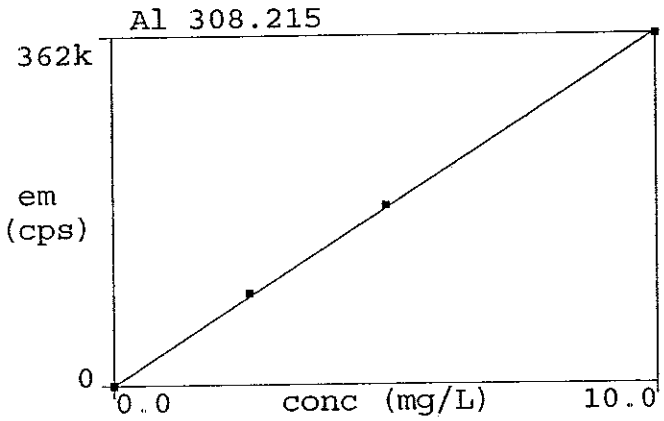
11756

Calibration

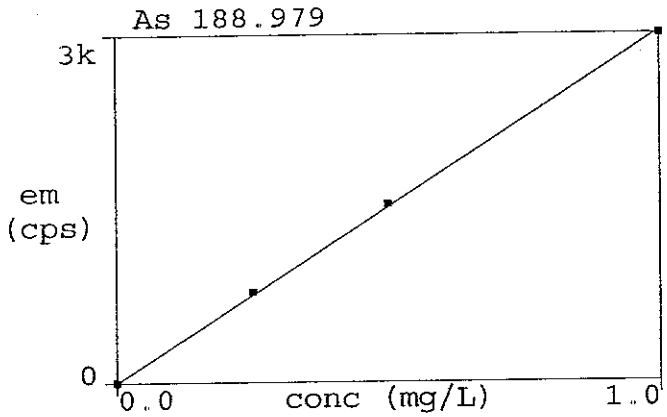
Method: TTLC
Result: 02M2368M



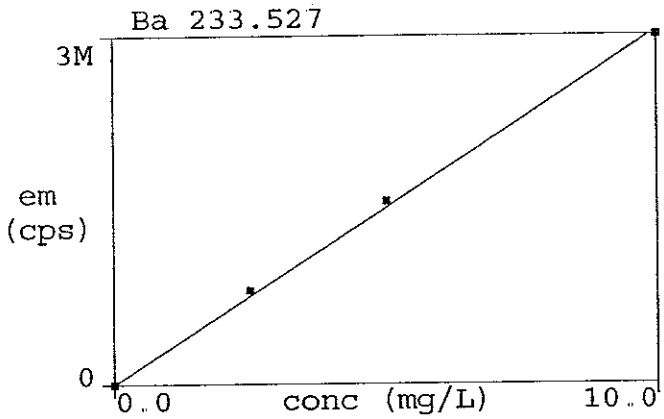
Calib.Eq'n: Linear-thru-Zero
1 Corr. Coeff.: 0.9996



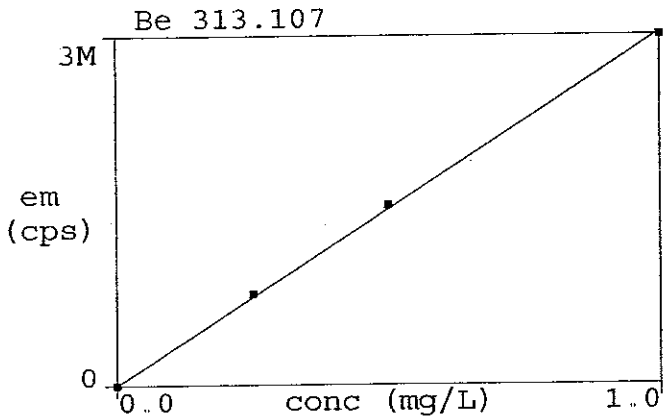
Calib.Eq'n: Linear-thru-Zero
2 Corr. Coeff.: 0.9998



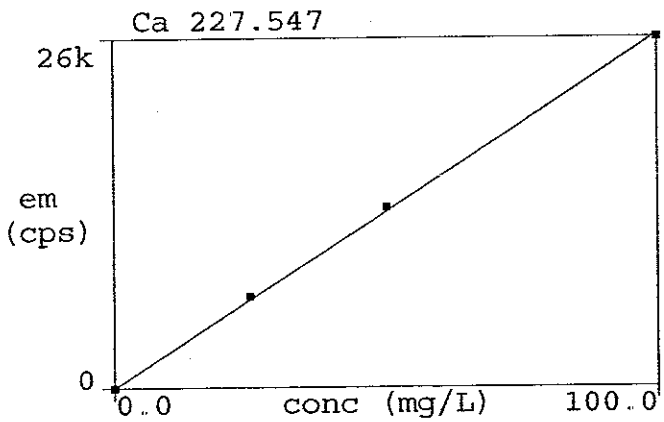
Calib.Eq'n: Linear-thru-Zero
3 Corr. Coeff.: 0.9998



Calib.Eq'n: Linear-thru-Zero
4 Corr. Coeff.: 0.9993



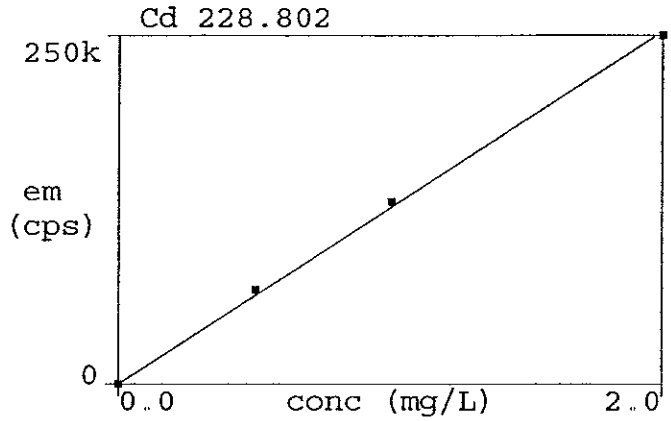
Calib.Eq'n: Linear-thru-Zero
5 Corr. Coeff.: 0.9998



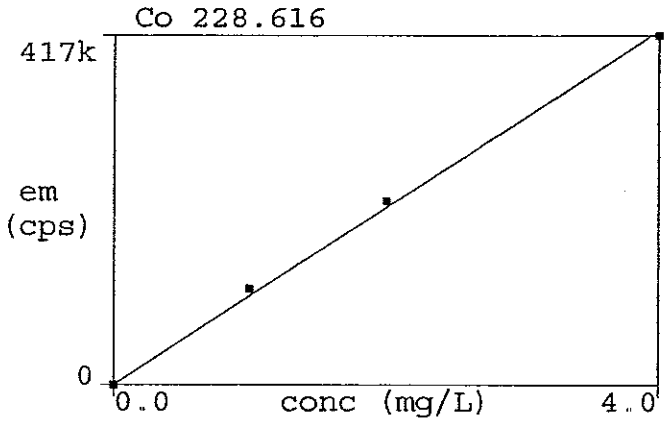
Calib.Eq'n: Linear-thru-Zero
6 Corr. Coeff.: 0.9997

Calibration

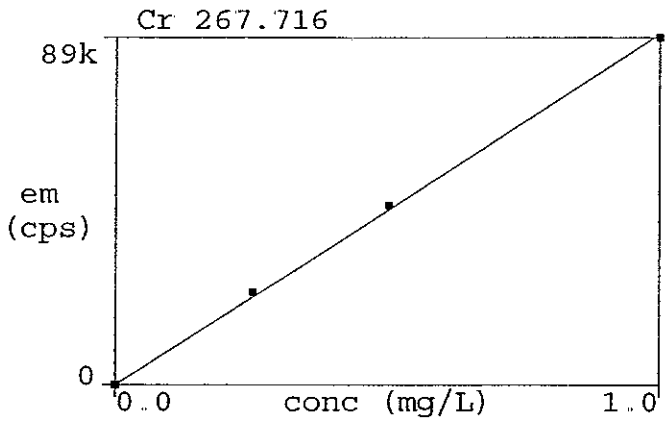
Method: TTLC
Result: 02M2368M



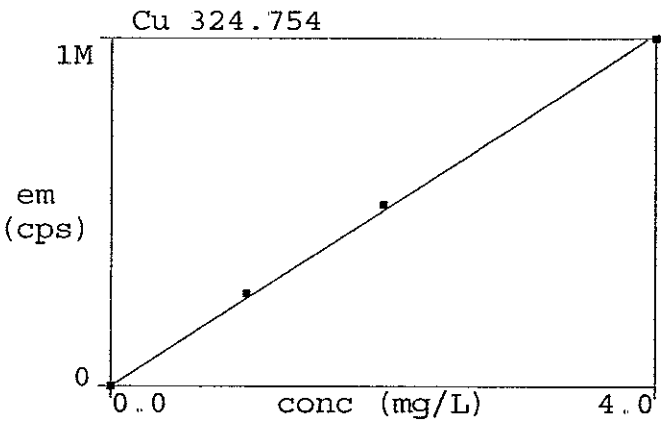
Calib.Eq'n: Linear-thru-Zero
7 Corr. Coeff.: 0.9994



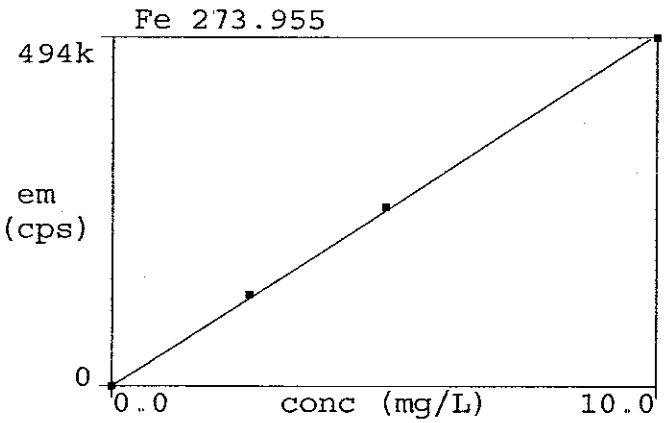
Calib.Eq'n: Linear-thru-Zero
8 Corr. Coeff.: 0.9992



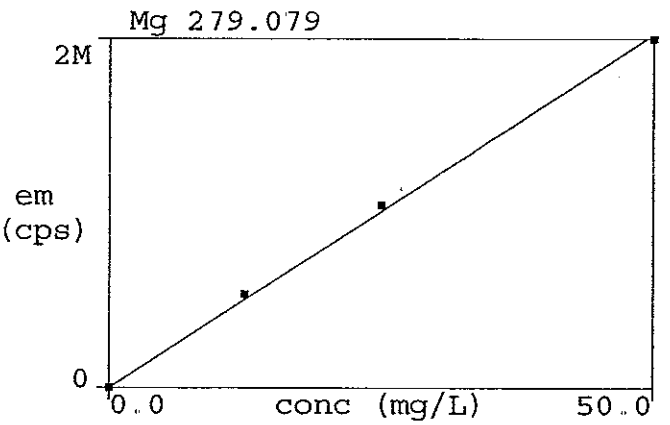
Calib.Eq'n: Linear-thru-Zero
9 Corr. Coeff.: 0.9995



Calib.Eq'n: Linear-thru-Zero
10 Corr. Coeff.: 0.9994



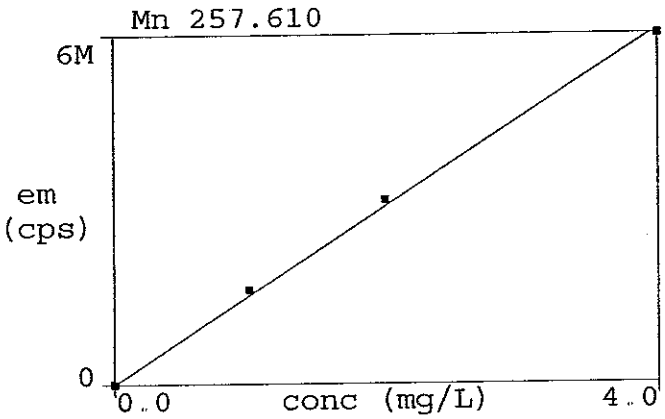
Calib.Eq'n: Linear-thru-Zero
11 Corr. Coeff.: 0.9997



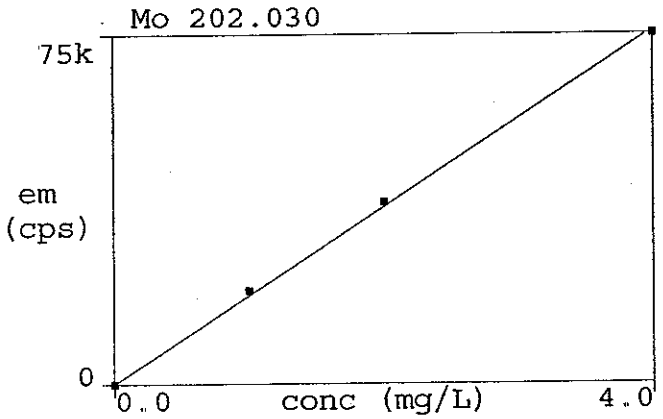
Calib.Eq'n: Linear-thru-Zero
12 Corr. Coeff.: 0.9993

Calibration

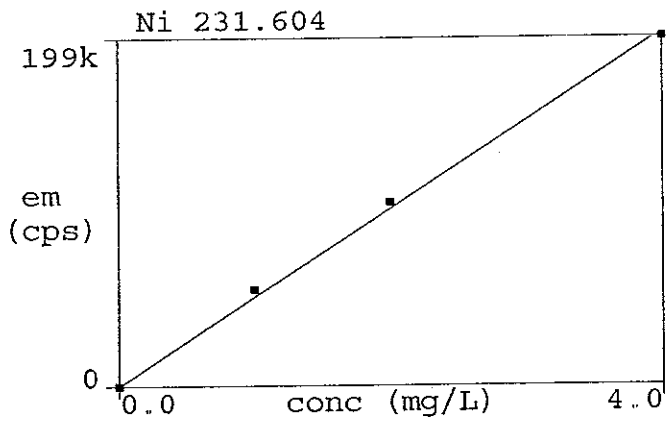
Method: TTLC
Result: 02M2368M



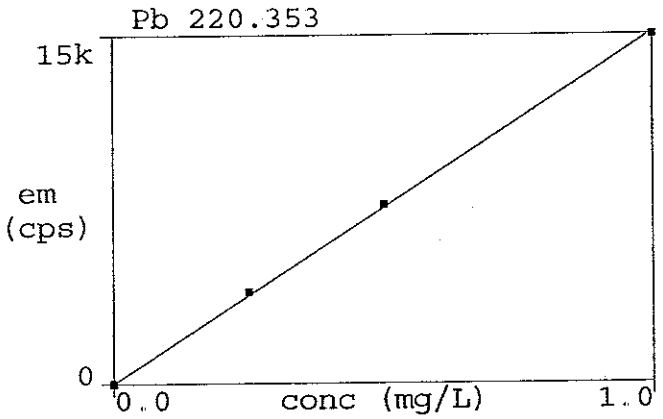
Calib.Eq'n: Linear-thru-Zero
13 Corr. Coeff.: 0.9992



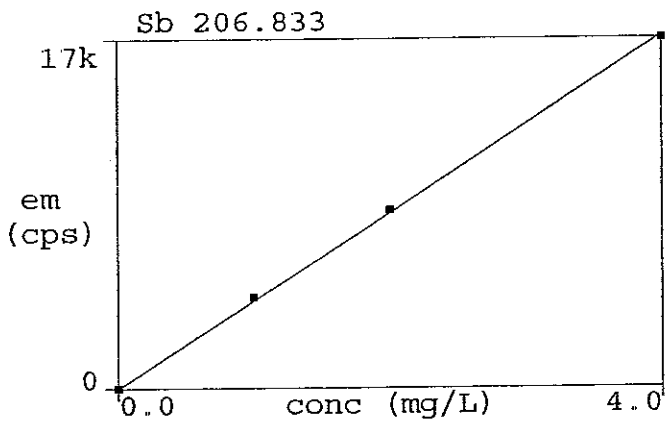
Calib.Eq'n: Linear-thru-Zero
14 Corr. Coeff.: 0.9995



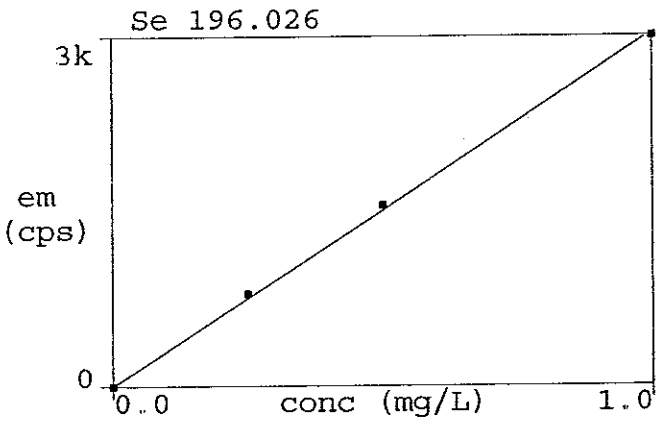
Calib.Eq'n: Linear-thru-Zero
15 Corr. Coeff.: 0.9991



Calib.Eq'n: Linear-thru-Zero
16 Corr. Coeff.: 0.9998



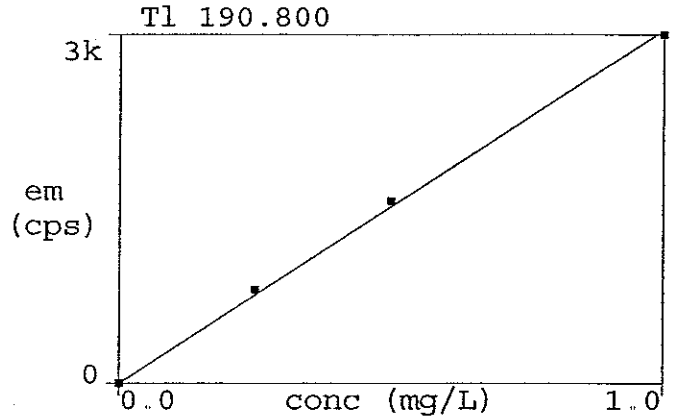
Calib.Eq'n: Linear-thru-Zero
17 Corr. Coeff.: 0.9998



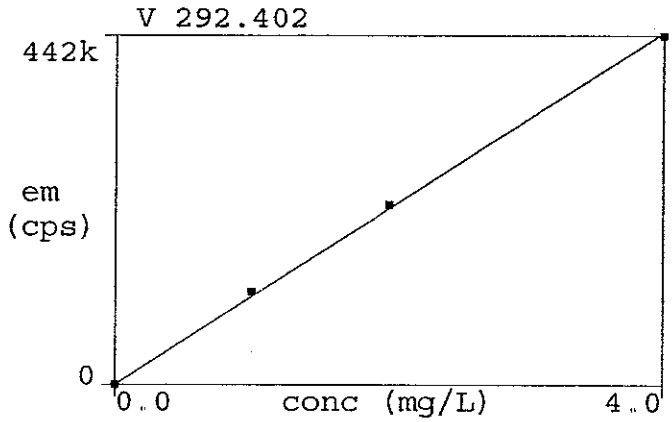
Calib.Eq'n: Linear-thru-Zero
18 Corr. Coeff.: 0.9996

Calibration

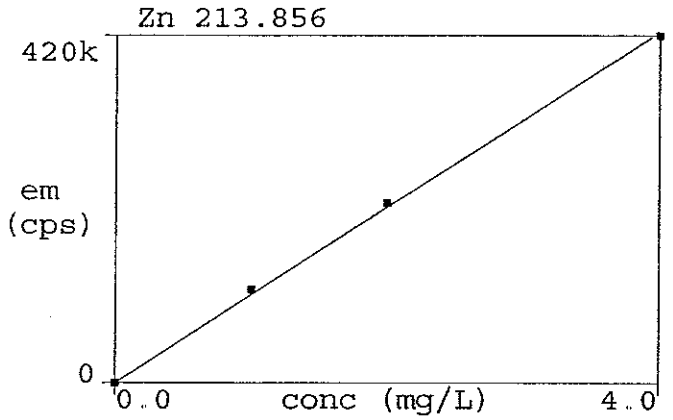
Method: TTLC
Result: 02M2368M



Calib.Eq'n: Linear-thru-Zero
19 Corr. Coeff.: 0.9994



Calib.Eq'n: Linear-thru-Zero
20 Corr. Coeff.: 0.9996



Calib.Eq'n: Linear-thru-Zero
21 Corr. Coeff.: 0.9996

thod: TTLC
esults: 02M2368M
ample Info: 02m2368m
thod Description: 6010B/200.7--TTLC 11/20/02

IEC: 02miecm.iec
Spectra Stored: Yes
User: User1

MSF:
Method Stored: Yes
Date: 11/21/02 11:01:58 AM

eplicate Data
: Calib Blank

Date: 11/21/02 11:03:18 AM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units
1	Ag 328.068	-1025.0	-1025.0	0	mg/L
1	Al 308.215	4540.7	4540.7	0	mg/L
1	As 188.979	69.8	69.8	0	mg/L
1	Ba 233.527	-811.1	-811.1	0	mg/L
1	Be 313.107	-400.2	-400.2	0	mg/L
1	Ca 227.547	270.3	270.3	0	mg/L
1	Cd 228.802	86.3	86.3	0	mg/L
1	Co 228.616	-411.4	-411.4	0	mg/L
1	Cr 267.716	-127.3	-127.3	0	mg/L
1	Cu 324.754	2313.7	2313.7	0	mg/L
1	Fe 273.955	3317.1	3317.1	0	mg/L
1	Mg 279.079	672.0	672.0	0	mg/L
1	Mn 257.610	1086.8	1086.8	0	mg/L
1	Mo 202.030	-30.6	-30.6	0	mg/L
1	Ni 231.604	297.7	297.7	0	mg/L
1	Pb 220.353	198.8	198.8	0	mg/L
1	Sb 206.833	67.0	67.0	0	mg/L
1	Se 196.026	85.8	85.8	0	mg/L
1	Tl 190.800	189.4	189.4	0	mg/L
1	V 292.402	184.7	184.7	0	mg/L
1	Zn 213.856	-575.8	-575.8	0	mg/L
2	Ag 328.068	-1163.1	-1163.1	0	mg/L
2	Al 308.215	4609.7	4609.7	0	mg/L
2	As 188.979	66.9	66.9	0	mg/L
2	Ba 233.527	-918.2	-918.2	0	mg/L
2	Be 313.107	-365.7	-365.7	0	mg/L
2	Ca 227.547	314.7	314.7	0	mg/L
2	Cd 228.802	93.2	93.2	0	mg/L
2	Co 228.616	-462.0	-462.0	0	mg/L
2	Cr 267.716	-151.0	-151.0	0	mg/L
2	Cu 324.754	2214.7	2214.7	0	mg/L
2	Fe 273.955	2850.1	2850.1	0	mg/L
2	Mg 279.079	583.5	583.5	0	mg/L
2	Mn 257.610	1046.9	1046.9	0	mg/L
2	Mo 202.030	-24.7	-24.7	0	mg/L
2	Ni 231.604	230.0	230.0	0	mg/L
2	Pb 220.353	183.2	183.2	0	mg/L
2	Sb 206.833	59.0	59.0	0	mg/L
2	Se 196.026	81.2	81.2	0	mg/L
2	Tl 190.800	193.8	193.8	0	mg/L
2	V 292.402	150.9	150.9	0	mg/L
2	Zn 213.856	-579.3	-579.3	0	mg/L
3	Ag 328.068	-1033.8	-1033.8	0	mg/L
3	Al 308.215	4642.4	4642.4	0	mg/L
3	As 188.979	71.7	71.7	0	mg/L
3	Ba 233.527	-867.5	-867.5	0	mg/L
3	Be 313.107	-476.7	-476.7	0	mg/L
3	Ca 227.547	265.3	265.3	0	mg/L
3	Cd 228.802	89.7	89.7	0	mg/L
3	Co 228.616	-376.7	-376.7	0	mg/L
3	Cr 267.716	-201.1	-201.1	0	mg/L
3	Cu 324.754	2332.4	2332.4	0	mg/L
3	Fe 273.955	2802.4	2802.4	0	mg/L
3	Mg 279.079	532.9	532.9	0	mg/L
3	Mn 257.610	1228.5	1228.5	0	mg/L
3	Mo 202.030	-30.3	-30.3	0	mg/L
3	Ni 231.604	297.9	297.9	0	mg/L

3 Pb 220.353	172.7	172.7	0	mg/L
3 Sb 206.833	55.9	55.9	0	mg/L
3 Se 196.026	85.9	85.9	0	mg/L
3 Tl 190.800	182.3	182.3	0	mg/L
3 V 292.402	152.6	152.6	0	mg/L
3 Zn 213.856	-595.1	-595.1	0	mg/L

lean Data ----------

D: Calib Blank Seq. No.: 1 A/S Pos: 1
Data: Original Date: 11/21/02 11:03:18 AM

lement	Mean Corr. Intensity	Std.Dev.	RSD	Conc.	Calib Units
g 328.068	-1074.0	77.29	7.20%	0	mg/L
l 308.215	4597.6	51.90	1.13%	0	mg/L
s 188.979	69.4	2.42	3.49%	0	mg/L
a 233.527	-865.6	53.60	6.19%	0	mg/L
e 313.107	-414.2	56.81	13.72%	0	mg/L
a 227.547	283.5	27.21	9.60%	0	mg/L
d 228.802	89.8	3.45	3.84%	0	mg/L
o 228.616	-416.7	42.88	10.29%	0	mg/L
r 267.716	-159.8	37.69	23.59%	0	mg/L
u 324.754	2286.9	63.28	2.77%	0	mg/L
e 273.955	2989.8	284.38	9.51%	0	mg/L
g 279.079	596.1	70.41	11.81%	0	mg/L
n 257.610	1120.7	95.42	8.51%	0	mg/L
o 202.030	-28.5	3.31	11.60%	0	mg/L
i 231.604	275.2	39.13	14.22%	0	mg/L
b 220.353	184.9	13.14	7.11%	0	mg/L
b 206.833	60.6	5.74	9.47%	0	mg/L
e 196.026	84.3	2.70	3.20%	0	mg/L
l 190.800	188.5	5.81	3.08%	0	mg/L
292.402	162.7	19.06	11.71%	0	mg/L
n 213.856	-583.4	10.25	1.76%	0	mg/L

eplicate Data ----------

D: STD1 1346A Date: 11/21/02 11:06:51 AM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units
1	Ag 328.068	400148.7	401222.6	2.0000	mg/L
1	Al 308.215	369295.5	364697.9	10.00	mg/L
1	As 188.979	2667.7	2598.3	1.000	mg/L
1	Ba 233.527	3481527.0	3482392.6	10.0000	mg/L
1	Be 313.107	2744519.1	2744933.3	1.00000	mg/L
1	Ca 227.547	26348.2	26064.7	100.0	mg/L
1	Cd 228.802	250748.1	250658.3	2.000	mg/L
1	Co 228.616	417241.8	417658.5	4.0000	mg/L
1	Cr 267.716	89862.7	90022.4	1.0000	mg/L
1	Cu 324.754	1260834.7	1258547.8	4.0000	mg/L
1	Fe 273.955	496564.6	493574.8	10.00	mg/L
1	Mg 279.079	1571948.2	1571352.1	50.00	mg/L
1	Mn 257.610	6226975.4	6225854.7	4.0000	mg/L
1	Mo 202.030	74748.5	74777.0	4.000	mg/L
1	Ni 231.604	199252.0	198976.8	4.0000	mg/L
1	Pb 220.353	15018.7	14833.8	1.000	mg/L
1	Sb 206.833	16667.7	16607.1	4.000	mg/L
1	Se 196.026	2792.3	2708.0	1.000	mg/L
1	Tl 190.800	3572.7	3384.2	1.000	mg/L
1	V 292.402	444467.0	444304.2	4.0000	mg/L
1	Zn 213.856	419061.5	419644.9	4.000	mg/L
2	Ag 328.068	396263.9	397337.9	2.0000	mg/L
2	Al 308.215	365080.7	360483.2	10.00	mg/L
2	As 188.979	2642.7	2573.2	1.000	mg/L
2	Ba 233.527	3546294.1	3547159.7	10.0000	mg/L
2	Be 313.107	2800716.3	2801130.5	1.00000	mg/L
2	Ca 227.547	25848.5	25565.0	100.0	mg/L
2	Cd 228.802	248235.9	248146.2	2.000	mg/L
2	Co 228.616	413705.7	414122.4	4.0000	mg/L
2	Cr 267.716	88706.5	88866.3	1.0000	mg/L

2	Cu 324.754	1252485.2	1250198.3	4.0000 mg/L
2	Fe 273.955	498376.6	495386.8	10.00 mg/L
2	Mg 279.079	1557508.6	1556912.5	50.00 mg/L
2	Mn 257.610	6368363.5	6367242.8	4.0000 mg/L
2	Mo 202.030	74134.4	74162.9	4.000 mg/L
2	Ni 231.604	198520.3	198245.1	4.0000 mg/L
2	Pb 220.353	15012.2	14827.3	1.000 mg/L
2	Sb 206.833	16657.5	16596.8	4.000 mg/L
2	Se 196.026	2812.1	2727.8	1.000 mg/L
2	Tl 190.800	3586.2	3397.7	1.000 mg/L
2	V 292.402	437862.8	437700.1	4.0000 mg/L
2	Zn 213.856	416624.0	417207.4	4.000 mg/L
3	Ag 328.068	399407.6	400481.5	2.0000 mg/L
3	Al 308.215	366860.2	362262.6	10.00 mg/L
3	As 188.979	2656.3	2586.8	1.000 mg/L
3	Ba 233.527	3425911.4	3426777.0	10.0000 mg/L
3	Be 313.107	2700522.7	2700936.9	1.00000 mg/L
3	Ca 227.547	26447.0	26163.5	100.0 mg/L
3	Cd 228.802	252733.4	252643.7	2.000 mg/L
3	Co 228.616	419806.3	420223.0	4.0000 mg/L
3	Cr 267.716	89368.8	89528.5	1.0000 mg/L
3	Cu 324.754	1269745.5	1267458.5	4.0000 mg/L
3	Fe 273.955	495024.7	492034.9	10.00 mg/L
3	Mg 279.079	1575121.7	1574525.6	50.00 mg/L
3	Mn 257.610	6193016.5	6191895.7	4.0000 mg/L
3	Mo 202.030	75186.2	75214.7	4.000 mg/L
3	Ni 231.604	201332.5	201057.3	4.0000 mg/L
3	Pb 220.353	15038.2	14853.4	1.000 mg/L
3	Sb 206.833	16670.2	16609.6	4.000 mg/L
3	Se 196.026	2823.3	2739.0	1.000 mg/L
3	Tl 190.800	3603.4	3414.9	1.000 mg/L
3	V 292.402	443993.9	443831.2	4.0000 mg/L
3	Zn 213.856	423034.4	423617.8	4.000 mg/L

ean Data ----------
D: STD1 1346A Seq. No.: 2 A/S Pos: 2
Data: Original Date: 11/21/02 11:06:51 AM

lement	Mean Corr Intensity	Std.Dev.	RSD	Conc.	Calib Units
g 328.068	399680.7	2062.51	0.52%	2.0000	mg/L
l 308.215	362481.2	2115.86	0.58%	10.00	mg/L
s 188.979	2586.1	12.56	0.49%	1.000	mg/L
a 233.527	3485443.1	60249.29	1.73%	10.0000	mg/L
e 313.107	2749000.2	50220.48	1.83%	1.00000	mg/L
a 227.547	25931.1	320.82	1.24%	100.0	mg/L
d 228.802	250482.7	2253.88	0.90%	2.000	mg/L
o 228.616	417334.6	3063.14	0.73%	4.0000	mg/L
r 267.716	89472.4	580.10	0.65%	1.0000	mg/L
u 324.754	1258734.9	8631.66	0.69%	4.0000	mg/L
e 273.955	493665.5	1677.78	0.34%	10.00	mg/L
g 279.079	1567596.7	9387.89	0.60%	50.00	mg/L
n 257.610	6261664.4	92996.78	1.49%	4.0000	mg/L
o 202.030	74718.2	528.36	0.71%	4.000	mg/L
i 231.604	199426.4	1459.02	0.73%	4.0000	mg/L
b 220.353	14838.1	13.57	0.09%	1.000	mg/L
b 206.833	16604.5	6.75	0.04%	4.000	mg/L
e 196.026	2725.0	15.68	0.58%	1.000	mg/L
l 190.800	3398.9	15.39	0.45%	1.000	mg/L
292.402	441945.2	3683.95	0.83%	4.0000	mg/L
n 213.856	420156.7	3235.71	0.77%	4.000	mg/L

eplicate Data ----------
D: STD2 1346B Date: 11/21/02 11:10:27 AM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units
1	Ag 328.068	209176.9	210250.9	1.0000	mg/L
1	Al 308.215	193515.3	188917.8	5.000	mg/L
1	As 188.979	1393.1	1323.7	0.500	mg/L

1	Ba 233.527	1827558.3	1828423.9	5.0000	mg/L
1	Be 313.107	1415411.0	1415825.2	0.50000	mg/L
1	Ca 227.547	13944.8	13661.3	50.00	mg/L
1	Cd 228.802	133284.9	133195.2	1.000	mg/L
1	Co 228.616	223186.5	223603.2	2.0000	mg/L
1	Cr 267.716	47067.3	47227.1	0.5000	mg/L
1	Cu 324.754	659648.1	657361.2	2.0000	mg/L
1	Fe 273.955	262462.3	259472.4	5.000	mg/L
1	Mg 279.079	823762.7	823166.5	25.000	mg/L
1	Mn 257.610	3301186.3	3300065.6	2.0000	mg/L
1	Mo 202.030	39598.1	39626.6	2.000	mg/L
1	Ni 231.604	107704.7	107429.5	2.0000	mg/L
1	Pb 220.353	7805.4	7620.5	0.500	mg/L
1	Sb 206.833	8558.1	8497.5	2.000	mg/L
1	Se 196.026	1497.6	1413.3	0.5000	mg/L
1	Tl 190.800	1966.4	1777.9	0.500	mg/L
1	V 292.402	232061.5	231898.7	2.0000	mg/L
1	Zn 213.856	220891.3	221474.7	2.000	mg/L
2	Ag 328.068	205103.3	206177.2	1.0000	mg/L
2	Al 308.215	188915.7	184318.1	5.000	mg/L
2	As 188.979	1403.3	1333.8	0.500	mg/L
2	Ba 233.527	1809148.8	1810014.4	5.0000	mg/L
2	Be 313.107	1392048.5	1392462.7	0.50000	mg/L
2	Ca 227.547	13618.3	13334.8	50.00	mg/L
2	Cd 228.802	130296.4	130206.7	1.000	mg/L
2	Co 228.616	218244.5	218661.2	2.0000	mg/L
2	Cr 267.716	46391.3	46551.0	0.5000	mg/L
2	Cu 324.754	652818.3	650531.4	2.0000	mg/L
2	Fe 273.955	255860.1	252870.3	5.000	mg/L
2	Mg 279.079	813324.2	812728.1	25.000	mg/L
2	Mn 257.610	3261797.7	3260677.0	2.0000	mg/L
2	Mo 202.030	38591.3	38619.8	2.000	mg/L
2	Ni 231.604	104525.2	104250.0	2.0000	mg/L
2	Pb 220.353	7794.3	7609.4	0.500	mg/L
2	Sb 206.833	8591.7	8531.0	2.000	mg/L
2	Se 196.026	1506.2	1422.0	0.5000	mg/L
2	Tl 190.800	1955.8	1767.3	0.500	mg/L
2	V 292.402	228607.2	228444.4	2.0000	mg/L
2	Zn 213.856	215445.8	216029.2	2.000	mg/L
3	Ag 328.068	202502.6	203576.6	1.0000	mg/L
3	Al 308.215	187681.1	183083.5	5.000	mg/L
3	As 188.979	1398.4	1329.0	0.500	mg/L
3	Ba 233.527	1855163.3	1856028.9	5.0000	mg/L
3	Be 313.107	1442309.6	1442723.8	0.50000	mg/L
3	Ca 227.547	13450.5	13167.0	50.00	mg/L
3	Cd 228.802	128429.5	128339.8	1.000	mg/L
3	Co 228.616	214212.2	214628.9	2.0000	mg/L
3	Cr 267.716	45453.5	45613.3	0.5000	mg/L
3	Cu 324.754	672028.3	669741.4	2.0000	mg/L
3	Fe 273.955	254403.5	251413.7	5.000	mg/L
3	Mg 279.079	834150.9	833554.8	25.000	mg/L
3	Mn 257.610	3327908.6	3326787.9	2.0000	mg/L
3	Mo 202.030	38189.4	38217.9	2.000	mg/L
3	Ni 231.604	103847.3	103572.1	2.0000	mg/L
3	Pb 220.353	7780.4	7595.5	0.500	mg/L
3	Sb 206.833	8584.4	8523.8	2.000	mg/L
3	Se 196.026	1493.8	1409.5	0.5000	mg/L
3	Tl 190.800	1968.4	1779.8	0.500	mg/L
3	V 292.402	223691.9	223529.2	2.0000	mg/L
3	Zn 213.856	212776.3	213359.7	2.000	mg/L

ean Data ----------

D: STD2 1346B Seq. No.: 3 A/S Pos: 3
Data: Original Date: 11/21/02 11:10:27 AM

lement	Mean Corr. Intensity	Std.Dev.	RSD	Conc.	Calib Units
g 328.068	206668.2	3364.15	1.63%	1.0000	mg/L
l 308.215	185439.8	3074.62	1.66%	5.000	mg/L
s 188.979	1328.8	5.06	0.38%	0.500	mg/L

a 233.527	1831489.1	23159.92	1.26%	5.0000 mg/L
e 313.107	1417003.9	25151.23	1.77%	0.50000 mg/L
a 227.547	13387.7	251.36	1.88%	50.00 mg/L
d 228.802	130580.5	2449.18	1.88%	1.000 mg/L
o 228.616	218964.4	4494.82	2.05%	2.0000 mg/L
r 267.716	46463.8	810.41	1.74%	0.5000 mg/L
u 324.754	659211.3	9737.70	1.48%	2.0000 mg/L
e 273.955	254585.5	4294.46	1.69%	5.000 mg/L
g 279.079	823149.8	10413.37	1.27%	25.000 mg/L
n 257.610	3295843.5	33257.08	1.01%	2.0000 mg/L
o 202.030	38821.4	725.64	1.87%	2.000 mg/L
i 231.604	105083.8	2059.48	1.96%	2.0000 mg/L
b 220.353	7608.5	12.49	0.16%	0.500 mg/L
b 206.833	8517.4	17.65	0.21%	2.000 mg/L
e 196.026	1414.9	6.39	0.45%	0.5000 mg/L
l 190.800	1775.0	6.74	0.38%	0.500 mg/L
292.402	227957.4	4205.98	1.85%	2.0000 mg/L
n 213.856	216954.5	4135.85	1.91%	2.000 mg/L

eplicate Data ----------
D: STD3 1346C Date: 11/21/02 11:14:00 AM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units
1	Ag 328.068	106381.1	107455.0	0.5000	mg/L
1	Al 308.215	100542.5	95944.9	2.500	mg/L
1	As 188.979	755.7	686.3	0.250	mg/L
1	Ba 233.527	954470.8	955336.4	2.5000	mg/L
1	Be 313.107	722920.2	723334.4	0.25000	mg/L
1	Ca 227.547	7085.6	6802.1	25.00	mg/L
1	Cd 228.802	68390.8	68301.1	0.500	mg/L
1	Co 228.616	115784.3	116201.0	1.0000	mg/L
1	Cr 267.716	24225.5	24385.3	0.2500	mg/L
1	Cu 324.754	343221.2	340934.3	1.0000	mg/L
1	Fe 273.955	135001.9	132012.1	2.500	mg/L
1	Mg 279.079	426284.1	425688.0	12.500	mg/L
1	Mn 257.610	1721541.1	1720420.3	1.0000	mg/L
1	Mo 202.030	19907.4	19935.9	1.000	mg/L
1	Ni 231.604	55647.9	55372.7	1.0000	mg/L
1	Pb 220.353	4098.8	3913.9	0.250	mg/L
1	Sb 206.833	4436.6	4376.0	1.000	mg/L
1	Se 196.026	806.4	722.1	0.250	mg/L
1	Tl 190.800	1104.8	916.3	0.250	mg/L
1	V 292.402	120595.1	120432.4	1.0000	mg/L
1	Zn 213.856	112474.2	113057.6	1.000	mg/L
2	Ag 328.068	102949.8	104023.7	0.5000	mg/L
2	Al 308.215	97600.9	93003.4	2.500	mg/L
2	As 188.979	740.3	670.8	0.250	mg/L
2	Ba 233.527	925363.6	926229.2	2.5000	mg/L
2	Be 313.107	707766.4	708180.6	0.25000	mg/L
2	Ca 227.547	6989.1	6705.6	25.00	mg/L
2	Cd 228.802	65839.4	65749.6	0.500	mg/L
2	Co 228.616	111440.9	111857.6	1.0000	mg/L
2	Cr 267.716	23338.2	23497.9	0.2500	mg/L
2	Cu 324.754	331966.2	329679.3	1.0000	mg/L
2	Fe 273.955	131601.8	128612.0	2.500	mg/L
2	Mg 279.079	414611.5	414015.4	12.500	mg/L
2	Mn 257.610	1659841.6	1658720.9	1.0000	mg/L
2	Mo 202.030	19744.3	19772.8	1.000	mg/L
2	Ni 231.604	54362.8	54087.6	1.0000	mg/L
2	Pb 220.353	4038.2	3853.3	0.250	mg/L
2	Sb 206.833	4372.6	4311.9	1.000	mg/L
2	Se 196.026	812.6	728.3	0.250	mg/L
2	Tl 190.800	1092.9	904.4	0.250	mg/L
2	V 292.402	114862.7	114700.0	1.0000	mg/L
2	Zn 213.856	109558.6	110142.0	1.000	mg/L
3	Ag 328.068	105718.3	106792.3	0.5000	mg/L
3	Al 308.215	99642.2	95044.6	2.500	mg/L
3	As 188.979	742.8	673.4	0.250	mg/L

3	Ba 233.527	943367.8	944233.4	2.5000 mg/L
3	Be 313.107	718683.2	719097.4	0.25000 mg/L
3	Ca 227.547	7076.4	6792.9	25.00 mg/L
3	Cd 228.802	67912.9	67823.2	0.500 mg/L
3	Co 228.616	114355.5	114772.2	1.0000 mg/L
3	Cr 267.716	23874.2	24034.0	0.2500 mg/L
3	Cu 324.754	340814.6	338527.7	1.0000 mg/L
3	Fe 273.955	133643.2	130653.4	2.500 mg/L
3	Mg 279.079	422404.6	421808.5	12.500 mg/L
3	Mn 257.610	1703410.9	1702290.2	1.0000 mg/L
3	Mo 202.030	20017.6	20046.1	1.000 mg/L
3	Ni 231.604	55442.3	55167.1	1.0000 mg/L
3	Pb 220.353	4096.7	3911.8	0.250 mg/L
3	Sb 206.833	4416.5	4355.9	1.000 mg/L
3	Se 196.026	807.7	723.4	0.250 mg/L
3	Tl 190.800	1103.1	914.6	0.250 mg/L
3	V 292.402	118408.3	118245.5	1.0000 mg/L
3	Zn 213.856	112579.9	113163.3	1.000 mg/L

ean Data ----------

D: STD3 1346C Seq. No.: 4 A/S Pos: 4
Data: Original Date: 11/21/02 11:14:00 AM

lement	Mean Corr. Intensity	Std.Dev.	RSD	Conc.	Calib Units
g 328.068	106090.3	1820.17	1.72%	0.5000	mg/L
l 308.215	94664.3	1507.20	1.59%	2.500	mg/L
s 188.979	676.8	8.29	1.22%	0.250	mg/L
a 233.527	941933.0	14689.30	1.56%	2.5000	mg/L
e 313.107	716870.8	7818.43	1.09%	0.25000	mg/L
a 227.547	6766.9	53.27	0.79%	25.00	mg/L
d 228.802	67291.3	1356.34	2.02%	0.500	mg/L
o 228.616	114277.0	2213.63	1.94%	1.0000	mg/L
r 267.716	23972.4	446.85	1.86%	0.2500	mg/L
u 324.754	336380.4	5926.81	1.76%	1.0000	mg/L
e 273.955	130425.8	1711.45	1.31%	2.500	mg/L
g 279.079	420504.0	5944.64	1.41%	12.500	mg/L
n 257.610	1693810.5	31711.73	1.87%	1.0000	mg/L
o 202.030	19918.3	137.51	0.69%	1.000	mg/L
i 231.604	54875.8	690.30	1.26%	1.0000	mg/L
b 220.353	3893.0	34.44	0.88%	0.250	mg/L
b 206.833	4347.9	32.76	0.75%	1.000	mg/L
e 196.026	724.6	3.29	0.45%	0.250	mg/L
l 190.800	911.8	6.45	0.71%	0.250	mg/L
292.402	117792.6	2892.91	2.46%	1.0000	mg/L
n 213.856	112121.0	1714.68	1.53%	1.000	mg/L

alibration Summary ----------

ethod: TTLC Date: 11/21/02 11:14:59 AM

lement	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
g 328.068	3	Linear-thru-Zero	0.0	201728.5	0.00000	0.999629
l 308.215	3	Linear-thru-Zero	0.0	36485.1	0.00000	0.999817
s 188.979	3	Linear-thru-Zero	0.0	2605.5	0.00000	0.999770
a 233.527	3	Linear-thru-Zero	0.0	353270.2	0.00000	0.999272
e 313.107	3	Linear-thru-Zero	0.0	2770834.2	0.00000	0.999755
a 227.547	3	Linear-thru-Zero	0.0	261.5	0.00000	0.999735
d 228.802	3	Linear-thru-Zero	0.0	126703.2	0.00000	0.999443
o 228.616	3	Linear-thru-Zero	0.0	105787.8	0.00000	0.999180
r 267.716	3	Linear-thru-Zero	0.0	90436.1	0.00000	0.999515
u 324.754	3	Linear-thru-Zero	0.0	318559.2	0.00000	0.999411
e 273.955	3	Linear-thru-Zero	0.0	49795.4	0.00000	0.999686
g 279.079	3	Linear-thru-Zero	0.0	31760.7	0.00000	0.999341
n 257.610	3	Linear-thru-Zero	0.0	1587245.5	0.00000	0.999235
o 202.030	3	Linear-thru-Zero	0.0	18877.8	0.00000	0.999543
i 231.604	3	Linear-thru-Zero	0.0	50607.1	0.00000	0.999058
b 220.353	3	Linear-thru-Zero	0.0	14945.2	0.00000	0.999777
b 206.833	3	Linear-thru-Zero	0.0	4181.0	0.00000	0.999783
e 196.026	3	Linear-thru-Zero	0.0	2753.2	0.00000	0.999567
l 190.800	3	Linear-thru-Zero	0.0	3439.5	0.00000	0.999429

292.402	3	Linear-thru-Zero	0.0	111499.4	0.00000	0.999629
213.856	3	Linear-thru-Zero	0.0	106031.3	0.00000	0.999610

eplicate Data ----------
): ICV 1379A Date: 11/21/02 11:17:39 AM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	401722.2	402796.1	1.997	mg/L		
1	Al 308.215	368702.4	364104.8	9.980	mg/L		
1	As 188.979	2691.0	2621.6	1.017	mg/L		
1	Ba 233.527	3444801.6	3445667.2	9.754	mg/L		
1	Be 313.107	2712524.2	2712938.4	0.9791	mg/L		
1	Ca 227.547	26348.2	26064.7	99.69	mg/L		
1	Cd 228.802	252726.5	252636.8	1.994	mg/L		
1	Co 228.616	419525.5	419942.2	3.970	mg/L		
1	Cr 267.716	89989.8	90149.6	0.9968	mg/L		
1	Cu 324.754	1268126.1	1265839.2	3.974	mg/L		
1	Fe 273.955	493116.0	490126.1	9.843	mg/L		
1	Mg 279.079	1571204.3	1570608.2	49.45	mg/L		
1	Mn 257.610	6179472.5	6178351.8	3.892	mg/L		
1	Mo 202.030	74591.8	74620.3	3.953	mg/L		
1	Ni 231.604	199723.1	199447.9	3.941	mg/L		
1	Pb 220.353	15115.0	14930.1	0.9990	mg/L		
1	Sb 206.833	16910.2	16849.5	4.001	mg/L		
1	Se 196.026	2825.7	2741.4	0.9987	mg/L		
1	Tl 190.800	3603.1	3414.5	0.9883	mg/L		
1	V 292.402	444661.9	444499.2	3.987	mg/L		
1	Zn 213.856	420234.0	420817.4	3.969	mg/L		
2	Ag 328.068	398252.0	399325.9	1.980	mg/L		
2	Al 308.215	367921.9	363324.4	9.958	mg/L		
2	As 188.979	2652.8	2583.4	1.002	mg/L		
2	Ba 233.527	3483257.0	3484122.6	9.862	mg/L		
2	Be 313.107	2750715.0	2751129.2	0.9929	mg/L		
2	Ca 227.547	26100.4	25816.9	98.74	mg/L		
2	Cd 228.802	250783.2	250693.5	1.979	mg/L		
2	Co 228.616	417247.7	417664.4	3.948	mg/L		
2	Cr 267.716	88793.3	88953.1	0.9836	mg/L		
2	Cu 324.754	1265313.5	1263026.6	3.965	mg/L		
2	Fe 273.955	492071.4	489081.6	9.822	mg/L		
2	Mg 279.079	1570100.5	1569504.4	49.42	mg/L		
2	Mn 257.610	6265085.3	6263964.6	3.946	mg/L		
2	Mo 202.030	74725.9	74754.4	3.960	mg/L		
2	Ni 231.604	200676.8	200401.6	3.960	mg/L		
2	Pb 220.353	15002.7	14817.8	0.9915	mg/L		
2	Sb 206.833	16686.4	16625.8	3.948	mg/L		
2	Se 196.026	2799.8	2715.6	0.9893	mg/L		
2	Tl 190.800	3598.6	3410.1	0.9870	mg/L		
2	V 292.402	439130.9	438968.2	3.937	mg/L		
2	Zn 213.856	421154.9	421738.3	3.977	mg/L		
3	Ag 328.068	400676.2	401750.2	1.992	mg/L		
3	Al 308.215	368790.6	364193.0	9.982	mg/L		
3	As 188.979	2638.7	2569.2	0.9965	mg/L		
3	Ba 233.527	3576912.8	3577778.4	10.13	mg/L		
3	Be 313.107	2821782.6	2822196.8	1.019	mg/L		
3	Ca 227.547	26599.9	26316.4	100.7	mg/L		
3	Cd 228.802	253750.2	253660.5	2.002	mg/L		
3	Co 228.616	421429.3	421846.0	3.988	mg/L		
3	Cr 267.716	89586.9	89746.6	0.9924	mg/L		
3	Cu 324.754	1277388.7	1275101.7	4.003	mg/L		
3	Fe 273.955	492103.2	489113.4	9.822	mg/L		
3	Mg 279.079	1578302.4	1577706.3	49.67	mg/L		
3	Mn 257.610	6463567.3	6462446.6	4.071	mg/L		
3	Mo 202.030	75231.2	75259.7	3.987	mg/L		
3	Ni 231.604	202517.5	202242.2	3.996	mg/L		
3	Pb 220.353	14930.7	14745.8	0.9867	mg/L		
3	Sb 206.833	16607.5	16546.9	3.929	mg/L		
3	Se 196.026	2793.8	2709.5	0.9871	mg/L		
3	Tl 190.800	3589.8	3401.3	0.9845	mg/L		

3 V 292.402	444214.4	444051.7	3.983	mg/L
3 Zn 213.856	425136.7	425720.1	4.015	mg/L

lean Data ----------

D: ICV 1379A Seq. No.: 5 Sample No.: 1 A/S Pos: 5
ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 11:17:39 AM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	401290.7	1.989	0.0088	mg/L				0.44%
l 308.215	363874.1	9.973	0.0131	mg/L				0.13%
s 188.979	2591.4	1.005	0.0104	mg/L				1.04%
a 233.527	3502522.8	9.915	0.1923	mg/L				1.94%
e 313.107	2762088.1	0.9968	0.02001	mg/L				2.01%
a 227.547	26066.0	99.69	0.955	mg/L				0.96%
d 228.802	252330.2	1.992	0.0119	mg/L				0.60%
o 228.616	419817.5	3.968	0.0198	mg/L				0.50%
r 267.716	89616.4	0.9909	0.00673	mg/L				0.68%
u 324.754	1267989.2	3.980	0.0198	mg/L				0.50%
e 273.955	489440.4	9.829	0.0119	mg/L				0.12%
g 279.079	1572606.3	49.51	0.140	mg/L				0.28%
n 257.610	6301587.6	3.970	0.0918	mg/L				2.31%
o 202.030	74878.1	3.966	0.0179	mg/L				0.45%
i 231.604	200697.3	3.966	0.0281	mg/L				0.71%
b 220.353	14831.2	0.9924	0.00621	mg/L				0.63%
b 206.833	16674.1	3.959	0.0374	mg/L				0.95%
e 196.026	2722.2	0.9917	0.00617	mg/L				0.62%
l 190.800	3408.7	0.9866	0.00196	mg/L				0.20%
292.402	442506.3	3.969	0.0276	mg/L				0.69%
n 213.856	422758.6	3.987	0.0246	mg/L				0.62%

eplicate Data ----------

D: ICB Date: 11/21/02 11:24:44 AM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-1010.5	63.5	0.0003	mg/L		
1	Al 308.215	4607.4	9.8	0.0003	mg/L		
1	As 188.979	61.9	-7.6	-0.0029	mg/L		
1	Ba 233.527	-769.5	96.1	0.0003	mg/L		
1	Be 313.107	71.9	486.1	0.0002	mg/L		
1	Ca 227.547	214.8	-68.7	-0.2627	mg/L		
1	Cd 228.802	102.7	13.0	0.0001	mg/L		
1	Co 228.616	-188.0	228.7	0.0022	mg/L		
1	Cr 267.716	-50.4	109.3	0.0012	mg/L		
1	Cu 324.754	2189.2	-97.7	-0.0003	mg/L		
1	Fe 273.955	1767.4	-1222.4	-0.0245	mg/L		
1	Mg 279.079	503.7	-92.4	-0.0029	mg/L		
1	Mn 257.610	1663.0	542.3	0.0003	mg/L		
1	Mo 202.030	-23.9	4.6	0.0002	mg/L		
1	Ni 231.604	439.9	164.6	0.0033	mg/L		
1	Pb 220.353	166.4	-18.5	-0.0012	mg/L		
1	Sb 206.833	67.7	7.1	0.0017	mg/L		
1	Se 196.026	78.7	-5.6	-0.0020	mg/L		
1	Tl 190.800	187.0	-1.6	-0.0005	mg/L		
1	V 292.402	187.8	25.1	0.0002	mg/L		
1	Zn 213.856	-501.8	81.6	0.0008	mg/L		
2	Ag 328.068	-1090.6	-16.6	-0.0001	mg/L		
2	Al 308.215	4450.2	-147.3	-0.0040	mg/L		
2	As 188.979	66.7	-2.8	-0.0011	mg/L		
2	Ba 233.527	-716.3	149.3	0.0004	mg/L		
2	Be 313.107	-90.7	323.5	0.0001	mg/L		
2	Ca 227.547	184.3	-99.2	-0.3794	mg/L		
2	Cd 228.802	109.0	19.3	0.0002	mg/L		
2	Co 228.616	-289.2	127.5	0.0012	mg/L		
2	Cr 267.716	-138.7	21.1	0.0002	mg/L		
2	Cu 324.754	2348.4	61.4	0.0002	mg/L		
2	Fe 273.955	1592.9	-1397.0	-0.0281	mg/L		
2	Mg 279.079	562.9	-33.3	-0.0010	mg/L		

2	Mn 257.610	1695.0	574.3	0.0004 mg/L
2	Mo 202.030	-32.9	-4.4	-0.0002 mg/L
2	Ni 231.604	341.7	66.5	0.0013 mg/L
2	Pb 220.353	191.5	6.6	0.0004 mg/L
2	Sb 206.833	52.5	-8.1	-0.0019 mg/L
2	Se 196.026	74.9	-9.4	-0.0034 mg/L
2	Tl 190.800	190.6	2.1	0.0006 mg/L
2	V 292.402	164.2	1.5	0.0000 mg/L
2	Zn 213.856	-522.5	60.9	0.0006 mg/L
3	Ag 328.068	-961.3	112.6	0.0006 mg/L
3	Al 308.215	4494.8	-102.7	-0.0028 mg/L
3	As 188.979	73.2	3.7	0.0014 mg/L
3	Ba 233.527	-808.2	57.4	0.0002 mg/L
3	Be 313.107	-1.1	413.2	0.0001 mg/L
3	Ca 227.547	116.2	-167.3	-0.6398 mg/L
3	Cd 228.802	98.8	9.0	0.0001 mg/L
3	Co 228.616	-274.3	142.4	0.0013 mg/L
3	Cr 267.716	-117.8	42.0	0.0005 mg/L
3	Cu 324.754	2383.7	96.8	0.0003 mg/L
3	Fe 273.955	1465.6	-1524.2	-0.0306 mg/L
3	Mg 279.079	428.7	-167.5	-0.0053 mg/L
3	Mn 257.610	1633.2	512.5	0.0003 mg/L
3	Mo 202.030	-33.5	-4.9	-0.0003 mg/L
3	Ni 231.604	388.4	113.2	0.0022 mg/L
3	Pb 220.353	181.7	-3.2	-0.0002 mg/L
3	Sb 206.833	57.1	-3.5	-0.0008 mg/L
3	Se 196.026	81.1	-3.2	-0.0012 mg/L
3	Tl 190.800	190.4	1.9	0.0006 mg/L
3	V 292.402	337.8	175.0	0.0016 mg/L
3	Zn 213.856	-528.5	54.8	0.0005 mg/L

ean Data ----------

D: ICB Seq. No.: 6 Sample No.: 2 A/S Pos: 1
mple Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 11:24:44 AM

ement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
328.068	53.2	0.0003	0.00032	mg/L				122.72%
308.215	-80.1	-0.0022	0.00222	mg/L				101.09%
188.979	-2.2	-0.0008	0.00218	mg/L				257.54%
233.527	100.9	0.0003	0.00013	mg/L				45.70%
313.107	407.6	0.0001	0.00003	mg/L				19.98%
227.547	-111.7	-0.4273	0.19308	mg/L				45.18%
228.802	13.8	0.0001	0.00004	mg/L				37.41%
228.616	166.2	0.0016	0.00052	mg/L				32.88%
267.716	57.5	0.0006	0.00051	mg/L				80.21%
324.754	20.2	0.0001	0.00033	mg/L				513.50%
273.955	-1381.2	-0.0277	0.00304	mg/L				10.97%
279.079	-97.7	-0.0031	0.00212	mg/L				68.80%
257.610	543.0	0.0003	0.00002	mg/L				5.69%
202.030	-1.6	-0.0001	0.00029	mg/L				345.50%
231.604	114.8	0.0023	0.00097	mg/L				42.76%
220.353	-5.0	-0.0003	0.00085	mg/L				251.20%
206.833	-1.5	-0.0004	0.00187	mg/L				517.95%
196.026	-6.1	-0.0022	0.00114	mg/L				51.58%
190.800	0.8	0.0002	0.00060	mg/L				252.32%
292.402	67.2	0.0006	0.00084	mg/L				140.05%
213.856	65.8	0.0006	0.00013	mg/L				21.32%

eplicate Data ----------

D: CRI A1415 Date: 11/21/02 11:28:04 AM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	1053.8	2127.8	0.0105	mg/L	0.0105	ppm
1	Al 308.215	12757.6	8160.0	0.2237	mg/L	0.2237	ppm
1	As 188.979	102.2	32.8	0.0126	mg/L	0.0126	ppm
1	Ba 233.527	1591.1	2456.7	0.0070	mg/L	0.0070	ppm
1	Be 313.107	5893.8	6308.0	0.0023	mg/L	0.0023	ppm

1	Ca 227.547	462.9	179.4	0.6863	mg/L	0.6863 ppm
1	Cd 228.802	458.5	368.7	0.0029	mg/L	0.0029 ppm
1	Co 228.616	2428.9	2845.6	0.0269	mg/L	0.0269 ppm
1	Cr 267.716	150.6	310.4	0.0034	mg/L	0.0034 ppm
1	Cu 324.754	8574.6	6287.7	0.0197	mg/L	0.0197 ppm
1	Fe 273.955	4435.0	1445.2	0.0290	mg/L	0.0290 ppm
1	Mg 279.079	846.8	250.7	0.0079	mg/L	0.0079 ppm
1	Mn 257.610	19190.6	18069.9	0.0114	mg/L	0.0114 ppm
1	Mo 202.030	405.7	434.2	0.0230	mg/L	0.0230 ppm
1	Ni 231.604	2787.4	2512.1	0.0496	mg/L	0.0496 ppm
1	Pb 220.353	235.0	50.1	0.0034	mg/L	0.0034 ppm
1	Sb 206.833	117.9	57.2	0.0137	mg/L	0.0137 ppm
1	Se 196.026	97.7	13.4	0.0049	mg/L	0.0049 ppm
1	Tl 190.800	221.3	32.7	0.0095	mg/L	0.0095 ppm
1	V 292.402	1529.4	1366.6	0.0123	mg/L	0.0123 ppm
1	Zn 213.856	1906.6	2490.0	0.0235	mg/L	0.0235 ppm
2	Ag 328.068	975.3	2049.3	0.0102	mg/L	0.0102 ppm
2	Al 308.215	12720.3	8122.8	0.2226	mg/L	0.2226 ppm
2	As 188.979	96.9	27.4	0.0105	mg/L	0.0105 ppm
2	Ba 233.527	1456.4	2322.0	0.0066	mg/L	0.0066 ppm
2	Be 313.107	5583.8	5998.0	0.0022	mg/L	0.0022 ppm
2	Ca 227.547	404.0	120.5	0.4609	mg/L	0.4609 ppm
2	Cd 228.802	355.5	265.8	0.0021	mg/L	0.0021 ppm
2	Co 228.616	2278.4	2695.1	0.0255	mg/L	0.0255 ppm
2	Cr 267.716	121.0	280.8	0.0031	mg/L	0.0031 ppm
2	Cu 324.754	8462.1	6175.1	0.0194	mg/L	0.0194 ppm
2	Fe 273.955	4348.5	1358.7	0.0273	mg/L	0.0273 ppm
2	Mg 279.079	861.9	265.8	0.0084	mg/L	0.0084 ppm
2	Mn 257.610	18438.5	17317.8	0.0109	mg/L	0.0109 ppm
2	Mo 202.030	412.1	440.6	0.0233	mg/L	0.0233 ppm
2	Ni 231.604	2722.9	2447.7	0.0484	mg/L	0.0484 ppm
2	Pb 220.353	233.4	48.5	0.0032	mg/L	0.0032 ppm
2	Sb 206.833	106.8	46.1	0.0110	mg/L	0.0110 ppm
2	Se 196.026	97.3	13.0	0.0047	mg/L	0.0047 ppm
2	Tl 190.800	223.3	34.8	0.0101	mg/L	0.0101 ppm
2	V 292.402	1448.9	1286.1	0.0115	mg/L	0.0115 ppm
2	Zn 213.856	1896.3	2479.7	0.0234	mg/L	0.0234 ppm
3	Ag 328.068	1199.9	2273.8	0.0113	mg/L	0.0113 ppm
3	Al 308.215	12742.9	8145.4	0.2233	mg/L	0.2233 ppm
3	As 188.979	102.3	32.9	0.0126	mg/L	0.0126 ppm
3	Ba 233.527	1531.6	2397.2	0.0068	mg/L	0.0068 ppm
3	Be 313.107	5818.4	6232.6	0.0022	mg/L	0.0022 ppm
3	Ca 227.547	486.0	202.5	0.7746	mg/L	0.7746 ppm
3	Cd 228.802	339.9	250.1	0.0020	mg/L	0.0020 ppm
3	Co 228.616	2337.5	2754.2	0.0260	mg/L	0.0260 ppm
3	Cr 267.716	41.9	201.7	0.0022	mg/L	0.0022 ppm
3	Cu 324.754	8349.6	6062.7	0.0190	mg/L	0.0190 ppm
3	Fe 273.955	4173.9	1184.1	0.0238	mg/L	0.0238 ppm
3	Mg 279.079	808.6	212.4	0.0067	mg/L	0.0067 ppm
3	Mn 257.610	18377.3	17256.6	0.0109	mg/L	0.0109 ppm
3	Mo 202.030	402.6	431.2	0.0228	mg/L	0.0228 ppm
3	Ni 231.604	2705.6	2430.4	0.0480	mg/L	0.0480 ppm
3	Pb 220.353	221.2	36.3	0.0024	mg/L	0.0024 ppm
3	Sb 206.833	104.7	44.1	0.0105	mg/L	0.0105 ppm
3	Se 196.026	94.3	10.0	0.0036	mg/L	0.0036 ppm
3	Tl 190.800	230.0	41.5	0.0121	mg/L	0.0121 ppm
3	V 292.402	1463.3	1300.5	0.0117	mg/L	0.0117 ppm
3	Zn 213.856	1905.5	2488.9	0.0235	mg/L	0.0235 ppm

ean Data ----------

D: CRI A1415 Seq. No.: 7 Sample No.: 1 A/S Pos: 9
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 11:28:04 AM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
g 328.068	2150.3	0.0107	0.00056	mg/L	0.0107	0.00056	ppm	5.30%
l 308.215	8142.7	0.2232	0.00051	mg/L	0.2232	0.00051	ppm	0.23%
s 188.979	31.0	0.0119	0.00119	mg/L	0.0119	0.00119	ppm	10.02%
a 233.527	2392.0	0.0068	0.00019	mg/L	0.0068	0.00019	ppm	2.82%

313.107	6179.6	0.0022	0.00006 mg/L	0.0022	0.00006 ppm	2.62%
227.547	167.5	0.6406	0.16179 mg/L	0.6406	0.16179 ppm	25.26%
d 228.802	294.9	0.0023	0.00051 mg/L	0.0023	0.00051 ppm	21.85%
o 228.616	2765.0	0.0261	0.00072 mg/L	0.0261	0.00072 ppm	2.74%
267.716	264.3	0.0029	0.00062 mg/L	0.0029	0.00062 ppm	21.27%
324.754	6175.1	0.0194	0.00035 mg/L	0.0194	0.00035 ppm	1.82%
e 273.955	1329.3	0.0267	0.00267 mg/L	0.0267	0.00267 ppm	10.01%
g 279.079	243.0	0.0077	0.00087 mg/L	0.0077	0.00087 ppm	11.32%
257.610	17548.1	0.0111	0.00029 mg/L	0.0111	0.00029 ppm	2.58%
202.030	435.3	0.0231	0.00025 mg/L	0.0231	0.00025 ppm	1.10%
231.604	2463.4	0.0487	0.00085 mg/L	0.0487	0.00085 ppm	1.75%
b 220.353	45.0	0.0030	0.00051 mg/L	0.0030	0.00051 ppm	16.83%
b 206.833	49.2	0.0118	0.00169 mg/L	0.0118	0.00169 ppm	14.39%
196.026	12.2	0.0044	0.00067 mg/L	0.0044	0.00067 ppm	15.26%
190.800	36.3	0.0106	0.00133 mg/L	0.0106	0.00133 ppm	12.62%
292.402	1317.8	0.0118	0.00039 mg/L	0.0118	0.00039 ppm	3.26%
n 213.856	2486.2	0.0234	0.00005 mg/L	0.0234	0.00005 ppm	0.23%

plicate Data ----------
D: ICSA 1362 Date: 11/21/02 11:31:13 AM

pl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1528.7	-454.7	-0.0023	mg/L		
1	Al 308.215	18122829.2	18118231.6	496.6	mg/L		
1	As 188.979	81.5	12.1	-0.0025	mg/L		
1	Ba 233.527	574.0	1439.6	0.0041	mg/L		
1	Be 313.107	-267.4	146.9	0.0001	mg/L		
1	Ca 227.547	135535.6	135252.2	521.4	mg/L		
1	Cd 228.802	-7.2	-96.9	-0.0008	mg/L		
1	Co 228.616	37.0	453.7	0.0043	mg/L		
1	Cr 267.716	633.1	792.9	0.0042	mg/L		
1	Cu 324.754	139.6	-2147.4	0.0018	mg/L		
1	Fe 273.955	9285027.4	9282037.6	186.4	mg/L		
1	Mg 279.079	15586446.1	15585850.0	490.7	mg/L		
1	Mn 257.610	11728.4	10607.6	-0.0006	mg/L		
1	Mo 202.030	195.6	224.1	0.0046	mg/L		
1	Ni 231.604	545.1	269.9	0.0053	mg/L		
1	Pb 220.353	-148.8	-333.7	0.0055	mg/L		
1	Sb 206.833	158.6	98.0	0.0002	mg/L		
1	Se 196.026	27.6	-56.7	-0.0004	mg/L		
1	Tl 190.800	579.3	390.7	0.0010	mg/L		
1	V 292.402	-205.2	-367.9	-0.0033	mg/L		
1	Zn 213.856	2600.0	3183.4	-0.0039	mg/L		
2	Ag 328.068	-1695.7	-621.7	-0.0031	mg/L		
2	Al 308.215	17918596.8	17913999.2	491.0	mg/L		
2	As 188.979	111.8	42.3	0.0095	mg/L		
2	Ba 233.527	463.9	1329.5	0.0038	mg/L		
2	Be 313.107	-56.9	357.3	0.0001	mg/L		
2	Ca 227.547	137285.0	137001.6	528.1	mg/L		
2	Cd 228.802	45.9	-43.9	-0.0003	mg/L		
2	Co 228.616	-57.2	359.5	0.0034	mg/L		
2	Cr 267.716	560.2	720.0	0.0034	mg/L		
2	Cu 324.754	-45.0	-2331.9	0.0011	mg/L		
2	Fe 273.955	9185091.0	9182101.2	184.4	mg/L		
2	Mg 279.079	15331884.2	15331288.0	482.7	mg/L		
2	Mn 257.610	11861.2	10740.5	-0.0004	mg/L		
2	Mo 202.030	135.1	163.7	0.0015	mg/L		
2	Ni 231.604	556.5	281.3	0.0056	mg/L		
2	Pb 220.353	-170.5	-355.4	0.0038	mg/L		
2	Sb 206.833	168.0	107.3	0.0027	mg/L		
2	Se 196.026	51.5	-32.8	0.0081	mg/L		
2	Tl 190.800	555.4	366.8	-0.0046	mg/L		
2	V 292.402	-27.6	-190.3	-0.0017	mg/L		
2	Zn 213.856	2470.7	3054.1	-0.0047	mg/L		
3	Ag 328.068	-1392.2	-318.2	-0.0016	mg/L		
3	Al 308.215	17998057.6	17993460.0	493.2	mg/L		
3	As 188.979	77.9	8.4	-0.0039	mg/L		
3	Ba 233.527	569.0	1434.6	0.0041	mg/L		

3	Be 313.107	-311.1	103.1	0.0000 mg/L
3	Ca 227.547	134656.7	134373.3	518.0 mg/L
3	Cd 228.802	101.4	11.7	0.0001 mg/L
3	Co 228.616	65.7	482.4	0.0046 mg/L
3	Cr 267.716	767.4	927.2	0.0057 mg/L
3	Cu 324.754	93.4	-2193.6	0.0016 mg/L
3	Fe 273.955	9186986.8	9183996.9	184.4 mg/L
3	Mg 279.079	15370733.8	15370137.6	483.9 mg/L
3	Mn 257.610	11721.6	10600.8	-0.0005 mg/L
3	Mo 202.030	95.9	124.4	-0.0006 mg/L
3	Ni 231.604	471.2	196.0	0.0039 mg/L
3	Pb 220.353	-274.3	-459.2	-0.0030 mg/L
3	Sb 206.833	164.4	103.8	0.0017 mg/L
3	Se 196.026	-39.3	-123.6	-0.0250 mg/L
3	Tl 190.800	582.1	393.6	0.0028 mg/L
3	V 292.402	-283.9	-446.6	-0.0040 mg/L
3	Zn 213.856	2621.3	3204.7	-0.0033 mg/L

ean Data

D: ICSA 1362 Seq. No.: 8 Sample No.: 3 A/S Pos: 7
ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 11:31:13 AM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	-464.9	-0.0023	0.00075	mg/L				32.70%
l 308.215	18008563.6	493.6	2.82	mg/L				0.57%
s 188.979	21.0	0.0010	0.00737	mg/L				723.26%
a 233.527	1401.2	0.0040	0.00018	mg/L				4.44%
e 313.107	202.4	0.0001	0.00005	mg/L				67.15%
a 227.547	135542.3	522.5	5.11	mg/L				0.98%
d 228.802	-43.0	-0.0003	0.00043	mg/L				126.20%
o 228.616	431.9	0.0041	0.00061	mg/L				14.89%
r 267.716	813.4	0.0044	0.00117	mg/L				26.46%
u 324.754	-2224.3	0.0015	0.00034	mg/L				22.80%
e 273.955	9216045.2	185.1	1.15	mg/L				0.62%
g 279.079	15429091.9	485.8	4.32	mg/L				0.89%
n 257.610	10649.6	-0.0005	0.00010	mg/L				22.28%
o 202.030	170.7	0.0019	0.00262	mg/L				140.96%
i 231.604	249.1	0.0049	0.00091	mg/L				18.59%
b 220.353	-382.7	0.0021	0.00454	mg/L				215.38%
b 206.833	103.0	0.0015	0.00126	mg/L				83.12%
e 196.026	-71.0	-0.0057	0.01720	mg/L				299.13%
l 190.800	383.7	-0.0003	0.00387	mg/L				>999.9%
292.402	-335.0	-0.0030	0.00118	mg/L				39.20%
n 213.856	3147.4	-0.0040	0.00069	mg/L				17.31%

eplicate Data

D: ICSAB 1364 Date: 11/21/02 11:34:01 AM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	206395.5	207469.4	1.028	mg/L		
1	Al 308.215	17458776.5	17454179.0	478.4	mg/L		
1	As 188.979	2488.1	2418.6	0.9257	mg/L		
1	Ba 233.527	185123.2	185988.8	0.5265	mg/L		
1	Be 313.107	1359653.8	1360068.1	0.4909	mg/L		
1	Ca 227.547	133262.7	132979.3	512.6	mg/L		
1	Cd 228.802	124205.3	124115.5	0.9796	mg/L		
1	Co 228.616	49466.5	49883.2	0.4715	mg/L		
1	Cr 267.716	45916.1	46075.9	0.5050	mg/L		
1	Cu 324.754	157908.3	155621.4	0.4968	mg/L		
1	Fe 273.955	9037811.6	9034821.8	181.4	mg/L		
1	Mg 279.079	15006542.1	15005946.0	472.5	mg/L		
1	Mn 257.610	792510.7	791390.0	0.4916	mg/L		
1	Mo 202.030	17959.1	17987.6	0.9458	mg/L		
1	Ni 231.604	46767.7	46492.5	0.9187	mg/L		
1	Pb 220.353	13567.0	13382.1	0.9223	mg/L		
1	Sb 206.833	4301.1	4240.4	0.9769	mg/L		
1	Se 196.026	2620.6	2536.3	0.9413	mg/L		
1	Tl 190.800	3632.4	3443.9	0.8925	mg/L		

1 V 292.402	54441.4	54278.7	0.4868 mg/L
1 Zn 213.856	105061.7	105645.1	0.9675 mg/L
2 Ag 328.068	201188.5	202262.5	1.003 mg/L
2 Al 308.215	17806562.4	17801964.9	487.9 mg/L
2 As 188.979	2596.8	2527.4	0.9665 mg/L
2 Ba 233.527	180750.5	181616.1	0.5141 mg/L
2 Be 313.107	1310946.7	1311360.9	0.4733 mg/L
2 Ca 227.547	129243.2	128959.7	497.3 mg/L
2 Cd 228.802	121046.5	120956.8	0.9546 mg/L
2 Co 228.616	48347.5	48764.2	0.4610 mg/L
2 Cr 267.716	44931.2	45091.0	0.4940 mg/L
2 Cu 324.754	153995.1	151708.2	0.4847 mg/L
2 Fe 273.955	9168541.7	9165551.8	184.1 mg/L
2 Mg 279.079	15192272.1	15191675.9	478.3 mg/L
2 Mn 257.610	774439.3	773318.6	0.4802 mg/L
2 Mo 202.030	17923.8	17952.3	0.9438 mg/L
2 Ni 231.604	45231.1	44955.9	0.8883 mg/L
2 Pb 220.353	13539.4	13354.5	0.9209 mg/L
2 Sb 206.833	4230.4	4169.8	0.9599 mg/L
2 Se 196.026	2695.4	2611.1	0.9685 mg/L
2 Tl 190.800	3667.4	3478.9	0.9008 mg/L
2 V 292.402	53543.3	53380.6	0.4788 mg/L
2 Zn 213.856	102063.5	102646.9	0.9347 mg/L
3 Ag 328.068	203284.5	204358.5	1.013 mg/L
3 Al 308.215	17446743.8	17442146.2	478.1 mg/L
3 As 188.979	2564.4	2495.0	0.9548 mg/L
3 Ba 233.527	182436.1	183301.7	0.5189 mg/L
3 Be 313.107	1326920.6	1327334.8	0.4790 mg/L
3 Ca 227.547	131248.6	130965.1	504.9 mg/L
3 Cd 228.802	122806.9	122717.2	0.9685 mg/L
3 Co 228.616	49141.1	49557.8	0.4685 mg/L
3 Cr 267.716	45399.4	45559.2	0.4993 mg/L
3 Cu 324.754	156292.0	154005.1	0.4917 mg/L
3 Fe 273.955	8988912.1	8985922.3	180.5 mg/L
3 Mg 279.079	14969854.6	14969258.5	471.3 mg/L
3 Mn 257.610	783976.9	782856.2	0.4863 mg/L
3 Mo 202.030	17482.9	17511.4	0.9206 mg/L
3 Ni 231.604	46071.2	45796.0	0.9049 mg/L
3 Pb 220.353	13404.3	13219.4	0.9114 mg/L
3 Sb 206.833	4127.6	4066.9	0.9356 mg/L
3 Se 196.026	2581.4	2497.1	0.9268 mg/L
3 Tl 190.800	3560.9	3372.3	0.8719 mg/L
3 V 292.402	53885.7	53723.0	0.4818 mg/L
3 Zn 213.856	103966.4	104549.8	0.9573 mg/L

an Data

: ICSAB 1364 Seq. No.: 9 Sample No.: 4 A/S Pos: 8
ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 11:34:01 AM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
328.068	204696.8	1.015	0.0130	mg/L				1.28%
308.215	17566096.7	481.5	5.60	mg/L				1.16%
188.979	2480.3	0.9490	0.02101	mg/L				2.21%
a 233.527	183635.5	0.5198	0.00624	mg/L				1.20%
e 313.107	1332921.3	0.4811	0.00896	mg/L				1.86%
227.547	130968.1	504.9	7.66	mg/L				1.52%
228.802	122596.5	0.9676	0.01249	mg/L				1.29%
228.616	49401.7	0.4670	0.00544	mg/L				1.17%
r 267.716	45575.4	0.4994	0.00548	mg/L				1.10%
324.754	153778.2	0.4911	0.00611	mg/L				1.24%
273.955	9062098.6	182.0	1.87	mg/L				1.02%
g 279.079	15055626.8	474.0	3.75	mg/L				0.79%
n 257.610	782521.6	0.4860	0.00574	mg/L				1.18%
202.030	17817.1	0.9367	0.01401	mg/L				1.50%
231.604	45748.1	0.9040	0.01520	mg/L				1.68%
220.353	13318.7	0.9182	0.00594	mg/L				0.65%
206.833	4159.0	0.9575	0.02075	mg/L				2.17%
196.026	2548.2	0.9455	0.02120	mg/L				2.24%

'l 190.800	3431.7	0.8884	0.01485 mg/L		1.67%
' 292.402	53794.1	0.4825	0.00407 mg/L		0.84%
:n 213.856	104280.6	0.9532	0.01676 mg/L		1.76%

:eplicate Data ----------
D: CCV 1379B Date: 11/21/02 11:37:08 AM

:epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	209213.4	210287.4	1.042	mg/L		
1	Al 308.215	197145.4	192547.8	5.277	mg/L		
1	As 188.979	1419.7	1350.3	0.5237	mg/L		
1	Ba 233.527	1831112.3	1831977.9	5.186	mg/L		
1	Be 313.107	1406709.2	1407123.4	0.5078	mg/L		
1	Ca 227.547	13773.5	13490.0	51.59	mg/L		
1	Cd 228.802	133417.4	133327.6	1.052	mg/L		
1	Co 228.616	222703.8	223120.5	2.109	mg/L		
1	Cr 267.716	47391.0	47550.8	0.5258	mg/L		
1	Cu 324.754	659478.4	657191.4	2.063	mg/L		
1	Fe 273.955	266505.8	263516.0	5.292	mg/L		
1	Mg 279.079	832180.6	831584.5	26.18	mg/L		
1	Mn 257.610	3292861.3	3291740.6	2.074	mg/L		
1	Mo 202.030	39219.5	39248.0	2.079	mg/L		
1	Ni 231.604	106178.8	105903.6	2.093	mg/L		
1	Pb 220.353	7884.1	7699.2	0.5152	mg/L		
1	Sb 206.833	8683.5	8622.9	2.047	mg/L		
1	Se 196.026	1527.4	1443.1	0.5258	mg/L		
1	Tl 190.800	1984.4	1795.9	0.5221	mg/L		
1	V 292.402	233167.9	233005.2	2.090	mg/L		
1	Zn 213.856	219350.6	219934.0	2.074	mg/L		
2	Ag 328.068	203779.2	204853.2	1.015	mg/L		
2	Al 308.215	191946.8	187349.2	5.135	mg/L		
2	As 188.979	1395.5	1326.1	0.5143	mg/L		
2	Ba 233.527	1826183.4	1827049.0	5.172	mg/L		
2	Be 313.107	1416197.9	1416612.1	0.5113	mg/L		
2	Ca 227.547	13533.2	13249.8	50.68	mg/L		
2	Cd 228.802	129652.0	129562.3	1.023	mg/L		
2	Co 228.616	217194.9	217611.6	2.057	mg/L		
2	Cr 267.716	45670.1	45829.9	0.5068	mg/L		
2	Cu 324.754	658880.3	656593.4	2.061	mg/L		
2	Fe 273.955	260527.1	257537.3	5.172	mg/L		
2	Mg 279.079	829536.8	828940.7	26.10	mg/L		
2	Mn 257.610	3274606.2	3273485.5	2.062	mg/L		
2	Mo 202.030	38572.7	38601.2	2.045	mg/L		
2	Ni 231.604	104809.7	104534.5	2.066	mg/L		
2	Pb 220.353	7787.5	7602.6	0.5087	mg/L		
2	Sb 206.833	8582.4	8521.8	2.023	mg/L		
2	Se 196.026	1509.0	1424.8	0.5190	mg/L		
2	Tl 190.800	1968.5	1779.9	0.5175	mg/L		
2	V 292.402	225498.9	225336.1	2.021	mg/L		
2	Zn 213.856	215700.5	216283.9	2.040	mg/L		
3	Ag 328.068	201339.0	202412.9	1.003	mg/L		
3	Al 308.215	186872.4	182274.8	4.996	mg/L		
3	As 188.979	1399.9	1330.5	0.5159	mg/L		
3	Ba 233.527	1808591.4	1809457.0	5.122	mg/L		
3	Be 313.107	1395689.8	1396104.0	0.5039	mg/L		
3	Ca 227.547	13402.5	13119.0	50.18	mg/L		
3	Cd 228.802	128774.1	128684.3	1.016	mg/L		
3	Co 228.616	215321.1	215737.8	2.039	mg/L		
3	Cr 267.716	45386.5	45546.3	0.5036	mg/L		
3	Cu 324.754	656953.2	654666.2	2.055	mg/L		
3	Fe 273.955	253536.1	250546.3	5.032	mg/L		
3	Mg 279.079	821678.0	821081.9	25.85	mg/L		
3	Mn 257.610	3271172.6	3270051.9	2.060	mg/L		
3	Mo 202.030	38151.4	38179.9	2.022	mg/L		
3	Ni 231.604	103705.2	103430.0	2.044	mg/L		
3	Pb 220.353	7787.6	7602.7	0.5087	mg/L		
3	Sb 206.833	8558.9	8498.3	2.018	mg/L		
3	Se 196.026	1495.5	1411.2	0.5141	mg/L		

3 Tl 190.800	1963.1	1774.6	0.5159	mg/L
3 V 292.402	223928.9	223766.1	2.007	mg/L
3 Zn 213.856	213211.7	213795.1	2.016	mg/L

an Data ----------

: CCV 1379B Seq. No.: 10 Sample No.: 5 A/S Pos: 6
ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 11:37:08 AM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	205851.2	1.020	0.0200	mg/L				1.96%
l 308.215	187390.6	5.136	0.1408	mg/L				2.74%
188.979	1335.6	0.5180	0.00506	mg/L				0.98%
233.527	1822828.0	5.160	0.0335	mg/L				0.65%
e 313.107	1406613.2	0.5076	0.00370	mg/L				0.73%
a 227.547	13286.3	50.82	0.720	mg/L				1.42%
228.802	130524.7	1.030	0.0195	mg/L				1.89%
228.616	218823.3	2.069	0.0363	mg/L				1.75%
r 267.716	46309.0	0.5121	0.01199	mg/L				2.34%
u 324.754	656150.3	2.060	0.0041	mg/L				0.20%
273.955	257199.9	5.165	0.1304	mg/L				2.52%
279.079	827202.3	26.04	0.172	mg/L				0.66%
n 257.610	3278426.0	2.065	0.0073	mg/L				0.36%
o 202.030	38676.4	2.049	0.0285	mg/L				1.39%
231.604	104622.7	2.067	0.0245	mg/L				1.18%
220.353	7634.8	0.5109	0.00373	mg/L				0.73%
206.833	8547.6	2.030	0.0155	mg/L				0.76%
e 196.026	1426.4	0.5196	0.00586	mg/L				1.13%
l 190.800	1783.4	0.5185	0.00322	mg/L				0.62%
292.402	227369.2	2.039	0.0443	mg/L				2.17%
n 213.856	216671.0	2.043	0.0291	mg/L				1.43%

eplicate Data ----------

: CCB Date: 11/21/02 11:42:58 AM

epl#	Element	Net Intensity	Corrected Intensity	Conc	Calib Units	Conc.	Sample Units
1	Ag 328.068	-1126.9	-52.9	-0.0003	mg/L		
1	Al 308.215	4611.1	13.6	0.0004	mg/L		
1	As 188.979	60.3	-9.2	-0.0035	mg/L		
1	Ba 233.527	-736.9	128.7	0.0004	mg/L		
1	Be 313.107	-35.5	378.7	0.0001	mg/L		
1	Ca 227.547	367.1	83.6	0.3198	mg/L		
1	Cd 228.802	96.5	6.8	0.0001	mg/L		
1	Co 228.616	-326.9	89.8	0.0008	mg/L		
1	Cr 267.716	-135.9	23.9	0.0003	mg/L		
1	Cu 324.754	2294.3	7.4	0.0000	mg/L		
1	Fe 273.955	2474.5	-515.3	-0.0103	mg/L		
1	Mg 279.079	3479.1	2883.0	0.0908	mg/L		
1	Mn 257.610	1136.3	15.6	0.0000	mg/L		
1	Mo 202.030	-26.7	1.8	0.0001	mg/L		
1	Ni 231.604	384.1	108.9	0.0022	mg/L		
1	Pb 220.353	198.8	13.9	0.0009	mg/L		
1	Sb 206.833	60.5	-0.1	0.0000	mg/L		
1	Se 196.026	76.1	-8.2	-0.0030	mg/L		
1	Tl 190.800	202.0	13.4	0.0039	mg/L		
1	V 292.402	313.9	151.2	0.0014	mg/L		
1	Zn 213.856	-553.2	30.2	0.0003	mg/L		
2	Ag 328.068	-1159.0	-85.0	-0.0004	mg/L		
2	Al 308.215	4585.5	-12.1	-0.0003	mg/L		
2	As 188.979	69.0	-0.4	-0.0002	mg/L		
2	Ba 233.527	-770.9	94.7	0.0003	mg/L		
2	Be 313.107	-30.2	384.0	0.0001	mg/L		
2	Ca 227.547	209.3	-74.1	-0.2836	mg/L		
2	Cd 228.802	91.8	2.1	0.0000	mg/L		
2	Co 228.616	-350.4	66.3	0.0006	mg/L		
2	Cr 267.716	-92.4	67.4	0.0007	mg/L		
2	Cu 324.754	2293.3	6.4	0.0000	mg/L		
2	Fe 273.955	2282.0	-707.8	-0.0142	mg/L		

2 Mg 279.079	3389.7	2793.5	0.0880	mg/L
2 Mn 257.610	913.9	-206.8	-0.0001	mg/L
2 Mo 202.030	-24.2	4.3	0.0002	mg/L
2 Ni 231.604	444.3	169.0	0.0033	mg/L
2 Pb 220.353	181.9	-3.0	-0.0002	mg/L
2 Sb 206.833	69.1	8.4	0.0020	mg/L
2 Se 196.026	80.9	-3.4	-0.0012	mg/L
2 Tl 190.800	192.7	4.2	0.0012	mg/L
2 V 292.402	254.0	91.3	0.0008	mg/L
2 Zn 213.856	-554.5	28.9	0.0003	mg/L
3 Ag 328.068	-1069.3	4.7	0.0000	mg/L
3 Al 308.215	4698.5	100.9	0.0028	mg/L
3 As 188.979	67.9	-1.6	-0.0006	mg/L
3 Ba 233.527	-806.2	59.4	0.0002	mg/L
3 Be 313.107	11.1	425.3	0.0002	mg/L
3 Ca 227.547	315.5	32.0	0.1225	mg/L
3 Cd 228.802	103.4	13.6	0.0001	mg/L
3 Co 228.616	-357.2	59.5	0.0006	mg/L
3 Cr 267.716	-72.2	87.6	0.0010	mg/L
3 Cu 324.754	2266.0	-21.0	-0.0001	mg/L
3 Fe 273.955	1978.5	-1011.3	-0.0203	mg/L
3 Mg 279.079	3188.5	2592.4	0.0816	mg/L
3 Mn 257.610	924.1	-196.6	-0.0001	mg/L
3 Mo 202.030	-29.5	-1.0	-0.0001	mg/L
3 Ni 231.604	461.6	186.4	0.0037	mg/L
3 Pb 220.353	178.5	-6.4	-0.0004	mg/L
3 Sb 206.833	57.3	-3.3	-0.0008	mg/L
3 Se 196.026	85.8	1.6	0.0006	mg/L
3 Tl 190.800	190.6	2.1	0.0006	mg/L
3 V 292.402	222.1	59.4	0.0005	mg/L
3 Zn 213.856	-582.5	0.9	0.0000	mg/L

ean Data ----------

D: CCB Seq. No.: 11 Sample No.: 6 A/S Pos: 1
ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 11:42:58 AM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-44.4	-0.0002	0.00023	mg/L				102.29%
l 308.215	34.1	0.0009	0.00162	mg/L				173.48%
s 188.979	-3.7	-0.0014	0.00182	mg/L				128.08%
a 233.527	94.3	0.0003	0.00010	mg/L				36.75%
e 313.107	396.0	0.0001	0.00001	mg/L				6.45%
a 227.547	13.8	0.0529	0.30765	mg/L				581.43%
d 228.802	7.5	0.0001	0.00005	mg/L				77.66%
o 228.616	71.9	0.0007	0.00015	mg/L				22.10%
r 267.716	59.6	0.0007	0.00036	mg/L				54.65%
u 324.754	-2.4	0.0000	0.00005	mg/L				673.43%
e 273.955	-744.8	-0.0150	0.00502	mg/L				33.58%
g 279.079	2756.3	0.0868	0.00469	mg/L				5.40%
n 257.610	-129.3	-0.0001	0.00008	mg/L				97.11%
o 202.030	1.7	0.0001	0.00014	mg/L				152.77%
i 231.604	154.8	0.0031	0.00080	mg/L				26.26%
b 220.353	1.5	0.0001	0.00073	mg/L				713.22%
b 206.833	1.7	0.0004	0.00145	mg/L				363.37%
e 196.026	-3.3	-0.0012	0.00177	mg/L				145.85%
l 190.800	6.6	0.0019	0.00176	mg/L				92.15%
292.402	100.6	0.0009	0.00042	mg/L				46.31%
n 213.856	20.0	0.0002	0.00016	mg/L				82.69%

eplicate Data ----------

D: M-BL 02M2368S Date: 11/21/02 11:47:05 AM

epl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1 Ag 328.068	-965.2	108.7	0.0005	mg/L	0.0270	ppm
1 Al 308.215	4492.7	-104.8	-0.0029	mg/L	-0.1437	ppm
1 As 188.979	71.1	1.6	0.0006	mg/L	0.0311	ppm
1 Ba 233.527	-841.8	23.8	0.0001	mg/L	0.0034	ppm

1	Be 313.107	-109.5	304.7	0.0001	mg/L	0.0055 ppm
1	Ca 227.547	222.4	-61.0	-0.2334	mg/L	-11.67 ppm
1	Cd 228.802	101.7	12.0	0.0001	mg/L	0.0047 ppm
1	Co 228.616	-266.7	150.0	0.0014	mg/L	0.0709 ppm
1	Cr 267.716	-241.6	-81.8	-0.0009	mg/L	-0.0452 ppm
1	Cu 324.754	2409.4	122.5	0.0004	mg/L	0.0192 ppm
1	Fe 273.955	1827.4	-1162.4	-0.0233	mg/L	-1.167 ppm
1	Mg 279.079	2311.6	1715.5	0.0540	mg/L	2.701 ppm
1	Mn 257.610	862.9	-257.8	-0.0002	mg/L	-0.0081 ppm
1	Mo 202.030	-33.2	-4.7	-0.0003	mg/L	-0.0126 ppm
1	Ni 231.604	433.9	158.7	0.0031	mg/L	0.1568 ppm
1	Pb 220.353	161.9	-23.0	-0.0015	mg/L	-0.0770 ppm
1	Sb 206.833	60.7	0.0	0.0000	mg/L	0.0004 ppm
1	Se 196.026	81.6	-2.7	-0.0010	mg/L	-0.0488 ppm
1	Tl 190.800	196.0	7.5	0.0022	mg/L	0.1086 ppm
1	V 292.402	241.4	78.7	0.0007	mg/L	0.0353 ppm
1	Zn 213.856	-522.4	61.0	0.0006	mg/L	0.0287 ppm
2	Ag 328.068	-1191.2	-117.2	-0.0006	mg/L	-0.0291 ppm
2	Al 308.215	4530.2	-67.4	-0.0018	mg/L	-0.0924 ppm
2	As 188.979	72.5	3.1	0.0012	mg/L	0.0595 ppm
2	Ba 233.527	-817.1	48.5	0.0001	mg/L	0.0069 ppm
2	Be 313.107	-111.2	303.0	0.0001	mg/L	0.0055 ppm
2	Ca 227.547	183.0	-100.4	-0.3841	mg/L	-19.20 ppm
2	Cd 228.802	98.2	8.4	0.0001	mg/L	0.0033 ppm
2	Co 228.616	-403.4	13.3	0.0001	mg/L	0.0063 ppm
2	Cr 267.716	-210.8	-51.0	-0.0006	mg/L	-0.0282 ppm
2	Cu 324.754	2322.9	35.9	0.0001	mg/L	0.0056 ppm
2	Fe 273.955	1745.1	-1244.8	-0.0250	mg/L	-1.250 ppm
2	Mg 279.079	2186.3	1590.2	0.0501	mg/L	2.503 ppm
2	Mn 257.610	825.9	-294.9	-0.0002	mg/L	-0.0093 ppm
2	Mo 202.030	-30.5	-2.0	-0.0001	mg/L	-0.0053 ppm
2	Ni 231.604	354.5	79.3	0.0016	mg/L	0.0783 ppm
2	Pb 220.353	185.1	0.2	0.0000	mg/L	0.0006 ppm
2	Sb 206.833	66.6	6.0	0.0014	mg/L	0.0716 ppm
2	Se 196.026	86.7	2.4	0.0009	mg/L	0.0435 ppm
2	Tl 190.800	190.3	1.7	0.0005	mg/L	0.0251 ppm
2	V 292.402	231.2	68.5	0.0006	mg/L	0.0307 ppm
2	Zn 213.856	-518.3	65.1	0.0006	mg/L	0.0307 ppm
3	Ag 328.068	-1175.3	-101.3	-0.0005	mg/L	-0.0251 ppm
3	Al 308.215	4586.7	-10.9	-0.0003	mg/L	-0.0149 ppm
3	As 188.979	67.8	-1.7	-0.0006	mg/L	-0.0318 ppm
3	Ba 233.527	-837.9	27.7	0.0001	mg/L	0.0039 ppm
3	Be 313.107	-483.3	-69.1	0.0000	mg/L	-0.0012 ppm
3	Ca 227.547	279.7	-3.7	-0.0142	mg/L	-0.7098 ppm
3	Cd 228.802	102.0	12.2	0.0001	mg/L	0.0048 ppm
3	Co 228.616	-305.5	111.2	0.0011	mg/L	0.0526 ppm
3	Cr 267.716	-142.7	17.1	0.0002	mg/L	0.0094 ppm
3	Cu 324.754	2156.0	-130.9	-0.0004	mg/L	-0.0205 ppm
3	Fe 273.955	1680.9	-1308.9	-0.0263	mg/L	-1.314 ppm
3	Mg 279.079	2283.9	1687.7	0.0531	mg/L	2.657 ppm
3	Mn 257.610	967.2	-153.6	-0.0001	mg/L	-0.0048 ppm
3	Mo 202.030	-32.3	-3.8	-0.0002	mg/L	-0.0101 ppm
3	Ni 231.604	271.5	-3.7	-0.0001	mg/L	-0.0037 ppm
3	Pb 220.353	175.9	-9.0	-0.0006	mg/L	-0.0302 ppm
3	Sb 206.833	65.8	5.2	0.0012	mg/L	0.0621 ppm
3	Se 196.026	79.4	-4.9	-0.0018	mg/L	-0.0887 ppm
3	Tl 190.800	193.3	4.7	0.0014	mg/L	0.0688 ppm
3	V 292.402	292.0	129.2	0.0012	mg/L	0.0579 ppm
3	Zn 213.856	-526.6	56.8	0.0005	mg/L	0.0268 ppm

ean Data ----------

D: M-BL 02M2368S Seq. No.: 12 Sample No.: 2 A/S Pos: 10
mple Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 11:47:05 AM

ement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-36.6	-0.0002	0.00063	mg/L	-0.0091	0.03126	ppm	344.55%
l 308.215	-61.0	-0.0017	0.00130	mg/L	-0.0837	0.06484	ppm	77.50%
s 188.979	1.0	0.0004	0.00093	mg/L	0.0196	0.04672	ppm	238.59%

a 233.527	33.3	0.0001	0.00004 mg/L	0.0047	0.00188 ppm	39.80%
e 313.107	179.5	0.0001	0.00008 mg/L	0.0032	0.00389 ppm	119.92%
a 227.547	-55.1	-0.2106	0.18599 mg/L	-10.53	9.299 ppm	88.33%
d 228.802	10.9	0.0001	0.00002 mg/L	0.0043	0.00083 ppm	19.44%
o 228.616	91.5	0.0009	0.00067 mg/L	0.0432	0.03329 ppm	76.98%
r 267.716	-38.6	-0.0004	0.00056 mg/L	-0.0213	0.02798 ppm	131.21%
u 324.754	9.2	0.0000	0.00040 mg/L	0.0014	0.02021 ppm	>999.9%
e 273.955	-1238.7	-0.0249	0.00147 mg/L	-1.244	0.0737 ppm	5.93%
g 279.079	1664.4	0.0524	0.00207 mg/L	2.620	0.1036 ppm	3.95%
n 257.610	-235.4	-0.0001	0.00005 mg/L	-0.0074	0.00231 ppm	31.12%
o 202.030	-3.5	-0.0002	0.00007 mg/L	-0.0093	0.00368 ppm	39.53%
i 231.604	78.1	0.0015	0.00160 mg/L	0.0772	0.08023 ppm	103.98%
b 220.353	-10.6	-0.0007	0.00078 mg/L	-0.0356	0.03910 ppm	109.97%
b 206.833	3.7	0.0009	0.00077 mg/L	0.0447	0.03864 ppm	86.44%
e 196.026	-1.7	-0.0006	0.00136 mg/L	-0.0313	0.06777 ppm	216.23%
l 190.800	4.6	0.0013	0.00084 mg/L	0.0675	0.04179 ppm	61.94%
292.402	92.1	0.0008	0.00029 mg/L	0.0413	0.01459 ppm	35.30%
n 213.856	60.9	0.0006	0.00004 mg/L	0.0287	0.00196 ppm	6.81%

eplicate Data ----------

D: LCS-02M2368 Date: 11/21/02 11:50:33 AM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	203142.1	204216.1	1.012	mg/L	50.62	ppm
1	Al 308.215	80131.7	75534.1	2.070	mg/L	103.5	ppm
1	As 188.979	1349.4	1279.9	0.4995	mg/L	24.97	ppm
1	Ba 233.527	1495779.1	1496644.7	4.237	mg/L	211.8	ppm
1	Be 313.107	545753.6	546167.8	0.1971	mg/L	9.856	ppm
1	Ca 227.547	5583.4	5299.9	20.27	mg/L	1014	ppm
1	Cd 228.802	33310.6	33220.9	0.2622	mg/L	13.11	ppm
1	Co 228.616	112772.6	113189.3	1.070	mg/L	53.50	ppm
1	Cr 267.716	94225.2	94385.0	1.044	mg/L	52.18	ppm
1	Cu 324.754	323878.4	321591.5	1.010	mg/L	50.48	ppm
1	Fe 273.955	51131.0	48141.1	0.9668	mg/L	48.34	ppm
1	Mg 279.079	321604.4	321008.2	10.11	mg/L	505.4	ppm
1	Mn 257.610	1608949.7	1607829.0	1.013	mg/L	50.65	ppm
1	Mo 202.030	39125.7	39154.2	2.074	mg/L	103.7	ppm
1	Ni 231.604	53642.4	53367.2	1.055	mg/L	52.73	ppm
1	Pb 220.353	46986.6	46801.7	3.132	mg/L	156.6	ppm
1	Sb 206.833	2171.8	2111.2	0.4746	mg/L	23.73	ppm
1	Se 196.026	1461.0	1376.8	0.5001	mg/L	25.00	ppm
1	Tl 190.800	1999.6	1811.1	0.5266	mg/L	26.33	ppm
1	V 292.402	229833.2	229670.5	2.060	mg/L	103.0	ppm
1	Zn 213.856	56543.0	57126.4	0.5388	mg/L	26.94	ppm
2	Ag 328.068	200704.5	201778.4	1.000	mg/L	50.01	ppm
2	Al 308.215	79558.5	74960.9	2.055	mg/L	102.7	ppm
2	As 188.979	1345.0	1275.5	0.4977	mg/L	24.88	ppm
2	Ba 233.527	1484577.9	1485443.5	4.205	mg/L	210.2	ppm
2	Be 313.107	542165.4	542579.6	0.1958	mg/L	9.791	ppm
2	Ca 227.547	5542.9	5259.5	20.12	mg/L	1006	ppm
2	Cd 228.802	32565.5	32475.8	0.2563	mg/L	12.82	ppm
2	Co 228.616	110692.3	111109.0	1.050	mg/L	52.52	ppm
2	Cr 267.716	93113.8	93273.6	1.031	mg/L	51.57	ppm
2	Cu 324.754	318873.8	316586.8	0.9938	mg/L	49.69	ppm
2	Fe 273.955	50966.9	47977.1	0.9635	mg/L	48.17	ppm
2	Mg 279.079	318007.6	317411.5	9.994	mg/L	499.7	ppm
2	Mn 257.610	1585003.0	1583882.3	0.9979	mg/L	49.89	ppm
2	Mo 202.030	38700.5	38729.0	2.052	mg/L	102.6	ppm
2	Ni 231.604	52761.0	52485.7	1.037	mg/L	51.86	ppm
2	Pb 220.353	46431.7	46246.8	3.094	mg/L	154.7	ppm
2	Sb 206.833	2159.4	2098.8	0.4720	mg/L	23.60	ppm
2	Se 196.026	1448.5	1364.2	0.4955	mg/L	24.78	ppm
2	Tl 190.800	1979.4	1790.9	0.5207	mg/L	26.03	ppm
2	V 292.402	226970.3	226807.5	2.034	mg/L	101.7	ppm
2	Zn 213.856	55117.9	55701.3	0.5253	mg/L	26.27	ppm
3	Ag 328.068	201076.6	202150.6	1.002	mg/L	50.10	ppm
3	Al 308.215	79716.1	75118.5	2.059	mg/L	102.9	ppm
3	As 188.979	1354.9	1285.4	0.5016	mg/L	25.08	ppm

3	Ba 233.527	1488209.8	1489075.4	4.215	mg/L	210.8 ppm
3	Be 313.107	542770.8	543185.0	0.1960	mg/L	9.802 ppm
3	Ca 227.547	5585.1	5301.7	20.28	mg/L	1014 ppm
3	Cd 228.802	32938.2	32848.4	0.2593	mg/L	12.96 ppm
3	Co 228.616	111832.7	112249.4	1.061	mg/L	53.05 ppm
3	Cr 267.716	93905.1	94064.8	1.040	mg/L	52.01 ppm
3	Cu 324.754	321596.9	319310.0	1.002	mg/L	50.12 ppm
3	Fe 273.955	50518.5	47528.7	0.9545	mg/L	47.72 ppm
3	Mg 279.079	320020.7	319424.6	10.06	mg/L	502.9 ppm
3	Mn 257.610	1599303.3	1598182.5	1.007	mg/L	50.34 ppm
3	Mo 202.030	39155.7	39184.2	2.076	mg/L	103.8 ppm
3	Ni 231.604	53418.8	53143.6	1.050	mg/L	52.51 ppm
3	Pb 220.353	46837.8	46652.9	3.122	mg/L	156.1 ppm
3	Sb 206.833	2170.5	2109.9	0.4744	mg/L	23.72 ppm
3	Se 196.026	1465.4	1381.1	0.5016	mg/L	25.08 ppm
3	Tl 190.800	1990.6	1802.0	0.5239	mg/L	26.20 ppm
3	V 292.402	228810.6	228647.8	2.051	mg/L	102.5 ppm
3	Zn 213.856	56117.7	56701.1	0.5348	mg/L	26.74 ppm

ean Data ----------

D: LCS-02M2368 Seq. No.: 13 Sample No.: 3 A/S Pos: 11
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 11:50:33 AM

	Mean Corr.	Mean		Calib	Mean		Sample	
ement	Intensity	Conc.	Std.Dev.	Units	Conc.	Std.Dev.	Units	RSD
g 328.068	202715.0	1.005	0.0065	mg/L	50.24	0.325	ppm	0.65%
308.215	75204.5	2.061	0.0081	mg/L	103.1	0.41	ppm	0.39%
s 188.979	1280.3	0.4996	0.00194	mg/L	24.98	0.097	ppm	0.39%
233.527	1490387.9	4.219	0.0162	mg/L	210.9	0.81	ppm	0.38%
313.107	543977.5	0.1963	0.00069	mg/L	9.816	0.0347	ppm	0.35%
227.547	5287.0	20.22	0.091	mg/L	1011	4.6	ppm	0.45%
d 228.802	32848.4	0.2593	0.00294	mg/L	12.96	0.147	ppm	1.13%
228.616	112182.6	1.060	0.0098	mg/L	53.02	0.492	ppm	0.93%
267.716	93907.8	1.038	0.0063	mg/L	51.92	0.316	ppm	0.61%
324.754	319162.8	1.002	0.0079	mg/L	50.09	0.393	ppm	0.79%
e 273.955	47882.3	0.9616	0.00637	mg/L	48.08	0.318	ppm	0.66%
g 279.079	319281.4	10.05	0.057	mg/L	502.6	2.84	ppm	0.56%
257.610	1596631.3	1.006	0.0076	mg/L	50.30	0.380	ppm	0.75%
202.030	39022.4	2.067	0.0135	mg/L	103.4	0.67	ppm	0.65%
i 231.604	52998.8	1.047	0.0091	mg/L	52.36	0.453	ppm	0.86%
b 220.353	46567.1	3.116	0.0192	mg/L	155.8	0.96	ppm	0.62%
206.833	2106.6	0.4736	0.00145	mg/L	23.68	0.072	ppm	0.31%
196.026	1374.0	0.4991	0.00318	mg/L	24.95	0.159	ppm	0.64%
190.800	1801.3	0.5237	0.00294	mg/L	26.19	0.147	ppm	0.56%
292.402	228375.3	2.048	0.0130	mg/L	102.4	0.65	ppm	0.64%
213.856	56509.6	0.5330	0.00690	mg/L	26.65	0.345	ppm	1.29%

atrix Check Sample: LCS-02M2368

	Expected	Measured		Calib	
ement	Conc.	Conc.	Std.Dev.	Units	% Recovery
g 328.068	0.9998	1.005	0.007	mg/L	100.507
308.215	1.998	2.061	0.008	mg/L	103.146
188.979	0.5004	0.4996	0.002	mg/L	99.839
233.527	4.000	4.219	0.016	mg/L	105.468
e 313.107	0.2001	0.1963	0.001	mg/L	98.129
227.547	19.79	20.22	0.091	mg/L	102.159
228.802	0.2501	0.2593	0.003	mg/L	103.667
228.616	1.001	1.060	0.010	mg/L	105.958
267.716	0.9996	1.038	0.006	mg/L	103.881
324.754	1.000	1.002	0.008	mg/L	100.187
273.955	0.9751	0.9616	0.006	mg/L	98.646
279.079	10.05	10.05	0.057	mg/L	100.003
257.610	0.9999	1.006	0.008	mg/L	100.606
202.030	2.000	2.067	0.013	mg/L	103.365
231.604	1.002	1.047	0.009	mg/L	104.572
220.353	2.999	3.116	0.019	mg/L	103.885
206.833	0.5009	0.4736	0.001	mg/L	94.548
e 196.026	0.4994	0.4991	0.003	mg/L	99.938
190.800	0.5013	0.5237	0.003	mg/L	104.475

V 292.402	2.001	2.048	0.013	mg/L	102.370
Zn 213.856	0.5006	0.5330	0.007	mg/L	106.476

Replicate Data ----------
ID: LCSD-02M2368 Date: 11/21/02 11:54:05 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	201046.9	202120.8	1.002	mg/L	50.10	ppm
1	Al 308.215	79608.9	75011.3	2.056	mg/L	102.8	ppm
1	As 188.979	1356.6	1287.1	0.5022	mg/L	25.11	ppm
1	Ba 233.527	1492189.7	1493055.3	4.226	mg/L	211.3	ppm
1	Be 313.107	544634.5	545048.8	0.1967	mg/L	9.835	ppm
1	Ca 227.547	5621.0	5337.6	20.41	mg/L	1021	ppm
1	Cd 228.802	32609.9	32520.2	0.2567	mg/L	12.83	ppm
1	Co 228.616	111443.2	111859.9	1.057	mg/L	52.87	ppm
1	Cr 267.716	93620.6	93780.4	1.037	mg/L	51.85	ppm
1	Cu 324.754	319505.0	317218.0	0.9958	mg/L	49.79	ppm
1	Fe 273.955	50752.3	47762.4	0.9592	mg/L	47.96	ppm
1	Mg 279.079	319258.4	318662.2	10.03	mg/L	501.7	ppm
1	Mn 257.610	1592507.0	1591386.3	1.003	mg/L	50.13	ppm
1	Mo 202.030	38885.7	38914.2	2.061	mg/L	103.1	ppm
1	Ni 231.604	53184.4	52909.2	1.045	mg/L	52.27	ppm
1	Pb 220.353	46503.4	46318.5	3.099	mg/L	155.0	ppm
1	Sb 206.833	2191.0	2130.3	0.4793	mg/L	23.97	ppm
1	Se 196.026	1473.9	1389.6	0.5047	mg/L	25.24	ppm
1	Tl 190.800	1984.0	1795.4	0.5220	mg/L	26.10	ppm
1	V 292.402	227660.6	227497.9	2.040	mg/L	102.0	ppm
1	Zn 213.856	55361.0	55944.4	0.5276	mg/L	26.38	ppm
2	Ag 328.068	205646.7	206720.7	1.025	mg/L	51.24	ppm
2	Al 308.215	81494.5	76896.9	2.108	mg/L	105.4	ppm
2	As 188.979	1356.4	1287.0	0.5023	mg/L	25.12	ppm
2	Ba 233.527	1522192.9	1523058.5	4.311	mg/L	215.6	ppm
2	Be 313.107	556183.7	556597.9	0.2009	mg/L	10.04	ppm
2	Ca 227.547	5621.0	5337.6	20.41	mg/L	1021	ppm
2	Cd 228.802	33657.4	33567.7	0.2649	mg/L	13.25	ppm
2	Co 228.616	114294.4	114711.1	1.084	mg/L	54.22	ppm
2	Cr 267.716	95742.3	95902.1	1.060	mg/L	53.02	ppm
2	Cu 324.754	329378.2	327091.2	1.027	mg/L	51.34	ppm
2	Fe 273.955	51387.4	48397.5	0.9719	mg/L	48.60	ppm
2	Mg 279.079	326323.6	325727.5	10.26	mg/L	512.8	ppm
2	Mn 257.610	1634998.8	1633878.1	1.029	mg/L	51.47	ppm
2	Mo 202.030	39926.0	39954.5	2.116	mg/L	105.8	ppm
2	Ni 231.604	54467.7	54192.5	1.071	mg/L	53.54	ppm
2	Pb 220.353	47809.1	47624.2	3.187	mg/L	159.3	ppm
2	Sb 206.833	2194.5	2133.9	0.4795	mg/L	23.98	ppm
2	Se 196.026	1480.0	1395.8	0.5070	mg/L	25.35	ppm
2	Tl 190.800	2014.0	1825.5	0.5307	mg/L	26.54	ppm
2	V 292.402	233310.1	233147.3	2.091	mg/L	104.6	ppm
2	Zn 213.856	57299.3	57882.7	0.5459	mg/L	27.30	ppm
3	Ag 328.068	206907.2	207981.2	1.031	mg/L	51.55	ppm
3	Al 308.215	81917.4	77319.8	2.119	mg/L	106.0	ppm
3	As 188.979	1375.0	1305.6	0.5095	mg/L	25.48	ppm
3	Ba 233.527	1524679.0	1525544.6	4.318	mg/L	215.9	ppm
3	Be 313.107	553238.3	553652.5	0.1998	mg/L	9.991	ppm
3	Ca 227.547	5644.0	5360.5	20.50	mg/L	1025	ppm
3	Cd 228.802	33534.4	33444.6	0.2640	mg/L	13.20	ppm
3	Co 228.616	114152.4	114569.1	1.083	mg/L	54.15	ppm
3	Cr 267.716	96239.2	96398.9	1.066	mg/L	53.30	ppm
3	Cu 324.754	330098.8	327811.8	1.029	mg/L	51.45	ppm
3	Fe 273.955	51574.6	48584.8	0.9757	mg/L	48.78	ppm
3	Mg 279.079	325691.4	325095.2	10.24	mg/L	511.8	ppm
3	Mn 257.610	1631257.2	1630136.5	1.027	mg/L	51.35	ppm
3	Mo 202.030	39849.4	39877.9	2.112	mg/L	105.6	ppm
3	Ni 231.604	54164.3	53889.1	1.065	mg/L	53.24	ppm
3	Pb 220.353	47765.6	47580.7	3.184	mg/L	159.2	ppm
3	Sb 206.833	2211.4	2150.8	0.4834	mg/L	24.17	ppm
3	Se 196.026	1467.3	1383.1	0.5023	mg/L	25.12	ppm
3	Tl 190.800	2016.5	1828.0	0.5315	mg/L	26.57	ppm

3 V 292.402	234575.9	234413.2	2.102 mg/L	105.1 ppm
3 Zn 213.856	56971.6	57555.0	0.5428 mg/L	27.14 ppm

lean Data ----------

): LCSD-02M2368 Seq. No.: 14 Sample No.: 4 A/S Pos: 12
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 11:54:05 AM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	205607.6	1.019	0.0153	mg/L	50.96	0.765	ppm	1.50%
l 308.215	76409.4	2.094	0.0337	mg/L	104.7	1.68	ppm	1.61%
s 188.979	1293.2	0.5047	0.00419	mg/L	25.23	0.209	ppm	0.83%
233.527	1513886.1	4.285	0.0512	mg/L	214.3	2.56	ppm	1.19%
313.107	551766.4	0.1991	0.00217	mg/L	9.957	0.1083	ppm	1.09%
a 227.547	5345.2	20.44	0.051	mg/L	1022	2.5	ppm	0.25%
d 228.802	33177.5	0.2619	0.00452	mg/L	13.09	0.226	ppm	1.73%
228.616	113713.4	1.075	0.0152	mg/L	53.75	0.759	ppm	1.41%
267.716	95360.5	1.054	0.0154	mg/L	52.72	0.769	ppm	1.46%
u 324.754	324040.4	1.017	0.0186	mg/L	50.86	0.929	ppm	1.83%
e 273.955	48248.2	0.9689	0.00866	mg/L	48.45	0.433	ppm	0.89%
279.079	323161.6	10.17	0.123	mg/L	508.7	6.15	ppm	1.21%
257.610	1618467.0	1.020	0.0148	mg/L	50.98	0.741	ppm	1.45%
o 202.030	39582.2	2.097	0.0307	mg/L	104.8	1.54	ppm	1.46%
i 231.604	53663.6	1.060	0.0133	mg/L	53.02	0.663	ppm	1.25%
220.353	47174.5	3.156	0.0496	mg/L	157.8	2.48	ppm	1.57%
206.833	2138.3	0.4808	0.00229	mg/L	24.04	0.115	ppm	0.48%
e 196.026	1389.5	0.5047	0.00231	mg/L	25.23	0.115	ppm	0.46%
l 190.800	1816.3	0.5281	0.00527	mg/L	26.40	0.263	ppm	1.00%
292.402	231686.1	2.078	0.0330	mg/L	103.9	1.65	ppm	1.59%
213.856	57127.4	0.5388	0.00978	mg/L	26.94	0.489	ppm	1.82%

atrix Check Sample: LCSD-02M2368

lement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
g 328.068	0.9998	1.019	0.015	mg/L	101.941
308.215	1.998	2.094	0.034	mg/L	104.797
188.979	0.5004	0.5047	0.004	mg/L	100.859
a 233.527	4.000	4.285	0.051	mg/L	107.131
e 313.107	0.2001	0.1991	0.002	mg/L	99.534
227.547	19.79	20.44	0.051	mg/L	103.271
228.802	0.2501	0.2619	0.005	mg/L	104.706
228.616	1.001	1.075	0.015	mg/L	107.405
r 267.716	0.9996	1.054	0.015	mg/L	105.488
324.754	1.000	1.017	0.019	mg/L	101.718
273.955	0.9751	0.9689	0.009	mg/L	99.381
g 279.079	10.05	10.17	0.123	mg/L	101.225
257.610	0.9999	1.020	0.015	mg/L	101.982
202.030	2.000	2.097	0.031	mg/L	104.847
231.604	1.002	1.060	0.013	mg/L	105.885
220.353	2.999	3.156	0.050	mg/L	105.240
206.833	0.5009	0.4808	0.002	mg/L	95.972
e 196.026	0.4994	0.5047	0.002	mg/L	101.060
190.800	0.5013	0.5281	0.005	mg/L	105.344
292.402	2.001	2.078	0.033	mg/L	103.854
213.856	0.5006	0.5388	0.010	mg/L	107.641

plicate Data ----------

: 6141-1 S F=50 Date: 11/21/02 11:57:37 AM

pl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1283.3	-209.4	-0.0010	mg/L	-0.0519	ppm
1	Al 308.215	2091761.5	2087163.9	57.21	mg/L	2860	ppm
1	As 188.979	-2.0	-71.4	0.0407	mg/L	2.037	ppm
1	Ba 233.527	171924.8	172790.4	0.4891	mg/L	24.46	ppm
1	Be 313.107	1418.2	1832.5	0.0007	mg/L	0.0331	ppm
1	Ca 227.547	682550.2	682266.8	2609	mg/L	130500	ppm
1	Cd 228.802	405.7	316.0	0.0025	mg/L	0.1247	ppm

1	Co 228.616	2586.7	3003.4	0.0284	mg/L	1.420 ppm
1	Cr 267.716	11348.1	11507.9	0.1272	mg/L	6.362 ppm
1	Cu 324.754	13168.4	10881.4	0.0342	mg/L	1.708 ppm
1	Fe 273.955	3151959.8	3148969.9	63.24	mg/L	3162 ppm
1	Mg 279.079	2008328.2	2007732.1	63.21	mg/L	3161 ppm
1	Mn 257.610	2309696.9	2308576.2	1.454	mg/L	72.72 ppm
1	Mo 202.030	-57.9	-29.4	-0.0016	mg/L	-0.0779 ppm
1	Ni 231.604	3207.6	2932.4	0.0579	mg/L	2.897 ppm
1	Pb 220.353	628.9	444.0	0.0422	mg/L	2.109 ppm
1	Sb 206.833	94.4	33.7	0.0018	mg/L	0.0925 ppm
1	Se 196.026	52.0	-32.2	0.0032	mg/L	0.1590 ppm
1	Tl 190.800	280.0	91.5	0.0120	mg/L	0.5987 ppm
1	V 292.402	13924.4	13761.6	0.1234	mg/L	6.171 ppm
1	Zn 213.856	14974.2	15557.6	0.1400	mg/L	7.002 ppm
2	Ag 328.068	-1236.5	-162.5	-0.0008	mg/L	-0.0403 ppm
2	Al 308.215	2145464.7	2140867.1	58.68	mg/L	2934 ppm
2	As 188.979	-11.1	-80.6	0.0376	mg/L	1.879 ppm
2	Ba 233.527	168942.4	169808.0	0.4807	mg/L	24.03 ppm
2	Be 313.107	1318.3	1732.5	0.0006	mg/L	0.0313 ppm
2	Ca 227.547	696423.0	696139.5	2663	mg/L	133100 ppm
2	Cd 228.802	396.3	306.6	0.0024	mg/L	0.1210 ppm
2	Co 228.616	2525.4	2942.1	0.0278	mg/L	1.391 ppm
2	Cr 267.716	11248.2	11408.0	0.1261	mg/L	6.307 ppm
2	Cu 324.754	13050.3	10763.4	0.0338	mg/L	1.689 ppm
2	Fe 273.955	3213882.3	3210892.5	64.48	mg/L	3224 ppm
2	Mg 279.079	2038193.8	2037597.7	64.15	mg/L	3208 ppm
2	Mn 257.610	2354374.5	2353253.8	1.483	mg/L	74.13 ppm
2	Mo 202.030	-62.1	-33.6	-0.0018	mg/L	-0.0891 ppm
2	Ni 231.604	3158.0	2882.8	0.0570	mg/L	2.848 ppm
2	Pb 220.353	629.7	444.8	0.0425	mg/L	2.125 ppm
2	Sb 206.833	87.8	27.1	0.0003	mg/L	0.0128 ppm
2	Se 196.026	42.9	-41.4	0.0001	mg/L	0.0061 ppm
2	Tl 190.800	281.6	93.1	0.0121	mg/L	0.6056 ppm
2	V 292.402	14037.2	13874.5	0.1244	mg/L	6.222 ppm
2	Zn 213.856	15175.8	15759.2	0.1418	mg/L	7.091 ppm
3	Ag 328.068	-992.7	81.2	0.0004	mg/L	0.0201 ppm
3	Al 308.215	2135395.4	2130797.9	58.40	mg/L	2920 ppm
3	As 188.979	-12.2	-81.7	0.0374	mg/L	1.870 ppm
3	Ba 233.527	168747.6	169613.2	0.4801	mg/L	24.01 ppm
3	Be 313.107	1282.1	1696.3	0.0006	mg/L	0.0306 ppm
3	Ca 227.547	688678.2	688394.8	2633	mg/L	131600 ppm
3	Cd 228.802	384.5	294.7	0.0023	mg/L	0.1163 ppm
3	Co 228.616	2526.0	2942.7	0.0278	mg/L	1.391 ppm
3	Cr 267.716	11299.9	11459.7	0.1267	mg/L	6.336 ppm
3	Cu 324.754	13110.6	10823.6	0.0340	mg/L	1.699 ppm
3	Fe 273.955	3209218.4	3206228.5	64.39	mg/L	3219 ppm
3	Mg 279.079	2031117.8	2030521.6	63.93	mg/L	3197 ppm
3	Mn 257.610	2328255.7	2327135.0	1.466	mg/L	73.31 ppm
3	Mo 202.030	-57.4	-28.9	-0.0015	mg/L	-0.0766 ppm
3	Ni 231.604	3112.2	2837.0	0.0561	mg/L	2.803 ppm
3	Pb 220.353	633.5	448.7	0.0426	mg/L	2.132 ppm
3	Sb 206.833	92.3	31.6	0.0013	mg/L	0.0660 ppm
3	Se 196.026	47.9	-36.4	0.0019	mg/L	0.0965 ppm
3	Tl 190.800	279.9	91.4	0.0116	mg/L	0.5811 ppm
3	V 292.402	13883.8	13721.0	0.1231	mg/L	6.153 ppm
3	Zn 213.856	15101.9	15685.3	0.1411	mg/L	7.056 ppm

ean Data ----------

D: 6141-1 S F=50 Seq. No.: 15 Sample No.: 5 A/S Pos: 13
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 11:57:37 AM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-96.9	-0.0005	0.00077	mg/L	-0.0240	0.03867	ppm	161.04%
l 308.215	2119609.6	58.10	0.782	mg/L	2905	39.1	ppm	1.35%
s 188.979	-77.9	0.0386	0.00188	mg/L	1.929	0.0939	ppm	4.87%
a 233.527	170737.2	0.4833	0.00504	mg/L	24.17	0.252	ppm	1.04%
e 313.107	1753.7	0.0006	0.00003	mg/L	0.0316	0.00127	ppm	4.02%
a 227.547	688933.7	2635	26.6	mg/L	131700	1329.5	ppm	1.01%

228.802	305.8	0.0024	0.00008 mg/L	0.1207	0.00420 ppm	3.48%
228.616	2962.7	0.0280	0.00033 mg/L	1.400	0.0167 ppm	1.19%
r 267.716	11458.5	0.1267	0.00055 mg/L	6.335	0.0276 ppm	0.44%
u 324.754	10822.8	0.0340	0.00019 mg/L	1.699	0.0093 ppm	0.55%
273.955	3188697.0	64.04	0.693 mg/L	3202	34.6 ppm	1.08%
279.079	2025283.8	63.77	0.491 mg/L	3188	24.6 ppm	0.77%
n 257.610	2329655.0	1.468	0.0141 mg/L	73.39	0.707 ppm	0.96%
o 202.030	-30.7	-0.0016	0.00014 mg/L	-0.0812	0.00683 ppm	8.41%
231.604	2884.1	0.0570	0.00094 mg/L	2.849	0.0471 ppm	1.65%
220.353	445.8	0.0424	0.00024 mg/L	2.122	0.0118 ppm	0.56%
206.833	30.8	0.0011	0.00081 mg/L	0.0571	0.04060 ppm	71.10%
e 196.026	-36.7	0.0017	0.00154 mg/L	0.0872	0.07687 ppm	88.17%
190.800	92.0	0.0119	0.00025 mg/L	0.5951	0.01265 ppm	2.13%
292.402	13785.7	0.1236	0.00071 mg/L	6.182	0.0357 ppm	0.58%
213.856	15667.4	0.1410	0.00089 mg/L	7.050	0.0446 ppm	0.63%

eplicate Data ---------- Date: 11/21/02 12:01:14 PM
: 6141-1 D F=50

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1261.7	-187.7	-0.0009	mg/L	-0.0465	ppm
1	Al 308.215	2165345.0	2160747.4	59.22	mg/L	2961	ppm
1	As 188.979	-7.5	-76.9	0.0412	mg/L	2.061	ppm
1	Ba 233.527	171532.9	172398.5	0.4880	mg/L	24.40	ppm
1	Be 313.107	1217.2	1631.4	0.0006	mg/L	0.0294	ppm
1	Ca 227.547	708970.9	708687.5	2710	mg/L	135500	ppm
1	Cd 228.802	378.1	288.4	0.0023	mg/L	0.1138	ppm
1	Co 228.616	2509.9	2926.6	0.0277	mg/L	1.383	ppm
1	Cr 267.716	11313.7	11473.5	0.1269	mg/L	6.343	ppm
1	Cu 324.754	12831.2	10544.2	0.0331	mg/L	1.655	ppm
1	Fe 273.955	3244775.2	3241785.3	65.10	mg/L	3255	ppm
1	Mg 279.079	2070910.3	2070314.2	65.18	mg/L	3259	ppm
1	Mn 257.610	2393039.5	2391918.8	1.507	mg/L	75.35	ppm
1	Mo 202.030	-90.7	-62.2	-0.0033	mg/L	-0.1647	ppm
1	Ni 231.604	3124.7	2849.5	0.0563	mg/L	2.815	ppm
1	Pb 220.353	624.8	439.9	0.0424	mg/L	2.119	ppm
1	Sb 206.833	95.6	35.0	0.0021	mg/L	0.1044	ppm
1	Se 196.026	54.5	-29.8	0.0045	mg/L	0.2245	ppm
1	Tl 190.800	276.1	87.5	0.0104	mg/L	0.5196	ppm
1	V 292.402	13993.9	13831.1	0.1240	mg/L	6.202	ppm
1	Zn 213.856	15132.9	15716.3	0.1413	mg/L	7.067	ppm
2	Ag 328.068	-1393.2	-319.2	-0.0016	mg/L	-0.0791	ppm
2	Al 308.215	2104020.0	2099422.4	57.54	mg/L	2877	ppm
2	As 188.979	-8.9	-78.3	0.0368	mg/L	1.839	ppm
2	Ba 233.527	163076.3	163941.9	0.4641	mg/L	23.20	ppm
2	Be 313.107	1020.0	1434.2	0.0005	mg/L	0.0259	ppm
2	Ca 227.547	679304.9	679021.4	2597	mg/L	129900	ppm
2	Cd 228.802	392.4	302.7	0.0024	mg/L	0.1194	ppm
2	Co 228.616	2488.4	2905.1	0.0275	mg/L	1.373	ppm
2	Cr 267.716	10879.0	11038.8	0.1221	mg/L	6.103	ppm
2	Cu 324.754	12513.9	10227.0	0.0321	mg/L	1.605	ppm
2	Fe 273.955	3174839.3	3171849.5	63.70	mg/L	3185	ppm
2	Mg 279.079	2005632.1	2005036.0	63.13	mg/L	3156	ppm
2	Mn 257.610	2305664.3	2304543.5	1.452	mg/L	72.60	ppm
2	Mo 202.030	-91.7	-63.2	-0.0033	mg/L	-0.1673	ppm
2	Ni 231.604	3078.1	2802.9	0.0554	mg/L	2.769	ppm
2	Pb 220.353	625.3	440.4	0.0419	mg/L	2.096	ppm
2	Sb 206.833	96.2	35.6	0.0024	mg/L	0.1217	ppm
2	Se 196.026	36.8	-47.5	-0.0023	mg/L	-0.1128	ppm
2	Tl 190.800	284.5	96.0	0.0131	mg/L	0.6568	ppm
2	V 292.402	13224.9	13062.2	0.1172	mg/L	5.858	ppm
2	Zn 213.856	15157.5	15740.9	0.1417	mg/L	7.086	ppm
3	Ag 328.068	-1263.3	-189.3	-0.0009	mg/L	-0.0469	ppm
3	Al 308.215	2053215.6	2048618.0	56.15	mg/L	2807	ppm
3	As 188.979	-16.5	-86.0	0.0341	mg/L	1.703	ppm
3	Ba 233.527	172587.5	173453.1	0.4910	mg/L	24.55	ppm
3	Be 313.107	1168.2	1582.4	0.0006	mg/L	0.0286	ppm
3	Ca 227.547	671145.2	670861.7	2566	mg/L	128300	ppm

3 Cd 228.802	394.0	304.2	0.0024	mg/L	0.1201 ppm
3 Co 228.616	2476.0	2892.7	0.0273	mg/L	1.367 ppm
3 Cr 267.716	11412.8	11572.6	0.1280	mg/L	6.398 ppm
3 Cu 324.754	13299.3	11012.4	0.0346	mg/L	1.728 ppm
3 Fe 273.955	3101193.3	3098203.5	62.22	mg/L	3111 ppm
3 Mg 279.079	1977608.4	1977012.2	62.25	mg/L	3112 ppm
3 Mn 257.610	2274694.4	2273573.7	1.432	mg/L	71.62 ppm
3 Mo 202.030	-88.0	-59.5	-0.0032	mg/L	-0.1576 ppm
3 Ni 231.604	3061.7	2786.5	0.0551	mg/L	2.753 ppm
3 Pb 220.353	634.3	449.4	0.0423	mg/L	2.117 ppm
3 Sb 206.833	87.4	26.8	0.0002	mg/L	0.0104 ppm
3 Se 196.026	53.5	-30.8	0.0035	mg/L	0.1733 ppm
3 Tl 190.800	283.3	94.8	0.0132	mg/L	0.6593 ppm
3 V 292.402	14022.8	13860.1	0.1243	mg/L	6.215 ppm
3 Zn 213.856	15245.8	15829.2	0.1427	mg/L	7.136 ppm

ean Data ----------

D: 6141-1 D F=50 Seq. No.: 16 Sample No.: 6 A/S Pos: 14
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 12:01:14 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	-232.1	-0.0012	0.00037	mg/L	-0.0575	0.01870	ppm	32.52%
l 308.215	2102929.3	57.64	1.539	mg/L	2882	76.9	ppm	2.67%
s 188.979	-80.4	0.0374	0.00361	mg/L	1.868	0.1806	ppm	9.67%
a 233.527	169931.2	0.4810	0.01476	mg/L	24.05	0.738	ppm	3.07%
e 313.107	1549.3	0.0006	0.00004	mg/L	0.0280	0.00185	ppm	6.63%
a 227.547	686190.2	2624	76.1	mg/L	131200	3806.7	ppm	2.90%
d 228.802	298.4	0.0024	0.00007	mg/L	0.1178	0.00345	ppm	2.93%
o 228.616	2908.1	0.0275	0.00016	mg/L	1.375	0.0081	ppm	0.59%
r 267.716	11361.6	0.1256	0.00314	mg/L	6.282	0.1570	ppm	2.50%
u 324.754	10594.5	0.0333	0.00124	mg/L	1.663	0.0620	ppm	3.73%
e 273.955	3170612.8	63.67	1.442	mg/L	3184	72.1	ppm	2.26%
g 279.079	2017454.1	63.52	1.507	mg/L	3176	75.4	ppm	2.37%
n 257.610	2323345.4	1.464	0.0387	mg/L	73.19	1.933	ppm	2.64%
o 202.030	-61.6	-0.0033	0.00010	mg/L	-0.1632	0.00502	ppm	3.07%
i 231.604	2813.0	0.0556	0.00065	mg/L	2.779	0.0323	ppm	1.16%
b 220.353	443.2	0.0422	0.00025	mg/L	2.110	0.0127	ppm	0.60%
b 206.833	32.5	0.0016	0.00120	mg/L	0.0788	0.05986	ppm	75.92%
e 196.026	-36.0	0.0019	0.00364	mg/L	0.0950	0.18178	ppm	191.38%
l 190.800	92.8	0.0122	0.00160	mg/L	0.6119	0.07995	ppm	13.07%
292.402	13584.4	0.1218	0.00406	mg/L	6.092	0.2029	ppm	3.33%
n 213.856	15762.1	0.1419	0.00071	mg/L	7.096	0.0353	ppm	0.50%

atrix Check Sample: 6141-1 D F=50

lement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	Relative % Diff.
g 328.068	-0.0005	-0.0012	0.000	mg/L	-82.189
l 308.215	58.10	57.64	1.539	mg/L	0.790
s 188.979	0.0386	0.0374	0.004	mg/L	3.230
a 233.527	0.4833	0.4810	0.015	mg/L	0.473
e 313.107	0.0006	0.0006	0.000	mg/L	12.377
a 227.547	2635	2624	76.133	mg/L	0.399
d 228.802	0.0024	0.0024	0.000	mg/L	2.428
o 228.616	0.0280	0.0275	0.000	mg/L	1.860
r 267.716	0.1267	0.1256	0.003	mg/L	0.849
u 324.754	0.0340	0.0333	0.001	mg/L	2.132
e 273.955	64.04	63.67	1.442	mg/L	0.569
g 279.079	63.77	63.52	1.507	mg/L	0.387
n 257.610	1.468	1.464	0.039	mg/L	0.271
o 202.030	-0.0016	-0.0033	0.000	mg/L	-67.089
i 231.604	0.0570	0.0556	0.001	mg/L	2.496
b 220.353	0.0424	0.0422	0.000	mg/L	0.555
b 206.833	0.0011	0.0016	0.001	mg/L	31.980
e 196.026	0.0017	0.0019	0.004	mg/L	8.574
l 190.800	0.0119	0.0122	0.002	mg/L	2.779
292.402	0.1236	0.1218	0.004	mg/L	1.471
n 213.856	0.1410	0.1419	0.001	mg/L	0.659

plicate Data
: 6141-1 1/5 F=250 Date: 11/21/02 12:04:47 PM

pl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1033.0	41.0	0.0002	mg/L	0.0508	ppm
1	Al 308.215	453345.0	448747.4	12.30	mg/L	3075	ppm
1	As 188.979	45.0	-24.4	0.0050	mg/L	1.259	ppm
1	Ba 233.527	37394.0	38259.6	0.1083	mg/L	27.08	ppm
1	Be 313.107	31.8	446.0	0.0002	mg/L	0.0402	ppm
1	Ca 227.547	145136.9	144853.4	554.0	mg/L	138500	ppm
1	Cd 228.802	147.9	58.2	0.0005	mg/L	0.1148	ppm
1	Co 228.616	353.3	770.0	0.0073	mg/L	1.820	ppm
1	Cr 267.716	2329.1	2488.9	0.0275	mg/L	6.880	ppm
1	Cu 324.754	4605.3	2318.4	0.0073	mg/L	1.819	ppm
1	Fe 273.955	728782.8	725792.9	14.58	mg/L	3644	ppm
1	Mg 279.079	457048.0	456451.9	14.37	mg/L	3593	ppm
1	Mn 257.610	524195.4	523074.7	0.3295	mg/L	82.39	ppm
1	Mo 202.030	-37.3	-8.8	-0.0005	mg/L	-0.1170	ppm
1	Ni 231.604	1029.1	753.9	0.0149	mg/L	3.724	ppm
1	Pb 220.353	286.3	101.4	0.0088	mg/L	2.192	ppm
1	Sb 206.833	69.2	8.6	0.0021	mg/L	0.5127	ppm
1	Se 196.026	75.7	-8.6	0.0013	mg/L	0.3151	ppm
1	Tl 190.800	212.4	23.9	0.0041	mg/L	1.014	ppm
1	V 292.402	2975.8	2813.1	0.0252	mg/L	6.307	ppm
1	Zn 213.856	2569.1	3152.5	0.0297	mg/L	7.433	ppm
2	Ag 328.068	-1253.5	-179.5	-0.0009	mg/L	-0.2225	ppm
2	Al 308.215	425400.6	420803.0	11.53	mg/L	2883	ppm
2	As 188.979	43.5	-25.9	0.0038	mg/L	0.9446	ppm
2	Ba 233.527	35249.2	36114.8	0.1022	mg/L	25.56	ppm
2	Be 313.107	43.6	457.9	0.0002	mg/L	0.0413	ppm
2	Ca 227.547	138225.6	137942.2	527.6	mg/L	131900	ppm
2	Cd 228.802	146.0	56.3	0.0004	mg/L	0.1110	ppm
2	Co 228.616	334.0	750.7	0.0071	mg/L	1.774	ppm
2	Cr 267.716	2260.7	2420.5	0.0268	mg/L	6.691	ppm
2	Cu 324.754	4546.7	2259.8	0.0071	mg/L	1.773	ppm
2	Fe 273.955	683977.8	680987.9	13.68	mg/L	3419	ppm
2	Mg 279.079	433228.2	432632.1	13.62	mg/L	3405	ppm
2	Mn 257.610	496523.0	495402.3	0.3121	mg/L	78.03	ppm
2	Mo 202.030	-37.0	-8.5	-0.0004	mg/L	-0.1124	ppm
2	Ni 231.604	1034.8	759.5	0.0150	mg/L	3.752	ppm
2	Pb 220.353	256.0	71.1	0.0066	mg/L	1.662	ppm
2	Sb 206.833	75.8	15.2	0.0036	mg/L	0.9070	ppm
2	Se 196.026	58.3	-26.0	-0.0053	mg/L	-1.329	ppm
2	Tl 190.800	202.2	13.6	0.0003	mg/L	0.0699	ppm
2	V 292.402	2972.3	2809.6	0.0252	mg/L	6.299	ppm
2	Zn 213.856	2580.7	3164.1	0.0298	mg/L	7.460	ppm
3	Ag 328.068	-1164.9	-91.0	-0.0005	mg/L	-0.1127	ppm
3	Al 308.215	420035.0	415437.4	11.39	mg/L	2847	ppm
3	As 188.979	44.9	-24.5	0.0040	mg/L	1.008	ppm
3	Ba 233.527	34496.8	35362.5	0.1001	mg/L	25.03	ppm
3	Be 313.107	-186.3	227.9	0.0001	mg/L	0.0206	ppm
3	Ca 227.547	135514.5	135231.1	517.2	mg/L	129300	ppm
3	Cd 228.802	137.0	47.3	0.0004	mg/L	0.0933	ppm
3	Co 228.616	308.8	725.5	0.0069	mg/L	1.714	ppm
3	Cr 267.716	2279.9	2439.6	0.0270	mg/L	6.744	ppm
3	Cu 324.754	4649.4	2362.5	0.0074	mg/L	1.854	ppm
3	Fe 273.955	678668.6	675678.8	13.57	mg/L	3392	ppm
3	Mg 279.079	427607.7	427011.6	13.44	mg/L	3361	ppm
3	Mn 257.610	489567.3	488446.5	0.3077	mg/L	76.93	ppm
3	Mo 202.030	-45.2	-16.7	-0.0009	mg/L	-0.2217	ppm
3	Ni 231.604	1007.2	731.9	0.0145	mg/L	3.616	ppm
3	Pb 220.353	268.0	83.1	0.0074	mg/L	1.853	ppm
3	Sb 206.833	60.8	0.1	0.0000	mg/L	0.0074	ppm
3	Se 196.026	69.6	-14.7	-0.0012	mg/L	-0.3108	ppm
3	Tl 190.800	206.2	17.7	0.0015	mg/L	0.3707	ppm
3	V 292.402	2979.4	2816.6	0.0253	mg/L	6.315	ppm
3	Zn 213.856	2579.4	3162.8	0.0298	mg/L	7.457	ppm

Mean Data

ID: 6141-1 1/5 F=250 Seq. No.: 17 Sample No.: 7 A/S Pos: 15
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 250.0
Data: Original Date: 11/21/02 12:04:47 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	-76.5	-0.0004	0.00055	mg/L	-0.0948	0.13750	ppm	145.01%
Al 308.215	428329.3	11.74	0.490	mg/L	2935	122.5	ppm	4.18%
As 188.979	-24.9	0.0043	0.00067	mg/L	1.070	0.1663	ppm	15.54%
Ba 233.527	36578.9	0.1035	0.00426	mg/L	25.89	1.064	ppm	4.11%
Be 313.107	377.3	0.0001	0.00005	mg/L	0.0340	0.01168	ppm	34.33%
Ca 227.547	139342.2	532.9	18.98	mg/L	133200	4744.1	ppm	3.56%
Cd 228.802	53.9	0.0004	0.00005	mg/L	0.1064	0.01148	ppm	10.79%
Co 228.616	748.7	0.0071	0.00021	mg/L	1.769	0.0528	ppm	2.98%
Cr 267.716	2449.7	0.0271	0.00039	mg/L	6.772	0.0975	ppm	1.44%
Cu 324.754	2313.6	0.0073	0.00016	mg/L	1.816	0.0404	ppm	2.23%
Fe 273.955	694153.2	13.94	0.553	mg/L	3485	138.2	ppm	3.97%
Mg 279.079	438698.5	13.81	0.492	mg/L	3453	123.0	ppm	3.56%
Mn 257.610	502307.8	0.3165	0.01154	mg/L	79.12	2.885	ppm	3.65%
Mo 202.030	-11.4	-0.0006	0.00025	mg/L	-0.1504	0.06181	ppm	41.10%
Ni 231.604	748.5	0.0148	0.00029	mg/L	3.697	0.0721	ppm	1.95%
Pb 220.353	85.2	0.0076	0.00107	mg/L	1.902	0.2684	ppm	14.11%
Sb 206.833	8.0	0.0019	0.00180	mg/L	0.4757	0.45091	ppm	94.79%
Se 196.026	-16.4	-0.0018	0.00332	mg/L	-0.4416	0.82986	ppm	187.93%
Tl 190.800	18.4	0.0019	0.00193	mg/L	0.4848	0.48217	ppm	99.46%
292.402	2813.1	0.0252	0.00003	mg/L	6.307	0.0079	ppm	0.13%
Zn 213.856	3159.8	0.0298	0.00006	mg/L	7.450	0.0149	ppm	0.20%

Replicate Data

ID: 6141-1 MS F=50 Date: 11/21/02 12:08:24 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	203997.7	205071.6	1.017	mg/L	50.83	ppm
1	Al 308.215	2071112.6	2066515.0	56.64	mg/L	2832	ppm
1	As 188.979	1230.7	1161.3	0.5189	mg/L	25.94	ppm
1	Ba 233.527	1495153.0	1496018.6	4.235	mg/L	211.7	ppm
1	Be 313.107	522622.9	523037.1	0.1888	mg/L	9.438	ppm
1	Ca 227.547	658407.3	658123.9	2517	mg/L	125900	ppm
1	Cd 228.802	31434.1	31344.3	0.2474	mg/L	12.37	ppm
1	Co 228.616	100543.6	100960.3	0.9544	mg/L	47.72	ppm
1	Cr 267.716	96800.9	96960.7	1.072	mg/L	53.61	ppm
1	Cu 324.754	308293.0	306006.1	0.9606	mg/L	48.03	ppm
1	Fe 273.955	3053109.4	3050119.6	61.25	mg/L	3063	ppm
1	Mg 279.079	2208564.7	2207968.5	69.52	mg/L	3476	ppm
1	Mn 257.610	3645920.2	3644799.5	2.296	mg/L	114.8	ppm
1	Mo 202.030	36124.4	36152.9	1.915	mg/L	95.76	ppm
1	Ni 231.604	48959.5	48684.3	0.9620	mg/L	48.10	ppm
1	Pb 220.353	41123.1	40938.2	2.751	mg/L	137.6	ppm
1	Sb 206.833	2084.3	2023.7	0.4504	mg/L	22.52	ppm
1	Se 196.026	1413.7	1329.4	0.4972	mg/L	24.86	ppm
1	Tl 190.800	1794.1	1605.5	0.4522	mg/L	22.61	ppm
1	V 292.402	230896.0	230733.2	2.069	mg/L	103.5	ppm
1	Zn 213.856	64563.5	65146.9	0.6079	mg/L	30.40	ppm
2	Ag 328.068	204001.3	205075.3	1.017	mg/L	50.83	ppm
2	Al 308.215	2046404.4	2041806.8	55.96	mg/L	2798	ppm
2	As 188.979	1248.4	1179.0	0.5247	mg/L	26.23	ppm
2	Ba 233.527	1475179.8	1476045.4	4.178	mg/L	208.9	ppm
2	Be 313.107	509420.1	509834.3	0.1840	mg/L	9.200	ppm
2	Ca 227.547	648222.5	647939.1	2478	mg/L	123900	ppm
2	Cd 228.802	31475.3	31385.5	0.2477	mg/L	12.39	ppm
2	Co 228.616	100328.3	100745.0	0.9523	mg/L	47.62	ppm
2	Cr 267.716	96998.9	97158.7	1.074	mg/L	53.72	ppm
2	Cu 324.754	311560.3	309273.4	0.9709	mg/L	48.54	ppm
2	Fe 273.955	3012055.0	3009065.1	60.43	mg/L	3021	ppm
2	Mg 279.079	2170858.4	2170262.3	68.33	mg/L	3417	ppm
2	Mn 257.610	3598854.9	3597734.2	2.267	mg/L	113.3	ppm
2	Mo 202.030	35662.0	35690.5	1.891	mg/L	94.53	ppm
2	Ni 231.604	48217.9	47942.7	0.9474	mg/L	47.37	ppm

2	Pb 220.353	40991.8	40806.9	2.742 mg/L	137.1 ppm
2	Sb 206.833	2090.7	2030.0	0.4519 mg/L	22.59 ppm
2	Se 196.026	1402.5	1318.2	0.4929 mg/L	24.65 ppm
2	Tl 190.800	1799.6	1611.0	0.4540 mg/L	22.70 ppm
2	V 292.402	232647.2	232484.5	2.085 mg/L	104.3 ppm
2	Zn 213.856	64617.1	65200.5	0.6085 mg/L	30.43 ppm
3	Ag 328.068	202495.1	203569.1	1.009 mg/L	50.46 ppm
3	Al 308.215	2060921.3	2056323.7	56.36 mg/L	2818 ppm
3	As 188.979	1245.9	1176.4	0.5240 mg/L	26.20 ppm
3	Ba 233.527	1484417.0	1485282.6	4.204 mg/L	210.2 ppm
3	Be 313.107	516441.1	516855.3	0.1865 mg/L	9.327 ppm
3	Ca 227.547	652190.7	651907.2	2493 mg/L	124700 ppm
3	Cd 228.802	31027.8	30938.0	0.2442 mg/L	12.21 ppm
3	Co 228.616	99877.4	100294.1	0.9481 mg/L	47.40 ppm
3	Cr 267.716	96149.5	96309.3	1.065 mg/L	53.25 ppm
3	Cu 324.754	311736.3	309449.4	0.9714 mg/L	48.57 ppm
3	Fe 273.955	3034061.2	3031071.4	60.87 mg/L	3044 ppm
3	Mg 279.079	2188729.9	2188133.7	68.89 mg/L	3445 ppm
3	Mn 257.610	3608435.7	3607315.0	2.273 mg/L	113.6 ppm
3	Mo 202.030	35852.6	35881.1	1.901 mg/L	95.04 ppm
3	Ni 231.604	48234.7	47959.5	0.9477 mg/L	47.38 ppm
3	Pb 220.353	40986.1	40801.2	2.742 mg/L	137.1 ppm
3	Sb 206.833	2070.3	2009.7	0.4473 mg/L	22.36 ppm
3	Se 196.026	1410.7	1326.4	0.4960 mg/L	24.80 ppm
3	Tl 190.800	1804.5	1616.0	0.4553 mg/L	22.76 ppm
3	V 292.402	229535.6	229372.8	2.057 mg/L	102.9 ppm
3	Zn 213.856	64533.5	65116.9	0.6077 mg/L	30.38 ppm

an Data ----------

: 6141-1 MS F=50 Seq. No.: 18 Sample No.: 8 A/S Pos: 16
mple Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 12:08:24 PM

	ement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g	328.068	204572.0	1.014	0.0043	mg/L	50.70	0.215	ppm	0.42%
l	308.215	2054881.8	56.32	0.340	mg/L	2816	17.0	ppm	0.60%
	188.979	1172.2	0.5225	0.00317	mg/L	26.13	0.159	ppm	0.61%
	233.527	1485782.2	4.206	0.0283	mg/L	210.3	1.41	ppm	0.67%
e	313.107	516575.6	0.1864	0.00238	mg/L	9.322	0.1192	ppm	1.28%
a	227.547	652656.7	2496	19.6	mg/L	124800	981.7	ppm	0.79%
	228.802	31222.6	0.2464	0.00195	mg/L	12.32	0.098	ppm	0.79%
	228.616	100666.5	0.9516	0.00321	mg/L	47.58	0.161	ppm	0.34%
	267.716	96809.6	1.070	0.0049	mg/L	53.52	0.246	ppm	0.46%
u	324.754	308243.0	0.9676	0.00609	mg/L	48.38	0.304	ppm	0.63%
	273.955	3030085.4	60.85	0.413	mg/L	3043	20.6	ppm	0.68%
	279.079	2188788.2	68.91	0.594	mg/L	3446	29.7	ppm	0.86%
	257.610	3616616.2	2.279	0.0157	mg/L	113.9	0.78	ppm	0.69%
o	202.030	35908.2	1.902	0.0123	mg/L	95.11	0.615	ppm	0.65%
i	231.604	48195.5	0.9523	0.00837	mg/L	47.62	0.418	ppm	0.88%
	220.353	40848.8	2.745	0.0053	mg/L	137.3	0.26	ppm	0.19%
	206.833	2021.1	0.4498	0.00235	mg/L	22.49	0.118	ppm	0.52%
e	196.026	1324.7	0.4954	0.00221	mg/L	24.77	0.110	ppm	0.45%
l	190.800	1610.8	0.4538	0.00156	mg/L	22.69	0.078	ppm	0.34%
	292.402	230863.5	2.071	0.0140	mg/L	103.5	0.70	ppm	0.68%
	213.856	65154.8	0.6081	0.00043	mg/L	30.40	0.021	ppm	0.07%

trix Check Sample: 6141-1 MS F=50

	lement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
	328.068	0.9995	1.014	0.004	mg/L	101.458
	308.215	60.10	56.32	0.340	mg/L	-88.704
	188.979	0.5386	0.5225	0.003	mg/L	96.790
a	233.527	4.483	4.206	0.028	mg/L	93.062
e	313.107	0.2006	0.1864	0.002	mg/L	92.900
	227.547	2655	2496	19.634	mg/L	-693.738
	228.802	0.2524	0.2464	0.002	mg/L	97.604
o	228.616	1.028	0.9516	0.003	mg/L	92.358
c	267.716	1.127	1.070	0.005	mg/L	94.377

u 324.754	1.034	0.9676	0.006	mg/L	93.364
e 273.955	65.04	60.85	0.413	mg/L	-318.527
g 279.079	73.77	68.91	0.594	mg/L	51.480
n 257.610	2.468	2.279	0.016	mg/L	81.081
o 202.030	1.998	1.902	0.012	mg/L	95.188
i 231.604	1.057	0.9523	0.008	mg/L	89.536
b 220.353	3.042	2.745	0.005	mg/L	90.093
b 206.833	0.5011	0.4498	0.002	mg/L	89.739
e 196.026	0.5017	0.4954	0.002	mg/L	98.727
l 190.800	0.5119	0.4538	0.002	mg/L	88.380
292.402	2.124	2.071	0.014	mg/L	97.345
n 213.856	0.6410	0.6081	0.000	mg/L	93.412

eplicate Data ----------
D: 6141-1 MSD F=50 Date: 11/21/02 12:12:05 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	203622.7	204696.6	1.015	mg/L	50.74	ppm
1	Al 308.215	2088909.6	2084312.0	57.13	mg/L	2856	ppm
1	As 188.979	1240.8	1171.3	0.5232	mg/L	26.16	ppm
1	Ba 233.527	1506393.1	1507258.7	4.267	mg/L	213.3	ppm
1	Be 313.107	522659.5	523073.7	0.1888	mg/L	9.439	ppm
1	Ca 227.547	663402.0	663118.5	2536	mg/L	126800	ppm
1	Cd 228.802	31611.9	31522.2	0.2488	mg/L	12.44	ppm
1	Co 228.616	100366.4	100783.1	0.9527	mg/L	47.63	ppm
1	Cr 267.716	96605.3	96765.1	1.070	mg/L	53.50	ppm
1	Cu 324.754	310401.2	308114.3	0.9672	mg/L	48.36	ppm
1	Fe 273.955	3075912.7	3072922.8	61.71	mg/L	3086	ppm
1	Mg 279.079	2221128.2	2220532.1	69.91	mg/L	3496	ppm
1	Mn 257.610	3678322.0	3677201.3	2.317	mg/L	115.8	ppm
1	Mo 202.030	35736.3	35764.8	1.895	mg/L	94.73	ppm
1	Ni 231.604	48530.5	48255.3	0.9535	mg/L	47.68	ppm
1	Pb 220.353	41009.1	40824.2	2.744	mg/L	137.2	ppm
1	Sb 206.833	2098.6	2038.0	0.4539	mg/L	22.69	ppm
1	Se 196.026	1406.3	1322.0	0.4946	mg/L	24.73	ppm
1	Tl 190.800	1785.8	1597.2	0.4496	mg/L	22.48	ppm
1	V 292.402	231854.9	231692.1	2.078	mg/L	103.9	ppm
1	Zn 213.856	64444.5	65027.9	0.6068	mg/L	30.34	ppm
2	Ag 328.068	203194.1	204268.0	1.013	mg/L	50.63	ppm
2	Al 308.215	2140799.2	2136201.6	58.55	mg/L	2927	ppm
2	As 188.979	1225.0	1155.5	0.5180	mg/L	25.90	ppm
2	Ba 233.527	1530605.2	1531470.8	4.335	mg/L	216.8	ppm
2	Be 313.107	535316.3	535730.5	0.1933	mg/L	9.667	ppm
2	Ca 227.547	672670.3	672386.9	2572	mg/L	128600	ppm
2	Cd 228.802	31024.8	30935.0	0.2442	mg/L	12.21	ppm
2	Co 228.616	99731.9	100148.6	0.9467	mg/L	47.33	ppm
2	Cr 267.716	96157.5	96317.2	1.065	mg/L	53.25	ppm
2	Cu 324.754	311424.5	309137.6	0.9704	mg/L	48.52	ppm
2	Fe 273.955	3141699.0	3138709.1	63.03	mg/L	3152	ppm
2	Mg 279.079	2248831.1	2248235.0	70.79	mg/L	3539	ppm
2	Mn 257.610	3710932.6	3709811.9	2.337	mg/L	116.9	ppm
2	Mo 202.030	35823.1	35851.6	1.899	mg/L	94.96	ppm
2	Ni 231.604	48162.9	47887.7	0.9463	mg/L	47.31	ppm
2	Pb 220.353	40886.6	40701.7	2.736	mg/L	136.8	ppm
2	Sb 206.833	2080.2	2019.6	0.4495	mg/L	22.48	ppm
2	Se 196.026	1385.7	1301.4	0.4874	mg/L	24.37	ppm
2	Tl 190.800	1797.2	1608.6	0.4526	mg/L	22.63	ppm
2	V 292.402	229814.6	229651.9	2.060	mg/L	103.0	ppm
2	Zn 213.856	63879.8	64463.2	0.6013	mg/L	30.07	ppm
3	Ag 328.068	197805.5	198879.5	0.9859	mg/L	49.29	ppm
3	Al 308.215	2075996.0	2071398.4	56.77	mg/L	2839	ppm
3	As 188.979	1217.2	1147.7	0.5137	mg/L	25.68	ppm
3	Ba 233.527	1494609.7	1495475.3	4.233	mg/L	211.7	ppm
3	Be 313.107	521774.1	522188.3	0.1885	mg/L	9.423	ppm
3	Ca 227.547	661352.7	661069.3	2528	mg/L	126400	ppm
3	Cd 228.802	30627.0	30537.3	0.2410	mg/L	12.05	ppm
3	Co 228.616	98233.6	98650.3	0.9325	mg/L	46.63	ppm
3	Cr 267.716	93800.8	93960.6	1.039	mg/L	51.95	ppm

3 Cu 324.754	308766.0	306479.1	0.9621	mg/L	48.10 ppm
3 Fe 273.955	3047407.2	3044417.3	61.14	mg/L	3057 ppm
3 Mg 279.079	2205365.3	2204769.2	69.42	mg/L	3471 ppm
3 Mn 257.610	3654476.6	3653355.9	2.302	mg/L	115.1 ppm
3 Mo 202.030	34994.2	35022.7	1.855	mg/L	92.76 ppm
3 Ni 231.604	47845.2	47570.0	0.9400	mg/L	47.00 ppm
3 Pb 220.353	40383.2	40198.4	2.702	mg/L	135.1 ppm
3 Sb 206.833	2057.5	1996.9	0.4449	mg/L	22.25 ppm
3 Se 196.026	1395.8	1311.5	0.4906	mg/L	24.53 ppm
3 Tl 190.800	1795.1	1606.6	0.4525	mg/L	22.63 ppm
3 V 292.402	224400.7	224238.0	2.011	mg/L	100.6 ppm
3 Zn 213.856	63927.3	64510.7	0.6020	mg/L	30.10 ppm

an Data ----------

: 6141-1 MSD F=50 Seq. No.: 19 Sample No.: 9 A/S Pos: 17
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 12:12:05 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	202614.7	1.004	0.0161	mg/L	50.22	0.804	ppm	1.60%
308.215	2097304.0	57.48	0.940	mg/L	2874	47.0	ppm	1.64%
188.979	1158.2	0.5183	0.00477	mg/L	25.92	0.238	ppm	0.92%
a 233.527	1511401.6	4.278	0.0519	mg/L	213.9	2.60	ppm	1.21%
e 313.107	526997.5	0.1902	0.00273	mg/L	9.510	0.1367	ppm	1.44%
227.547	665524.9	2545	23.1	mg/L	127300	1153.2	ppm	0.91%
228.802	30998.2	0.2447	0.00391	mg/L	12.23	0.196	ppm	1.60%
228.616	99860.7	0.9440	0.01035	mg/L	47.20	0.518	ppm	1.10%
r 267.716	95681.0	1.058	0.0167	mg/L	52.90	0.833	ppm	1.57%
324.754	307910.3	0.9666	0.00421	mg/L	48.33	0.210	ppm	0.44%
273.955	3085349.8	61.96	0.971	mg/L	3098	48.6	ppm	1.57%
279.079	2224512.1	70.04	0.693	mg/L	3502	34.6	ppm	0.99%
n 257.610	3680123.0	2.319	0.0179	mg/L	115.9	0.89	ppm	0.77%
202.030	35546.4	1.883	0.0241	mg/L	94.15	1.207	ppm	1.28%
231.604	47904.3	0.9466	0.00678	mg/L	47.33	0.339	ppm	0.72%
220.353	40574.8	2.727	0.0223	mg/L	136.4	1.11	ppm	0.82%
b 206.833	2018.2	0.4494	0.00445	mg/L	22.47	0.223	ppm	0.99%
e 196.026	1311.6	0.4909	0.00360	mg/L	24.54	0.180	ppm	0.73%
190.800	1604.2	0.4516	0.00168	mg/L	22.58	0.084	ppm	0.37%
292.402	228527.3	2.050	0.0345	mg/L	102.5	1.73	ppm	1.69%
n 213.856	64667.2	0.6033	0.00299	mg/L	30.17	0.149	ppm	0.49%

trix Check Sample: 6141-1 MSD F=50

ement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
328.068	0.9995	1.004	0.016	mg/L	100.487
308.215	60.10	57.48	0.940	mg/L	-30.568
s 188.979	0.5386	0.5183	0.005	mg/L	95.945
233.527	4.483	4.278	0.052	mg/L	94.875
313.107	0.2006	0.1902	0.003	mg/L	94.781
227.547	2655	2545	23.064	mg/L	-447.655
d 228.802	0.2524	0.2447	0.004	mg/L	96.896
228.616	1.028	0.9440	0.010	mg/L	91.597
267.716	1.127	1.058	0.017	mg/L	93.129
324.754	1.034	0.9666	0.004	mg/L	93.260
e 273.955	65.04	61.96	0.971	mg/L	-207.544
279.079	73.77	70.04	0.693	mg/L	62.728
257.610	2.468	2.319	0.018	mg/L	85.082
202.030	1.998	1.883	0.024	mg/L	94.230
i 231.604	1.057	0.9466	0.007	mg/L	88.960
b 220.353	3.042	2.727	0.022	mg/L	89.490
206.833	0.5011	0.4494	0.004	mg/L	89.661
196.026	0.5017	0.4909	0.004	mg/L	97.830
190.800	0.5119	0.4516	0.002	mg/L	87.937
292.402	2.124	2.050	0.035	mg/L	96.297
213.856	0.6410	0.6033	0.003	mg/L	92.469

plicate Data ----------
D: 6141-1 PS F=50 Date: 11/21/02 12:15:42 PM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	197021.8	198095.7	0.9820	mg/L	49.10	ppm
1	Al 308.215	2085064.7	2080467.1	57.02	mg/L	2851	ppm
1	As 188.979	1257.1	1187.6	0.5287	mg/L	26.43	ppm
1	Ba 233.527	1501462.6	1502328.3	4.253	mg/L	212.6	ppm
1	Be 313.107	525708.9	526123.1	0.1899	mg/L	9.494	ppm
1	Ca 227.547	658201.1	657917.7	2516	mg/L	125800	ppm
1	Cd 228.802	30392.9	30303.1	0.2392	mg/L	11.96	ppm
1	Co 228.616	97345.9	97762.6	0.9241	mg/L	46.21	ppm
1	Cr 267.716	93284.3	93444.1	1.033	mg/L	51.66	ppm
1	Cu 324.754	300767.6	298480.7	0.9370	mg/L	46.85	ppm
1	Fe 273.955	3076493.4	3073503.5	61.72	mg/L	3086	ppm
1	Mg 279.079	2210329.9	2209733.8	69.57	mg/L	3479	ppm
1	Mn 257.610	3664438.5	3663317.8	2.308	mg/L	115.4	ppm
1	Mo 202.030	34792.3	34820.8	1.845	mg/L	92.23	ppm
1	Ni 231.604	47383.1	47107.9	0.9309	mg/L	46.54	ppm
1	Pb 220.353	39790.3	39605.4	2.662	mg/L	133.1	ppm
1	Sb 206.833	2158.8	2098.2	0.4693	mg/L	23.47	ppm
1	Se 196.026	1408.1	1323.8	0.4953	mg/L	24.76	ppm
1	Tl 190.800	1817.7	1629.2	0.4589	mg/L	22.95	ppm
1	V 292.402	222244.7	222082.0	1.992	mg/L	99.59	ppm
1	Zn 213.856	62384.9	62968.3	0.5873	mg/L	29.37	ppm
2	Ag 328.068	202180.7	203254.6	1.008	mg/L	50.38	ppm
2	Al 308.215	2057112.9	2052515.3	56.26	mg/L	2813	ppm
2	As 188.979	1244.5	1175.1	0.5239	mg/L	26.20	ppm
2	Ba 233.527	1484691.5	1485557.1	4.205	mg/L	210.3	ppm
2	Be 313.107	519183.0	519597.2	0.1875	mg/L	9.376	ppm
2	Ca 227.547	656771.4	656488.0	2511	mg/L	125500	ppm
2	Cd 228.802	31257.0	31167.2	0.2460	mg/L	12.30	ppm
2	Co 228.616	99918.9	100335.6	0.9485	mg/L	47.42	ppm
2	Cr 267.716	95612.3	95772.1	1.059	mg/L	52.95	ppm
2	Cu 324.754	314403.9	312116.9	0.9798	mg/L	48.99	ppm
2	Fe 273.955	3028557.8	3025568.0	60.76	mg/L	3038	ppm
2	Mg 279.079	2194557.1	2193961.0	69.08	mg/L	3454	ppm
2	Mn 257.610	3657217.0	3656096.3	2.303	mg/L	115.2	ppm
2	Mo 202.030	35971.9	36000.5	1.907	mg/L	95.35	ppm
2	Ni 231.604	48619.1	48343.9	0.9553	mg/L	47.76	ppm
2	Pb 220.353	41065.1	40880.2	2.747	mg/L	137.4	ppm
2	Sb 206.833	2162.1	2101.5	0.4694	mg/L	23.47	ppm
2	Se 196.026	1408.7	1324.4	0.4953	mg/L	24.76	ppm
2	Tl 190.800	1835.4	1646.9	0.4643	mg/L	23.22	ppm
2	V 292.402	229107.1	228944.4	2.053	mg/L	102.7	ppm
2	Zn 213.856	64547.7	65131.1	0.6078	mg/L	30.39	ppm
3	Ag 328.068	197187.3	198261.2	0.9828	mg/L	49.14	ppm
3	Al 308.215	2126140.6	2121543.0	58.15	mg/L	2907	ppm
3	As 188.979	1252.7	1183.3	0.5283	mg/L	26.42	ppm
3	Ba 233.527	1523878.4	1524744.0	4.316	mg/L	215.8	ppm
3	Be 313.107	532839.3	533253.5	0.1925	mg/L	9.623	ppm
3	Ca 227.547	671248.7	670965.2	2566	mg/L	128300	ppm
3	Cd 228.802	30516.8	30427.0	0.2401	mg/L	12.01	ppm
3	Co 228.616	97671.3	98088.0	0.9272	mg/L	46.36	ppm
3	Cr 267.716	93666.1	93825.8	1.037	mg/L	51.87	ppm
3	Cu 324.754	306133.6	303846.7	0.9538	mg/L	47.69	ppm
3	Fe 273.955	3119948.1	3116958.3	62.60	mg/L	3130	ppm
3	Mg 279.079	2247537.1	2246940.9	70.75	mg/L	3537	ppm
3	Mn 257.610	3736776.0	3735655.3	2.354	mg/L	117.7	ppm
3	Mo 202.030	35207.0	35235.5	1.867	mg/L	93.33	ppm
3	Ni 231.604	47094.6	46819.4	0.9252	mg/L	46.26	ppm
3	Pb 220.353	39951.0	39766.1	2.673	mg/L	133.7	ppm
3	Sb 206.833	2149.8	2089.1	0.4670	mg/L	23.35	ppm
3	Se 196.026	1414.9	1330.6	0.4979	mg/L	24.90	ppm
3	Tl 190.800	1814.9	1626.4	0.4579	mg/L	22.89	ppm
3	V 292.402	224594.4	224431.7	2.013	mg/L	100.6	ppm
3	Zn 213.856	62735.0	63318.4	0.5906	mg/L	29.53	ppm

ean Data ----------

D: 6141-1 PS F=50 Seq. No.: 20 Sample No.: 10 A/S Pos: 18

ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 12:15:42 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
328.068	199870.5	0.9908	0.01453	mg/L	49.54	0.727	ppm	1.47%
308.215	2084841.8	57.14	0.952	mg/L	2857	47.6	ppm	1.67%
s 188.979	1182.0	0.5270	0.00265	mg/L	26.35	0.132	ppm	0.50%
a 233.527	1504209.8	4.258	0.0557	mg/L	212.9	2.78	ppm	1.31%
313.107	526324.6	0.1900	0.00247	mg/L	9.498	0.1233	ppm	1.30%
227.547	661790.3	2531	30.5	mg/L	126600	1525.6	ppm	1.21%
d 228.802	30632.5	0.2418	0.00369	mg/L	12.09	0.184	ppm	1.53%
o 228.616	98728.7	0.9333	0.01324	mg/L	46.66	0.662	ppm	1.42%
267.716	94347.4	1.043	0.0138	mg/L	52.16	0.690	ppm	1.32%
324.754	304814.8	0.9569	0.02156	mg/L	47.84	1.078	ppm	2.25%
273.955	3072009.9	61.69	0.918	mg/L	3085	45.9	ppm	1.49%
g 279.079	2216878.5	69.80	0.856	mg/L	3490	42.8	ppm	1.23%
257.610	3685023.1	2.322	0.0277	mg/L	116.1	1.39	ppm	1.19%
202.030	35352.3	1.873	0.0317	mg/L	93.63	1.585	ppm	1.69%
231.604	47423.7	0.9371	0.01600	mg/L	46.85	0.800	ppm	1.71%
b 220.353	40083.9	2.694	0.0464	mg/L	134.7	2.32	ppm	1.72%
h 206.833	2096.3	0.4686	0.00136	mg/L	23.43	0.068	ppm	0.29%
196.026	1326.3	0.4962	0.00154	mg/L	24.81	0.077	ppm	0.31%
190.800	1634.1	0.4604	0.00346	mg/L	23.02	0.173	ppm	0.75%
292.402	225152.7	2.019	0.0313	mg/L	101.0	1.56	ppm	1.55%
n 213.856	63805.9	0.5952	0.01103	mg/L	29.76	0.551	ppm	1.85%

atrix Check Sample: 6141-1 PS F=50

ement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
g 328.068	0.9995	0.9908	0.015	mg/L	99.127
l 308.215	60.10	57.14	0.952	mg/L	-47.647
188.979	0.5386	0.5270	0.003	mg/L	97.677
233.527	4.483	4.258	0.056	mg/L	94.366
313.107	0.2006	0.1900	0.002	mg/L	94.659
a 227.547	2655	2531	30.513	mg/L	-519.073
228.802	0.2524	0.2418	0.004	mg/L	95.741
228.616	1.028	0.9333	0.013	mg/L	90.526
267.716	1.127	1.043	0.014	mg/L	91.655
u 324.754	1.034	0.9569	0.022	mg/L	92.288
e 273.955	65.04	61.69	0.918	mg/L	-234.333
279.079	73.77	69.80	0.856	mg/L	60.324
257.610	2.468	2.322	0.028	mg/L	85.391
o 202.030	1.998	1.873	0.032	mg/L	93.716
i 231.604	1.057	0.9371	0.016	mg/L	88.011
220.353	3.042	2.694	0.046	mg/L	88.393
206.833	0.5011	0.4686	0.001	mg/L	93.485
e 196.026	0.5017	0.4962	0.002	mg/L	98.883
l 190.800	0.5119	0.4604	0.003	mg/L	89.694
292.402	2.124	2.019	0.031	mg/L	94.784
213.856	0.6410	0.5952	0.011	mg/L	90.850

eplicate Data Date: 11/21/02 12:19:20 PM
: CCV 1379B

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	207244.0	208318.0	1.033	mg/L		
1	Al 308.215	191455.9	186858.4	5.121	mg/L		
1	As 188.979	1399.3	1329.9	0.5159	mg/L		
1	Ba 233.527	1805819.5	1806685.1	5.114	mg/L		
1	Be 313.107	1388243.5	1388657.7	0.5012	mg/L		
1	Ca 227.547	13903.8	13620.3	52.09	mg/L		
1	Cd 228.802	132799.4	132709.7	1.047	mg/L		
1	Co 228.616	223152.4	223569.1	2.113	mg/L		
1	Cr 267.716	46968.5	47128.3	0.5211	mg/L		
1	Cu 324.754	655846.8	653559.9	2.052	mg/L		
1	Fe 273.955	261827.7	258837.9	5.198	mg/L		
1	Mg 279.079	811803.2	811207.1	25.54	mg/L		
1	Mn 257.610	3272006.5	3270885.8	2.061	mg/L		

11790-P

1	Mo 202.030	39056.3	39084.8	2.070	mg/L
1	Ni 231.604	106240.6	105965.4	2.094	mg/L
1	Pb 220.353	7819.0	7634.1	0.5108	mg/L
1	Sb 206.833	8654.8	8594.2	2.040	mg/L
1	Se 196.026	1507.9	1423.6	0.5186	mg/L
1	Tl 190.800	1960.0	1771.4	0.5150	mg/L
1	V 292.402	231048.8	230886.0	2.071	mg/L
1	Zn 213.856	217945.3	218528.7	2.061	mg/L
2	Ag 328.068	203242.3	204316.3	1.013	mg/L
2	Al 308.215	187692.6	183095.1	5.018	mg/L
2	As 188.979	1389.7	1320.3	0.5121	mg/L
2	Ba 233.527	1905660.3	1906525.9	5.397	mg/L
2	Be 313.107	1472915.1	1473329.3	0.5317	mg/L
2	Ca 227.547	13610.9	13327.4	50.97	mg/L
2	Cd 228.802	129901.9	129812.1	1.025	mg/L
2	Co 228.616	217079.8	217496.5	2.056	mg/L
2	Cr 267.716	46010.5	46170.3	0.5105	mg/L
2	Cu 324.754	694449.7	692162.7	2.173	mg/L
2	Fe 273.955	255809.4	252819.5	5.077	mg/L
2	Mg 279.079	856930.1	856333.9	26.96	mg/L
2	Mn 257.610	3440988.6	3439867.9	2.167	mg/L
2	Mo 202.030	38047.5	38076.0	2.017	mg/L
2	Ni 231.604	103594.0	103318.8	2.042	mg/L
2	Pb 220.353	7763.8	7579.0	0.5071	mg/L
2	Sb 206.833	8614.7	8554.1	2.031	mg/L
2	Se 196.026	1509.8	1425.5	0.5193	mg/L
2	Tl 190.800	1973.6	1785.0	0.5190	mg/L
2	V 292.402	225295.8	225133.0	2.019	mg/L
2	Zn 213.856	213246.0	213829.4	2.017	mg/L
3	Ag 328.068	209638.9	210712.8	1.045	mg/L
3	Al 308.215	193932.1	189334.5	5.189	mg/L
3	As 188.979	1382.2	1312.8	0.5094	mg/L
3	Ba 233.527	1838112.2	1838977.8	5.206	mg/L
3	Be 313.107	1416718.6	1417132.8	0.5114	mg/L
3	Ca 227.547	14075.1	13791.6	52.75	mg/L
3	Cd 228.802	133388.7	133299.0	1.052	mg/L
3	Co 228.616	223938.9	224355.6	2.121	mg/L
3	Cr 267.716	47348.4	47508.2	0.5253	mg/L
3	Cu 324.754	671308.9	669021.9	2.100	mg/L
3	Fe 273.955	262881.0	259891.2	5.219	mg/L
3	Mg 279.079	827103.3	826507.2	26.02	mg/L
3	Mn 257.610	3332340.8	3331220.1	2.099	mg/L
3	Mo 202.030	39381.5	39410.0	2.088	mg/L
3	Ni 231.604	106850.6	106575.4	2.106	mg/L
3	Pb 220.353	7734.9	7550.0	0.5052	mg/L
3	Sb 206.833	8562.9	8502.3	2.018	mg/L
3	Se 196.026	1489.5	1405.2	0.5119	mg/L
3	Tl 190.800	1955.5	1766.9	0.5137	mg/L
3	V 292.402	233894.2	233731.5	2.096	mg/L
3	Zn 213.856	220980.6	221564.0	2.090	mg/L

ean Data ----------

D: CCV 1379B Seq. No.: 21 Sample No.: 5 A/S Pos: 6
ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 12:19:20 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	207782.4	1.030	0.0160	mg/L				1.56%
l 308.215	186429.3	5.110	0.0861	mg/L				1.69%
s 188.979	1321.0	0.5124	0.00328	mg/L				0.64%
a 233.527	1850729.6	5.239	0.1442	mg/L				2.75%
e 313.107	1426373.2	0.5148	0.01555	mg/L				3.02%
a 227.547	13579.8	51.94	0.898	mg/L				1.73%
d 228.802	131940.3	1.041	0.0147	mg/L				1.41%
o 228.616	221807.1	2.097	0.0355	mg/L				1.69%
r 267.716	46935.6	0.5190	0.00762	mg/L				1.47%
u 324.754	671581.5	2.108	0.0610	mg/L				2.89%
e 273.955	257182.9	5.165	0.0766	mg/L				1.48%
g 279.079	831349.4	26.18	0.723	mg/L				2.76%

1 257.610	3347324.6	2.109	0.0540 mg/L	2.56%
202.030	38856.9	2.058	0.0368 mg/L	1.79%
231.604	105286.5	2.080	0.0342 mg/L	1.64%
b 220.353	7587.7	0.5077	0.00286 mg/L	0.56%
206.833	8550.2	2.030	0.0111 mg/L	0.55%
196.026	1418.1	0.5166	0.00406 mg/L	0.79%
190.800	1774.5	0.5159	0.00274 mg/L	0.53%
292.402	229916.8	2.062	0.0393 mg/L	1.91%
1 213.856	217974.1	2.056	0.0368 mg/L	1.79%

eplicate Data ----------
D: CCB Date: 11/21/02 12:24:52 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-954.4	119.6	0.0006	mg/L		
1	Al 308.215	4967.4	369.8	0.0101	mg/L		
1	As 188.979	65.6	-3.9	-0.0015	mg/L		
1	Ba 233.527	-660.0	205.6	0.0006	mg/L		
1	Be 313.107	77.4	491.6	0.0002	mg/L		
1	Ca 227.547	253.7	-29.7	-0.1137	mg/L		
1	Cd 228.802	112.4	22.7	0.0002	mg/L		
1	Co 228.616	-290.7	126.0	0.0012	mg/L		
1	Cr 267.716	-113.1	46.7	0.0005	mg/L		
1	Cu 324.754	2380.0	93.1	0.0003	mg/L		
1	Fe 273.955	2526.0	-463.9	-0.0093	mg/L		
1	Mg 279.079	464.4	-131.8	-0.0041	mg/L		
1	Mn 257.610	1941.2	820.5	0.0005	mg/L		
1	Mo 202.030	-14.9	13.6	0.0007	mg/L		
1	Ni 231.604	460.4	185.2	0.0037	mg/L		
1	Pb 220.353	192.2	7.3	0.0005	mg/L		
1	Sb 206.833	72.6	12.0	0.0029	mg/L		
1	Se 196.026	85.9	1.6	0.0006	mg/L		
1	Tl 190.800	186.7	-1.9	-0.0005	mg/L		
1	V 292.402	192.0	29.3	0.0003	mg/L		
1	Zn 213.856	-493.2	90.2	0.0009	mg/L		
2	Ag 328.068	-1041.9	32.1	0.0002	mg/L		
2	Al 308.215	4657.5	59.9	0.0016	mg/L		
2	As 188.979	66.3	-3.1	-0.0012	mg/L		
2	Ba 233.527	-740.1	125.5	0.0004	mg/L		
2	Be 313.107	-23.9	390.3	0.0001	mg/L		
2	Ca 227.547	233.4	-50.1	-0.1915	mg/L		
2	Cd 228.802	117.4	27.6	0.0002	mg/L		
2	Co 228.616	-224.1	192.6	0.0018	mg/L		
2	Cr 267.716	-87.9	71.8	0.0008	mg/L		
2	Cu 324.754	2731.4	444.5	0.0014	mg/L		
2	Fe 273.955	2088.7	-901.1	-0.0181	mg/L		
2	Mg 279.079	577.1	-19.1	-0.0006	mg/L		
2	Mn 257.610	1745.0	624.3	0.0004	mg/L		
2	Mo 202.030	-16.1	12.4	0.0007	mg/L		
2	Ni 231.604	460.8	185.6	0.0037	mg/L		
2	Pb 220.353	195.9	11.0	0.0007	mg/L		
2	Sb 206.833	61.2	0.6	0.0001	mg/L		
2	Se 196.026	89.5	5.2	0.0019	mg/L		
2	Tl 190.800	188.6	0.1	0.0000	mg/L		
2	V 292.402	320.3	157.5	0.0014	mg/L		
2	Zn 213.856	-506.0	77.4	0.0007	mg/L		
3	Ag 328.068	-1141.1	-67.2	-0.0003	mg/L		
3	Al 308.215	4772.5	174.9	0.0048	mg/L		
3	As 188.979	64.2	-5.2	-0.0020	mg/L		
3	Ba 233.527	-741.4	124.2	0.0004	mg/L		
3	Be 313.107	-200.8	213.4	0.0001	mg/L		
3	Ca 227.547	218.7	-64.8	-0.2477	mg/L		
3	Cd 228.802	81.3	-8.4	-0.0001	mg/L		
3	Co 228.616	-323.6	93.1	0.0009	mg/L		
3	Cr 267.716	-119.0	40.7	0.0005	mg/L		
3	Cu 324.754	2528.8	241.8	0.0008	mg/L		
3	Fe 273.955	2047.0	-942.9	-0.0189	mg/L		
3	Mg 279.079	773.7	177.5	0.0056	mg/L		

3	Mn 257.610	1563.5	442.8	0.0003 mg/L
3	Mo 202.030	-29.1	-0.6	0.0000 mg/L
3	Ni 231.604	390.7	115.5	0.0023 mg/L
3	Pb 220.353	187.9	3.0	0.0002 mg/L
3	Sb 206.833	78.0	17.4	0.0042 mg/L
3	Se 196.026	90.8	6.5	0.0024 mg/L
3	Tl 190.800	196.4	7.9	0.0023 mg/L
3	V 292.402	202.0	39.2	0.0004 mg/L
3	Zn 213.856	-518.5	64.9	0.0006 mg/L

ean Data ----------

D: CCB Seq. No.: 22 Sample No.: 6 A/S Pos: 1
ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 12:24:52 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	28.2	0.0001	0.00046	mg/L				331.89%
l 308.215	201.6	0.0055	0.00429	mg/L				77.72%
s 188.979	-4.1	-0.0016	0.00040	mg/L				25.50%
a 233.527	151.8	0.0004	0.00013	mg/L				30.73%
e 313.107	365.1	0.0001	0.00005	mg/L				38.57%
a 227.547	-48.2	-0.1843	0.06728	mg/L				36.51%
d 228.802	13.9	0.0001	0.00015	mg/L				140.19%
o 228.616	137.3	0.0013	0.00048	mg/L				36.92%
r 267.716	53.1	0.0006	0.00018	mg/L				31.10%
u 324.754	259.8	0.0008	0.00055	mg/L				67.90%
e 273.955	-769.3	-0.0154	0.00533	mg/L				34.49%
g 279.079	8.9	0.0003	0.00493	mg/L				>999.9%
n 257.610	629.2	0.0004	0.00012	mg/L				30.02%
o 202.030	8.5	0.0004	0.00042	mg/L				92.68%
i 231.604	162.1	0.0032	0.00080	mg/L				24.88%
b 220.353	7.1	0.0005	0.00027	mg/L				56.13%
b 206.833	10.0	0.0024	0.00206	mg/L				86.06%
e 196.026	4.4	0.0016	0.00093	mg/L				57.51%
l 190.800	2.1	0.0006	0.00150	mg/L				251.90%
292.402	75.4	0.0007	0.00064	mg/L				94.69%
n 213.856	77.5	0.0007	0.00012	mg/L				16.33%

eplicate Data ----------

D: 6141-2 F=50 Date: 11/21/02 12:28:01 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1782.3	-708.3	-0.0035	mg/L	-0.1756	ppm
1	Al 308.215	3510721.5	3506124.0	96.10	mg/L	4805	ppm
1	As 188.979	47.0	-22.5	0.0377	mg/L	1.887	ppm
1	Ba 233.527	195615.8	196481.4	0.5562	mg/L	27.81	ppm
1	Be 313.107	2435.8	2850.0	0.0010	mg/L	0.0514	ppm
1	Ca 227.547	455376.8	455093.3	1743	mg/L	87170	ppm
1	Cd 228.802	342.0	252.2	0.0020	mg/L	0.0995	ppm
1	Co 228.616	4831.3	5248.0	0.0496	mg/L	2.480	ppm
1	Cr 267.716	17195.7	17355.4	0.1919	mg/L	9.595	ppm
1	Cu 324.754	19808.3	17521.4	0.0607	mg/L	3.036	ppm
1	Fe 273.955	6210946.7	6207956.8	124.7	mg/L	6233	ppm
1	Mg 279.079	2331521.8	2330925.6	73.39	mg/L	3670	ppm
1	Mn 257.610	2930628.4	2929507.7	1.846	mg/L	92.28	ppm
1	Mo 202.030	-51.1	-22.6	-0.0060	mg/L	-0.3017	ppm
1	Ni 231.604	4854.4	4579.1	0.0905	mg/L	4.524	ppm
1	Pb 220.353	720.6	535.7	0.0473	mg/L	2.367	ppm
1	Sb 206.833	65.1	4.5	-0.0125	mg/L	-0.6270	ppm
1	Se 196.026	12.6	-71.7	0.0045	mg/L	0.2256	ppm
1	Tl 190.800	328.3	139.7	0.0093	mg/L	0.4633	ppm
1	V 292.402	26236.5	26073.8	0.2338	mg/L	11.69	ppm
1	Zn 213.856	27500.5	28083.9	0.2517	mg/L	12.58	ppm
2	Ag 328.068	-1689.3	-615.3	-0.0031	mg/L	-0.1525	ppm
2	Al 308.215	3449177.5	3444580.0	94.41	mg/L	4721	ppm
2	As 188.979	60.7	-8.8	0.0458	mg/L	2.291	ppm
2	Ba 233.527	205609.3	206474.9	0.5845	mg/L	29.22	ppm
2	Be 313.107	2966.7	3380.9	0.0012	mg/L	0.0610	ppm

2 Ca 227.547	483536.7	483253.3	1851 mg/L	92550 ppm
2 Cd 228.802	457.0	367.3	0.0029 mg/L	0.1449 ppm
2 Co 228.616	4997.1	5413.8	0.0512 mg/L	2.559 ppm
2 Cr 267.716	17391.5	17551.3	0.1941 mg/L	9.704 ppm
2 Cu 324.754	20863.4	18576.5	0.0639 mg/L	3.196 ppm
2 Fe 273.955	6101926.4	6098936.5	122.5 mg/L	6124 ppm
2 Mg 279.079	2292984.3	2292388.1	72.18 mg/L	3609 ppm
2 Mn 257.610	2882343.3	2881222.6	1.815 mg/L	90.76 ppm
2 Mo 202.030	-49.6	-21.1	-0.0059 mg/L	-0.2937 ppm
2 Ni 231.604	5025.1	4749.9	0.0939 mg/L	4.693 ppm
2 Pb 220.353	773.9	589.0	0.0512 mg/L	2.560 ppm
2 Sb 206.833	113.6	52.9	-0.0009 mg/L	-0.0434 ppm
2 Se 196.026	2.3	-82.0	0.0002 mg/L	0.0118 ppm
2 Tl 190.800	298.2	109.7	0.0013 mg/L	0.0664 ppm
2 V 292.402	27700.4	27537.6	0.2470 mg/L	12.35 ppm
2 Zn 213.856	27646.0	28229.3	0.2533 mg/L	12.66 ppm
3 Ag 328.068	-1585.2	-511.2	-0.0025 mg/L	-0.1267 ppm
3 Al 308.215	3557872.8	3553275.2	97.39 mg/L	4869 ppm
3 As 188.979	75.3	5.9	0.0507 mg/L	2.536 ppm
3 Ba 233.527	203044.1	203909.7	0.5772 mg/L	28.86 ppm
3 Be 313.107	2787.4	3201.6	0.0012 mg/L	0.0578 ppm
3 Ca 227.547	476736.4	476452.9	1825 mg/L	91250 ppm
3 Cd 228.802	420.7	331.0	0.0026 mg/L	0.1306 ppm
3 Co 228.616	5109.2	5525.9	0.0522 mg/L	2.612 ppm
3 Cr 267.716	17380.2	17540.0	0.1939 mg/L	9.697 ppm
3 Cu 324.754	20548.8	18261.9	0.0631 mg/L	3.154 ppm
3 Fe 273.955	6263811.9	6260822.1	125.7 mg/L	6287 ppm
3 Mg 279.079	2346289.0	2345692.8	73.86 mg/L	3693 ppm
3 Mn 257.610	2948374.9	2947254.2	1.857 mg/L	92.84 ppm
3 Mo 202.030	-80.6	-52.1	-0.0076 mg/L	-0.3820 ppm
3 Ni 231.604	4898.9	4623.7	0.0914 mg/L	4.568 ppm
3 Pb 220.353	770.5	585.6	0.0510 mg/L	2.552 ppm
3 Sb 206.833	115.4	54.8	-0.0006 mg/L	-0.0322 ppm
3 Se 196.026	30.8	-53.5	0.0114 mg/L	0.5681 ppm
3 Tl 190.800	324.6	136.1	0.0080 mg/L	0.4005 ppm
3 V 292.402	27388.8	27226.1	0.2442 mg/L	12.21 ppm
3 Zn 213.856	27890.7	28474.1	0.2553 mg/L	12.76 ppm

an Data ----------

D: 6141-2 F=50 Seq. No.: 23 Sample No.: 11 A/S Pos: 19
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 12:28:01 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
328.068	-611.6	-0.0030	0.00049	mg/L	-0.1516	0.02444	ppm	16.12%
308.215	3501326.4	95.97	1.494	mg/L	4798	74.7	ppm	1.56%
188.979	-8.5	0.0448	0.00656	mg/L	2.238	0.3278	ppm	14.64%
a 233.527	202288.7	0.5726	0.01469	mg/L	28.63	0.735	ppm	2.57%
e 313.107	3144.2	0.0011	0.00010	mg/L	0.0567	0.00487	ppm	8.59%
227.547	471599.8	1806	56.2	mg/L	90320	2809.2	ppm	3.11%
228.802	316.8	0.0025	0.00046	mg/L	0.1250	0.02322	ppm	18.57%
o 228.616	5395.9	0.0510	0.00132	mg/L	2.550	0.0661	ppm	2.59%
r 267.716	17482.2	0.1933	0.00122	mg/L	9.666	0.0608	ppm	0.63%
324.754	18119.9	0.0626	0.00167	mg/L	3.129	0.0833	ppm	2.66%
273.955	6189238.5	124.3	1.66	mg/L	6215	82.9	ppm	1.33%
g 279.079	2323002.2	73.14	0.867	mg/L	3657	43.3	ppm	1.18%
n 257.610	2919328.1	1.839	0.0215	mg/L	91.96	1.076	ppm	1.17%
202.030	-31.9	-0.0065	0.00098	mg/L	-0.3258	0.04882	ppm	14.98%
231.604	4650.9	0.0919	0.00175	mg/L	4.595	0.0875	ppm	1.90%
o 220.353	570.1	0.0499	0.00218	mg/L	2.493	0.1092	ppm	4.38%
o 206.833	37.4	-0.0047	0.00680	mg/L	-0.2342	0.34019	ppm	145.27%
196.026	-69.1	0.0054	0.00561	mg/L	0.2685	0.28064	ppm	104.53%
190.800	128.5	0.0062	0.00427	mg/L	0.3101	0.21336	ppm	68.81%
292.402	26945.8	0.2417	0.00692	mg/L	12.08	0.346	ppm	2.86%
n 213.856	28262.5	0.2534	0.00179	mg/L	12.67	0.089	ppm	0.71%

plicate Data ----------

: 6141-3 F=50 Date: 11/21/02 12:30:37 PM

	Net	Corrected	Calib	Sample

epl#	Element	Intensity	Intensity	Conc.	Units	Conc.	Units
1	Ag 328.068	-1550.7	-476.8	-0.0024	mg/L	-0.1182	ppm
1	Al 308.215	3507890.8	3503293.2	96.02	mg/L	4801	ppm
1	As 188.979	79.5	10.0	0.0526	mg/L	2.630	ppm
1	Ba 233.527	214660.5	215526.2	0.6101	mg/L	30.50	ppm
1	Be 313.107	3375.3	3789.5	0.0014	mg/L	0.0684	ppm
1	Ca 227.547	478226.7	477943.2	1831	mg/L	91540	ppm
1	Cd 228.802	313.8	224.0	0.0018	mg/L	0.0884	ppm
1	Co 228.616	5351.0	5767.7	0.0545	mg/L	2.726	ppm
1	Cr 267.716	17762.4	17922.2	0.1982	mg/L	9.909	ppm
1	Cu 324.754	21178.9	18892.0	0.0651	mg/L	3.255	ppm
1	Fe 273.955	6298466.1	6295476.2	126.4	mg/L	6321	ppm
1	Mg 279.079	2364957.7	2364361.5	74.44	mg/L	3722	ppm
1	Mn 257.610	3067496.6	3066375.9	1.932	mg/L	96.59	ppm
1	Mo 202.030	4.6	33.1	-0.0032	mg/L	-0.1577	ppm
1	Ni 231.604	5149.0	4873.8	0.0963	mg/L	4.815	ppm
1	Pb 220.353	775.0	590.1	0.0513	mg/L	2.565	ppm
1	Sb 206.833	114.3	53.6	-0.0010	mg/L	-0.0515	ppm
1	Se 196.026	49.4	-34.9	0.0184	mg/L	0.9207	ppm
1	Tl 190.800	351.2	162.6	0.0158	mg/L	0.7897	ppm
1	V 292.402	27908.5	27745.8	0.2488	mg/L	12.44	ppm
1	Zn 213.856	28145.9	28729.3	0.2576	mg/L	12.88	ppm
2	Ag 328.068	-1484.0	-410.0	-0.0020	mg/L	-0.1016	ppm
2	Al 308.215	3577834.2	3573236.6	97.94	mg/L	4897	ppm
2	As 188.979	102.4	33.0	0.0596	mg/L	2.978	ppm
2	Ba 233.527	207357.1	208222.7	0.5894	mg/L	29.47	ppm
2	Be 313.107	3015.1	3429.3	0.0012	mg/L	0.0619	ppm
2	Ca 227.547	460470.5	460187.1	1763	mg/L	88150	ppm
2	Cd 228.802	427.4	337.6	0.0027	mg/L	0.1332	ppm
2	Co 228.616	5047.8	5464.5	0.0517	mg/L	2.583	ppm
2	Cr 267.716	17191.3	17351.1	0.1919	mg/L	9.593	ppm
2	Cu 324.754	20566.8	18279.9	0.0633	mg/L	3.163	ppm
2	Fe 273.955	6394391.4	6391401.5	128.4	mg/L	6418	ppm
2	Mg 279.079	2400909.0	2400312.8	75.57	mg/L	3779	ppm
2	Mn 257.610	3108493.5	3107372.8	1.958	mg/L	97.89	ppm
2	Mo 202.030	-77.6	-49.0	-0.0076	mg/L	-0.3790	ppm
2	Ni 231.604	5062.8	4787.6	0.0946	mg/L	4.730	ppm
2	Pb 220.353	758.8	573.9	0.0501	mg/L	2.504	ppm
2	Sb 206.833	122.7	62.1	0.0010	mg/L	0.0523	ppm
2	Se 196.026	20.5	-63.8	0.0084	mg/L	0.4185	ppm
2	Tl 190.800	302.9	114.3	0.0010	mg/L	0.0516	ppm
2	V 292.402	26907.4	26744.6	0.2399	mg/L	11.99	ppm
2	Zn 213.856	26970.1	27553.5	0.2463	mg/L	12.31	ppm
3	Ag 328.068	-1715.8	-641.8	-0.0032	mg/L	-0.1591	ppm
3	Al 308.215	3530761.3	3526163.7	96.65	mg/L	4832	ppm
3	As 188.979	25.4	-44.0	0.0307	mg/L	1.536	ppm
3	Ba 233.527	210446.7	211312.4	0.5982	mg/L	29.91	ppm
3	Be 313.107	3033.8	3448.0	0.0012	mg/L	0.0622	ppm
3	Ca 227.547	467058.4	466774.9	1788	mg/L	89400	ppm
3	Cd 228.802	402.9	313.1	0.0025	mg/L	0.1236	ppm
3	Co 228.616	5180.8	5597.5	0.0529	mg/L	2.646	ppm
3	Cr 267.716	17484.6	17644.3	0.1951	mg/L	9.755	ppm
3	Cu 324.754	21247.2	18960.3	0.0653	mg/L	3.267	ppm
3	Fe 273.955	6339676.5	6336686.6	127.3	mg/L	6363	ppm
3	Mg 279.079	2369909.2	2369313.0	74.60	mg/L	3730	ppm
3	Mn 257.610	3065744.6	3064623.9	1.931	mg/L	96.54	ppm
3	Mo 202.030	-55.1	-26.6	-0.0063	mg/L	-0.3173	ppm
3	Ni 231.604	5076.9	4801.7	0.0949	mg/L	4.744	ppm
3	Pb 220.353	665.5	480.6	0.0438	mg/L	2.192	ppm
3	Sb 206.833	74.4	13.8	-0.0105	mg/L	-0.5262	ppm
3	Se 196.026	-33.6	-117.8	-0.0115	mg/L	-0.5753	ppm
3	Tl 190.800	298.7	110.2	0.0002	mg/L	0.0123	ppm
3	V 292.402	27166.3	27003.6	0.2422	mg/L	12.11	ppm
3	Zn 213.856	27591.6	28174.9	0.2523	mg/L	12.61	ppm

ean Data ----------

D: 6141-3 F=50 Seq. No.: 24 Sample No.: 12 A/S Pos: 20

ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 12:30:37 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-509.5	-0.0025	0.00059	mg/L	-0.1263	0.02958	ppm	23.42%
308.215	3534231.2	96.87	0.977	mg/L	4843	48.9	ppm	1.01%
188.979	-0.3	0.0476	0.01505	mg/L	2.382	0.7523	ppm	31.59%
a 233.527	211687.1	0.5992	0.01038	mg/L	29.96	0.519	ppm	1.73%
e 313.107	3555.6	0.0013	0.00007	mg/L	0.0642	0.00366	ppm	5.70%
227.547	468301.7	1794	34.3	mg/L	89700	1715.5	ppm	1.91%
228.802	291.6	0.0023	0.00047	mg/L	0.1151	0.02359	ppm	20.50%
228.616	5609.9	0.0530	0.00144	mg/L	2.651	0.0718	ppm	2.71%
r 267.716	17639.2	0.1950	0.00316	mg/L	9.752	0.1579	ppm	1.62%
324.754	18710.7	0.0646	0.00114	mg/L	3.228	0.0569	ppm	1.76%
273.955	6341188.1	127.3	0.97	mg/L	6367	48.3	ppm	0.76%
279.079	2377995.8	74.87	0.613	mg/L	3744	30.7	ppm	0.82%
n 257.610	3079457.6	1.940	0.0152	mg/L	97.01	0.762	ppm	0.79%
202.030	-14.2	-0.0057	0.00228	mg/L	-0.2847	0.11421	ppm	40.12%
231.604	4821.0	0.0953	0.00091	mg/L	4.763	0.0457	ppm	0.96%
220.353	548.2	0.0484	0.00399	mg/L	2.420	0.1996	ppm	8.25%
b 206.833	43.2	-0.0035	0.00617	mg/L	-0.1752	0.30843	ppm	176.08%
e 196.026	-72.2	0.0051	0.01523	mg/L	0.2546	0.76133	ppm	299.01%
190.800	129.0	0.0057	0.00876	mg/L	0.2846	0.43793	ppm	153.90%
292.402	27164.6	0.2436	0.00466	mg/L	12.18	0.233	ppm	1.91%
n 213.856	28152.6	0.2521	0.00565	mg/L	12.60	0.282	ppm	2.24%

plicate Data

: 6141-4 F=50 Date: 11/21/02 12:33:14 PM

pl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-1653.3	-579.3	-0.0029	mg/L	-0.1436	ppm
1	Al 308.215	3169490.6	3164893.1	86.74	mg/L	4337	ppm
1	As 188.979	-12.4	-81.8	0.0213	mg/L	1.064	ppm
1	Ba 233.527	168083.9	168949.5	0.4782	mg/L	23.91	ppm
1	Be 313.107	1038.5	1452.7	0.0005	mg/L	0.0262	ppm
1	Ca 227.547	520446.0	520162.5	1992	mg/L	99600	ppm
1	Cd 228.802	482.4	392.7	0.0031	mg/L	0.1549	ppm
1	Co 228.616	4309.2	4725.9	0.0447	mg/L	2.234	ppm
1	Cr 267.716	14772.2	14932.0	0.1651	mg/L	8.256	ppm
1	Cu 324.754	18419.6	16132.6	0.0558	mg/L	2.792	ppm
1	Fe 273.955	5643407.8	5640417.9	113.3	mg/L	5664	ppm
1	Mg 279.079	2358877.1	2358280.9	74.25	mg/L	3713	ppm
1	Mn 257.610	2543063.1	2541942.4	1.601	mg/L	80.07	ppm
1	Mo 202.030	-77.3	-48.8	-0.0070	mg/L	-0.3490	ppm
1	Ni 231.604	4192.9	3917.7	0.0774	mg/L	3.871	ppm
1	Pb 220.353	613.3	428.4	0.0405	mg/L	2.027	ppm
1	Sb 206.833	80.3	19.6	-0.0074	mg/L	-0.3692	ppm
1	Se 196.026	6.5	-77.8	-0.0005	mg/L	-0.0229	ppm
1	Tl 190.800	279.5	91.0	-0.0014	mg/L	-0.0712	ppm
1	V 292.402	24798.4	24635.6	0.2209	mg/L	11.05	ppm
1	Zn 213.856	25515.0	26098.4	0.2342	mg/L	11.71	ppm
2	Ag 328.068	-1394.9	-320.9	-0.0016	mg/L	-0.0795	ppm
2	Al 308.215	3043302.9	3038705.3	83.29	mg/L	4164	ppm
2	As 188.979	53.6	-15.8	0.0451	mg/L	2.255	ppm
2	Ba 233.527	164136.2	165001.8	0.4671	mg/L	23.35	ppm
2	Be 313.107	827.3	1241.6	0.0004	mg/L	0.0224	ppm
2	Ca 227.547	505210.4	504927.0	1934	mg/L	96680	ppm
2	Cd 228.802	356.4	266.7	0.0021	mg/L	0.1052	ppm
2	Co 228.616	4167.7	4584.4	0.0433	mg/L	2.167	ppm
2	Cr 267.716	14439.3	14599.1	0.1614	mg/L	8.071	ppm
2	Cu 324.754	17984.6	15697.7	0.0543	mg/L	2.715	ppm
2	Fe 273.955	5454011.0	5451021.1	109.5	mg/L	5473	ppm
2	Mg 279.079	2294663.6	2294067.4	72.23	mg/L	3611	ppm
2	Mn 257.610	2473028.0	2471907.3	1.557	mg/L	77.87	ppm
2	Mo 202.030	-36.0	-7.5	-0.0046	mg/L	-0.2323	ppm
2	Ni 231.604	3990.4	3715.2	0.0734	mg/L	3.671	ppm
2	Pb 220.353	586.8	401.9	0.0384	mg/L	1.919	ppm
2	Sb 206.833	171.2	110.6	0.0147	mg/L	0.7370	ppm
2	Se 196.026	23.0	-61.3	0.0046	mg/L	0.2319	ppm
2	Tl 190.800	244.6	56.0	-0.0106	mg/L	-0.5290	ppm

2	V 292.402	24254.9	24092.2	0.2161	mg/L	10.80 ppm
2	Zn 213.856	24791.9	25375.3	0.2278	mg/L	11.39 ppm
3	Ag 328.068	-1604.4	-530.5	-0.0026	mg/L	-0.1315 ppm
3	Al 308.215	3093761.8	3089164.2	84.67	mg/L	4233 ppm
3	As 188.979	32.3	-37.2	0.0388	mg/L	1.941 ppm
3	Ba 233.527	168547.9	169413.6	0.4796	mg/L	23.98 ppm
3	Be 313.107	953.3	1367.5	0.0005	mg/L	0.0247 ppm
3	Ca 227.547	523838.1	523554.7	2005	mg/L	100200 ppm
3	Cd 228.802	292.9	203.1	0.0016	mg/L	0.0802 ppm
3	Co 228.616	4509.7	4926.4	0.0466	mg/L	2.328 ppm
3	Cr 267.716	15303.2	15463.0	0.1710	mg/L	8.549 ppm
3	Cu 324.754	18414.9	16128.0	0.0557	mg/L	2.785 ppm
3	Fe 273.955	5519882.9	5516893.0	110.8	mg/L	5540 ppm
3	Mg 279.079	2365948.7	2365352.5	74.47	mg/L	3724 ppm
3	Mn 257.610	2557837.0	2556716.3	1.611	mg/L	80.54 ppm
3	Mo 202.030	-87.5	-59.0	-0.0074	mg/L	-0.3713 ppm
3	Ni 231.604	4376.7	4101.5	0.0810	mg/L	4.052 ppm
3	Pb 220.353	657.8	472.9	0.0435	mg/L	2.173 ppm
3	Sb 206.833	126.1	65.5	0.0036	mg/L	0.1791 ppm
3	Se 196.026	34.9	-49.4	0.0093	mg/L	0.4635 ppm
3	Tl 190.800	262.1	73.6	-0.0058	mg/L	-0.2903 ppm
3	V 292.402	25133.0	24970.3	0.2239	mg/L	11.20 ppm
3	Zn 213.856	26672.1	27255.5	0.2453	mg/L	12.27 ppm

lean Data ----------

D: 6141-4 F=50 Seq. No.: 25 Sample No.: 13 A/S Pos: 21

ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 12:33:14 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	-476.9	-0.0024	0.00068	mg/L	-0.1182	0.03402	ppm	28.78%
l 308.215	3097587.5	84.90	1.741	mg/L	4245	87.0	ppm	2.05%
s 188.979	-44.9	0.0351	0.01235	mg/L	1.754	0.6173	ppm	35.20%
a 233.527	167788.3	0.4750	0.00686	mg/L	23.75	0.343	ppm	1.44%
e 313.107	1353.9	0.0005	0.00004	mg/L	0.0244	0.00192	ppm	7.85%
a 227.547	516214.7	1977	38.0	mg/L	98840	1898.7	ppm	1.92%
d 228.802	287.5	0.0023	0.00076	mg/L	0.1134	0.03806	ppm	33.55%
o 228.616	4745.6	0.0449	0.00162	mg/L	2.243	0.0812	ppm	3.62%
r 267.716	14998.0	0.1658	0.00482	mg/L	8.292	0.2409	ppm	2.91%
u 324.754	15986.1	0.0553	0.00085	mg/L	2.764	0.0427	ppm	1.55%
e 273.955	5536110.7	111.2	1.93	mg/L	5559	96.5	ppm	1.74%
g 279.079	2339233.6	73.65	1.237	mg/L	3683	61.8	ppm	1.68%
n 257.610	2523522.0	1.590	0.0285	mg/L	79.49	1.427	ppm	1.80%
o 202.030	-38.4	-0.0064	0.00149	mg/L	-0.3175	0.07462	ppm	23.50%
i 231.604	3911.4	0.0773	0.00382	mg/L	3.865	0.1909	ppm	4.94%
b 220.353	434.4	0.0408	0.00255	mg/L	2.039	0.1275	ppm	6.25%
b 206.833	65.2	0.0036	0.01106	mg/L	0.1823	0.55314	ppm	303.38%
e 196.026	-62.8	0.0045	0.00487	mg/L	0.2242	0.24331	ppm	108.54%
l 190.800	73.5	-0.0059	0.00458	mg/L	-0.2968	0.22898	ppm	77.14%
292.402	24566.0	0.2203	0.00397	mg/L	11.02	0.199	ppm	1.80%
n 213.856	26243.1	0.2358	0.00890	mg/L	11.79	0.445	ppm	3.78%

eplicate Data ----------

D: 6141-5 F=50 Date: 11/21/02 12:36:12 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-1701.0	-627.0	-0.0031	mg/L	-0.1554	ppm
1	Al 308.215	2395195.6	2390598.0	65.52	mg/L	3276	ppm
1	As 188.979	73.8	4.4	0.0333	mg/L	1.663	ppm
1	Ba 233.527	156924.1	157789.7	0.4467	mg/L	22.33	ppm
1	Be 313.107	3254.8	3669.0	0.0013	mg/L	0.0662	ppm
1	Ca 227.547	309730.1	309446.6	1186	mg/L	59300	ppm
1	Cd 228.802	289.9	200.1	0.0016	mg/L	0.0790	ppm
1	Co 228.616	5059.4	5476.1	0.0518	mg/L	2.588	ppm
1	Cr 267.716	11200.9	11360.7	0.1256	mg/L	6.281	ppm
1	Cu 324.754	21493.8	19206.9	0.0654	mg/L	3.271	ppm
1	Fe 273.955	5580592.6	5577602.8	112.0	mg/L	5601	ppm
1	Mg 279.079	2106703.4	2106107.2	66.31	mg/L	3316	ppm

1 Mn 257.610	2946174.4	2945053.7	1.855 mg/L	92.77 ppm
1 Mo 202.030	-41.1	-12.6	-0.0050 mg/L	-0.2507 ppm
1 Ni 231.604	4399.1	4123.9	0.0815 mg/L	4.074 ppm
1 Pb 220.353	931.5	746.6	0.0578 mg/L	2.889 ppm
1 Sb 206.833	98.8	38.1	-0.0011 mg/L	-0.0539 ppm
1 Se 196.026	-1.7	-86.0	-0.0023 mg/L	-0.1137 ppm
1 Tl 190.800	282.2	93.6	0.0012 mg/L	0.0601 ppm
1 V 292.402	26128.4	25965.7	0.2329 mg/L	11.64 ppm
1 Zn 213.856	31429.0	32012.4	0.2901 mg/L	14.50 ppm
2 Ag 328.068	-1554.6	-480.7	-0.0024 mg/L	-0.1191 ppm
2 Al 308.215	2413426.8	2408829.2	66.02 mg/L	3301 ppm
2 As 188.979	66.8	-2.6	0.0307 mg/L	1.533 ppm
2 Ba 233.527	156000.7	156866.3	0.4440 mg/L	22.20 ppm
2 Be 313.107	3190.1	3604.3	0.0013 mg/L	0.0650 ppm
2 Ca 227.547	310742.6	310459.2	1190 mg/L	59490 ppm
2 Cd 228.802	287.3	197.5	0.0016 mg/L	0.0779 ppm
2 Co 228.616	5057.3	5474.0	0.0517 mg/L	2.587 ppm
2 Cr 267.716	11115.3	11275.1	0.1247 mg/L	6.234 ppm
2 Cu 324.754	21807.3	19520.4	0.0664 mg/L	3.320 ppm
2 Fe 273.955	5581076.8	5578086.9	112.0 mg/L	5601 ppm
2 Mg 279.079	2100012.9	2099416.8	66.10 mg/L	3305 ppm
2 Mn 257.610	2981264.0	2980143.3	1.878 mg/L	93.88 ppm
2 Mo 202.030	-42.9	-14.4	-0.0051 mg/L	-0.2556 ppm
2 Ni 231.604	4399.5	4124.3	0.0815 mg/L	4.075 ppm
2 Pb 220.353	922.5	737.6	0.0572 mg/L	2.861 ppm
2 Sb 206.833	106.4	45.7	0.0008 mg/L	0.0376 ppm
2 Se 196.026	7.8	-76.5	0.0011 mg/L	0.0564 ppm
2 Tl 190.800	289.9	101.4	0.0034 mg/L	0.1701 ppm
2 V 292.402	26121.6	25958.8	0.2328 mg/L	11.64 ppm
2 Zn 213.856	31734.4	32317.8	0.2930 mg/L	14.65 ppm
3 Ag 328.068	-1660.8	-586.9	-0.0029 mg/L	-0.1455 ppm
3 Al 308.215	2391624.3	2387026.7	65.42 mg/L	3271 ppm
3 As 188.979	72.3	2.8	0.0330 mg/L	1.652 ppm
3 Ba 233.527	157887.7	158753.3	0.4494 mg/L	22.47 ppm
3 Be 313.107	3500.5	3914.7	0.0014 mg/L	0.0706 ppm
3 Ca 227.547	313538.8	313255.3	1201 mg/L	60030 ppm
3 Cd 228.802	292.2	202.4	0.0016 mg/L	0.0799 ppm
3 Co 228.616	5054.6	5471.3	0.0517 mg/L	2.586 ppm
3 Cr 267.716	11182.7	11342.5	0.1254 mg/L	6.271 ppm
3 Cu 324.754	21854.9	19568.0	0.0665 mg/L	3.326 ppm
3 Fe 273.955	5551808.2	5548818.4	111.4 mg/L	5572 ppm
3 Mg 279.079	2119930.4	2119334.3	66.73 mg/L	3336 ppm
3 Mn 257.610	2933821.0	2932700.3	1.848 mg/L	92.38 ppm
3 Mo 202.030	-49.2	-20.7	-0.0054 mg/L	-0.2711 ppm
3 Ni 231.604	4356.5	4081.3	0.0806 mg/L	4.032 ppm
3 Pb 220.353	935.0	750.1	0.0581 mg/L	2.903 ppm
3 Sb 206.833	89.6	29.0	-0.0032 mg/L	-0.1619 ppm
3 Se 196.026	10.8	-73.5	0.0021 mg/L	0.1048 ppm
3 Tl 190.800	278.0	89.4	0.0001 mg/L	0.0047 ppm
3 V 292.402	26453.8	26291.0	0.2358 mg/L	11.79 ppm
3 Zn 213.856	31984.4	32567.8	0.2954 mg/L	14.77 ppm

ean Data ----------

: 6141-5 F=50 Seq. No.: 26 Sample No.: 14 A/S Pos: 22
mple Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 12:36:12 PM

ement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-564.9	-0.0028	0.00037	mg/L	-0.1400	0.01875	ppm	13.39%
l 308.215	2395484.7	65.66	0.321	mg/L	3283	16.0	ppm	0.49%
188.979	1.5	0.0323	0.00144	mg/L	1.616	0.0722	ppm	4.47%
233.527	157803.1	0.4467	0.00267	mg/L	22.33	0.134	ppm	0.60%
313.107	3729.4	0.0013	0.00006	mg/L	0.0673	0.00296	ppm	4.39%
a 227.547	311053.7	1192	7.5	mg/L	59610	376.9	ppm	0.63%
228.802	200.0	0.0016	0.00002	mg/L	0.0789	0.00097	ppm	1.23%
228.616	5473.8	0.0517	0.00002	mg/L	2.587	0.0011	ppm	0.04%
267.716	11326.1	0.1252	0.00050	mg/L	6.262	0.0249	ppm	0.40%
324.754	19431.8	0.0661	0.00061	mg/L	3.306	0.0303	ppm	0.92%
273.955	5568169.4	111.8	0.34	mg/L	5591	16.8	ppm	0.30%

Mg 279.079	2108286.1	66.38	0.319 mg/L	3319	16.0 ppm	0.48%
Mn 257.610	2952632.4	1.860	0.0155 mg/L	93.01	0.775 ppm	0.83%
Mo 202.030	-15.9	-0.0052	0.00021 mg/L	-0.2592	0.01065 ppm	4.11%
Ni 231.604	4109.8	0.0812	0.00049 mg/L	4.061	0.0244 ppm	0.60%
Pb 220.353	744.8	0.0577	0.00043 mg/L	2.885	0.0215 ppm	0.74%
Sb 206.833	37.6	-0.0012	0.00200 mg/L	-0.0594	0.09988 ppm	168.12%
Se 196.026	-78.7	0.0003	0.00229 mg/L	0.0158	0.11473 ppm	724.08%
Tl 190.800	94.8	0.0016	0.00168 mg/L	0.0783	0.08420 ppm	107.48%
292.402	26071.8	0.2338	0.00170 mg/L	11.69	0.085 ppm	0.73%
Zn 213.856	32299.3	0.2928	0.00265 mg/L	14.64	0.133 ppm	0.91%

Replicate Data ----------

D: 6141-6 F=50 Date: 11/21/02 12:39:48 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1172.6	-98.6	-0.0005	mg/L	-0.0244	ppm
1	Al 308.215	1596368.0	1591770.4	43.63	mg/L	2181	ppm
1	As 188.979	33.7	-35.8	0.0486	mg/L	2.430	ppm
1	Ba 233.527	137318.0	138183.6	0.3912	mg/L	19.56	ppm
1	Be 313.107	240.8	655.0	0.0002	mg/L	0.0118	ppm
1	Ca 227.547	631923.8	631640.3	2416	mg/L	120800	ppm
1	Cd 228.802	387.4	297.7	0.0023	mg/L	0.1175	ppm
1	Co 228.616	1911.5	2328.2	0.0220	mg/L	1.100	ppm
1	Cr 267.716	9996.7	10156.4	0.1123	mg/L	5.615	ppm
1	Cu 324.754	9005.0	6718.1	0.0211	mg/L	1.054	ppm
1	Fe 273.955	2467900.7	2464910.9	49.50	mg/L	2475	ppm
1	Mg 279.079	1976069.6	1975473.5	62.20	mg/L	3110	ppm
1	Mn 257.610	1854512.3	1853391.6	1.168	mg/L	58.38	ppm
1	Mo 202.030	-104.9	-76.4	-0.0040	mg/L	-0.2024	ppm
1	Ni 231.604	2487.7	2212.5	0.0437	mg/L	2.186	ppm
1	Pb 220.353	296.2	111.3	0.0185	mg/L	0.9241	ppm
1	Sb 206.833	85.0	24.4	0.0026	mg/L	0.1282	ppm
1	Se 196.026	51.9	-32.4	0.0000	mg/L	-0.0013	ppm
1	Tl 190.800	276.7	88.1	0.0146	mg/L	0.7323	ppm
1	V 292.402	11985.0	11822.2	0.1060	mg/L	5.301	ppm
1	Zn 213.856	12199.9	12783.2	0.1153	mg/L	5.767	ppm
2	Ag 328.068	-1347.6	-273.7	-0.0014	mg/L	-0.0678	ppm
2	Al 308.215	1656457.9	1651860.3	45.27	mg/L	2264	ppm
2	As 188.979	29.6	-39.9	0.0497	mg/L	2.483	ppm
2	Ba 233.527	134380.6	135246.2	0.3828	mg/L	19.14	ppm
2	Be 313.107	272.4	686.6	0.0002	mg/L	0.0124	ppm
2	Ca 227.547	658807.7	658524.3	2519	mg/L	125900	ppm
2	Cd 228.802	371.6	281.9	0.0022	mg/L	0.1112	ppm
2	Co 228.616	1914.9	2331.6	0.0220	mg/L	1.102	ppm
2	Cr 267.716	9540.8	9700.6	0.1073	mg/L	5.363	ppm
2	Cu 324.754	9125.6	6838.6	0.0215	mg/L	1.073	ppm
2	Fe 273.955	2537101.7	2534111.9	50.89	mg/L	2545	ppm
2	Mg 279.079	2037320.6	2036724.4	64.13	mg/L	3206	ppm
2	Mn 257.610	1911830.6	1910709.9	1.204	mg/L	60.19	ppm
2	Mo 202.030	-97.1	-68.6	-0.0036	mg/L	-0.1817	ppm
2	Ni 231.604	2498.6	2223.4	0.0439	mg/L	2.197	ppm
2	Pb 220.353	296.3	111.5	0.0190	mg/L	0.9477	ppm
2	Sb 206.833	86.6	26.0	0.0011	mg/L	0.0534	ppm
2	Se 196.026	42.7	-41.6	-0.0031	mg/L	-0.1529	ppm
2	Tl 190.800	271.6	83.0	0.0129	mg/L	0.6426	ppm
2	V 292.402	11525.3	11362.6	0.1019	mg/L	5.095	ppm
2	Zn 213.856	12346.4	12929.8	0.1166	mg/L	5.828	ppm
3	Ag 328.068	-1293.1	-219.1	-0.0011	mg/L	-0.0543	ppm
3	Al 308.215	1654763.0	1650165.4	45.23	mg/L	2261	ppm
3	As 188.979	20.2	-49.3	0.0459	mg/L	2.294	ppm
3	Ba 233.527	133318.4	134184.0	0.3798	mg/L	18.99	ppm
3	Be 313.107	189.7	603.9	0.0002	mg/L	0.0109	ppm
3	Ca 227.547	656978.6	656695.1	2512	mg/L	125600	ppm
3	Cd 228.802	371.2	281.5	0.0022	mg/L	0.1111	ppm
3	Co 228.616	1938.4	2355.1	0.0223	mg/L	1.113	ppm
3	Cr 267.716	9741.1	9900.8	0.1095	mg/L	5.474	ppm
3	Cu 324.754	9097.9	6811.0	0.0214	mg/L	1.069	ppm
3	Fe 273.955	2532705.8	2529715.9	50.80	mg/L	2540	ppm

3	Mg 279.079	2034200.4	2033604.2	64.03	mg/L	3201 ppm
3	Mn 257.610	1918058.6	1916937.9	1.208	mg/L	60.39 ppm
3	Mo 202.030	-112.2	-83.7	-0.0044	mg/L	-0.2216 ppm
3	Ni 231.604	2491.3	2216.1	0.0438	mg/L	2.190 ppm
3	Pb 220.353	298.5	113.6	0.0191	mg/L	0.9536 ppm
3	Sb 206.833	80.6	19.9	-0.0004	mg/L	-0.0217 ppm
3	Se 196.026	53.8	-30.5	0.0009	mg/L	0.0472 ppm
3	Tl 190.800	255.8	67.2	0.0083	mg/L	0.4134 ppm
3	V 292.402	11845.6	11682.9	0.1048	mg/L	5.239 ppm
3	Zn 213.856	12439.6	13023.0	0.1175	mg/L	5.873 ppm

lean Data ----------

D: 6141-6 F=50 Seq. No.: 27 Sample No.: 15 A/S Pos: 23
mple Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 12:39:48 PM

ement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
328.068	-197.2	-0.0010	0.00044	mg/L	-0.0489	0.02220	ppm	45.43%
l 308.215	1631265.4	44.71	0.938	mg/L	2236	46.9	ppm	2.10%
s 188.979	-41.6	0.0481	0.00195	mg/L	2.403	0.0976	ppm	4.06%
233.527	135871.3	0.3846	0.00586	mg/L	19.23	0.293	ppm	1.52%
313.107	648.5	0.0002	0.00002	mg/L	0.0117	0.00075	ppm	6.44%
a 227.547	648953.2	2482	57.5	mg/L	124100	2872.6	ppm	2.31%
d 228.802	287.0	0.0023	0.00007	mg/L	0.1133	0.00364	ppm	3.21%
228.616	2338.3	0.0221	0.00014	mg/L	1.105	0.0069	ppm	0.63%
267.716	9919.3	0.1097	0.00253	mg/L	5.484	0.1263	ppm	2.30%
u 324.754	6789.2	0.0213	0.00020	mg/L	1.066	0.0099	ppm	0.93%
e 273.955	2509579.6	50.40	0.778	mg/L	2520	38.9	ppm	1.54%
279.079	2015267.4	63.45	1.086	mg/L	3173	54.3	ppm	1.71%
257.610	1893679.8	1.193	0.0221	mg/L	59.65	1.103	ppm	1.85%
202.030	-76.2	-0.0040	0.00040	mg/L	-0.2019	0.01994	ppm	9.87%
i 231.604	2217.3	0.0438	0.00011	mg/L	2.191	0.0055	ppm	0.25%
220.353	112.1	0.0188	0.00031	mg/L	0.9418	0.01560	ppm	1.66%
206.833	23.4	0.0011	0.00150	mg/L	0.0533	0.07494	ppm	140.62%
196.026	-34.8	-0.0007	0.00209	mg/L	-0.0357	0.10440	ppm	292.59%
l 190.800	79.5	0.0119	0.00329	mg/L	0.5961	0.16449	ppm	27.59%
292.402	11622.6	0.1042	0.00211	mg/L	5.212	0.1057	ppm	2.03%
213.856	12912.0	0.1164	0.00107	mg/L	5.822	0.0533	ppm	0.92%

eplicate Data ----------

D: 6141-7 F=50 Date: 11/21/02 12:43:07 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-2468.8	-1394.8	-0.0069	mg/L	-0.3457	ppm
1	Al 308.215	5189659.3	5185061.7	142.1	mg/L	7106	ppm
1	As 188.979	225.3	155.8	0.1015	mg/L	5.077	ppm
1	Ba 233.527	241952.1	242817.7	0.6873	mg/L	34.37	ppm
1	Be 313.107	13159.1	13573.3	0.0049	mg/L	0.2449	ppm
1	Ca 227.547	387960.3	387676.9	1488	mg/L	74380	ppm
1	Cd 228.802	408.3	318.6	0.0025	mg/L	0.1257	ppm
1	Co 228.616	12235.3	12652.0	0.1196	mg/L	5.980	ppm
1	Cr 267.716	24990.0	25149.8	0.2726	mg/L	13.63	ppm
1	Cu 324.754	40794.1	38507.2	0.1311	mg/L	6.556	ppm
1	Fe 273.955	11148633.4	11145643.6	223.8	mg/L	11190	ppm
1	Mg 279.079	2938430.0	2937833.9	92.50	mg/L	4625	ppm
1	Mn 257.610	4651993.3	4650872.6	2.930	mg/L	146.5	ppm
1	Mo 202.030	28.2	56.7	-0.0057	mg/L	-0.2844	ppm
1	Ni 231.604	13277.0	13001.8	0.2569	mg/L	12.85	ppm
1	Pb 220.353	1982.2	1797.3	0.1319	mg/L	6.595	ppm
1	Sb 206.833	146.6	85.9	-0.0010	mg/L	-0.0485	ppm
1	Se 196.026	-41.2	-125.5	0.0115	mg/L	0.5739	ppm
1	Tl 190.800	359.0	170.5	-0.0044	mg/L	-0.2198	ppm
1	V 292.402	54320.5	54157.8	0.4857	mg/L	24.29	ppm
1	Zn 213.856	58483.0	59066.4	0.5334	mg/L	26.67	ppm
2	Ag 328.068	-2808.2	-1734.2	-0.0086	mg/L	-0.4298	ppm
2	Al 308.215	5309226.4	5304628.9	145.4	mg/L	7270	ppm
2	As 188.979	244.9	175.5	0.1087	mg/L	5.435	ppm
2	Ba 233.527	240791.3	241656.9	0.6841	mg/L	34.20	ppm

2	Be 313.107	12849.1	13263.3	0.0048	mg/L	0.2393 ppm
2	Ca 227.547	384520.6	384237.2	1475	mg/L	73730 ppm
2	Cd 228.802	348.8	259.0	0.0020	mg/L	0.1022 ppm
2	Co 228.616	11927.4	12344.1	0.1167	mg/L	5.834 ppm
2	Cr 267.716	24990.2	25149.9	0.2725	mg/L	13.62 ppm
2	Cu 324.754	40312.3	38025.3	0.1298	mg/L	6.490 ppm
2	Fe 273.955	11337704.5	11334714.7	227.6	mg/L	11380 ppm
2	Mg 279.079	2916675.6	2916079.4	91.81	mg/L	4591 ppm
2	Mn 257.610	4610443.5	4609322.7	2.904	mg/L	145.2 ppm
2	Mo 202.030	113.0	141.5	-0.0013	mg/L	-0.0670 ppm
2	Ni 231.604	13279.0	13003.8	0.2570	mg/L	12.85 ppm
2	Pb 220.353	1979.5	1794.7	0.1318	mg/L	6.591 ppm
2	Sb 206.833	200.0	139.3	0.0115	mg/L	0.5770 ppm
2	Se 196.026	-37.0	-121.3	0.0139	mg/L	0.6951 ppm
2	Tl 190.800	331.2	142.7	-0.0135	mg/L	-0.6759 ppm
2	V 292.402	54173.4	54010.6	0.4844	mg/L	24.22 ppm
2	Zn 213.856	57974.9	58558.3	0.5282	mg/L	26.41 ppm
3	Ag 328.068	-2321.0	-1247.1	-0.0062	mg/L	-0.3091 ppm
3	Al 308.215	5263281.0	5258683.4	144.1	mg/L	7207 ppm
3	As 188.979	207.1	137.7	0.0949	mg/L	4.744 ppm
3	Ba 233.527	244467.8	245333.4	0.6945	mg/L	34.72 ppm
3	Be 313.107	13206.2	13620.4	0.0049	mg/L	0.2458 ppm
3	Ca 227.547	391498.8	391215.3	1501	mg/L	75060 ppm
3	Cd 228.802	349.9	260.2	0.0021	mg/L	0.1027 ppm
3	Co 228.616	11983.2	12399.9	0.1172	mg/L	5.861 ppm
3	Cr 267.716	24690.7	24850.5	0.2692	mg/L	13.46 ppm
3	Cu 324.754	41076.3	38789.4	0.1321	mg/L	6.606 ppm
3	Fe 273.955	11254747.3	11251757.5	226.0	mg/L	11300 ppm
3	Mg 279.079	2962750.6	2962154.5	93.26	mg/L	4663 ppm
3	Mn 257.610	4677940.3	4676819.5	2.947	mg/L	147.3 ppm
3	Mo 202.030	105.2	133.7	-0.0017	mg/L	-0.0844 ppm
3	Ni 231.604	13205.9	12930.7	0.2555	mg/L	12.78 ppm
3	Pb 220.353	1943.2	1758.3	0.1294	mg/L	6.471 ppm
3	Sb 206.833	145.3	84.6	-0.0013	mg/L	-0.0668 ppm
3	Se 196.026	-96.1	-180.3	-0.0079	mg/L	-0.3973 ppm
3	Tl 190.800	348.9	160.4	-0.0080	mg/L	-0.3975 ppm
3	V 292.402	54922.2	54759.4	0.4911	mg/L	24.56 ppm
3	Zn 213.856	59075.8	59659.2	0.5388	mg/L	26.94 ppm

ean Data ----------

D: 6141-7 F=50 Seq. No.: 28 Sample No.: 16 A/S Pos: 24
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 12:43:07 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	-1458.7	-0.0072	0.00124	mg/L	-0.3616	0.06191	ppm	17.12%
l 308.215	5249458.0	143.9	1.65	mg/L	7194	82.7	ppm	1.15%
s 188.979	156.3	0.1017	0.00691	mg/L	5.085	0.3456	ppm	6.80%
a 233.527	243269.3	0.6886	0.00532	mg/L	34.43	0.266	ppm	0.77%
e 313.107	13485.7	0.0049	0.00007	mg/L	0.2434	0.00350	ppm	1.44%
a 227.547	387709.8	1488	13.3	mg/L	74390	666.3	ppm	0.90%
d 228.802	279.3	0.0022	0.00027	mg/L	0.1102	0.01343	ppm	12.19%
o 228.616	12465.3	0.1178	0.00155	mg/L	5.892	0.0775	ppm	1.32%
r 267.716	25050.1	0.2714	0.00192	mg/L	13.57	0.096	ppm	0.71%
u 324.754	38440.6	0.1310	0.00117	mg/L	6.551	0.0583	ppm	0.89%
e 273.955	11244038.6	225.8	1.90	mg/L	11290	95.2	ppm	0.84%
g 279.079	2938689.3	92.53	0.726	mg/L	4626	36.3	ppm	0.78%
n 257.610	4645671.6	2.927	0.0215	mg/L	146.3	1.07	ppm	0.73%
o 202.030	110.6	-0.0029	0.00242	mg/L	-0.1452	0.12079	ppm	83.16%
i 231.604	12978.8	0.2565	0.00082	mg/L	12.82	0.041	ppm	0.32%
b 220.353	1783.4	0.1310	0.00140	mg/L	6.552	0.0702	ppm	1.07%
b 206.833	103.3	0.0031	0.00733	mg/L	0.1539	0.36655	ppm	238.14%
e 196.026	-142.4	0.0058	0.01198	mg/L	0.2906	0.59875	ppm	206.07%
l 190.800	157.9	-0.0086	0.00460	mg/L	-0.4311	0.22993	ppm	53.34%
292.402	54309.3	0.4871	0.00356	mg/L	24.35	0.178	ppm	0.73%
n 213.856	59094.6	0.5335	0.00528	mg/L	26.67	0.264	ppm	0.99%

eplicate Data ----------

D: 6141-8 F=50 Date: 11/21/02 12:45:49 PM

pl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-2768.7	-1694.7	-0.0084	mg/L	-0.4201	ppm
1	Al 308.215	4121189.9	4116592.3	112.8	mg/L	5641	ppm
1	As 188.979	128.4	58.9	0.0317	mg/L	1.586	ppm
1	Ba 233.527	161992.4	162858.0	0.4610	mg/L	23.05	ppm
1	Be 313.107	2490.8	2905.0	0.0010	mg/L	0.0524	ppm
1	Ca 227.547	43677.9	43394.5	171.2	mg/L	8559	ppm
1	Cd 228.802	283.5	193.7	0.0015	mg/L	0.0765	ppm
1	Co 228.616	10394.1	10810.8	0.1022	mg/L	5.110	ppm
1	Cr 267.716	18767.9	18927.7	0.2035	mg/L	10.17	ppm
1	Cu 324.754	35701.3	33414.3	0.1157	mg/L	5.785	ppm
1	Fe 273.955	11746169.5	11743179.7	235.8	mg/L	11790	ppm
1	Mg 279.079	2067131.7	2066535.6	65.07	mg/L	3253	ppm
1	Mn 257.610	3746533.9	3745413.2	2.360	mg/L	118.0	ppm
1	Mo 202.030	93.4	121.9	-0.0027	mg/L	-0.1349	ppm
1	Ni 231.604	7929.7	7654.5	0.1513	mg/L	7.563	ppm
1	Pb 220.353	1441.2	1256.4	0.0887	mg/L	4.435	ppm
1	Sb 206.833	170.0	109.4	0.0071	mg/L	0.3550	ppm
1	Se 196.026	6.0	-78.3	0.0343	mg/L	1.717	ppm
1	Tl 190.800	285.6	97.1	-0.0255	mg/L	-1.273	ppm
1	V 292.402	52369.5	52206.8	0.4682	mg/L	23.41	ppm
1	Zn 213.856	88989.3	89572.7	0.8199	mg/L	40.99	ppm
2	Ag 328.068	-2606.2	-1532.2	-0.0076	mg/L	-0.3798	ppm
2	Al 308.215	4025804.6	4021207.0	110.2	mg/L	5511	ppm
2	As 188.979	218.1	148.7	0.0660	mg/L	3.302	ppm
2	Ba 233.527	158548.2	159413.8	0.4513	mg/L	22.56	ppm
2	Be 313.107	2696.0	3110.2	0.0011	mg/L	0.0561	ppm
2	Ca 227.547	42773.5	42490.1	167.7	mg/L	8383	ppm
2	Cd 228.802	175.0	85.2	0.0007	mg/L	0.0336	ppm
2	Co 228.616	10138.5	10555.2	0.0998	mg/L	4.989	ppm
2	Cr 267.716	17877.0	18036.8	0.1937	mg/L	9.683	ppm
2	Cu 324.754	34856.7	32569.8	0.1129	mg/L	5.646	ppm
2	Fe 273.955	11622922.7	11619932.9	233.4	mg/L	11670	ppm
2	Mg 279.079	2024347.9	2023751.7	63.72	mg/L	3186	ppm
2	Mn 257.610	3656438.6	3655317.9	2.303	mg/L	115.1	ppm
2	Mo 202.030	30.8	59.3	-0.0059	mg/L	-0.2957	ppm
2	Ni 231.604	7748.1	7472.9	0.1477	mg/L	7.383	ppm
2	Pb 220.353	1419.9	1235.1	0.0872	mg/L	4.358	ppm
2	Sb 206.833	121.2	60.5	-0.0041	mg/L	-0.2059	ppm
2	Se 196.026	-97.2	-181.4	-0.0037	mg/L	-0.1837	ppm
2	Tl 190.800	289.1	100.5	-0.0237	mg/L	-1.184	ppm
2	V 292.402	50954.2	50791.4	0.4555	mg/L	22.78	ppm
2	Zn 213.856	86886.0	87469.4	0.8003	mg/L	40.01	ppm
3	Ag 328.068	-2552.2	-1478.3	-0.0073	mg/L	-0.3664	ppm
3	Al 308.215	4058170.6	4053573.0	111.1	mg/L	5555	ppm
3	As 188.979	172.0	102.5	0.0482	mg/L	2.412	ppm
3	Ba 233.527	159553.4	160419.0	0.4541	mg/L	22.70	ppm
3	Be 313.107	2462.0	2876.2	0.0010	mg/L	0.0519	ppm
3	Ca 227.547	43174.2	42890.7	169.2	mg/L	8458	ppm
3	Cd 228.802	143.5	53.8	0.0004	mg/L	0.0212	ppm
3	Co 228.616	10004.1	10420.8	0.0985	mg/L	4.925	ppm
3	Cr 267.716	17946.8	18106.6	0.1945	mg/L	9.724	ppm
3	Cu 324.754	35133.4	32846.4	0.1137	mg/L	5.685	ppm
3	Fe 273.955	11519979.3	11516989.4	231.3	mg/L	11560	ppm
3	Mg 279.079	2033458.2	2032862.0	64.01	mg/L	3200	ppm
3	Mn 257.610	3669556.0	3668435.3	2.311	mg/L	115.6	ppm
3	Mo 202.030	65.5	94.0	-0.0040	mg/L	-0.2001	ppm
3	Ni 231.604	7824.0	7548.8	0.1492	mg/L	7.458	ppm
3	Pb 220.353	1413.7	1228.8	0.0868	mg/L	4.340	ppm
3	Sb 206.833	145.0	84.4	0.0016	mg/L	0.0811	ppm
3	Se 196.026	-61.8	-146.1	0.0085	mg/L	0.4238	ppm
3	Tl 190.800	318.8	130.2	-0.0149	mg/L	-0.7430	ppm
3	V 292.402	51321.1	51158.3	0.4588	mg/L	22.94	ppm
3	Zn 213.856	87777.4	88360.8	0.8089	mg/L	40.45	ppm

an Data ----------

D: 6141-8 F=50 Seq. No.: 29 Sample No.: 17 A/S Pos: 25

mple Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 12:45:49 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-1568.4	-0.0078	0.00056	mg/L	-0.3887	0.02793	ppm	7.19%
l 308.215	4063790.8	111.4	1.33	mg/L	5569	66.5	ppm	1.19%
s 188.979	103.4	0.0487	0.01717	mg/L	2.433	0.8583	ppm	35.27%
a 233.527	160897.0	0.4555	0.00501	mg/L	22.77	0.251	ppm	1.10%
e 313.107	2963.8	0.0011	0.00005	mg/L	0.0535	0.00230	ppm	4.31%
a 227.547	42925.1	169.3	1.76	mg/L	8467	88.2	ppm	1.04%
d 228.802	110.9	0.0009	0.00058	mg/L	0.0438	0.02898	ppm	66.20%
o 228.616	10595.6	0.1002	0.00187	mg/L	5.008	0.0936	ppm	1.87%
r 267.716	18357.0	0.1972	0.00543	mg/L	9.860	0.2715	ppm	2.75%
u 324.754	32943.5	0.1141	0.00143	mg/L	5.705	0.0713	ppm	1.25%
e 273.955	11626700.7	233.5	2.27	mg/L	11670	113.7	ppm	0.97%
g 279.079	2041049.8	64.26	0.710	mg/L	3213	35.5	ppm	1.10%
n 257.610	3689722.1	2.325	0.0307	mg/L	116.2	1.53	ppm	1.32%
o 202.030	91.7	-0.0042	0.00162	mg/L	-0.2102	0.08090	ppm	38.48%
i 231.604	7558.8	0.1494	0.00180	mg/L	7.468	0.0901	ppm	1.21%
b 220.353	1240.1	0.0876	0.00101	mg/L	4.378	0.0507	ppm	1.16%
b 206.833	84.8	0.0015	0.00561	mg/L	0.0768	0.28051	ppm	365.45%
e 196.026	-135.3	0.0130	0.01941	mg/L	0.6523	0.97067	ppm	148.81%
l 190.800	109.3	-0.0213	0.00568	mg/L	-1.067	0.2838	ppm	26.61%
292.402	51385.5	0.4609	0.00659	mg/L	23.04	0.329	ppm	1.43%
n 213.856	88467.6	0.8097	0.00981	mg/L	40.48	0.491	ppm	1.21%

eplicate Data

D: 6141-9 F=50 Date: 11/21/02 12:48:32 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-2980.5	-1906.6	-0.0095	mg/L	-0.4726	ppm
1	Al 308.215	4717592.4	4712994.9	129.2	mg/L	6459	ppm
1	As 188.979	305.4	235.9	0.1078	mg/L	5.389	ppm
1	Ba 233.527	275643.8	276509.4	0.7827	mg/L	39.14	ppm
1	Be 313.107	7299.4	7713.6	0.0028	mg/L	0.1392	ppm
1	Ca 227.547	104350.7	104067.2	404.7	mg/L	20240	ppm
1	Cd 228.802	440.7	351.0	0.0028	mg/L	0.1385	ppm
1	Co 228.616	12918.9	13335.6	0.1261	mg/L	6.303	ppm
1	Cr 267.716	22455.4	22615.1	0.2426	mg/L	12.13	ppm
1	Cu 324.754	64795.3	62508.3	0.2101	mg/L	10.50	ppm
1	Fe 273.955	15078440.2	15075450.3	302.7	mg/L	15140	ppm
1	Mg 279.079	2452165.4	2451569.3	77.19	mg/L	3859	ppm
1	Mn 257.610	5178748.0	5177627.3	3.262	mg/L	163.1	ppm
1	Mo 202.030	169.0	197.5	-0.0013	mg/L	-0.0644	ppm
1	Ni 231.604	12633.7	12358.4	0.2442	mg/L	12.21	ppm
1	Pb 220.353	2162.0	1977.1	0.1388	mg/L	6.941	ppm
1	Sb 206.833	208.1	147.4	0.0118	mg/L	0.5917	ppm
1	Se 196.026	-83.0	-167.3	0.0210	mg/L	1.049	ppm
1	Tl 190.800	324.3	135.7	-0.0271	mg/L	-1.355	ppm
1	V 292.402	60932.9	60770.2	0.5450	mg/L	27.25	ppm
1	Zn 213.856	84320.0	84903.4	0.7687	mg/L	38.44	ppm
2	Ag 328.068	-2957.9	-1883.9	-0.0093	mg/L	-0.4669	ppm
2	Al 308.215	4813459.2	4808861.6	131.8	mg/L	6590	ppm
2	As 188.979	317.7	248.3	0.1129	mg/L	5.643	ppm
2	Ba 233.527	281288.9	282154.6	0.7987	mg/L	39.93	ppm
2	Be 313.107	7724.6	8138.8	0.0029	mg/L	0.1469	ppm
2	Ca 227.547	106758.8	106475.4	414.0	mg/L	20700	ppm
2	Cd 228.802	446.2	356.4	0.0028	mg/L	0.1406	ppm
2	Co 228.616	13140.3	13556.9	0.1282	mg/L	6.408	ppm
2	Cr 267.716	23293.9	23453.7	0.2517	mg/L	12.59	ppm
2	Cu 324.754	66064.0	63777.1	0.2143	mg/L	10.71	ppm
2	Fe 273.955	15309620.4	15306630.6	307.4	mg/L	15370	ppm
2	Mg 279.079	2497542.7	2496946.5	78.62	mg/L	3931	ppm
2	Mn 257.610	5258467.7	5257347.0	3.312	mg/L	165.6	ppm
2	Mo 202.030	262.0	290.5	0.0035	mg/L	0.1729	ppm
2	Ni 231.604	12980.3	12705.1	0.2511	mg/L	12.55	ppm
2	Pb 220.353	2232.6	2047.7	0.1437	mg/L	7.184	ppm
2	Sb 206.833	149.8	89.2	-0.0026	mg/L	-0.1322	ppm
2	Se 196.026	-82.3	-166.6	0.0224	mg/L	1.122	ppm

2	Tl 190.800	383.4	194.8	-0.0110	mg/L	-0.5516 ppm
2	V 292.402	61997.6	61834.8	0.5546	mg/L	27.73 ppm
2	Zn 213.856	85771.0	86354.4	0.7819	mg/L	39.10 ppm
3	Ag 328.068	-2953.9	-1880.0	-0.0093	mg/L	-0.4660 ppm
3	Al 308.215	4842333.7	4837736.1	132.6	mg/L	6630 ppm
3	As 188.979	289.6	220.2	0.1015	mg/L	5.074 ppm
3	Ba 233.527	266396.9	267262.5	0.7565	mg/L	37.83 ppm
3	Be 313.107	7054.1	7468.3	0.0027	mg/L	0.1348 ppm
3	Ca 227.547	100941.5	100658.0	391.8	mg/L	19590 ppm
3	Cd 228.802	360.7	271.0	0.0021	mg/L	0.1069 ppm
3	Co 228.616	13029.6	13446.3	0.1271	mg/L	6.355 ppm
3	Cr 267.716	22888.0	23047.7	0.2472	mg/L	12.36 ppm
3	Cu 324.754	62425.2	60138.2	0.2029	mg/L	10.15 ppm
3	Fe 273.955	15375935.5	15372945.6	308.7	mg/L	15440 ppm
3	Mg 279.079	2369211.9	2368615.8	74.58	mg/L	3729 ppm
3	Mn 257.610	5283677.4	5282556.7	3.328	mg/L	166.4 ppm
3	Mo 202.030	233.9	262.4	0.0019	mg/L	0.0959 ppm
3	Ni 231.604	12794.0	12518.8	0.2474	mg/L	12.37 ppm
3	Pb 220.353	2154.3	1969.4	0.1384	mg/L	6.920 ppm
3	Sb 206.833	82.5	21.9	-0.0187	mg/L	-0.9338 ppm
3	Se 196.026	-86.9	-171.1	0.0211	mg/L	1.056 ppm
3	Tl 190.800	340.0	151.5	-0.0238	mg/L	-1.191 ppm
3	V 292.402	58860.0	58697.2	0.5264	mg/L	26.32 ppm
3	Zn 213.856	81823.6	82407.0	0.7446	mg/L	37.23 ppm

an Data ----------

D: 6141-9 F=50 Seq. No.: 30 Sample No.: 18 A/S Pos: 26
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 12:48:32 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
328.068	-1890.2	-0.0094	0.00007	mg/L	-0.4685	0.00356	ppm	0.76%
308.215	4786530.9	131.2	1.79	mg/L	6560	89.5	ppm	1.36%
188.979	234.8	0.1074	0.00571	mg/L	5.369	0.2855	ppm	5.32%
a 233.527	275308.8	0.7793	0.02128	mg/L	38.97	1.064	ppm	2.73%
313.107	7773.6	0.0028	0.00012	mg/L	0.1403	0.00612	ppm	4.36%
227.547	103733.5	403.5	11.16	mg/L	20180	557.9	ppm	2.77%
228.802	326.1	0.0026	0.00038	mg/L	0.1287	0.01887	ppm	14.66%
o 228.616	13446.3	0.1271	0.00105	mg/L	6.355	0.0523	ppm	0.82%
r 267.716	23038.9	0.2472	0.00458	mg/L	12.36	0.229	ppm	1.85%
324.754	62141.2	0.2091	0.00575	mg/L	10.45	0.287	ppm	2.75%
273.955	15251675.5	306.3	3.14	mg/L	15310	156.8	ppm	1.02%
g 279.079	2439043.9	76.79	2.049	mg/L	3840	102.4	ppm	2.67%
n 257.610	5239177.0	3.301	0.0345	mg/L	165.0	1.73	ppm	1.05%
202.030	250.2	0.0014	0.00242	mg/L	0.0681	0.12109	ppm	177.75%
231.604	12527.4	0.2475	0.00343	mg/L	12.38	0.171	ppm	1.38%
o 220.353	1998.1	0.1403	0.00294	mg/L	7.015	0.1468	ppm	2.09%
b 206.833	86.2	-0.0032	0.01526	mg/L	-0.1581	0.76307	ppm	482.66%
196.026	-168.3	0.0215	0.00080	mg/L	1.075	0.0400	ppm	3.72%
190.800	160.7	-0.0206	0.00849	mg/L	-1.032	0.4245	ppm	41.11%
292.402	60434.1	0.5420	0.01431	mg/L	27.10	0.716	ppm	2.64%
n 213.856	84554.9	0.7651	0.01895	mg/L	38.25	0.948	ppm	2.48%

plicate Data ----------

: 6141-10 F=50 Date: 11/21/02 12:51:18 PM

pl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-3250.5	-2176.5	-0.0108	mg/L	-0.5395	ppm
1	Al 308.215	6496713.2	6492115.6	177.9	mg/L	8897	ppm
1	As 188.979	311.8	242.4	0.1075	mg/L	5.374	ppm
1	Ba 233.527	261807.4	262673.0	0.7435	mg/L	37.18	ppm
1	Be 313.107	13292.9	13707.1	0.0049	mg/L	0.2473	ppm
1	Ca 227.547	86394.4	86110.9	336.6	mg/L	16830	ppm
1	Cd 228.802	380.2	290.5	0.0023	mg/L	0.1146	ppm
1	Co 228.616	15534.4	15951.1	0.1508	mg/L	7.539	ppm
1	Cr 267.716	30503.3	30663.0	0.3309	mg/L	16.55	ppm
1	Cu 324.754	61276.1	58989.2	0.2002	mg/L	10.01	ppm
1	Fe 273.955	16381162.4	16378172.5	328.9	mg/L	16450	ppm

1	Mg 279.079	2877567.6	2876971.4	90.58	mg/L	4529 ppm
1	Mn 257.610	4882165.0	4881044.2	3.075	mg/L	153.8 ppm
1	Mo 202.030	136.1	164.6	-0.0040	mg/L	-0.2025 ppm
1	Ni 231.604	14772.4	14497.2	0.2865	mg/L	14.32 ppm
1	Pb 220.353	2627.8	2442.9	0.1722	mg/L	8.612 ppm
1	Sb 206.833	163.0	102.4	-0.0041	mg/L	-0.2064 ppm
1	Se 196.026	-104.3	-188.6	0.0176	mg/L	0.8796 ppm
1	Tl 190.800	391.1	202.6	-0.0188	mg/L	-0.9421 ppm
1	V 292.402	76365.9	76203.1	0.6834	mg/L	34.17 ppm
1	Zn 213.856	86669.0	87252.4	0.7881	mg/L	39.41 ppm
2	Ag 328.068	-3137.9	-2063.9	-0.0102	mg/L	-0.5116 ppm
2	Al 308.215	6529268.8	6524671.2	178.8	mg/L	8942 ppm
2	As 188.979	310.7	241.3	0.1071	mg/L	5.356 ppm
2	Ba 233.527	262876.6	263742.2	0.7466	mg/L	37.33 ppm
2	Be 313.107	13342.3	13756.5	0.0050	mg/L	0.2482 ppm
2	Ca 227.547	87099.2	86815.7	339.3	mg/L	16970 ppm
2	Cd 228.802	383.4	293.6	0.0023	mg/L	0.1159 ppm
2	Co 228.616	15938.7	16355.4	0.1546	mg/L	7.730 ppm
2	Cr 267.716	30873.9	31033.7	0.3350	mg/L	16.75 ppm
2	Cu 324.754	62115.1	59828.2	0.2029	mg/L	10.14 ppm
2	Fe 273.955	16392360.6	16389370.8	329.1	mg/L	16460 ppm
2	Mg 279.079	2888958.1	2888361.9	90.94	mg/L	4547 ppm
2	Mn 257.610	4919069.3	4917948.6	3.098	mg/L	154.9 ppm
2	Mo 202.030	137.6	166.1	-0.0040	mg/L	-0.1989 ppm
2	Ni 231.604	15089.5	14814.3	0.2927	mg/L	14.64 ppm
2	Pb 220.353	2655.9	2471.0	0.1742	mg/L	8.709 ppm
2	Sb 206.833	178.7	118.1	-0.0005	mg/L	-0.0264 ppm
2	Se 196.026	-170.6	-254.9	-0.0065	mg/L	-0.3248 ppm
2	Tl 190.800	353.6	165.1	-0.0299	mg/L	-1.495 ppm
2	V 292.402	76843.6	76680.8	0.6877	mg/L	34.39 ppm
2	Zn 213.856	87613.3	88196.7	0.7970	mg/L	39.85 ppm
3	Ag 328.068	-3304.8	-2230.8	-0.0111	mg/L	-0.5529 ppm
3	Al 308.215	6568127.1	6563529.5	179.9	mg/L	8995 ppm
3	As 188.979	332.4	263.0	0.1155	mg/L	5.777 ppm
3	Ba 233.527	265065.9	265931.6	0.7528	mg/L	37.64 ppm
3	Be 313.107	13491.8	13906.0	0.0050	mg/L	0.2509 ppm
3	Ca 227.547	88405.7	88122.3	344.3	mg/L	17220 ppm
3	Cd 228.802	334.6	244.9	0.0019	mg/L	0.0966 ppm
3	Co 228.616	15116.8	15533.5	0.1468	mg/L	7.342 ppm
3	Cr 267.716	30891.1	31050.8	0.3352	mg/L	16.76 ppm
3	Cu 324.754	62905.2	60618.2	0.2054	mg/L	10.27 ppm
3	Fe 273.955	16422377.7	16419387.9	329.7	mg/L	16490 ppm
3	Mg 279.079	2910524.0	2909927.9	91.62	mg/L	4581 ppm
3	Mn 257.610	4965622.8	4964502.1	3.128	mg/L	156.4 ppm
3	Mo 202.030	111.8	140.3	-0.0054	mg/L	-0.2685 ppm
3	Ni 231.604	14383.8	14108.6	0.2788	mg/L	13.94 ppm
3	Pb 220.353	2618.5	2433.6	0.1717	mg/L	8.587 ppm
3	Sb 206.833	204.0	143.4	0.0055	mg/L	0.2730 ppm
3	Se 196.026	-216.2	-300.5	-0.0229	mg/L	-1.147 ppm
3	Tl 190.800	363.6	175.1	-0.0273	mg/L	-1.363 ppm
3	V 292.402	77688.6	77525.8	0.6953	mg/L	34.77 ppm
3	Zn 213.856	88507.4	89090.7	0.8054	mg/L	40.27 ppm

ean Data ----------

D: 6141-10 F=50 Seq. No.: 31 Sample No.: 19 A/S Pos: 27
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 12:51:18 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-2157.1	-0.0107	0.00042	mg/L	-0.5346	0.02110	ppm	3.95%
l 308.215	6526772.1	178.9	0.98	mg/L	8944	49.0	ppm	0.55%
s 188.979	248.9	0.1100	0.00476	mg/L	5.502	0.2382	ppm	4.33%
a 233.527	264115.6	0.7476	0.00470	mg/L	37.38	0.235	ppm	0.63%
e 313.107	13789.9	0.0050	0.00004	mg/L	0.2488	0.00187	ppm	0.75%
a 227.547	87016.3	340.1	3.91	mg/L	17000	195.6	ppm	1.15%
d 228.802	276.3	0.0022	0.00022	mg/L	0.1090	0.01077	ppm	9.88%
o 228.616	15946.7	0.1507	0.00388	mg/L	7.537	0.1942	ppm	2.58%
r 267.716	30915.9	0.3337	0.00242	mg/L	16.68	0.121	ppm	0.72%
u 324.754	59811.9	0.2028	0.00258	mg/L	10.14	0.129	ppm	1.27%

273.955	16395643.7	329.3	0.43	mg/L	16460	21.4 ppm	0.13%
279.079	2891753.8	91.05	0.527	mg/L	4552	26.4 ppm	0.58%
m 257.610	4921165.0	3.100	0.0263	mg/L	155.0	1.32 ppm	0.85%
o 202.030	157.0	-0.0045	0.00078	mg/L	-0.2233	0.03920 ppm	17.56%
231.604	14473.3	0.2860	0.00698	mg/L	14.30	0.349 ppm	2.44%
220.353	2449.2	0.1727	0.00129	mg/L	8.636	0.0643 ppm	0.75%
206.833	121.3	0.0003	0.00484	mg/L	0.0134	0.24215 ppm	>999.9%
e 196.026	-248.0	-0.0039	0.02039	mg/L	-0.1975	1.01945 ppm	516.22%
190.800	180.9	-0.0253	0.00578	mg/L	-1.267	0.2889 ppm	22.80%
292.402	76803.3	0.6888	0.00601	mg/L	34.44	0.300 ppm	0.87%
213.856	88180.0	0.7968	0.00863	mg/L	39.84	0.431 ppm	1.08%

eplicate Data ----------
: CCV 1379B Date: 11/21/02 12:54:23 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	205400.6	206474.5	1.024	mg/L		
1	Al 308.215	189928.3	185330.8	5.080	mg/L		
1	As 188.979	1376.9	1307.4	0.5072	mg/L		
1	Ba 233.527	1849911.7	1850777.3	5.239	mg/L		
1	Be 313.107	1419581.2	1419995.4	0.5125	mg/L		
1	Ca 227.547	13834.8	13551.4	51.83	mg/L		
1	Cd 228.802	131441.6	131351.9	1.037	mg/L		
1	Co 228.616	220551.9	220968.6	2.089	mg/L		
1	Cr 267.716	46509.2	46669.0	0.5160	mg/L		
1	Cu 324.754	667759.0	665472.1	2.089	mg/L		
1	Fe 273.955	265553.4	262563.5	5.273	mg/L		
1	Mg 279.079	831871.0	831274.9	26.17	mg/L		
1	Mn 257.610	3351446.3	3350325.6	2.111	mg/L		
1	Mo 202.030	38366.0	38394.5	2.034	mg/L		
1	Ni 231.604	104711.0	104435.8	2.064	mg/L		
1	Pb 220.353	7763.9	7579.0	0.5071	mg/L		
1	Sb 206.833	8576.6	8515.9	2.022	mg/L		
1	Se 196.026	1493.4	1409.2	0.5134	mg/L		
1	Tl 190.800	1943.0	1754.4	0.5101	mg/L		
1	V 292.402	228877.4	228714.7	2.051	mg/L		
1	Zn 213.856	215006.1	215589.5	2.033	mg/L		
2	Ag 328.068	205233.4	206307.3	1.023	mg/L		
2	Al 308.215	189962.9	185365.3	5.081	mg/L		
2	As 188.979	1378.7	1309.2	0.5079	mg/L		
2	Ba 233.527	1841054.0	1841919.6	5.214	mg/L		
2	Be 313.107	1417386.6	1417800.8	0.5117	mg/L		
2	Ca 227.547	13822.6	13539.1	51.78	mg/L		
2	Cd 228.802	130764.9	130675.1	1.031	mg/L		
2	Co 228.616	218978.7	219395.4	2.074	mg/L		
2	Cr 267.716	46311.3	46471.1	0.5139	mg/L		
2	Cu 324.754	662889.9	660603.0	2.074	mg/L		
2	Fe 273.955	263498.2	260508.4	5.232	mg/L		
2	Mg 279.079	825376.7	824780.5	25.97	mg/L		
2	Mn 257.610	3317516.9	3316396.2	2.089	mg/L		
2	Mo 202.030	38426.7	38455.2	2.037	mg/L		
2	Ni 231.604	104017.2	103742.0	2.050	mg/L		
2	Pb 220.353	7743.1	7558.2	0.5057	mg/L		
2	Sb 206.833	8612.0	8551.4	2.030	mg/L		
2	Se 196.026	1510.5	1426.2	0.5196	mg/L		
2	Tl 190.800	1965.2	1776.7	0.5165	mg/L		
2	V 292.402	228535.7	228372.9	2.048	mg/L		
2	Zn 213.856	213795.5	214378.9	2.022	mg/L		
3	Ag 328.068	204614.2	205688.2	1.020	mg/L		
3	Al 308.215	189575.0	184977.4	5.070	mg/L		
3	As 188.979	1382.6	1313.2	0.5094	mg/L		
3	Ba 233.527	1791929.8	1792795.4	5.075	mg/L		
3	Be 313.107	1383842.6	1384256.8	0.4996	mg/L		
3	Ca 227.547	13744.6	13461.1	51.48	mg/L		
3	Cd 228.802	131185.8	131096.0	1.035	mg/L		
3	Co 228.616	219905.8	220322.5	2.083	mg/L		
3	Cr 267.716	46030.0	46189.8	0.5107	mg/L		
3	Cu 324.754	649566.5	647279.6	2.032	mg/L		

3	Fe 273.955	261098.6	258108.7	5.183 mg/L
3	Mg 279.079	808001.5	807405.4	25.42 mg/L
3	Mn 257.610	3247247.6	3246126.9	2.045 mg/L
3	Mo 202.030	38801.0	38829.5	2.057 mg/L
3	Ni 231.604	105465.6	105190.4	2.079 mg/L
3	Pb 220.353	7752.3	7567.4	0.5063 mg/L
3	Sb 206.833	8561.5	8500.9	2.018 mg/L
3	Se 196.026	1498.9	1414.6	0.5154 mg/L
3	Tl 190.800	1956.4	1767.8	0.5140 mg/L
3	V 292.402	227283.6	227120.9	2.037 mg/L
3	Zn 213.856	216079.3	216662.7	2.043 mg/L

Mean Data ----------

D: CCV 1379B Seq. No.: 32 Sample No.: 5 A/S Pos: 6
ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 12:54:23 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	206156.7	1.022	0.0021	mg/L				0.20%
l 308.215	185224.5	5.077	0.0059	mg/L				0.12%
s 188.979	1310.0	0.5082	0.00111	mg/L				0.22%
a 233.527	1828497.4	5.176	0.0884	mg/L				1.71%
e 313.107	1407351.0	0.5079	0.00723	mg/L				1.42%
a 227.547	13517.2	51.70	0.187	mg/L				0.36%
d 228.802	131041.0	1.034	0.0027	mg/L				0.26%
o 228.616	220228.8	2.082	0.0075	mg/L				0.36%
r 267.716	46443.3	0.5135	0.00266	mg/L				0.52%
u 324.754	657784.9	2.065	0.0296	mg/L				1.43%
e 273.955	260393.6	5.229	0.0448	mg/L				0.86%
g 279.079	821153.6	25.85	0.389	mg/L				1.50%
n 257.610	3304282.9	2.082	0.0335	mg/L				1.61%
o 202.030	38559.7	2.043	0.0125	mg/L				0.61%
i 231.604	104456.1	2.064	0.0143	mg/L				0.69%
b 220.353	7568.2	0.5064	0.00070	mg/L				0.14%
b 206.833	8522.7	2.023	0.0062	mg/L				0.30%
e 196.026	1416.7	0.5161	0.00317	mg/L				0.61%
l 190.800	1766.3	0.5135	0.00325	mg/L				0.63%
292.402	228069.5	2.045	0.0075	mg/L				0.37%
n 213.856	215543.7	2.033	0.0108	mg/L				0.53%

eplicate Data ----------

D: CCB Date: 11/21/02 12:59:35 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1133.9	-60.0	-0.0003	mg/L		
1	Al 308.215	4572.3	-25.3	-0.0007	mg/L		
1	As 188.979	72.6	3.2	0.0012	mg/L		
1	Ba 233.527	-833.0	32.6	0.0001	mg/L		
1	Be 313.107	-84.3	329.9	0.0001	mg/L		
1	Ca 227.547	313.0	29.6	0.1132	mg/L		
1	Cd 228.802	103.5	13.7	0.0001	mg/L		
1	Co 228.616	-260.5	156.2	0.0015	mg/L		
1	Cr 267.716	-106.3	53.4	0.0006	mg/L		
1	Cu 324.754	2435.1	148.2	0.0005	mg/L		
1	Fe 273.955	3562.1	572.3	0.0115	mg/L		
1	Mg 279.079	627.5	31.4	0.0010	mg/L		
1	Mn 257.610	1806.7	685.9	0.0004	mg/L		
1	Mo 202.030	-32.1	-3.5	-0.0002	mg/L		
1	Ni 231.604	440.8	165.6	0.0033	mg/L		
1	Pb 220.353	185.9	1.0	0.0001	mg/L		
1	Sb 206.833	67.6	7.0	0.0017	mg/L		
1	Se 196.026	78.9	-5.4	-0.0020	mg/L		
1	Tl 190.800	183.9	-4.6	-0.0014	mg/L		
1	V 292.402	267.0	104.3	0.0009	mg/L		
1	Zn 213.856	-487.6	95.8	0.0009	mg/L		
2	Ag 328.068	-995.9	78.0	0.0004	mg/L		
2	Al 308.215	4781.4	183.8	0.0050	mg/L		
2	As 188.979	68.3	-1.2	-0.0004	mg/L		

2	Ba 233.527	-748.9	116.7	0.0003 mg/L
2	Be 313.107	-166.6	247.6	0.0001 mg/L
2	Ca 227.547	284.4	0.9	0.0036 mg/L
2	Cd 228.802	93.3	3.5	0.0000 mg/L
2	Co 228.616	-350.8	65.9	0.0006 mg/L
2	Cr 267.716	-56.7	103.0	0.0011 mg/L
2	Cu 324.754	2272.4	-14.5	0.0000 mg/L
2	Fe 273.955	3190.6	200.8	0.0040 mg/L
2	Mg 279.079	508.8	-87.3	-0.0027 mg/L
2	Mn 257.610	1726.8	606.1	0.0004 mg/L
2	Mo 202.030	-23.4	5.1	0.0003 mg/L
2	Ni 231.604	333.1	57.9	0.0011 mg/L
2	Pb 220.353	185.4	0.6	0.0000 mg/L
2	Sb 206.833	66.8	6.2	0.0015 mg/L
2	Se 196.026	84.5	0.2	0.0001 mg/L
2	Tl 190.800	191.0	2.5	0.0007 mg/L
2	V 292.402	317.1	154.4	0.0014 mg/L
2	Zn 213.856	-507.6	75.8	0.0007 mg/L
3	Ag 328.068	-1026.2	47.7	0.0002 mg/L
3	Al 308.215	4450.7	-146.9	-0.0040 mg/L
3	As 188.979	67.8	-1.6	-0.0006 mg/L
3	Ba 233.527	-849.8	15.9	0.0000 mg/L
3	Be 313.107	-130.2	284.0	0.0001 mg/L
3	Ca 227.547	182.1	-101.3	-0.3876 mg/L
3	Cd 228.802	98.9	9.1	0.0001 mg/L
3	Co 228.616	-323.4	93.3	0.0009 mg/L
3	Cr 267.716	-76.7	83.1	0.0009 mg/L
3	Cu 324.754	2197.8	-89.1	-0.0003 mg/L
3	Fe 273.955	3000.6	10.8	0.0002 mg/L
3	Mg 279.079	729.5	133.4	0.0042 mg/L
3	Mn 257.610	1551.1	430.4	0.0003 mg/L
3	Mo 202.030	-23.0	5.5	0.0003 mg/L
3	Ni 231.604	394.0	118.8	0.0023 mg/L
3	Pb 220.353	176.9	-8.0	-0.0005 mg/L
3	Sb 206.833	65.4	4.7	0.0011 mg/L
3	Se 196.026	85.7	1.4	0.0005 mg/L
3	Tl 190.800	195.1	6.5	0.0019 mg/L
3	V 292.402	202.0	39.2	0.0004 mg/L
3	Zn 213.856	-536.4	47.0	0.0004 mg/L

ean Data ----------

): CCB Seq. No.: 33 Sample No.: 6 A/S Pos: 1
mple Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 12:59:35 PM

ement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	21.9	0.0001	0.00036	mg/L				330.69%
l 308.215	3.9	0.0001	0.00458	mg/L				>999.9%
s 188.979	0.1	0.0001	0.00102	mg/L				>999.9%
a 233.527	55.1	0.0002	0.00015	mg/L				98.14%
e 313.107	287.2	0.0001	0.00001	mg/L				14.37%
a 227.547	-23.6	-0.0903	0.26325	mg/L				291.57%
d 228.802	8.8	0.0001	0.00004	mg/L				58.15%
o 228.616	105.2	0.0010	0.00044	mg/L				44.03%
r 267.716	79.9	0.0009	0.00028	mg/L				31.25%
u 324.754	14.9	0.0000	0.00038	mg/L				816.98%
e 273.955	261.3	0.0052	0.00574	mg/L				109.30%
g 279.079	25.8	0.0008	0.00348	mg/L				428.19%
n 257.610	574.1	0.0004	0.00008	mg/L				22.77%
o 202.030	2.4	0.0001	0.00027	mg/L				216.93%
i 231.604	114.1	0.0023	0.00107	mg/L				47.30%
b 220.353	-2.2	-0.0001	0.00034	mg/L				236.75%
b 206.833	6.0	0.0014	0.00027	mg/L				19.13%
e 196.026	-1.3	-0.0005	0.00132	mg/L				282.81%
l 190.800	1.4	0.0004	0.00165	mg/L				390.68%
292.402	99.3	0.0009	0.00052	mg/L				58.14%
n 213.856	72.9	0.0007	0.00023	mg/L				33.66%

eplicate Data ----------

): 6141-11 F=50 Date: 11/21/02 1:02:46 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-2644.8	-1570.9	-0.0078	mg/L	-0.3894	ppm
1	Al 308.215	5143146.1	5138548.6	140.8	mg/L	7042	ppm
1	As 188.979	226.2	156.7	0.0753	mg/L	3.766	ppm
1	Ba 233.527	206762.4	207628.0	0.5877	mg/L	29.39	ppm
1	Be 313.107	7814.7	8229.0	0.0030	mg/L	0.1485	ppm
1	Ca 227.547	91910.9	91627.4	357.0	mg/L	17850	ppm
1	Cd 228.802	212.7	123.0	0.0010	mg/L	0.0485	ppm
1	Co 228.616	10155.0	10571.7	0.0999	mg/L	4.997	ppm
1	Cr 267.716	22926.0	23085.8	0.2479	mg/L	12.40	ppm
1	Cu 324.754	38730.8	36443.9	0.1280	mg/L	6.401	ppm
1	Fe 273.955	14810044.6	14807054.8	297.4	mg/L	14870	ppm
1	Mg 279.079	2500341.1	2499744.9	78.71	mg/L	3935	ppm
1	Mn 257.610	3604251.9	3603131.1	2.270	mg/L	113.5	ppm
1	Mo 202.030	100.3	128.9	-0.0047	mg/L	-0.2359	ppm
1	Ni 231.604	8431.2	8156.0	0.1612	mg/L	8.058	ppm
1	Pb 220.353	1826.1	1641.2	0.1168	mg/L	5.842	ppm
1	Sb 206.833	200.5	139.9	0.0097	mg/L	0.4859	ppm
1	Se 196.026	-118.4	-202.7	0.0056	mg/L	0.2824	ppm
1	Tl 190.800	369.2	180.7	-0.0149	mg/L	-0.7431	ppm
1	V 292.402	66295.5	66132.8	0.5931	mg/L	29.66	ppm
1	Zn 213.856	69490.4	70073.8	0.6295	mg/L	31.47	ppm
2	Ag 328.068	-2841.8	-1767.8	-0.0088	mg/L	-0.4382	ppm
2	Al 308.215	5163731.4	5159133.9	141.4	mg/L	7070	ppm
2	As 188.979	168.0	98.6	0.0532	mg/L	2.660	ppm
2	Ba 233.527	211278.3	212143.9	0.6005	mg/L	30.03	ppm
2	Be 313.107	7777.3	8191.5	0.0030	mg/L	0.1478	ppm
2	Ca 227.547	93413.1	93129.6	362.8	mg/L	18140	ppm
2	Cd 228.802	223.0	133.2	0.0011	mg/L	0.0526	ppm
2	Co 228.616	10202.1	10618.8	0.1004	mg/L	5.019	ppm
2	Cr 267.716	23252.5	23412.3	0.2515	mg/L	12.57	ppm
2	Cu 324.754	39738.4	37451.4	0.1312	mg/L	6.562	ppm
2	Fe 273.955	14872717.9	14869728.1	298.6	mg/L	14930	ppm
2	Mg 279.079	2541939.4	2541343.3	80.02	mg/L	4001	ppm
2	Mn 257.610	3658157.8	3657037.1	2.304	mg/L	115.2	ppm
2	Mo 202.030	38.6	67.1	-0.0080	mg/L	-0.4018	ppm
2	Ni 231.604	8581.9	8306.7	0.1641	mg/L	8.207	ppm
2	Pb 220.353	1822.8	1637.9	0.1167	mg/L	5.833	ppm
2	Sb 206.833	132.4	71.8	-0.0067	mg/L	-0.3369	ppm
2	Se 196.026	-97.9	-182.2	0.0134	mg/L	0.6717	ppm
2	Tl 190.800	343.5	155.0	-0.0227	mg/L	-1.133	ppm
2	V 292.402	67818.6	67655.8	0.6068	mg/L	30.34	ppm
2	Zn 213.856	70394.3	70977.7	0.6378	mg/L	31.89	ppm
3	Ag 328.068	-3036.8	-1962.9	-0.0097	mg/L	-0.4865	ppm
3	Al 308.215	5096969.9	5092372.3	139.6	mg/L	6979	ppm
3	As 188.979	178.6	109.1	0.0567	mg/L	2.837	ppm
3	Ba 233.527	200613.4	201479.0	0.5703	mg/L	28.52	ppm
3	Be 313.107	7380.6	7794.8	0.0028	mg/L	0.1407	ppm
3	Ca 227.547	88500.5	88217.0	343.9	mg/L	17200	ppm
3	Cd 228.802	216.8	127.1	0.0010	mg/L	0.0501	ppm
3	Co 228.616	10605.8	11022.5	0.1042	mg/L	5.210	ppm
3	Cr 267.716	24037.1	24196.9	0.2603	mg/L	13.01	ppm
3	Cu 324.754	37557.0	35270.1	0.1242	mg/L	6.210	ppm
3	Fe 273.955	14657653.9	14654664.1	294.3	mg/L	14710	ppm
3	Mg 279.079	2423311.2	2422715.0	76.28	mg/L	3814	ppm
3	Mn 257.610	3500381.9	3499261.2	2.205	mg/L	110.2	ppm
3	Mo 202.030	39.3	67.8	-0.0078	mg/L	-0.3915	ppm
3	Ni 231.604	8618.1	8342.9	0.1649	mg/L	8.243	ppm
3	Pb 220.353	1841.8	1656.9	0.1178	mg/L	5.890	ppm
3	Sb 206.833	120.4	59.8	-0.0096	mg/L	-0.4821	ppm
3	Se 196.026	-191.2	-275.5	-0.0216	mg/L	-1.081	ppm
3	Tl 190.800	407.7	219.2	-0.0030	mg/L	-0.1476	ppm
3	V 292.402	64983.2	64820.5	0.5814	mg/L	29.07	ppm
3	Zn 213.856	66997.6	67581.0	0.6063	mg/L	30.31	ppm

ean Data

D: 6141-11 F=50 Seq. No.: 34 Sample No.: 20 A/S Pos: 28

Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 1:02:46 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
328.068	-1767.2	-0.0088	0.00097	mg/L	-0.4380	0.04858	ppm	11.09%
308.215	5130018.2	140.6	0.94	mg/L	7030	46.9	ppm	0.67%
188.979	121.5	0.0618	0.01188	mg/L	3.088	0.5940	ppm	19.24%
233.527	207083.6	0.5862	0.01515	mg/L	29.31	0.758	ppm	2.59%
313.107	8071.7	0.0029	0.00009	mg/L	0.1457	0.00434	ppm	2.98%
227.547	90991.3	354.6	9.68	mg/L	17730	483.8	ppm	2.73%
228.802	127.8	0.0010	0.00004	mg/L	0.0504	0.00204	ppm	4.06%
228.616	10737.7	0.1015	0.00234	mg/L	5.075	0.1171	ppm	2.31%
267.716	23565.0	0.2532	0.00636	mg/L	12.66	0.318	ppm	2.51%
324.754	36388.5	0.1278	0.00353	mg/L	6.391	0.1764	ppm	2.76%
273.955	14777149.0	296.8	2.22	mg/L	14840	111.1	ppm	0.75%
279.079	2487934.4	78.33	1.895	mg/L	3917	94.8	ppm	2.42%
257.610	3586476.5	2.260	0.0505	mg/L	113.0	2.53	ppm	2.24%
202.030	87.9	-0.0069	0.00186	mg/L	-0.3430	0.09296	ppm	27.10%
231.604	8268.5	0.1634	0.00196	mg/L	8.169	0.0980	ppm	1.20%
220.353	1645.3	0.1171	0.00061	mg/L	5.855	0.0304	ppm	0.52%
206.833	90.5	-0.0022	0.01044	mg/L	-0.1110	0.52203	ppm	470.13%
196.026	-220.1	-0.0008	0.01840	mg/L	-0.0422	0.92018	ppm	>999.9%
190.800	185.0	-0.0135	0.00992	mg/L	-0.6744	0.49605	ppm	73.56%
292.402	66203.0	0.5938	0.01273	mg/L	29.69	0.636	ppm	2.14%
213.856	69544.1	0.6245	0.01636	mg/L	31.23	0.818	ppm	2.62%

Replicate Data
ID: 6141-12 F=50 Date: 11/21/02 1:05:31 PM

Rpl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-3293.4	-2219.4	-0.0110	mg/L	-0.5501	ppm
1	Al 308.215	4375634.0	4371036.4	119.8	mg/L	5990	ppm
1	As 188.979	284.8	215.3	0.1016	mg/L	5.079	ppm
1	Ba 233.527	215496.4	216362.0	0.6125	mg/L	30.62	ppm
1	Be 313.107	10028.4	10442.6	0.0038	mg/L	0.1884	ppm
1	Ca 227.547	119012.2	118728.7	460.7	mg/L	23030	ppm
1	Cd 228.802	348.5	258.8	0.0020	mg/L	0.1021	ppm
1	Co 228.616	13499.0	13915.7	0.1315	mg/L	6.577	ppm
1	Cr 267.716	21146.3	21306.1	0.2282	mg/L	11.41	ppm
1	Cu 324.754	57609.6	55322.7	0.1873	mg/L	9.367	ppm
1	Fe 273.955	14867746.5	14864756.7	298.5	mg/L	14930	ppm
1	Mg 279.079	2332746.3	2332150.2	73.43	mg/L	3671	ppm
1	Mn 257.610	6013358.6	6012237.9	3.788	mg/L	189.4	ppm
1	Mo 202.030	247.5	276.0	0.0030	mg/L	0.1517	ppm
1	Ni 231.604	13505.1	13229.9	0.2614	mg/L	13.07	ppm
1	Pb 220.353	2112.7	1927.8	0.1352	mg/L	6.761	ppm
1	Sb 206.833	182.6	122.0	0.0066	mg/L	0.3318	ppm
1	Se 196.026	-69.9	-154.2	0.0251	mg/L	1.257	ppm
1	Tl 190.800	315.9	127.4	-0.0275	mg/L	-1.373	ppm
1	V 292.402	55096.6	54933.8	0.4927	mg/L	24.63	ppm
1	Zn 213.856	81571.8	82155.2	0.7433	mg/L	37.16	ppm
2	Ag 328.068	-3428.2	-2354.2	-0.0117	mg/L	-0.5835	ppm
2	Al 308.215	4445960.8	4441363.2	121.7	mg/L	6087	ppm
2	As 188.979	294.6	225.1	0.1049	mg/L	5.246	ppm
2	Ba 233.527	218069.7	218935.3	0.6197	mg/L	30.99	ppm
2	Be 313.107	9979.2	10393.4	0.0038	mg/L	0.1875	ppm
2	Ca 227.547	120013.5	119730.0	464.3	mg/L	23220	ppm
2	Cd 228.802	304.9	215.1	0.0017	mg/L	0.0849	ppm
2	Co 228.616	12913.0	13329.7	0.1260	mg/L	6.300	ppm
2	Cr 267.716	20584.7	20744.4	0.2222	mg/L	11.11	ppm
2	Cu 324.754	58726.4	56439.5	0.1904	mg/L	9.522	ppm
2	Fe 273.955	14426728.3	14423738.4	289.7	mg/L	14480	ppm
2	Mg 279.079	2358271.7	2357675.5	74.23	mg/L	3712	ppm
2	Mn 257.610	5780495.1	5779374.4	3.641	mg/L	182.1	ppm
2	Mo 202.030	256.6	285.1	0.0039	mg/L	0.1930	ppm
2	Ni 231.604	13373.9	13098.7	0.2588	mg/L	12.94	ppm
2	Pb 220.353	2127.9	1943.0	0.1364	mg/L	6.821	ppm
2	Sb 206.833	201.7	141.1	0.0117	mg/L	0.5835	ppm

2	Se 196.026	-141.6	-225.8	-0.0037	mg/L	-0.1849 ppm
2	Tl 190.800	319.9	131.3	-0.0253	mg/L	-1.263 ppm
2	V 292.402	55552.7	55390.0	0.4968	mg/L	24.84 ppm
2	Zn 213.856	82815.7	83399.1	0.7559	mg/L	37.80 ppm
3	Ag 328.068	-3399.9	-2325.9	-0.0115	mg/L	-0.5765 ppm
3	Al 308.215	4426977.5	4422379.9	121.2	mg/L	6061 ppm
3	As 188.979	309.2	239.8	0.1111	mg/L	5.555 ppm
3	Ba 233.527	216482.1	217347.7	0.6152	mg/L	30.76 ppm
3	Be 313.107	9918.8	10333.0	0.0037	mg/L	0.1865 ppm
3	Ca 227.547	119202.0	118918.6	461.5	mg/L	23070 ppm
3	Cd 228.802	205.1	115.3	0.0009	mg/L	0.0455 ppm
3	Co 228.616	13589.0	14005.7	0.1324	mg/L	6.620 ppm
3	Cr 267.716	21897.8	22057.5	0.2364	mg/L	11.82 ppm
3	Cu 324.754	58400.3	56113.3	0.1900	mg/L	9.498 ppm
3	Fe 273.955	15025518.0	15022528.2	301.7	mg/L	15080 ppm
3	Mg 279.079	2341757.8	2341161.7	73.71	mg/L	3686 ppm
3	Mn 257.610	5980207.7	5979086.9	3.767	mg/L	188.3 ppm
3	Mo 202.030	192.7	221.2	0.0000	mg/L	0.0004 ppm
3	Ni 231.604	13593.7	13318.5	0.2632	mg/L	13.16 ppm
3	Pb 220.353	2320.9	2136.0	0.1492	mg/L	7.461 ppm
3	Sb 206.833	173.7	113.1	0.0041	mg/L	0.2050 ppm
3	Se 196.026	-115.7	-200.0	0.0093	mg/L	0.4671 ppm
3	Tl 190.800	340.0	151.5	-0.0211	mg/L	-1.057 ppm
3	V 292.402	55704.9	55542.2	0.4981	mg/L	24.91 ppm
3	Zn 213.856	81930.0	82513.4	0.7463	mg/L	37.32 ppm

ean Data ----------

D: 6141-12 F=50 Seq. No.: 35 Sample No.: 21 A/S Pos: 29
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 1:05:31 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-2299.9	-0.0114	0.00035	mg/L	-0.5700	0.01762	ppm	3.09%
l 308.215	4411593.2	120.9	1.00	mg/L	6046	49.9	ppm	0.82%
s 188.979	226.8	0.1059	0.00483	mg/L	5.293	0.2417	ppm	4.57%
a 233.527	217548.3	0.6158	0.00368	mg/L	30.79	0.184	ppm	0.60%
e 313.107	10389.6	0.0037	0.00002	mg/L	0.1875	0.00099	ppm	0.53%
a 227.547	119125.8	462.2	1.91	mg/L	23110	95.5	ppm	0.41%
d 228.802	196.4	0.0016	0.00058	mg/L	0.0775	0.02902	ppm	37.44%
o 228.616	13750.4	0.1300	0.00347	mg/L	6.499	0.1735	ppm	2.67%
r 267.716	21369.4	0.2289	0.00714	mg/L	11.45	0.357	ppm	3.12%
u 324.754	55958.5	0.1892	0.00167	mg/L	9.462	0.0835	ppm	0.88%
e 273.955	14770341.1	296.6	6.23	mg/L	14830	311.6	ppm	2.10%
g 279.079	2343662.4	73.79	0.408	mg/L	3690	20.4	ppm	0.55%
n 257.610	5923566.4	3.732	0.0794	mg/L	186.6	3.97	ppm	2.13%
o 202.030	260.8	0.0023	0.00203	mg/L	0.1150	0.10140	ppm	88.15%
i 231.604	13215.7	0.2611	0.00219	mg/L	13.06	0.109	ppm	0.84%
o 220.353	2002.3	0.1403	0.00775	mg/L	7.015	0.3877	ppm	5.53%
o 206.833	125.4	0.0075	0.00385	mg/L	0.3735	0.19268	ppm	51.59%
e 196.026	-193.3	0.0103	0.01444	mg/L	0.5130	0.72194	ppm	140.73%
l 190.800	136.8	-0.0246	0.00321	mg/L	-1.231	0.1604	ppm	13.03%
292.402	55288.7	0.4959	0.00284	mg/L	24.79	0.142	ppm	0.57%
n 213.856	82689.2	0.7485	0.00661	mg/L	37.43	0.331	ppm	0.88%

eplicate Data ----------

D: 6141-13 F=50 Date: 11/21/02 1:08:19 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-3978.5	-2904.6	-0.0144	mg/L	-0.7199	ppm
1	Al 308.215	5238519.0	5233921.4	143.5	mg/L	7173	ppm
1	As 188.979	460.0	390.6	0.1877	mg/L	9.386	ppm
1	Ba 233.527	559581.4	560447.0	1.586	mg/L	79.32	ppm
1	Be 313.107	20022.5	20436.7	0.0074	mg/L	0.3688	ppm
1	Ca 227.547	260994.0	260710.5	1006	mg/L	50320	ppm
1	Cd 228.802	1409.4	1319.6	0.0104	mg/L	0.5208	ppm
1	Co 228.616	15671.6	16088.3	0.1521	mg/L	7.604	ppm
1	Cr 267.716	37001.9	37161.7	0.4006	mg/L	20.03	ppm
1	Cu 324.754	127761.6	125474.7	0.4129	mg/L	20.65	ppm

1	Fe 273.955	20684383.1	20681393.3	415.3	mg/L	20770 ppm
1	Mg 279.079	3124500.9	3123904.7	98.36	mg/L	4918 ppm
1	Mn 257.610	13512928.3	13511807.6	8.513	mg/L	425.6 ppm
1	Mo 202.030	763.1	791.6	0.0258	mg/L	1.291 ppm
1	Ni 231.604	29403.9	29128.7	0.5756	mg/L	28.78 ppm
1	Pb 220.353	3069.2	2884.3	0.2017	mg/L	10.09 ppm
1	Sb 206.833	272.7	212.1	0.0177	mg/L	0.8841 ppm
1	Se 196.026	-88.2	-172.5	0.0519	mg/L	2.596 ppm
1	Tl 190.800	513.1	324.6	0.0099	mg/L	0.4932 ppm
1	V 292.402	101006.1	100843.4	0.9044	mg/L	45.22 ppm
1	Zn 213.856	141847.6	142431.0	1.299	mg/L	64.97 ppm
2	Ag 328.068	-3851.4	-2777.4	-0.0138	mg/L	-0.6884 ppm
2	Al 308.215	5203376.8	5198779.2	142.5	mg/L	7125 ppm
2	As 188.979	413.9	344.4	0.1692	mg/L	8.461 ppm
2	Ba 233.527	547163.6	548029.3	1.551	mg/L	77.57 ppm
2	Be 313.107	19546.0	19960.2	0.0072	mg/L	0.3602 ppm
2	Ca 227.547	253829.9	253546.5	978.9	mg/L	48940 ppm
2	Cd 228.802	1362.5	1272.8	0.0100	mg/L	0.5023 ppm
2	Co 228.616	14913.5	15330.2	0.1449	mg/L	7.246 ppm
2	Cr 267.716	36380.1	36539.8	0.3938	mg/L	19.69 ppm
2	Cu 324.754	124336.1	122049.1	0.4021	mg/L	20.10 ppm
2	Fe 273.955	20596218.6	20593228.8	413.6	mg/L	20680 ppm
2	Mg 279.079	3053865.4	3053269.2	96.13	mg/L	4807 ppm
2	Mn 257.610	13304002.3	13302881.5	8.381	mg/L	419.1 ppm
2	Mo 202.030	685.7	714.2	0.0218	mg/L	1.089 ppm
2	Ni 231.604	27903.5	27628.3	0.5459	mg/L	27.30 ppm
2	Pb 220.353	2790.0	2605.1	0.1829	mg/L	9.144 ppm
2	Sb 206.833	175.8	115.2	-0.0052	mg/L	-0.2593 ppm
2	Se 196.026	-177.1	-261.4	0.0191	mg/L	0.9571 ppm
2	Tl 190.800	500.4	311.9	0.0066	mg/L	0.3290 ppm
2	V 292.402	98782.8	98620.1	0.8845	mg/L	44.22 ppm
2	Zn 213.856	138234.1	138817.5	1.266	mg/L	63.28 ppm
3	Ag 328.068	-3716.9	-2642.9	-0.0131	mg/L	-0.6551 ppm
3	Al 308.215	5363991.6	5359394.0	146.9	mg/L	7345 ppm
3	As 188.979	471.5	402.0	0.1910	mg/L	9.552 ppm
3	Ba 233.527	538222.0	539087.6	1.526	mg/L	76.30 ppm
3	Be 313.107	18971.8	19386.0	0.0070	mg/L	0.3498 ppm
3	Ca 227.547	250305.5	250022.0	965.6	mg/L	48280 ppm
3	Cd 228.802	1463.3	1373.5	0.0108	mg/L	0.5420 ppm
3	Co 228.616	15477.3	15894.0	0.1502	mg/L	7.512 ppm
3	Cr 267.716	35916.2	36075.9	0.3885	mg/L	19.42 ppm
3	Cu 324.754	122914.8	120627.9	0.3980	mg/L	19.90 ppm
3	Fe 273.955	21029363.7	21026373.8	422.3	mg/L	21110 ppm
3	Mg 279.079	3000313.8	2999717.7	94.45	mg/L	4722 ppm
3	Mn 257.610	13752070.5	13750949.8	8.663	mg/L	433.2 ppm
3	Mo 202.030	753.6	782.1	0.0250	mg/L	1.252 ppm
3	Ni 231.604	28659.6	28384.4	0.5609	mg/L	28.04 ppm
3	Pb 220.353	3063.5	2878.6	0.2013	mg/L	10.07 ppm
3	Sb 206.833	194.6	134.0	-0.0010	mg/L	-0.0513 ppm
3	Se 196.026	-122.3	-206.6	0.0414	mg/L	2.068 ppm
3	Tl 190.800	463.8	275.2	-0.0060	mg/L	-0.2992 ppm
3	V 292.402	98391.7	98229.0	0.8810	mg/L	44.05 ppm
3	Zn 213.856	136178.5	136761.9	1.245	mg/L	62.26 ppm

an Data ----------

D: 6141-13 F=50 Seq. No.: 36 Sample No.: 22 A/S Pos: 30
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 1:08:19 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
328.068	-2775.0	-0.0138	0.00065	mg/L	-0.6878	0.03243	ppm	4.72%
308.215	5264031.6	144.3	2.31	mg/L	7214	115.7	ppm	1.60%
s 188.979	379.0	0.1827	0.01176	mg/L	9.133	0.5879	ppm	6.44%
a 233.527	549188.0	1.555	0.0304	mg/L	77.73	1.518	ppm	1.95%
313.107	19927.6	0.0072	0.00019	mg/L	0.3596	0.00949	ppm	2.64%
227.547	254759.7	983.6	20.77	mg/L	49180	1038.5	ppm	2.11%
228.802	1322.0	0.0104	0.00040	mg/L	0.5217	0.01989	ppm	3.81%
228.616	15770.8	0.1491	0.00372	mg/L	7.454	0.1861	ppm	2.50%
267.716	36592.5	0.3943	0.00610	mg/L	19.71	0.305	ppm	1.55%

u 324.754	122717.2	0.4043	0.00770	mg/L	20.22	0.385	ppm	1.90%
e 273.955	20766998.6	417.0	4.60	mg/L	20850	229.9	ppm	1.10%
g 279.079	3058963.9	96.31	1.961	mg/L	4816	98.1	ppm	2.04%
n 257.610	13521879.6	8.519	0.1413	mg/L	426.0	7.06	ppm	1.66%
o 202.030	762.7	0.0242	0.00214	mg/L	1.211	0.1070	ppm	8.83%
i 231.604	28380.5	0.5608	0.01482	mg/L	28.04	0.741	ppm	2.64%
b 220.353	2789.3	0.1953	0.01076	mg/L	9.765	0.5379	ppm	5.51%
b 206.833	153.8	0.0038	0.01218	mg/L	0.1912	0.60907	ppm	318.59%
e 196.026	-213.5	0.0375	0.01673	mg/L	1.874	0.8364	ppm	44.64%
l 190.800	303.9	0.0035	0.00836	mg/L	0.1743	0.41822	ppm	239.88%
292.402	99230.8	0.8900	0.01265	mg/L	44.50	0.632	ppm	1.42%
n 213.856	139336.8	1.270	0.0274	mg/L	63.50	1.369	ppm	2.16%

eplicate Data

D: 6141-14 F=50 Date: 11/21/02 1:11:07 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-3320.4	-2246.4	-0.0111	mg/L	-0.5568	ppm
1	Al 308.215	5119186.3	5114588.7	140.2	mg/L	7009	ppm
1	As 188.979	297.0	227.6	0.1056	mg/L	5.280	ppm
1	Ba 233.527	213282.2	214147.8	0.6062	mg/L	30.31	ppm
1	Be 313.107	10438.2	10852.4	0.0039	mg/L	0.1958	ppm
1	Ca 227.547	126138.5	125855.1	487.8	mg/L	24390	ppm
1	Cd 228.802	193.6	103.9	0.0008	mg/L	0.0410	ppm
1	Co 228.616	11791.0	12207.7	0.1154	mg/L	5.770	ppm
1	Cr 267.716	21818.1	21977.9	0.2358	mg/L	11.79	ppm
1	Cu 324.754	52602.6	50315.6	0.1713	mg/L	8.563	ppm
1	Fe 273.955	14486481.2	14483491.3	290.9	mg/L	14540	ppm
1	Mg 279.079	2312393.3	2311797.2	72.79	mg/L	3639	ppm
1	Mn 257.610	5275030.1	5273909.4	3.323	mg/L	166.1	ppm
1	Mo 202.030	140.6	169.2	-0.0023	mg/L	-0.1165	ppm
1	Ni 231.604	12386.0	12110.8	0.2393	mg/L	11.97	ppm
1	Pb 220.353	1975.4	1790.5	0.1273	mg/L	6.366	ppm
1	Sb 206.833	83.8	23.1	-0.0176	mg/L	-0.8784	ppm
1	Se 196.026	-139.1	-223.4	-0.0038	mg/L	-0.1891	ppm
1	Tl 190.800	359.7	171.2	-0.0164	mg/L	-0.8181	ppm
1	V 292.402	54776.3	54613.5	0.4898	mg/L	24.49	ppm
1	Zn 213.856	74893.6	75477.0	0.6811	mg/L	34.06	ppm
2	Ag 328.068	-3288.0	-2214.0	-0.0110	mg/L	-0.5488	ppm
2	Al 308.215	5035783.9	5031186.3	137.9	mg/L	6895	ppm
2	As 188.979	336.7	267.3	0.1211	mg/L	6.057	ppm
2	Ba 233.527	216701.5	217567.1	0.6159	mg/L	30.79	ppm
2	Be 313.107	10232.3	10646.5	0.0038	mg/L	0.1921	ppm
2	Ca 227.547	129050.0	128766.5	498.8	mg/L	24940	ppm
2	Cd 228.802	185.3	95.6	0.0008	mg/L	0.0377	ppm
2	Co 228.616	12205.4	12622.1	0.1193	mg/L	5.966	ppm
2	Cr 267.716	22694.0	22853.8	0.2456	mg/L	12.28	ppm
2	Cu 324.754	53100.0	50813.1	0.1726	mg/L	8.631	ppm
2	Fe 273.955	14253857.4	14250867.5	286.2	mg/L	14310	ppm
2	Mg 279.079	2349587.9	2348991.8	73.96	mg/L	3698	ppm
2	Mn 257.610	5203621.8	5202501.1	3.278	mg/L	163.9	ppm
2	Mo 202.030	136.0	164.5	-0.0024	mg/L	-0.1198	ppm
2	Ni 231.604	12840.7	12565.5	0.2483	mg/L	12.41	ppm
2	Pb 220.353	2154.8	1969.9	0.1393	mg/L	6.963	ppm
2	Sb 206.833	116.4	55.7	-0.0098	mg/L	-0.4899	ppm
2	Se 196.026	-57.2	-141.5	0.0247	mg/L	1.236	ppm
2	Tl 190.800	351.5	163.0	-0.0177	mg/L	-0.8875	ppm
2	V 292.402	56357.4	56194.7	0.5040	mg/L	25.20	ppm
2	Zn 213.856	75656.3	76239.7	0.6888	mg/L	34.44	ppm
3	Ag 328.068	-3215.0	-2141.1	-0.0106	mg/L	-0.5307	ppm
3	Al 308.215	5080379.4	5075781.8	139.1	mg/L	6956	ppm
3	As 188.979	316.9	247.5	0.1136	mg/L	5.681	ppm
3	Ba 233.527	216421.0	217286.6	0.6151	mg/L	30.75	ppm
3	Be 313.107	10525.3	10939.5	0.0039	mg/L	0.1974	ppm
3	Ca 227.547	129655.6	129372.1	501.2	mg/L	25060	ppm
3	Cd 228.802	172.0	82.3	0.0006	mg/L	0.0325	ppm
3	Co 228.616	12480.9	12897.6	0.1219	mg/L	6.096	ppm
3	Cr 267.716	23041.6	23201.4	0.2494	mg/L	12.47	ppm

3	Cu 324.754	53742.4	51455.5	0.1747	mg/L	8.735 ppm
3	Fe 273.955	14323595.6	14320605.8	287.6	mg/L	14380 ppm
3	Mg 279.079	2354042.7	2353446.5	74.10	mg/L	3705 ppm
3	Mn 257.610	5276216.1	5275095.4	3.323	mg/L	166.2 ppm
3	Mo 202.030	195.6	224.1	0.0007	mg/L	0.0354 ppm
3	Ni 231.604	13135.8	12860.6	0.2541	mg/L	12.71 ppm
3	Pb 220.353	2149.8	1964.9	0.1390	mg/L	6.949 ppm
3	Sb 206.833	111.5	50.9	-0.0112	mg/L	-0.5585 ppm
3	Se 196.026	-81.1	-165.4	0.0164	mg/L	0.8193 ppm
3	Tl 190.800	332.8	144.3	-0.0236	mg/L	-1.179 ppm
3	V 292.402	56093.9	55931.2	0.5016	mg/L	25.08 ppm
3	Zn 213.856	76704.7	77288.1	0.6985	mg/L	34.93 ppm

an Data ----------

: 6141-14 F=50 Seq. No.: 37 Sample No.: 23 A/S Pos: 31
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 1:11:07 PM

	lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
q	328.068	-2200.5	-0.0109	0.00027	mg/L	-0.5454	0.01338	ppm	2.45%
	308.215	5073852.3	139.1	1.14	mg/L	6953	57.2	ppm	0.82%
	188.979	247.5	0.1134	0.00777	mg/L	5.672	0.3885	ppm	6.85%
a	233.527	216333.8	0.6124	0.00537	mg/L	30.62	0.269	ppm	0.88%
e	313.107	10812.8	0.0039	0.00005	mg/L	0.1951	0.00272	ppm	1.39%
	227.547	127997.9	495.9	7.14	mg/L	24800	357.2	ppm	1.44%
	228.802	93.9	0.0007	0.00009	mg/L	0.0371	0.00430	ppm	11.60%
o	228.616	12575.8	0.1189	0.00328	mg/L	5.944	0.1641	ppm	2.76%
r	267.716	22677.7	0.2436	0.00702	mg/L	12.18	0.351	ppm	2.88%
	324.754	50861.4	0.1729	0.00173	mg/L	8.643	0.0864	ppm	1.00%
	273.955	14351654.9	288.2	2.40	mg/L	14410	119.9	ppm	0.83%
y	279.079	2338078.5	73.62	0.720	mg/L	3681	36.0	ppm	0.98%
n	257.610	5250502.0	3.308	0.0262	mg/L	165.4	1.31	ppm	0.79%
	202.030	185.9	-0.0013	0.00177	mg/L	-0.0670	0.08866	ppm	132.40%
	231.604	12512.3	0.2472	0.00746	mg/L	12.36	0.373	ppm	3.02%
	220.353	1908.4	0.1352	0.00682	mg/L	6.759	0.3411	ppm	5.05%
b	206.833	43.2	-0.0128	0.00415	mg/L	-0.6423	0.20737	ppm	32.29%
e	196.026	-176.8	0.0124	0.01466	mg/L	0.6222	0.73283	ppm	117.79%
	190.800	159.5	-0.0192	0.00383	mg/L	-0.9615	0.19153	ppm	19.92%
	292.402	55579.8	0.4985	0.00760	mg/L	24.92	0.380	ppm	1.52%
n	213.856	76334.9	0.6895	0.00873	mg/L	34.47	0.437	ppm	1.27%

plicate Data ----------

: 6141-15 F=50 Date: 11/21/02 1:13:51 PM

pl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-3092.9	-2018.9	-0.0100	mg/L	-0.5004	ppm
1	Al 308.215	5162174.1	5157576.5	141.4	mg/L	7068	ppm
1	As 188.979	282.6	213.2	0.0920	mg/L	4.601	ppm
1	Ba 233.527	291767.7	292633.3	0.8284	mg/L	41.42	ppm
1	Be 313.107	6595.7	7009.9	0.0025	mg/L	0.1265	ppm
1	Ca 227.547	48693.5	48410.1	191.4	mg/L	9568	ppm
1	Cd 228.802	314.8	225.1	0.0018	mg/L	0.0888	ppm
1	Co 228.616	14359.6	14776.3	0.1397	mg/L	6.984	ppm
1	Cr 267.716	23145.9	23305.7	0.2507	mg/L	12.54	ppm
1	Cu 324.754	56279.5	53992.6	0.1824	mg/L	9.118	ppm
1	Fe 273.955	13997072.9	13994083.0	281.0	mg/L	14050	ppm
1	Mg 279.079	2687690.3	2687094.1	84.60	mg/L	4230	ppm
1	Mn 257.610	6351451.0	6350330.2	4.001	mg/L	200.0	ppm
1	Mo 202.030	65.9	94.4	-0.0059	mg/L	-0.2953	ppm
1	Ni 231.604	11929.6	11654.4	0.2303	mg/L	11.51	ppm
1	Pb 220.353	1845.4	1660.5	0.1170	mg/L	5.851	ppm
1	Sb 206.833	165.6	105.0	0.0019	mg/L	0.0963	ppm
1	Se 196.026	-179.4	-263.7	-0.0214	mg/L	-1.072	ppm
1	Tl 190.800	275.1	86.6	-0.0400	mg/L	-1.999	ppm
1	V 292.402	61295.7	61133.0	0.5483	mg/L	27.41	ppm
1	Zn 213.856	96437.5	97020.9	0.8853	mg/L	44.27	ppm
2	Ag 328.068	-3020.1	-1946.2	-0.0096	mg/L	-0.4824	ppm
2	Al 308.215	4955330.4	4950732.8	135.7	mg/L	6785	ppm

2	As 188.979	276.0	206.5	0.0897	mg/L	4.483 ppm
2	Ba 233.527	281843.2	282708.8	0.8003	mg/L	40.01 ppm
2	Be 313.107	6361.7	6775.9	0.0024	mg/L	0.1223 ppm
2	Ca 227.547	47093.0	46809.6	185.2	mg/L	9261 ppm
2	Cd 228.802	288.5	198.7	0.0016	mg/L	0.0784 ppm
2	Co 228.616	14920.0	15336.7	0.1450	mg/L	7.249 ppm
2	Cr 267.716	24238.5	24398.3	0.2629	mg/L	13.14 ppm
2	Cu 324.754	54406.8	52119.8	0.1764	mg/L	8.821 ppm
2	Fe 273.955	13936486.7	13933496.8	279.8	mg/L	13990 ppm
2	Mg 279.079	2599625.9	2599029.7	81.83	mg/L	4092 ppm
2	Mn 257.610	6365149.2	6364028.4	4.009	mg/L	200.5 ppm
2	Mo 202.030	139.0	167.5	-0.0020	mg/L	-0.0994 ppm
2	Ni 231.604	12345.6	12070.3	0.2385	mg/L	11.93 ppm
2	Pb 220.353	1928.6	1743.7	0.1223	mg/L	6.114 ppm
2	Sb 206.833	126.8	66.2	-0.0075	mg/L	-0.3736 ppm
2	Se 196.026	-125.8	-210.1	-0.0019	mg/L	-0.0966 ppm
2	Tl 190.800	322.1	133.5	-0.0253	mg/L	-1.264 ppm
2	V 292.402	59833.8	59671.1	0.5352	mg/L	26.76 ppm
2	Zn 213.856	93725.4	94308.8	0.8599	mg/L	42.99 ppm
3	Ag 328.068	-3100.3	-2026.3	-0.0100	mg/L	-0.5022 ppm
3	Al 308.215	4999426.6	4994829.0	136.9	mg/L	6845 ppm
3	As 188.979	260.6	191.2	0.0834	mg/L	4.169 ppm
3	Ba 233.527	283930.4	284796.0	0.8062	mg/L	40.31 ppm
3	Be 313.107	6459.8	6874.0	0.0025	mg/L	0.1240 ppm
3	Ca 227.547	47691.4	47408.0	187.4	mg/L	9368 ppm
3	Cd 228.802	367.5	277.7	0.0022	mg/L	0.1096 ppm
3	Co 228.616	14222.0	14638.7	0.1384	mg/L	6.919 ppm
3	Cr 267.716	22620.3	22780.1	0.2451	mg/L	12.26 ppm
3	Cu 324.754	55030.4	52743.4	0.1781	mg/L	8.905 ppm
3	Fe 273.955	13635162.2	13632172.3	273.8	mg/L	13690 ppm
3	Mg 279.079	2628238.5	2627642.4	82.73	mg/L	4137 ppm
3	Mn 257.610	6272596.3	6271475.6	3.951	mg/L	197.6 ppm
3	Mo 202.030	124.8	153.3	-0.0025	mg/L	-0.1253 ppm
3	Ni 231.604	11827.2	11552.0	0.2283	mg/L	11.41 ppm
3	Pb 220.353	1872.7	1687.8	0.1186	mg/L	5.932 ppm
3	Sb 206.833	184.6	124.0	0.0071	mg/L	0.3535 ppm
3	Se 196.026	-99.2	-183.5	0.0058	mg/L	0.2908 ppm
3	Tl 190.800	246.3	57.8	-0.0466	mg/L	-2.329 ppm
3	V 292.402	59875.7	59713.0	0.5355	mg/L	26.78 ppm
3	Zn 213.856	95134.3	95717.7	0.8738	mg/L	43.69 ppm

ean Data ----------

D: 6141-15 F=50 Seq. No.: 38 Sample No.: 24 A/S Pos: 32
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 1:13:51 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-1997.1	-0.0099	0.00022	mg/L	-0.4950	0.01098	ppm	2.22%
l 308.215	5034379.5	138.0	2.99	mg/L	6899	149.3	ppm	2.16%
s 188.979	203.6	0.0884	0.00446	mg/L	4.418	0.2230	ppm	5.05%
a 233.527	286712.7	0.8116	0.01481	mg/L	40.58	0.741	ppm	1.82%
e 313.107	6886.6	0.0025	0.00004	mg/L	0.1243	0.00212	ppm	1.71%
a 227.547	47542.5	188.0	3.12	mg/L	9399	156.0	ppm	1.66%
d 228.802	233.8	0.0018	0.00032	mg/L	0.0923	0.01587	ppm	17.20%
o 228.616	14917.2	0.1410	0.00350	mg/L	7.051	0.1748	ppm	2.48%
r 267.716	23494.7	0.2529	0.00907	mg/L	12.65	0.453	ppm	3.59%
u 324.754	52952.0	0.1790	0.00306	mg/L	8.948	0.1529	ppm	1.71%
e 273.955	13853250.7	278.2	3.89	mg/L	13910	194.6	ppm	1.40%
g 279.079	2637922.1	83.06	1.414	mg/L	4153	70.7	ppm	1.70%
n 257.610	6328611.4	3.987	0.0315	mg/L	199.4	1.57	ppm	0.79%
o 202.030	138.4	-0.0035	0.00213	mg/L	-0.1733	0.10642	ppm	61.40%
i 231.604	11758.9	0.2324	0.00542	mg/L	11.62	0.271	ppm	2.33%
b 220.353	1697.3	0.1193	0.00270	mg/L	5.966	0.1349	ppm	2.26%
b 206.833	98.4	0.0005	0.00737	mg/L	0.0254	0.36869	ppm	>999.9%
e 196.026	-219.1	-0.0059	0.01405	mg/L	-0.2927	0.70242	ppm	240.00%
l 190.800	92.6	-0.0373	0.01091	mg/L	-1.864	0.5453	ppm	29.26%
292.402	60172.3	0.5397	0.00746	mg/L	26.98	0.373	ppm	1.38%
n 213.856	95682.5	0.8730	0.01274	mg/L	43.65	0.637	ppm	1.46%

eplicate Data ----------

: CCV 1379B Date: 11/21/02 1:16:52 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	206443.0	207517.0	1.029	mg/L		
1	Al 308.215	191475.5	186877.9	5.122	mg/L		
1	As 188.979	1391.6	1322.2	0.5129	mg/L		
1	Ba 233.527	1816588.3	1817453.9	5.145	mg/L		
1	Be 313.107	1409885.2	1410299.4	0.5090	mg/L		
1	Ca 227.547	14005.4	13722.0	52.48	mg/L		
1	Cd 228.802	133781.0	133691.2	1.055	mg/L		
1	Co 228.616	223522.9	223939.6	2.117	mg/L		
1	Cr 267.716	46271.1	46430.9	0.5134	mg/L		
1	Cu 324.754	659633.9	657347.0	2.064	mg/L		
1	Fe 273.955	266922.3	263932.4	5.300	mg/L		
1	Mg 279.079	819296.0	818699.9	25.78	mg/L		
1	Mn 257.610	3320434.6	3319313.9	2.091	mg/L		
1	Mo 202.030	38774.6	38803.1	2.055	mg/L		
1	Ni 231.604	107436.6	107161.4	2.118	mg/L		
1	Pb 220.353	7818.8	7633.9	0.5108	mg/L		
1	Sb 206.833	8681.3	8620.7	2.047	mg/L		
1	Se 196.026	1504.0	1419.7	0.5173	mg/L		
1	Tl 190.800	1967.0	1778.4	0.5171	mg/L		
1	V 292.402	228885.1	228722.3	2.051	mg/L		
1	Zn 213.856	219591.4	220174.8	2.077	mg/L		
2	Ag 328.068	202917.5	203991.4	1.011	mg/L		
2	Al 308.215	188541.9	183944.3	5.042	mg/L		
2	As 188.979	1397.7	1328.3	0.5151	mg/L		
2	Ba 233.527	1825788.9	1826654.5	5.171	mg/L		
2	Be 313.107	1424107.1	1424521.4	0.5141	mg/L		
2	Ca 227.547	13691.0	13407.5	51.28	mg/L		
2	Cd 228.802	131195.6	131105.8	1.035	mg/L		
2	Co 228.616	219065.1	219481.8	2.075	mg/L		
2	Cr 267.716	45635.6	45795.4	0.5064	mg/L		
2	Cu 324.754	662358.9	660072.0	2.072	mg/L		
2	Fe 273.955	262451.2	259461.4	5.211	mg/L		
2	Mg 279.079	822943.2	822347.1	25.89	mg/L		
2	Mn 257.610	3312483.6	3311362.9	2.086	mg/L		
2	Mo 202.030	38389.8	38418.3	2.035	mg/L		
2	Ni 231.604	104917.1	104641.9	2.068	mg/L		
2	Pb 220.353	7820.2	7635.3	0.5109	mg/L		
2	Sb 206.833	8696.9	8636.3	2.051	mg/L		
2	Se 196.026	1499.0	1414.7	0.5154	mg/L		
2	Tl 190.800	1962.9	1774.4	0.5159	mg/L		
2	V 292.402	224229.4	224066.6	2.010	mg/L		
2	Zn 213.856	214881.9	215465.3	2.032	mg/L		
3	Ag 328.068	197288.2	198362.2	0.9833	mg/L		
3	Al 308.215	183155.2	178557.6	4.894	mg/L		
3	As 188.979	1385.3	1315.9	0.5102	mg/L		
3	Ba 233.527	1812500.9	1813366.5	5.133	mg/L		
3	Be 313.107	1419715.0	1420129.2	0.5125	mg/L		
3	Ca 227.547	13282.2	12998.7	49.72	mg/L		
3	Cd 228.802	127996.2	127906.4	1.009	mg/L		
3	Co 228.616	214141.5	214558.2	2.028	mg/L		
3	Cr 267.716	44085.1	44244.9	0.4892	mg/L		
3	Cu 324.754	660286.5	657999.6	2.066	mg/L		
3	Fe 273.955	253522.3	250532.4	5.031	mg/L		
3	Mg 279.079	819344.0	818747.8	25.78	mg/L		
3	Mn 257.610	3301698.8	3300578.0	2.079	mg/L		
3	Mo 202.030	37541.3	37569.8	1.990	mg/L		
3	Ni 231.604	103073.1	102797.9	2.031	mg/L		
3	Pb 220.353	7758.6	7573.7	0.5068	mg/L		
3	Sb 206.833	8607.8	8547.2	2.030	mg/L		
3	Se 196.026	1481.5	1397.2	0.5090	mg/L		
3	Tl 190.800	1956.4	1767.9	0.5140	mg/L		
3	V 292.402	216579.2	216416.5	1.941	mg/L		
3	Zn 213.856	211150.3	211733.6	1.997	mg/L		

an Data

:D: CCV 1379B Seq. No.: 39 Sample No.: 5 A/S Pos: 6
!ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 1:16:52 PM

!lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
.g 328.068	203290.2	1.008	0.0229	mg/L				2.27%
.l 308.215	183126.6	5.019	0.1157	mg/L				2.30%
.s 188.979	1322.1	0.5127	0.00247	mg/L				0.48%
:a 233.527	1819158.3	5.149	0.0193	mg/L				0.37%
:e 313.107	1418316.7	0.5119	0.00263	mg/L				0.51%
'a 227.547	13376.1	51.16	1.387	mg/L				2.71%
!d 228.802	130901.1	1.033	0.0229	mg/L				2.21%
!o 228.616	219326.5	2.073	0.0444	mg/L				2.14%
!r 267.716	45490.4	0.5030	0.01243	mg/L				2.47%
!u 324.754	658472.8	2.067	0.0045	mg/L				0.22%
e 273.955	257975.4	5.181	0.1370	mg/L				2.64%
:g 279.079	819931.6	25.82	0.066	mg/L				0.26%
:n 257.610	3310418.3	2.086	0.0059	mg/L				0.28%
:o 202.030	38263.7	2.027	0.0334	mg/L				1.65%
'i 231.604	104867.1	2.072	0.0433	mg/L				2.09%
b 220.353	7614.3	0.5095	0.00235	mg/L				0.46%
b 206.833	8601.4	2.043	0.0111	mg/L				0.54%
e 196.026	1410.5	0.5139	0.00434	mg/L				0.84%
l 190.800	1773.6	0.5156	0.00155	mg/L				0.30%
292.402	223068.5	2.001	0.0557	mg/L				2.79%
n 213.856	215791.2	2.035	0.0399	mg/L				1.96%

eplicate Data
D: CCB Date: 11/21/02 1:22:04 PM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-1099.1	-25.1	-0.0001	mg/L		
1	Al 308.215	4794.9	197.3	0.0054	mg/L		
1	As 188.979	66.4	-3.0	-0.0012	mg/L		
1	Ba 233.527	-681.5	184.1	0.0005	mg/L		
1	Be 313.107	5.2	419.4	0.0002	mg/L		
1	Ca 227.547	434.7	151.3	0.5786	mg/L		
1	Cd 228.802	80.4	-9.3	-0.0001	mg/L		
1	Co 228.616	-374.5	42.2	0.0004	mg/L		
1	Cr 267.716	-158.5	1.3	0.0000	mg/L		
1	Cu 324.754	2127.3	-159.6	-0.0005	mg/L		
1	Fe 273.955	4842.3	1852.4	0.0372	mg/L		
1	Mg 279.079	397.6	-198.5	-0.0063	mg/L		
1	Mn 257.610	2285.3	1164.6	0.0007	mg/L		
1	Mo 202.030	-28.2	0.3	0.0000	mg/L		
1	Ni 231.604	384.5	109.3	0.0022	mg/L		
1	Pb 220.353	179.4	-5.5	-0.0004	mg/L		
1	Sb 206.833	62.5	1.9	0.0004	mg/L		
1	Se 196.026	76.5	-7.8	-0.0028	mg/L		
1	Tl 190.800	190.7	2.1	0.0006	mg/L		
1	V 292.402	344.1	181.3	0.0016	mg/L		
1	Zn 213.856	-400.8	182.5	0.0017	mg/L		
2	Ag 328.068	-948.1	125.9	0.0006	mg/L		
2	Al 308.215	4891.4	293.8	0.0081	mg/L		
2	As 188.979	71.9	2.5	0.0010	mg/L		
2	Ba 233.527	-861.5	4.1	0.0000	mg/L		
2	Be 313.107	-201.0	213.2	0.0001	mg/L		
2	Ca 227.547	333.1	49.6	0.1897	mg/L		
2	Cd 228.802	80.2	-9.5	-0.0001	mg/L		
2	Co 228.616	-333.0	83.7	0.0008	mg/L		
2	Cr 267.716	-180.6	-20.8	-0.0002	mg/L		
2	Cu 324.754	2218.9	-68.1	-0.0002	mg/L		
2	Fe 273.955	4489.8	1500.0	0.0301	mg/L		
2	Mg 279.079	239.2	-356.9	-0.0112	mg/L		
2	Mn 257.610	2246.7	1126.0	0.0007	mg/L		
2	Mo 202.030	-22.7	5.8	0.0003	mg/L		
2	Ni 231.604	342.4	67.2	0.0013	mg/L		
2	Pb 220.353	169.3	-15.6	-0.0010	mg/L		

2	Sb 206.833	58.2	-2.4	-0.0006 mg/L
2	Se 196.026	76.5	-7.8	-0.0028 mg/L
2	Tl 190.800	191.5	3.0	0.0009 mg/L
2	V 292.402	297.0	134.2	0.0012 mg/L
2	Zn 213.856	-446.6	136.8	0.0013 mg/L
3	Ag 328.068	-932.1	141.8	0.0007 mg/L
3	Al 308.215	4994.9	397.3	0.0109 mg/L
3	As 188.979	77.1	7.7	0.0029 mg/L
3	Ba 233.527	-827.5	38.1	0.0001 mg/L
3	Be 313.107	61.3	475.5	0.0002 mg/L
3	Ca 227.547	285.5	2.0	0.0078 mg/L
3	Cd 228.802	94.6	4.9	0.0000 mg/L
3	Co 228.616	-298.0	118.7	0.0011 mg/L
3	Cr 267.716	-121.8	37.9	0.0004 mg/L
3	Cu 324.754	2322.4	35.5	0.0001 mg/L
3	Fe 273.955	3956.3	966.4	0.0194 mg/L
3	Mg 279.079	356.3	-239.8	-0.0076 mg/L
3	Mn 257.610	2447.0	1326.3	0.0008 mg/L
3	Mo 202.030	-26.6	1.9	0.0001 mg/L
3	Ni 231.604	481.2	206.0	0.0041 mg/L
3	Pb 220.353	166.2	-18.7	-0.0013 mg/L
3	Sb 206.833	63.3	2.7	0.0006 mg/L
3	Se 196.026	76.3	-8.0	-0.0029 mg/L
3	Tl 190.800	186.3	-2.2	-0.0007 mg/L
3	V 292.402	268.3	105.6	0.0009 mg/L
3	Zn 213.856	-477.4	106.0	0.0010 mg/L

ean Data ----------

: CCB Seq. No.: 40 Sample No.: 6 A/S Pos: 1
mple Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 1:22:04 PM

ement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
328.068	80.9	0.0004	0.00046	mg/L				113.95%
l 308.215	296.2	0.0081	0.00274	mg/L				33.77%
188.979	2.4	0.0009	0.00205	mg/L				225.16%
233.527	75.4	0.0002	0.00027	mg/L				126.78%
313.107	369.4	0.0001	0.00005	mg/L				37.40%
a 227.547	67.6	0.2587	0.29159	mg/L				112.72%
d 228.802	-4.7	0.0000	0.00007	mg/L				177.11%
228.616	81.5	0.0008	0.00036	mg/L				46.95%
267.716	6.1	0.0001	0.00033	mg/L				484.55%
u 324.754	-64.1	-0.0002	0.00031	mg/L				152.38%
e 273.955	1439.6	0.0289	0.00896	mg/L				30.99%
279.079	-265.1	-0.0083	0.00259	mg/L				30.99%
257.610	1205.6	0.0008	0.00007	mg/L				8.81%
o 202.030	2.6	0.0001	0.00015	mg/L				107.52%
i 231.604	127.5	0.0025	0.00141	mg/L				55.83%
220.353	-13.3	-0.0009	0.00046	mg/L				52.28%
206.833	0.7	0.0002	0.00066	mg/L				380.24%
196.026	-7.8	-0.0029	0.00004	mg/L				1.25%
l 190.800	1.0	0.0003	0.00082	mg/L				291.06%
292.402	140.4	0.0013	0.00034	mg/L				27.26%
213.856	141.8	0.0013	0.00036	mg/L				27.16%

eplicate Data ----------

: M-BL 02M2369S Date: 11/21/02 1:25:23 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1206.1	-132.2	-0.0007	mg/L	-0.0328	ppm
1	Al 308.215	4921.5	324.0	0.0089	mg/L	0.4440	ppm
1	As 188.979	65.7	-3.7	-0.0014	mg/L	-0.0709	ppm
1	Ba 233.527	-854.7	10.9	0.0000	mg/L	0.0015	ppm
1	Be 313.107	-203.8	210.4	0.0001	mg/L	0.0038	ppm
1	Ca 227.547	235.3	-48.1	-0.1841	mg/L	-9.207	ppm
1	Cd 228.802	70.5	-19.2	-0.0002	mg/L	-0.0076	ppm
1	Co 228.616	-367.6	49.1	0.0005	mg/L	0.0232	ppm
1	Cr 267.716	-89.0	70.8	0.0008	mg/L	0.0391	ppm

1 Cu 324.754	2132.5	-154.4	-0.0005 mg/L	-0.0242 ppm
1 Fe 273.955	4151.2	1161.3	0.0233 mg/L	1.166 ppm
1 Mg 279.079	501.3	-94.9	-0.0030 mg/L	-0.1493 ppm
1 Mn 257.610	2024.8	904.1	0.0006 mg/L	0.0285 ppm
1 Mo 202.030	-33.0	-4.5	-0.0002 mg/L	-0.0119 ppm
1 Ni 231.604	406.5	131.3	0.0026 mg/L	0.1297 ppm
1 Pb 220.353	183.8	-1.1	-0.0001 mg/L	-0.0035 ppm
1 Sb 206.833	66.1	5.5	0.0013 mg/L	0.0657 ppm
1 Se 196.026	76.6	-7.7	-0.0028 mg/L	-0.1400 ppm
1 Tl 190.800	186.8	-1.7	-0.0005 mg/L	-0.0246 ppm
1 V 292.402	160.3	-2.5	0.0000 mg/L	-0.0011 ppm
1 Zn 213.856	-385.9	197.5	0.0019 mg/L	0.0931 ppm
2 Ag 328.068	-1100.9	-26.9	-0.0001 mg/L	-0.0067 ppm
2 Al 308.215	4843.4	245.8	0.0067 mg/L	0.3368 ppm
2 As 188.979	65.6	-3.8	-0.0015 mg/L	-0.0731 ppm
2 Ba 233.527	-803.4	62.2	0.0002 mg/L	0.0088 ppm
2 Be 313.107	-231.1	183.1	0.0001 mg/L	0.0033 ppm
2 Ca 227.547	366.2	82.8	0.3165 mg/L	15.82 ppm
2 Cd 228.802	86.4	-3.4	0.0000 mg/L	-0.0013 ppm
2 Co 228.616	-305.6	111.1	0.0011 mg/L	0.0525 ppm
2 Cr 267.716	-113.8	46.0	0.0005 mg/L	0.0254 ppm
2 Cu 324.754	2039.5	-247.4	-0.0008 mg/L	-0.0388 ppm
2 Fe 273.955	3982.3	992.5	0.0199 mg/L	0.9965 ppm
2 Mg 279.079	404.7	-191.5	-0.0060 mg/L	-0.3014 ppm
2 Mn 257.610	1940.2	819.5	0.0005 mg/L	0.0258 ppm
2 Mo 202.030	-37.4	-8.9	-0.0005 mg/L	-0.0236 ppm
2 Ni 231.604	395.1	119.9	0.0024 mg/L	0.1184 ppm
2 Pb 220.353	179.8	-5.1	-0.0003 mg/L	-0.0169 ppm
2 Sb 206.833	56.9	-3.8	-0.0009 mg/L	-0.0449 ppm
2 Se 196.026	78.8	-5.4	-0.0020 mg/L	-0.0989 ppm
2 Tl 190.800	195.9	7.4	0.0021 mg/L	0.1070 ppm
2 V 292.402	291.8	129.0	0.0012 mg/L	0.0579 ppm
2 Zn 213.856	-419.2	164.2	0.0015 mg/L	0.0774 ppm
3 Ag 328.068	-939.1	134.8	0.0007 mg/L	0.0334 ppm
3 Al 308.215	4940.9	343.3	0.0094 mg/L	0.4704 ppm
3 As 188.979	73.6	4.1	0.0016 mg/L	0.0796 ppm
3 Ba 233.527	-874.9	-9.3	0.0000 mg/L	-0.0013 ppm
3 Be 313.107	-227.6	186.6	0.0001 mg/L	0.0034 ppm
3 Ca 227.547	275.9	-7.6	-0.0290 mg/L	-1.449 ppm
3 Cd 228.802	98.7	9.0	0.0001 mg/L	0.0035 ppm
3 Co 228.616	-355.7	61.0	0.0006 mg/L	0.0289 ppm
3 Cr 267.716	-25.4	134.4	0.0015 mg/L	0.0743 ppm
3 Cu 324.754	2099.9	-187.0	-0.0006 mg/L	-0.0294 ppm
3 Fe 273.955	3457.0	467.2	0.0094 mg/L	0.4691 ppm
3 Mg 279.079	276.2	-319.9	-0.0101 mg/L	-0.5036 ppm
3 Mn 257.610	1973.4	852.7	0.0005 mg/L	0.0269 ppm
3 Mo 202.030	-29.0	-0.5	0.0000 mg/L	-0.0012 ppm
3 Ni 231.604	351.6	76.4	0.0015 mg/L	0.0755 ppm
3 Pb 220.353	182.6	-2.3	-0.0002 mg/L	-0.0077 ppm
3 Sb 206.833	66.6	6.0	0.0014 mg/L	0.0718 ppm
3 Se 196.026	83.3	-0.9	-0.0003 mg/L	-0.0171 ppm
3 Tl 190.800	188.1	-0.5	-0.0001 mg/L	-0.0067 ppm
3 V 292.402	246.7	83.9	0.0008 mg/L	0.0376 ppm
3 Zn 213.856	-457.5	125.9	0.0012 mg/L	0.0594 ppm

ean Data ----------

D: M-BL 02M2369S Seq. No.: 41 Sample No.: 25 A/S Pos: 33
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 1:25:23 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	-8.1	0.0000	0.00067	mg/L	-0.0020	0.03333	ppm	>999.9%
l 308.215	304.3	0.0083	0.00141	mg/L	0.4171	0.07075	ppm	16.96%
s 188.979	-1.1	-0.0004	0.00175	mg/L	-0.0215	0.08755	ppm	407.86%
a 233.527	21.3	0.0001	0.00010	mg/L	0.0030	0.00522	ppm	173.15%
e 313.107	193.4	0.0001	0.00001	mg/L	0.0035	0.00027	ppm	7.70%
a 227.547	9.0	0.0345	0.25628	mg/L	1.723	12.8139	ppm	743.71%
d 228.802	-4.5	0.0000	0.00011	mg/L	-0.0018	0.00557	ppm	310.41%
o 228.616	73.8	0.0007	0.00031	mg/L	0.0349	0.01555	ppm	44.60%

267.716	83.7	0.0009	0.00050 mg/L	0.0463	0.02520 ppm	54.43%
324.754	-196.3	-0.0006	0.00015 mg/L	-0.0308	0.00740 ppm	24.03%
e 273.955	873.7	0.0175	0.00727 mg/L	0.8773	0.36348 ppm	41.43%
g 279.079	-202.1	-0.0064	0.00355 mg/L	-0.3181	0.17774 ppm	55.87%
257.610	858.7	0.0005	0.00003 mg/L	0.0271	0.00134 ppm	4.96%
202.030	-4.6	-0.0002	0.00022 mg/L	-0.0122	0.01119 ppm	91.44%
i 231.604	109.2	0.0022	0.00057 mg/L	0.1079	0.02861 ppm	26.52%
b 220.353	-2.8	-0.0002	0.00014 mg/L	-0.0094	0.00684 ppm	72.89%
206.833	2.6	0.0006	0.00131 mg/L	0.0309	0.06568 ppm	212.67%
196.026	-4.7	-0.0017	0.00125 mg/L	-0.0854	0.06255 ppm	73.28%
190.800	1.7	0.0005	0.00143 mg/L	0.0252	0.07138 ppm	283.13%
292.402	70.2	0.0006	0.00060 mg/L	0.0315	0.02996 ppm	95.23%
213.856	162.6	0.0015	0.00034 mg/L	0.0767	0.01691 ppm	22.06%

eplicate Data ----------
D: LCS-02M2369 Date: 11/21/02 1:28:48 PM

pl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	200607.9	201681.8	0.9998	mg/L	49.99	ppm
1	Al 308.215	79647.7	75050.2	2.057	mg/L	102.9	ppm
1	As 188.979	1374.2	1304.8	0.5089	mg/L	25.45	ppm
1	Ba 233.527	1489736.3	1490601.9	4.219	mg/L	211.0	ppm
1	Be 313.107	550933.7	551347.9	0.1990	mg/L	9.949	ppm
1	Ca 227.547	5693.2	5409.7	20.69	mg/L	1035	ppm
1	Cd 228.802	33584.7	33495.0	0.2644	mg/L	13.22	ppm
1	Co 228.616	113561.6	113978.3	1.077	mg/L	53.87	ppm
1	Cr 267.716	92881.0	93040.7	1.029	mg/L	51.44	ppm
1	Cu 324.754	322725.3	320438.4	1.006	mg/L	50.29	ppm
1	Fe 273.955	53345.1	50355.3	1.011	mg/L	50.56	ppm
1	Mg 279.079	320962.0	320365.9	10.09	mg/L	504.3	ppm
1	Mn 257.610	1623608.6	1622487.9	1.022	mg/L	51.11	ppm
1	Mo 202.030	39319.5	39348.0	2.084	mg/L	104.2	ppm
1	Ni 231.604	54610.3	54335.1	1.074	mg/L	53.68	ppm
1	Pb 220.353	47112.0	46927.2	3.140	mg/L	157.0	ppm
1	Sb 206.833	2214.9	2154.2	0.4853	mg/L	24.27	ppm
1	Se 196.026	1469.2	1384.9	0.5030	mg/L	25.15	ppm
1	Tl 190.800	1986.0	1797.4	0.5226	mg/L	26.13	ppm
1	V 292.402	225937.5	225774.8	2.025	mg/L	101.2	ppm
1	Zn 213.856	56294.4	56877.8	0.5364	mg/L	26.82	ppm
2	Ag 328.068	198593.7	199667.6	0.9898	mg/L	49.49	ppm
2	Al 308.215	79360.6	74763.1	2.049	mg/L	102.5	ppm
2	As 188.979	1366.6	1297.1	0.5059	mg/L	25.30	ppm
2	Ba 233.527	1478286.6	1479152.2	4.187	mg/L	209.4	ppm
2	Be 313.107	545715.8	546130.0	0.1971	mg/L	9.855	ppm
2	Ca 227.547	5708.8	5425.3	20.75	mg/L	1037	ppm
2	Cd 228.802	33015.2	32925.5	0.2599	mg/L	12.99	ppm
2	Co 228.616	112134.5	112551.2	1.064	mg/L	53.20	ppm
2	Cr 267.716	92152.7	92312.5	1.021	mg/L	51.04	ppm
2	Cu 324.754	321194.4	318907.4	1.001	mg/L	50.05	ppm
2	Fe 273.955	52961.6	49971.7	1.004	mg/L	50.18	ppm
2	Mg 279.079	317436.9	316840.8	9.976	mg/L	498.8	ppm
2	Mn 257.610	1601246.8	1600126.1	1.008	mg/L	50.41	ppm
2	Mo 202.030	38729.1	38757.6	2.053	mg/L	102.7	ppm
2	Ni 231.604	53832.4	53557.2	1.058	mg/L	52.91	ppm
2	Pb 220.353	46667.6	46482.7	3.110	mg/L	155.5	ppm
2	Sb 206.833	2215.1	2154.5	0.4856	mg/L	24.28	ppm
2	Se 196.026	1464.2	1379.9	0.5012	mg/L	25.06	ppm
2	Tl 190.800	2010.0	1821.5	0.5296	mg/L	26.48	ppm
2	V 292.402	224035.1	223872.4	2.008	mg/L	100.4	ppm
2	Zn 213.856	55487.4	56070.8	0.5288	mg/L	26.44	ppm
3	Ag 328.068	198054.3	199128.3	0.9871	mg/L	49.36	ppm
3	Al 308.215	79246.5	74648.9	2.046	mg/L	102.3	ppm
3	As 188.979	1363.9	1294.5	0.5048	mg/L	25.24	ppm
3	Ba 233.527	1477560.4	1478426.0	4.185	mg/L	209.2	ppm
3	Be 313.107	548876.8	549291.0	0.1982	mg/L	9.912	ppm
3	Ca 227.547	5663.0	5379.6	20.58	mg/L	1029	ppm
3	Cd 228.802	33086.2	32996.5	0.2604	mg/L	13.02	ppm
3	Co 228.616	112531.1	112947.8	1.068	mg/L	53.38	ppm

3 Cr 267.716	91512.2	91672.0	1.014	mg/L	50.68 ppm
3 Cu 324.754	321098.9	318812.0	1.001	mg/L	50.04 ppm
3 Fe 273.955	52587.9	49598.0	0.9960	mg/L	49.80 ppm
3 Mg 279.079	318388.8	317792.7	10.01	mg/L	500.3 ppm
3 Mn 257.610	1604718.1	1603597.3	1.010	mg/L	50.52 ppm
3 Mo 202.030	38892.1	38920.6	2.062	mg/L	103.1 ppm
3 Ni 231.604	53987.6	53712.4	1.061	mg/L	53.07 ppm
3 Pb 220.353	46765.0	46580.1	3.117	mg/L	155.8 ppm
3 Sb 206.833	2216.7	2156.0	0.4862	mg/L	24.31 ppm
3 Se 196.026	1472.9	1388.6	0.5044	mg/L	25.22 ppm
3 Tl 190.800	2008.7	1820.2	0.5292	mg/L	26.46 ppm
3 V 292.402	222491.0	222328.2	1.994	mg/L	99.70 ppm
3 Zn 213.856	55783.1	56366.5	0.5316	mg/L	26.58 ppm

ean Data ----------

D: LCS-02M2369 Seq. No.: 42 Sample No.: 26 A/S Pos: 34
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 1:28:48 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	200159.2	0.9922	0.00667	mg/L	49.61	0.334	ppm	0.67%
l 308.215	74820.7	2.051	0.0057	mg/L	102.5	0.28	ppm	0.28%
s 188.979	1298.8	0.5066	0.00211	mg/L	25.33	0.105	ppm	0.42%
a 233.527	1482726.7	4.197	0.0193	mg/L	209.9	0.97	ppm	0.46%
e 313.107	548923.0	0.1981	0.00095	mg/L	9.905	0.0474	ppm	0.48%
a 227.547	5404.9	20.67	0.089	mg/L	1034	4.4	ppm	0.43%
d 228.802	33139.0	0.2615	0.00245	mg/L	13.08	0.122	ppm	0.94%
o 228.616	113159.1	1.070	0.0070	mg/L	53.48	0.348	ppm	0.65%
r 267.716	92341.7	1.021	0.0076	mg/L	51.05	0.379	ppm	0.74%
u 324.754	319385.9	1.003	0.0029	mg/L	50.13	0.143	ppm	0.29%
e 273.955	49975.0	1.004	0.0076	mg/L	50.18	0.380	ppm	0.76%
g 279.079	318333.1	10.02	0.057	mg/L	501.1	2.87	ppm	0.57%
n 257.610	1608737.1	1.014	0.0076	mg/L	50.68	0.379	ppm	0.75%
o 202.030	39008.7	2.066	0.0162	mg/L	103.3	0.81	ppm	0.78%
i 231.604	53868.2	1.064	0.0081	mg/L	53.22	0.407	ppm	0.76%
b 220.353	46663.3	3.122	0.0156	mg/L	156.1	0.78	ppm	0.50%
b 206.833	2154.9	0.4857	0.00044	mg/L	24.28	0.022	ppm	0.09%
e 196.026	1384.5	0.5029	0.00158	mg/L	25.14	0.079	ppm	0.31%
l 190.800	1813.0	0.5271	0.00394	mg/L	26.36	0.197	ppm	0.75%
292.402	223991.8	2.009	0.0155	mg/L	100.4	0.77	ppm	0.77%
n 213.856	56438.4	0.5323	0.00385	mg/L	26.61	0.193	ppm	0.72%

atrix Check Sample: LCS-02M2369

lement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
g 328.068	1.0000	0.9922	0.007	mg/L	99.226
l 308.215	2.008	2.051	0.006	mg/L	102.119
s 188.979	0.4996	0.5066	0.002	mg/L	101.396
a 233.527	4.000	4.197	0.019	mg/L	104.927
e 313.107	0.2001	0.1981	0.001	mg/L	99.019
a 227.547	20.03	20.67	0.089	mg/L	103.187
d 228.802	0.2500	0.2615	0.002	mg/L	104.634
o 228.616	1.001	1.070	0.007	mg/L	106.898
r 267.716	1.001	1.021	0.008	mg/L	102.015
u 324.754	0.9994	1.003	0.003	mg/L	100.321
e 273.955	1.018	1.004	0.008	mg/L	98.606
g 279.079	9.994	10.02	0.057	mg/L	100.292
n 257.610	1.001	1.014	0.008	mg/L	101.300
o 202.030	2.000	2.066	0.016	mg/L	103.331
i 231.604	1.002	1.064	0.008	mg/L	106.228
o 220.353	3.000	3.122	0.016	mg/L	104.082
o 206.833	0.5006	0.4857	0.000	mg/L	97.014
e 196.026	0.4983	0.5029	0.002	mg/L	100.913
l 190.800	0.5005	0.5271	0.004	mg/L	105.324
292.402	2.001	2.009	0.015	mg/L	100.414
n 213.856	0.5015	0.5323	0.004	mg/L	106.149

eplicate Data ----------

D: LCSD-02M2369 Date: 11/21/02 1:32:16 PM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	199038.4	200112.3	0.9920	mg/L	49.60	ppm
1	Al 308.215	78791.9	74194.3	2.034	mg/L	101.7	ppm
1	As 188.979	1372.1	1302.6	0.5080	mg/L	25.40	ppm
1	Ba 233.527	1477268.4	1478134.0	4.184	mg/L	209.2	ppm
1	Be 313.107	546865.2	547279.4	0.1975	mg/L	9.876	ppm
1	Ca 227.547	5680.6	5397.1	20.64	mg/L	1032	ppm
1	Cd 228.802	33402.6	33312.8	0.2629	mg/L	13.15	ppm
1	Co 228.616	112744.7	113161.4	1.070	mg/L	53.49	ppm
1	Cr 267.716	92054.3	92214.1	1.020	mg/L	50.98	ppm
1	Cu 324.754	321288.9	319002.0	1.001	mg/L	50.07	ppm
1	Fe 273.955	52114.7	49124.8	0.9865	mg/L	49.33	ppm
1	Mg 279.079	318761.4	318165.2	10.02	mg/L	500.9	ppm
1	Mn 257.610	1610032.0	1608911.3	1.014	mg/L	50.68	ppm
1	Mo 202.030	38941.7	38970.2	2.064	mg/L	103.2	ppm
1	Ni 231.604	53837.5	53562.3	1.058	mg/L	52.92	ppm
1	Pb 220.353	46812.5	46627.6	3.120	mg/L	156.0	ppm
1	Sb 206.833	2207.5	2146.8	0.4838	mg/L	24.19	ppm
1	Se 196.026	1463.4	1379.1	0.5009	mg/L	25.05	ppm
1	Tl 190.800	2008.5	1820.0	0.5291	mg/L	26.46	ppm
1	V 292.402	224034.9	223872.1	2.008	mg/L	100.4	ppm
1	Zn 213.856	55961.5	56544.9	0.5333	mg/L	26.66	ppm
2	Ag 328.068	201396.3	202470.3	1.004	mg/L	50.18	ppm
2	Al 308.215	79718.5	75120.9	2.059	mg/L	102.9	ppm
2	As 188.979	1377.3	1307.9	0.5102	mg/L	25.51	ppm
2	Ba 233.527	1489375.0	1490240.6	4.218	mg/L	210.9	ppm
2	Be 313.107	546635.7	547050.0	0.1974	mg/L	9.872	ppm
2	Ca 227.547	5654.7	5371.3	20.54	mg/L	1027	ppm
2	Cd 228.802	33262.5	33172.7	0.2618	mg/L	13.09	ppm
2	Co 228.616	113388.2	113804.9	1.076	mg/L	53.79	ppm
2	Cr 267.716	93631.6	93791.3	1.037	mg/L	51.86	ppm
2	Cu 324.754	324410.2	322123.3	1.011	mg/L	50.56	ppm
2	Fe 273.955	51991.6	49001.7	0.9841	mg/L	49.20	ppm
2	Mg 279.079	319967.7	319371.5	10.06	mg/L	502.8	ppm
2	Mn 257.610	1615164.5	1614043.8	1.017	mg/L	50.84	ppm
2	Mo 202.030	39236.0	39264.5	2.080	mg/L	104.0	ppm
2	Ni 231.604	53790.5	53515.3	1.057	mg/L	52.87	ppm
2	Pb 220.353	46995.4	46810.5	3.132	mg/L	156.6	ppm
2	Sb 206.833	2215.6	2154.9	0.4852	mg/L	24.26	ppm
2	Se 196.026	1456.2	1371.9	0.4983	mg/L	24.91	ppm
2	Tl 190.800	1997.5	1809.0	0.5259	mg/L	26.30	ppm
2	V 292.402	227513.9	227351.1	2.039	mg/L	102.0	ppm
2	Zn 213.856	55918.2	56501.6	0.5329	mg/L	26.64	ppm
3	Ag 328.068	196052.1	197126.1	0.9772	mg/L	48.86	ppm
3	Al 308.215	77791.8	73194.2	2.006	mg/L	100.3	ppm
3	As 188.979	1376.9	1307.5	0.5098	mg/L	25.49	ppm
3	Ba 233.527	1458683.7	1459549.3	4.132	mg/L	206.6	ppm
3	Be 313.107	540163.3	540577.5	0.1951	mg/L	9.755	ppm
3	Ca 227.547	5675.8	5392.4	20.62	mg/L	1031	ppm
3	Cd 228.802	32486.2	32396.5	0.2557	mg/L	12.78	ppm
3	Co 228.616	110933.4	111350.1	1.053	mg/L	52.63	ppm
3	Cr 267.716	90779.0	90938.8	1.006	mg/L	50.28	ppm
3	Cu 324.754	318213.8	315926.9	0.9917	mg/L	49.59	ppm
3	Fe 273.955	51021.1	48031.3	0.9646	mg/L	48.23	ppm
3	Mg 279.079	314429.0	313832.9	9.881	mg/L	494.1	ppm
3	Mn 257.610	1582448.5	1581327.7	0.9963	mg/L	49.81	ppm
3	Mo 202.030	38483.2	38511.7	2.040	mg/L	102.0	ppm
3	Ni 231.604	52905.1	52629.9	1.040	mg/L	52.00	ppm
3	Pb 220.353	46285.2	46100.3	3.085	mg/L	154.2	ppm
3	Sb 206.833	2197.4	2136.8	0.4818	mg/L	24.09	ppm
3	Se 196.026	1466.2	1381.9	0.5019	mg/L	25.10	ppm
3	Tl 190.800	2009.9	1821.3	0.5295	mg/L	26.48	ppm
3	V 292.402	220764.0	220601.2	1.978	mg/L	98.92	ppm
3	Zn 213.856	55188.3	55771.7	0.5260	mg/L	26.30	ppm

ean Data

: LCSD-02M2369 Seq. No.: 43 Sample No.: 27 A/S Pos: 35

ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 1:32:16 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	199902.9	0.9910	0.01328	mg/L	49.55	0.664	ppm	1.34%
l 308.215	74169.8	2.033	0.0264	mg/L	101.6	1.32	ppm	1.30%
s 188.979	1306.0	0.5093	0.00114	mg/L	25.47	0.057	ppm	0.22%
a 233.527	1475974.6	4.178	0.0438	mg/L	208.9	2.19	ppm	1.05%
e 313.107	544968.9	0.1967	0.00137	mg/L	9.834	0.0687	ppm	0.70%
a 227.547	5386.9	20.60	0.053	mg/L	1030	2.6	ppm	0.26%
d 228.802	32960.7	0.2601	0.00390	mg/L	13.01	0.195	ppm	1.50%
o 228.616	112772.1	1.066	0.0120	mg/L	53.30	0.602	ppm	1.13%
r 267.716	92314.8	1.021	0.0158	mg/L	51.04	0.790	ppm	1.55%
u 324.754	319017.4	1.001	0.0097	mg/L	50.07	0.486	ppm	0.97%
e 273.955	48719.3	0.9784	0.01203	mg/L	48.92	0.601	ppm	1.23%
g 279.079	317123.2	9.985	0.0917	mg/L	499.2	4.59	ppm	0.92%
n 257.610	1601427.6	1.009	0.0111	mg/L	50.45	0.554	ppm	1.10%
o 202.030	38915.5	2.061	0.0201	mg/L	103.1	1.00	ppm	0.97%
i 231.604	53235.8	1.052	0.0104	mg/L	52.60	0.519	ppm	0.99%
b 220.353	46512.8	3.112	0.0247	mg/L	155.6	1.23	ppm	0.79%
b 206.833	2146.2	0.4836	0.00172	mg/L	24.18	0.086	ppm	0.36%
e 196.026	1377.6	0.5004	0.00188	mg/L	25.02	0.094	ppm	0.38%
l 190.800	1816.8	0.5282	0.00197	mg/L	26.41	0.099	ppm	0.37%
292.402	223941.5	2.008	0.0303	mg/L	100.4	1.51	ppm	1.51%
n 213.856	56272.7	0.5307	0.00410	mg/L	26.54	0.205	ppm	0.77%

atrix Check Sample: LCSD-02M2369

lement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
g 328.068	1.0000	0.9910	0.013	mg/L	99.099
l 308.215	2.008	2.033	0.026	mg/L	101.227
s 188.979	0.4996	0.5093	0.001	mg/L	101.949
a 233.527	4.000	4.178	0.044	mg/L	104.449
e 313.107	0.2001	0.1967	0.001	mg/L	98.305
a 227.547	20.03	20.60	0.053	mg/L	102.844
d 228.802	0.2500	0.2601	0.004	mg/L	104.071
o 228.616	1.001	1.066	0.012	mg/L	106.532
r 267.716	1.001	1.021	0.016	mg/L	101.985
u 324.754	0.9994	1.001	0.010	mg/L	100.205
e 273.955	1.018	0.9784	0.012	mg/L	96.084
g 279.079	9.994	9.985	0.092	mg/L	99.911
n 257.610	1.001	1.009	0.011	mg/L	100.839
o 202.030	2.000	2.061	0.020	mg/L	103.084
i 231.604	1.002	1.052	0.010	mg/L	104.979
o 220.353	3.000	3.112	0.025	mg/L	103.747
o 206.833	0.5006	0.4836	0.002	mg/L	96.598
e 196.026	0.4983	0.5004	0.002	mg/L	100.416
l 190.800	0.5005	0.5282	0.002	mg/L	105.541
292.402	2.001	2.008	0.030	mg/L	100.391
n 213.856	0.5015	0.5307	0.004	mg/L	105.837

eplicate Data
D: 6148-1 S F=50 Date: 11/21/02 1:35:27 PM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-1991.1	-917.1	-0.0045	mg/L	-0.2273	ppm
1	Al 308.215	4943640.2	4939042.6	135.4	mg/L	6769	ppm
1	As 188.979	99.7	30.3	0.0559	mg/L	2.796	ppm
1	Ba 233.527	241431.5	242297.2	0.6859	mg/L	34.29	ppm
1	Be 313.107	8612.2	9026.4	0.0033	mg/L	0.1629	ppm
1	Ca 227.547	427912.2	427628.8	1640	mg/L	81980	ppm
1	Cd 228.802	434.3	344.6	0.0027	mg/L	0.1360	ppm
1	Co 228.616	7557.4	7974.1	0.0754	mg/L	3.769	ppm
1	Cr 267.716	22333.6	22493.4	0.2441	mg/L	12.21	ppm
1	Cu 324.754	31191.4	28904.5	0.0992	mg/L	4.961	ppm
1	Fe 273.955	9221990.5	9219000.6	185.1	mg/L	9257	ppm
1	Mg 279.079	2887613.5	2887017.3	90.90	mg/L	4545	ppm

1	Mn 257.610	4185940.1	4184819.4	2.637	mg/L	131.8	ppm
1	Mo 202.030	57.4	85.9	-0.0026	mg/L	-0.1319	ppm
1	Ni 231.604	8209.3	7934.1	0.1568	mg/L	7.839	ppm
1	Pb 220.353	978.1	793.2	0.0651	mg/L	3.257	ppm
1	Sb 206.833	174.2	113.6	0.0083	mg/L	0.4125	ppm
1	Se 196.026	-11.9	-96.1	0.0110	mg/L	0.5495	ppm
1	Tl 190.800	365.9	177.4	0.0048	mg/L	0.2389	ppm
1	V 292.402	39913.8	39751.1	0.3565	mg/L	17.83	ppm
1	Zn 213.856	213562.4	214145.8	2.000	mg/L	100.0	ppm
2	Ag 328.068	-1730.2	-656.3	-0.0033	mg/L	-0.1627	ppm
2	Al 308.215	4937298.6	4932701.0	135.2	mg/L	6760	ppm
2	As 188.979	133.1	63.6	0.0688	mg/L	3.441	ppm
2	Ba 233.527	240882.9	241748.5	0.6843	mg/L	34.22	ppm
2	Be 313.107	8510.1	8924.3	0.0032	mg/L	0.1610	ppm
2	Ca 227.547	428751.7	428468.2	1643	mg/L	82140	ppm
2	Cd 228.802	496.5	406.8	0.0032	mg/L	0.1605	ppm
2	Co 228.616	7735.6	8152.3	0.0771	mg/L	3.853	ppm
2	Cr 267.716	22984.9	23144.7	0.2514	mg/L	12.57	ppm
2	Cu 324.754	31139.5	28852.6	0.0990	mg/L	4.950	ppm
2	Fe 273.955	9174862.1	9171872.3	184.2	mg/L	9210	ppm
2	Mg 279.079	2882216.4	2881620.3	90.73	mg/L	4536	ppm
2	Mn 257.610	4203845.6	4202724.9	2.648	mg/L	132.4	ppm
2	Mo 202.030	19.7	48.2	-0.0046	mg/L	-0.2299	ppm
2	Ni 231.604	8080.7	7805.5	0.1542	mg/L	7.712	ppm
2	Pb 220.353	1113.4	928.5	0.0742	mg/L	3.710	ppm
2	Sb 206.833	86.6	25.9	-0.0129	mg/L	-0.6443	ppm
2	Se 196.026	32.9	-51.4	0.0270	mg/L	1.348	ppm
2	Tl 190.800	349.2	160.7	0.0001	mg/L	0.0052	ppm
2	V 292.402	40253.1	40090.3	0.3596	mg/L	17.98	ppm
2	Zn 213.856	214754.2	215337.6	2.011	mg/L	100.6	ppm
3	Ag 328.068	-1774.9	-700.9	-0.0035	mg/L	-0.1737	ppm
3	Al 308.215	4840742.4	4836144.9	132.6	mg/L	6628	ppm
3	As 188.979	122.7	53.2	0.0658	mg/L	3.288	ppm
3	Ba 233.527	243715.8	244581.4	0.6923	mg/L	34.62	ppm
3	Be 313.107	8693.0	9107.2	0.0033	mg/L	0.1643	ppm
3	Ca 227.547	437520.0	437236.6	1676	mg/L	83810	ppm
3	Cd 228.802	481.5	391.7	0.0031	mg/L	0.1546	ppm
3	Co 228.616	7863.3	8280.0	0.0783	mg/L	3.913	ppm
3	Cr 267.716	23364.5	23524.2	0.2556	mg/L	12.78	ppm
3	Cu 324.754	31381.9	29095.0	0.0996	mg/L	4.981	ppm
3	Fe 273.955	9012918.0	9009928.1	180.9	mg/L	9047	ppm
3	Mg 279.079	2840109.7	2839513.5	89.40	mg/L	4470	ppm
3	Mn 257.610	4143575.8	4142455.1	2.610	mg/L	130.5	ppm
3	Mo 202.030	23.2	51.7	-0.0043	mg/L	-0.2142	ppm
3	Ni 231.604	8390.9	8115.7	0.1604	mg/L	8.018	ppm
3	Pb 220.353	967.7	782.8	0.0644	mg/L	3.222	ppm
3	Sb 206.833	98.7	38.1	-0.0099	mg/L	-0.4943	ppm
3	Se 196.026	-40.5	-124.8	-0.0005	mg/L	-0.0235	ppm
3	Tl 190.800	373.9	185.3	0.0082	mg/L	0.4124	ppm
3	V 292.402	40813.9	40651.1	0.3646	mg/L	18.23	ppm
3	Zn 213.856	218937.6	219521.0	2.051	mg/L	102.6	ppm

an Data

: 6148-1 S F=50 Seq. No.: 44 Sample No.: 28 A/S Pos: 36
nple Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 1:35:27 PM

ement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	-758.1	-0.0038	0.00069	mg/L	-0.1879	0.03458	ppm	18.40%
l 308.215	4902629.5	134.4	1.58	mg/L	6719	79.0	ppm	1.18%
188.979	49.1	0.0635	0.00674	mg/L	3.175	0.3371	ppm	10.62%
233.527	242875.7	0.6875	0.00425	mg/L	34.38	0.213	ppm	0.62%
313.107	9019.3	0.0033	0.00003	mg/L	0.1628	0.00165	ppm	1.02%
a 227.547	431111.2	1653	20.3	mg/L	82650	1015.2	ppm	1.23%
228.802	381.0	0.0030	0.00026	mg/L	0.1504	0.01281	ppm	8.52%
228.616	8135.5	0.0769	0.00145	mg/L	3.845	0.0726	ppm	1.89%
267.716	23054.1	0.2504	0.00581	mg/L	12.52	0.291	ppm	2.32%
1 324.754	28950.7	0.0993	0.00031	mg/L	4.964	0.0156	ppm	0.31%
273.955	9133600.3	183.4	2.20	mg/L	9171	110.1	ppm	1.20%

Mg 279.079	2869383.7	90.34	0.819	mg/L	4517	40.9	ppm	0.91%
Mn 257.610	4176666.5	2.631	0.0195	mg/L	131.6	0.97	ppm	0.74%
Mo 202.030	61.9	-0.0038	0.00105	mg/L	-0.1920	0.05265	ppm	27.43%
Ni 231.604	7951.8	0.1571	0.00308	mg/L	7.856	0.1540	ppm	1.96%
Pb 220.353	834.8	0.0679	0.00544	mg/L	3.396	0.2721	ppm	8.01%
Sb 206.833	59.2	-0.0048	0.01144	mg/L	-0.2420	0.57181	ppm	236.26%
Se 196.026	-90.8	0.0125	0.01378	mg/L	0.6248	0.68908	ppm	110.29%
Tl 190.800	174.5	0.0044	0.00409	mg/L	0.2188	0.20434	ppm	93.37%
V 292.402	40164.2	0.3602	0.00408	mg/L	18.01	0.204	ppm	1.13%
Zn 213.856	216334.8	2.021	0.0269	mg/L	101.0	1.34	ppm	1.33%

Replicate Data ----------

D: 6148-1 D F=50 Date: 11/21/02 1:38:07 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-2094.6	-1020.7	-0.0051	mg/L	-0.2530	ppm
1	Al 308.215	4865180.5	4860582.9	133.2	mg/L	6661	ppm
1	As 188.979	130.2	60.8	0.0669	mg/L	3.344	ppm
1	Ba 233.527	236432.2	237297.8	0.6717	mg/L	33.59	ppm
1	Be 313.107	8171.5	8585.7	0.0031	mg/L	0.1549	ppm
1	Ca 227.547	419923.1	419639.6	1609	mg/L	80450	ppm
1	Cd 228.802	538.0	448.3	0.0035	mg/L	0.1769	ppm
1	Co 228.616	7923.1	8339.8	0.0788	mg/L	3.942	ppm
1	Cr 267.716	23697.6	23857.4	0.2593	mg/L	12.97	ppm
1	Cu 324.754	29889.4	27602.4	0.0949	mg/L	4.746	ppm
1	Fe 273.955	8997598.9	8994609.0	180.6	mg/L	9032	ppm
1	Mg 279.079	2833132.8	2832536.7	89.18	mg/L	4459	ppm
1	Mn 257.610	4159488.0	4158367.2	2.620	mg/L	131.0	ppm
1	Mo 202.030	-10.9	17.7	-0.0061	mg/L	-0.3038	ppm
1	Ni 231.604	8304.2	8029.0	0.1587	mg/L	7.933	ppm
1	Pb 220.353	1009.1	824.2	0.0670	mg/L	3.351	ppm
1	Sb 206.833	181.5	120.9	0.0098	mg/L	0.4903	ppm
1	Se 196.026	-14.2	-98.5	0.0089	mg/L	0.4463	ppm
1	Tl 190.800	366.6	178.1	0.0060	mg/L	0.2982	ppm
1	V 292.402	39213.1	39050.3	0.3502	mg/L	17.51	ppm
1	Zn 213.856	212252.9	212836.3	1.988	mg/L	99.41	ppm
2	Ag 328.068	-1867.9	-793.9	-0.0039	mg/L	-0.1968	ppm
2	Al 308.215	5012446.2	5007848.6	137.3	mg/L	6863	ppm
2	As 188.979	145.0	75.5	0.0731	mg/L	3.657	ppm
2	Ba 233.527	238806.0	239671.6	0.6784	mg/L	33.92	ppm
2	Be 313.107	8052.4	8466.6	0.0031	mg/L	0.1528	ppm
2	Ca 227.547	427210.0	426926.6	1637	mg/L	81850	ppm
2	Cd 228.802	503.3	413.6	0.0033	mg/L	0.1632	ppm
2	Co 228.616	7820.8	8237.5	0.0779	mg/L	3.893	ppm
2	Cr 267.716	22849.2	23008.9	0.2498	mg/L	12.49	ppm
2	Cu 324.754	30573.6	28286.7	0.0973	mg/L	4.863	ppm
2	Fe 273.955	9198285.3	9195295.5	184.7	mg/L	9233	ppm
2	Mg 279.079	2866726.4	2866130.3	90.24	mg/L	4512	ppm
2	Mn 257.610	4211211.5	4210090.8	2.652	mg/L	132.6	ppm
2	Mo 202.030	-42.7	-14.2	-0.0079	mg/L	-0.3959	ppm
2	Ni 231.604	8154.8	7879.6	0.1557	mg/L	7.785	ppm
2	Pb 220.353	1036.7	851.8	0.0692	mg/L	3.458	ppm
2	Sb 206.833	179.8	119.2	0.0094	mg/L	0.4693	ppm
2	Se 196.026	-139.2	-223.5	-0.0355	mg/L	-1.777	ppm
2	Tl 190.800	312.9	124.4	-0.0108	mg/L	-0.5401	ppm
2	V 292.402	39469.9	39307.1	0.3525	mg/L	17.63	ppm
2	Zn 213.856	218322.9	218906.3	2.045	mg/L	102.3	ppm
3	Ag 328.068	-2016.3	-942.3	-0.0047	mg/L	-0.2336	ppm
3	Al 308.215	4969138.8	4964541.3	136.1	mg/L	6804	ppm
3	As 188.979	139.1	69.7	0.0709	mg/L	3.543	ppm
3	Ba 233.527	240227.5	241093.1	0.6825	mg/L	34.12	ppm
3	Be 313.107	7925.5	8339.8	0.0030	mg/L	0.1505	ppm
3	Ca 227.547	426499.2	426215.8	1634	mg/L	81710	ppm
3	Cd 228.802	464.3	374.5	0.0030	mg/L	0.1478	ppm
3	Co 228.616	7944.7	8361.4	0.0790	mg/L	3.952	ppm
3	Cr 267.716	23099.4	23259.2	0.2526	mg/L	12.63	ppm
3	Cu 324.754	30691.2	28404.2	0.0976	mg/L	4.878	ppm
3	Fe 273.955	9136654.1	9133664.3	183.4	mg/L	9171	ppm

3 Mg 279.079	2869180.3	2868584.1	90.32 mg/L	4516 ppm
3 Mn 257.610	4202536.7	4201416.0	2.647 mg/L	132.3 ppm
3 Mo 202.030	-5.6	22.9	-0.0059 mg/L	-0.2953 ppm
3 Ni 231.604	8264.5	7989.3	0.1579 mg/L	7.893 ppm
3 Pb 220.353	913.1	728.2	0.0608 mg/L	3.041 ppm
3 Sb 206.833	101.7	41.0	-0.0093 mg/L	-0.4654 ppm
3 Se 196.026	-33.4	-117.7	0.0026 mg/L	0.1306 ppm
3 Tl 190.800	339.2	150.7	-0.0028 mg/L	-0.1402 ppm
3 V 292.402	39408.8	39246.1	0.3520 mg/L	17.60 ppm
3 Zn 213.856	217678.3	218261.7	2.039 mg/L	102.0 ppm

ean Data ----------

: 6148-1 D F=50 Seq. No.: 45 Sample No.: 29 A/S Pos: 37
mple Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 1:38:07 PM

ement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
328.068	-919.0	-0.0046	0.00057	mg/L	-0.2278	0.02855	ppm	12.53%
l 308.215	4944324.3	135.5	2.07	mg/L	6776	103.7	ppm	1.53%
188.979	68.7	0.0703	0.00316	mg/L	3.514	0.1581	ppm	4.50%
233.527	239354.1	0.6775	0.00543	mg/L	33.88	0.271	ppm	0.80%
313.107	8464.0	0.0031	0.00004	mg/L	0.1527	0.00222	ppm	1.45%
a 227.547	424260.7	1627	15.4	mg/L	81340	770.5	ppm	0.95%
d 228.802	412.1	0.0033	0.00029	mg/L	0.1626	0.01455	ppm	8.95%
228.616	8312.9	0.0786	0.00063	mg/L	3.929	0.0313	ppm	0.80%
267.716	23375.2	0.2539	0.00487	mg/L	12.70	0.244	ppm	1.92%
u 324.754	28097.8	0.0966	0.00145	mg/L	4.829	0.0723	ppm	1.50%
e 273.955	9107856.3	182.9	2.06	mg/L	9145	103.2	ppm	1.13%
279.079	2855750.4	89.91	0.634	mg/L	4496	31.7	ppm	0.71%
257.610	4189958.0	2.640	0.0175	mg/L	132.0	0.87	ppm	0.66%
o 202.030	8.8	-0.0066	0.00112	mg/L	-0.3317	0.05579	ppm	16.82%
i 231.604	7965.9	0.1574	0.00153	mg/L	7.870	0.0765	ppm	0.97%
220.353	801.4	0.0657	0.00433	mg/L	3.283	0.2163	ppm	6.59%
206.833	93.7	0.0033	0.01092	mg/L	0.1647	0.54578	ppm	331.29%
196.026	-146.5	-0.0080	0.02405	mg/L	-0.3999	1.20265	ppm	300.73%
l 190.800	151.0	-0.0025	0.00839	mg/L	-0.1274	0.41926	ppm	329.15%
292.402	39201.2	0.3516	0.00120	mg/L	17.58	0.060	ppm	0.34%
213.856	216668.1	2.024	0.0312	mg/L	101.2	1.56	ppm	1.54%

atrix Check Sample: 6148-1 D F=50

lement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	Relative % Diff.
q 328.068	-0.0038	-0.0046	0.001	mg/L	-19.185
308.215	134.4	135.5	2.074	mg/L	0.847
188.979	0.0635	0.0703	0.003	mg/L	10.141
a 233.527	0.6875	0.6775	0.005	mg/L	1.461
e 313.107	0.0033	0.0031	0.000	mg/L	6.352
227.547	1653	1627	15.411	mg/L	1.599
228.802	0.0030	0.0033	0.000	mg/L	7.841
o 228.616	0.0769	0.0786	0.001	mg/L	2.157
r 267.716	0.2504	0.2539	0.005	mg/L	1.413
324.754	0.0993	0.0966	0.001	mg/L	2.758
273.955	183.4	182.9	2.064	mg/L	0.282
y 279.079	90.34	89.91	0.634	mg/L	0.476
n 257.610	2.631	2.640	0.017	mg/L	0.318
202.030	-0.0038	-0.0066	0.001	mg/L	-53.352
231.604	0.1571	0.1574	0.002	mg/L	0.178
220.353	0.0679	0.0657	0.004	mg/L	3.391
b 206.833	-0.0048	0.0033	0.011	mg/L	-1052.673
e 196.026	0.0125	-0.0080	0.024	mg/L	911.270
190.800	0.0044	-0.0025	0.008	mg/L	757.039
292.402	0.3602	0.3516	0.001	mg/L	2.427
n 213.856	2.021	2.024	0.031	mg/L	0.158

plicate Data ----------

: 6148-1 1/5 F=250 Date: 11/21/02 1:41:02 PM

pl# Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units

1	Ag 328.068	-1233.9	-160.0	-0.0008	mg/L	-0.1982 ppm
1	Al 308.215	1033387.6	1028790.1	28.20	mg/L	7049 ppm
1	As 188.979	72.2	2.8	0.0100	mg/L	2.510 ppm
1	Ba 233.527	52091.1	52956.7	0.1499	mg/L	37.48 ppm
1	Be 313.107	1405.1	1819.4	0.0007	mg/L	0.1642 ppm
1	Ca 227.547	89909.9	89626.4	342.8	mg/L	85700 ppm
1	Cd 228.802	161.7	72.0	0.0006	mg/L	0.1420 ppm
1	Co 228.616	1452.4	1869.1	0.0177	mg/L	4.417 ppm
1	Cr 267.716	4789.9	4949.7	0.0547	mg/L	13.68 ppm
1	Cu 324.754	7976.9	5690.0	0.0179	mg/L	4.465 ppm
1	Fe 273.955	2035069.6	2032079.8	40.81	mg/L	10200 ppm
1	Mg 279.079	634914.7	634318.5	19.97	mg/L	4993 ppm
1	Mn 257.610	929102.7	927982.0	0.5846	mg/L	146.2 ppm
1	Mo 202.030	-11.6	16.9	0.0009	mg/L	0.2239 ppm
1	Ni 231.604	2093.8	1818.5	0.0359	mg/L	8.984 ppm
1	Pb 220.353	361.9	177.0	0.0146	mg/L	3.653 ppm
1	Sb 206.833	64.0	3.3	0.0008	mg/L	0.1987 ppm
1	Se 196.026	52.4	-31.9	-0.0013	mg/L	-0.3370 ppm
1	Tl 190.800	219.7	31.2	-0.0011	mg/L	-0.2664 ppm
1	V 292.402	8627.0	8464.3	0.0759	mg/L	18.98 ppm
1	Zn 213.856	47067.9	47651.3	0.4451	mg/L	111.3 ppm
2	Ag 328.068	-1076.3	-2.3	0.0000	mg/L	-0.0029 ppm
2	Al 308.215	1037819.4	1033221.8	28.32	mg/L	7080 ppm
2	As 188.979	76.2	6.8	0.0115	mg/L	2.876 ppm
2	Ba 233.527	51768.4	52634.0	0.1490	mg/L	37.25 ppm
2	Be 313.107	1348.5	1762.7	0.0006	mg/L	0.1590 ppm
2	Ca 227.547	89406.3	89122.9	340.9	mg/L	85220 ppm
2	Cd 228.802	151.5	61.8	0.0005	mg/L	0.1219 ppm
2	Co 228.616	1447.7	1864.4	0.0176	mg/L	4.406 ppm
2	Cr 267.716	4812.9	4972.7	0.0550	mg/L	13.75 ppm
2	Cu 324.754	7993.5	5706.6	0.0179	mg/L	4.478 ppm
2	Fe 273.955	2033175.0	2030185.2	40.77	mg/L	10190 ppm
2	Mg 279.079	628422.7	627826.6	19.77	mg/L	4942 ppm
2	Mn 257.610	917698.4	916577.7	0.5775	mg/L	144.4 ppm
2	Mo 202.030	-28.7	-0.2	0.0000	mg/L	-0.0031 ppm
2	Ni 231.604	2055.4	1780.2	0.0352	mg/L	8.794 ppm
2	Pb 220.353	349.9	165.0	0.0138	mg/L	3.454 ppm
2	Sb 206.833	80.2	19.6	0.0047	mg/L	1.171 ppm
2	Se 196.026	55.7	-28.6	-0.0002	mg/L	-0.0454 ppm
2	Tl 190.800	219.8	31.2	-0.0011	mg/L	-0.2669 ppm
2	V 292.402	8626.6	8463.8	0.0759	mg/L	18.98 ppm
2	Zn 213.856	47225.8	47809.2	0.4466	mg/L	111.6 ppm
3	Ag 328.068	-1231.7	-157.7	-0.0008	mg/L	-0.1954 ppm
3	Al 308.215	1028602.9	1024005.4	28.07	mg/L	7017 ppm
3	As 188.979	74.8	5.4	0.0110	mg/L	2.744 ppm
3	Ba 233.527	51519.3	52384.9	0.1483	mg/L	37.07 ppm
3	Be 313.107	1388.1	1802.4	0.0007	mg/L	0.1626 ppm
3	Ca 227.547	89504.0	89220.5	341.2	mg/L	85310 ppm
3	Cd 228.802	161.4	71.6	0.0006	mg/L	0.1413 ppm
3	Co 228.616	1428.8	1845.5	0.0174	mg/L	4.361 ppm
3	Cr 267.716	4791.8	4951.6	0.0548	mg/L	13.69 ppm
3	Cu 324.754	8167.0	5880.1	0.0185	mg/L	4.615 ppm
3	Fe 273.955	2014144.0	2011154.2	40.39	mg/L	10100 ppm
3	Mg 279.079	627767.2	627171.1	19.75	mg/L	4937 ppm
3	Mn 257.610	915808.1	914687.4	0.5763	mg/L	144.1 ppm
3	Mo 202.030	-22.7	5.9	0.0003	mg/L	0.0775 ppm
3	Ni 231.604	2042.3	1767.1	0.0349	mg/L	8.729 ppm
3	Pb 220.353	372.3	187.4	0.0153	mg/L	3.824 ppm
3	Sb 206.833	74.3	13.7	0.0033	mg/L	0.8199 ppm
3	Se 196.026	56.6	-27.7	0.0001	mg/L	0.0158 ppm
3	Tl 190.800	217.4	28.9	-0.0017	mg/L	-0.4165 ppm
3	V 292.402	8448.0	8285.3	0.0743	mg/L	18.58 ppm
3	Zn 213.856	47601.8	48185.2	0.4502	mg/L	112.5 ppm

ean Data ----------

): 6148-1 1/5 F=250 Seq. No.: 46 Sample No.: 30 A/S Pos: 38

ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 250.0

Data: Original Date: 11/21/02 1:41:02 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	-106.7	-0.0005	0.00045	mg/L	-0.1322	0.11198	ppm	84.72%
l 308.215	1028672.4	28.19	0.126	mg/L	7049	31.6	ppm	0.45%
188.979	5.0	0.0108	0.00074	mg/L	2.710	0.1857	ppm	6.85%
233.527	52658.5	0.1491	0.00081	mg/L	37.27	0.203	ppm	0.54%
e 313.107	1794.8	0.0006	0.00001	mg/L	0.1619	0.00262	ppm	1.62%
a 227.547	89323.3	341.6	1.02	mg/L	85410	255.3	ppm	0.30%
228.802	68.5	0.0005	0.00005	mg/L	0.1351	0.01139	ppm	8.43%
228.616	1859.7	0.0176	0.00012	mg/L	4.395	0.0295	ppm	0.67%
r 267.716	4958.0	0.0548	0.00014	mg/L	13.71	0.035	ppm	0.26%
u 324.754	5758.9	0.0181	0.00033	mg/L	4.519	0.0826	ppm	1.83%
273.955	2024473.1	40.66	0.232	mg/L	10160	58.1	ppm	0.57%
279.079	629772.1	19.83	0.124	mg/L	4957	31.1	ppm	0.63%
257.610	919749.0	0.5795	0.00453	mg/L	144.9	1.13	ppm	0.78%
o 202.030	7.5	0.0004	0.00046	mg/L	0.0994	0.11507	ppm	115.74%
231.604	1788.6	0.0353	0.00053	mg/L	8.836	0.1322	ppm	1.50%
220.353	176.5	0.0146	0.00074	mg/L	3.644	0.1853	ppm	5.08%
206.833	12.2	0.0029	0.00197	mg/L	0.7297	0.49216	ppm	67.45%
e 196.026	-29.4	-0.0005	0.00075	mg/L	-0.1222	0.18847	ppm	154.22%
l 190.800	30.4	-0.0013	0.00035	mg/L	-0.3166	0.08655	ppm	27.34%
292.402	8404.5	0.0754	0.00093	mg/L	18.84	0.231	ppm	1.23%
213.856	47881.9	0.4473	0.00261	mg/L	111.8	0.65	ppm	0.58%

eplicate Data ----------

: 6148-1 MS F=50 Date: 11/21/02 1:44:21 PM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	202349.0	203423.0	1.008	mg/L	50.42	ppm
1	Al 308.215	4890593.6	4885996.0	133.9	mg/L	6696	ppm
1	As 188.979	1443.3	1373.8	0.5789	mg/L	28.94	ppm
1	Ba 233.527	1607545.4	1608411.0	4.553	mg/L	227.6	ppm
1	Be 313.107	561973.0	562387.3	0.2030	mg/L	10.15	ppm
1	Ca 227.547	426445.6	426162.1	1634	mg/L	81690	ppm
1	Cd 228.802	32401.0	32311.3	0.2550	mg/L	12.75	ppm
1	Co 228.616	111326.0	111742.7	1.056	mg/L	52.81	ppm
1	Cr 267.716	109620.3	109780.1	1.209	mg/L	60.47	ppm
1	Cu 324.754	333358.2	331071.3	1.047	mg/L	52.37	ppm
1	Fe 273.955	8918890.2	8915900.3	179.1	mg/L	8953	ppm
1	Mg 279.079	3111903.5	3111307.3	97.96	mg/L	4898	ppm
1	Mn 257.610	5612870.6	5611749.9	3.536	mg/L	176.8	ppm
1	Mo 202.030	36303.1	36331.6	1.918	mg/L	95.88	ppm
1	Ni 231.604	57269.3	56994.1	1.126	mg/L	56.31	ppm
1	Pb 220.353	43426.7	43241.8	2.905	mg/L	145.3	ppm
1	Sb 206.833	2056.7	1996.1	0.4307	mg/L	21.53	ppm
1	Se 196.026	1286.5	1202.2	0.4808	mg/L	24.04	ppm
1	Tl 190.800	1875.6	1687.0	0.4446	mg/L	22.23	ppm
1	V 292.402	257295.0	257132.3	2.306	mg/L	115.3	ppm
1	Zn 213.856	262477.2	263060.6	2.462	mg/L	123.1	ppm
2	Ag 328.068	196870.8	197944.7	0.9812	mg/L	49.06	ppm
2	Al 308.215	4890598.7	4886001.2	133.9	mg/L	6696	ppm
2	As 188.979	1411.2	1341.7	0.5651	mg/L	28.25	ppm
2	Ba 233.527	1569129.2	1569994.8	4.444	mg/L	222.2	ppm
2	Be 313.107	546030.6	546444.8	0.1972	mg/L	9.861	ppm
2	Ca 227.547	413090.9	412807.5	1583	mg/L	79140	ppm
2	Cd 228.802	32919.0	32829.2	0.2591	mg/L	12.96	ppm
2	Co 228.616	108097.8	108514.5	1.026	mg/L	51.29	ppm
2	Cr 267.716	107495.1	107654.9	1.186	mg/L	59.30	ppm
2	Cu 324.754	323122.5	320835.6	1.015	mg/L	50.77	ppm
2	Fe 273.955	8925771.9	8922782.1	179.2	mg/L	8959	ppm
2	Mg 279.079	3097827.2	3097231.1	97.52	mg/L	4876	ppm
2	Mn 257.610	5584514.3	5583393.6	3.518	mg/L	175.9	ppm
2	Mo 202.030	36835.9	36864.4	1.946	mg/L	97.29	ppm
2	Ni 231.604	55638.6	55363.4	1.094	mg/L	54.70	ppm
2	Pb 220.353	42067.4	41882.5	2.814	mg/L	140.7	ppm
2	Sb 206.833	2113.0	2052.4	0.4448	mg/L	22.24	ppm
2	Se 196.026	1330.6	1246.3	0.4969	mg/L	24.85	ppm
2	Tl 190.800	1952.5	1763.9	0.4669	mg/L	23.34	ppm
2	V 292.402	251961.8	251799.1	2.258	mg/L	112.9	ppm

2 Zn 213.856	254069.1	254652.5	2.383	mg/L	119.1 ppm
3 Ag 328.068	196342.8	197416.7	0.9786	mg/L	48.93 ppm
3 Al 308.215	4847491.6	4842894.0	132.7	mg/L	6637 ppm
3 As 188.979	1424.8	1355.3	0.5704	mg/L	28.52 ppm
3 Ba 233.527	1561938.4	1562804.0	4.424	mg/L	221.2 ppm
3 Be 313.107	541137.0	541551.2	0.1954	mg/L	9.772 ppm
3 Ca 227.547	413910.7	413627.2	1586	mg/L	79300 ppm
3 Cd 228.802	32688.3	32598.6	0.2573	mg/L	12.86 ppm
3 Co 228.616	108692.2	109108.9	1.031	mg/L	51.57 ppm
3 Cr 267.716	107777.4	107937.2	1.189	mg/L	59.46 ppm
3 Cu 324.754	322552.4	320265.5	1.013	mg/L	50.67 ppm
3 Fe 273.955	8833170.4	8830180.6	177.3	mg/L	8866 ppm
3 Mg 279.079	3078564.2	3077968.1	96.91	mg/L	4846 ppm
3 Mn 257.610	5574296.4	5573175.7	3.511	mg/L	175.6 ppm
3 Mo 202.030	36439.7	36468.2	1.925	mg/L	96.25 ppm
3 Ni 231.604	55123.1	54847.9	1.084	mg/L	54.19 ppm
3 Pb 220.353	42286.8	42101.9	2.829	mg/L	141.4 ppm
3 Sb 206.833	2080.6	2019.9	0.4371	mg/L	21.86 ppm
3 Se 196.026	1324.8	1240.5	0.4943	mg/L	24.72 ppm
3 Tl 190.800	1943.5	1755.0	0.4647	mg/L	23.24 ppm
3 V 292.402	253188.1	253025.3	2.269	mg/L	113.5 ppm
3 Zn 213.856	254846.2	255429.5	2.390	mg/L	119.5 ppm

ean Data ----------

D: 6148-1 MS F=50 Seq. No.: 47 Sample No.: 31 A/S Pos: 39
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 1:44:21 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	199594.8	0.9894	0.01649	mg/L	49.47	0.824	ppm	1.67%
l 308.215	4871630.4	133.5	0.68	mg/L	6676	34.1	ppm	0.51%
s 188.979	1357.0	0.5714	0.00697	mg/L	28.57	0.349	ppm	1.22%
a 233.527	1580403.3	4.474	0.0694	mg/L	223.7	3.47	ppm	1.55%
e 313.107	550127.7	0.1985	0.00393	mg/L	9.927	0.1966	ppm	1.98%
a 227.547	417532.3	1601	28.6	mg/L	80040	1431.8	ppm	1.79%
d 228.802	32579.7	0.2571	0.00205	mg/L	12.86	0.102	ppm	0.80%
o 228.616	109788.7	1.038	0.0162	mg/L	51.89	0.812	ppm	1.56%
r 267.716	108457.4	1.195	0.0128	mg/L	59.74	0.638	ppm	1.07%
u 324.754	324057.5	1.025	0.0191	mg/L	51.27	0.956	ppm	1.86%
e 273.955	8889621.0	178.5	1.04	mg/L	8926	51.8	ppm	0.58%
g 279.079	3095502.2	97.46	0.527	mg/L	4873	26.3	ppm	0.54%
n 257.610	5589439.7	3.521	0.0126	mg/L	176.1	0.63	ppm	0.36%
o 202.030	36554.7	1.929	0.0146	mg/L	96.47	0.732	ppm	0.76%
i 231.604	55735.1	1.101	0.0221	mg/L	55.07	1.107	ppm	2.01%
o 220.353	42408.7	2.849	0.0489	mg/L	142.5	2.45	ppm	1.72%
o 206.833	2022.8	0.4375	0.00708	mg/L	21.88	0.354	ppm	1.62%
e 196.026	1229.7	0.4907	0.00864	mg/L	24.53	0.432	ppm	1.76%
l 190.800	1735.3	0.4587	0.01228	mg/L	22.94	0.614	ppm	2.68%
292.402	253985.6	2.278	0.0251	mg/L	113.9	1.25	ppm	1.10%
n 213.856	257714.2	2.412	0.0438	mg/L	120.6	2.19	ppm	1.82%

atrix Check Sample: 6148-1 MS F=50

lement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
g 328.068	0.9962	0.9894	0.016	mg/L	99.318
l 308.215	136.4	133.5	0.682	mg/L	-42.482
s 188.979	0.5635	0.5714	0.007	mg/L	101.588
a 233.527	4.688	4.474	0.069	mg/L	94.653
e 313.107	0.2033	0.1985	0.004	mg/L	97.644
a 227.547	1673	1601	28.636	mg/L	-260.216
d 228.802	0.2530	0.2571	0.002	mg/L	101.651
o 228.616	1.077	1.038	0.016	mg/L	96.092
r 267.716	1.250	1.195	0.013	mg/L	94.447
u 324.754	1.099	1.025	0.019	mg/L	92.616
e 273.955	184.4	178.5	1.036	mg/L	-489.964
g 279.079	100.3	97.46	0.527	mg/L	71.194
n 257.610	3.631	3.521	0.013	mg/L	89.008
o 202.030	1.996	1.929	0.015	mg/L	96.665

231.604	1.157	1.101	0.022	mg/L	94.420
220.353	3.068	2.849	0.049	mg/L	92.718
b 206.833	0.4952	0.4375	0.007	mg/L	88.477
e 196.026	0.5125	0.4907	0.009	mg/L	95.638
190.800	0.5044	0.4587	0.012	mg/L	90.870
292.402	2.360	2.278	0.025	mg/L	95.885
n 213.856	2.521	2.412	0.044	mg/L	78.155

plicate Data ----------
: 6148-1 MSD F=50 Date: 11/21/02 1:47:07 PM

pl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	194572.4	195646.4	0.9698	mg/L	48.49	ppm
1	Al 308.215	4714941.4	4710343.8	129.1	mg/L	6455	ppm
1	As 188.979	1394.0	1324.6	0.5581	mg/L	27.90	ppm
1	Ba 233.527	1554744.9	1555610.5	4.403	mg/L	220.2	ppm
1	Be 313.107	543120.4	543534.6	0.1962	mg/L	9.808	ppm
1	Ca 227.547	409808.3	409524.8	1570	mg/L	78510	ppm
1	Cd 228.802	32062.3	31972.5	0.2523	mg/L	12.62	ppm
1	Co 228.616	107637.8	108054.5	1.021	mg/L	51.07	ppm
1	Cr 267.716	105923.7	106083.5	1.169	mg/L	58.44	ppm
1	Cu 324.754	320669.6	318382.6	1.007	mg/L	50.37	ppm
1	Fe 273.955	8652525.2	8649535.4	173.7	mg/L	8685	ppm
1	Mg 279.079	3020643.7	3020047.6	95.09	mg/L	4754	ppm
1	Mn 257.610	5449572.2	5448451.5	3.433	mg/L	171.6	ppm
1	Mo 202.030	36026.0	36054.5	1.903	mg/L	95.16	ppm
1	Ni 231.604	55379.0	55103.8	1.089	mg/L	54.44	ppm
1	Pb 220.353	42050.6	41865.7	2.813	mg/L	140.6	ppm
1	Sb 206.833	2059.8	1999.2	0.4330	mg/L	21.65	ppm
1	Se 196.026	1359.0	1274.7	0.5059	mg/L	25.30	ppm
1	Tl 190.800	1849.8	1661.3	0.4386	mg/L	21.93	ppm
1	V 292.402	248732.0	248569.3	2.229	mg/L	111.5	ppm
1	Zn 213.856	252536.9	253120.3	2.369	mg/L	118.4	ppm
2	Ag 328.068	199467.3	200541.2	0.9941	mg/L	49.71	ppm
2	Al 308.215	4716715.8	4712118.2	129.2	mg/L	6458	ppm
2	As 188.979	1450.4	1381.0	0.5810	mg/L	29.05	ppm
2	Ba 233.527	1590885.9	1591751.5	4.506	mg/L	225.3	ppm
2	Be 313.107	555152.0	555566.2	0.2005	mg/L	10.03	ppm
2	Ca 227.547	420206.1	419922.7	1610	mg/L	80490	ppm
2	Cd 228.802	31501.4	31411.6	0.2479	mg/L	12.40	ppm
2	Co 228.616	110152.9	110569.6	1.045	mg/L	52.26	ppm
2	Cr 267.716	108602.1	108761.8	1.198	mg/L	59.92	ppm
2	Cu 324.754	329324.8	327037.8	1.035	mg/L	51.73	ppm
2	Fe 273.955	8633625.0	8630635.2	173.3	mg/L	8666	ppm
2	Mg 279.079	3004198.2	3003602.1	94.57	mg/L	4728	ppm
2	Mn 257.610	5416377.1	5415256.4	3.412	mg/L	170.6	ppm
2	Mo 202.030	35112.0	35140.5	1.855	mg/L	92.74	ppm
2	Ni 231.604	56594.7	56319.5	1.113	mg/L	55.64	ppm
2	Pb 220.353	42801.7	42616.8	2.863	mg/L	143.2	ppm
2	Sb 206.833	2032.3	1971.6	0.4256	mg/L	21.28	ppm
2	Se 196.026	1238.4	1154.1	0.4620	mg/L	23.10	ppm
2	Tl 190.800	1884.7	1696.2	0.4489	mg/L	22.44	ppm
2	V 292.402	254678.6	254515.8	2.283	mg/L	114.1	ppm
2	Zn 213.856	258249.8	258833.2	2.423	mg/L	121.1	ppm
3	Ag 328.068	195662.3	196736.3	0.9753	mg/L	48.76	ppm
3	Al 308.215	4642147.0	4637549.4	127.1	mg/L	6355	ppm
3	As 188.979	1370.7	1301.2	0.5495	mg/L	27.48	ppm
3	Ba 233.527	1560036.5	1560902.1	4.418	mg/L	220.9	ppm
3	Be 313.107	539315.0	539729.2	0.1948	mg/L	9.739	ppm
3	Ca 227.547	412676.1	412392.6	1581	mg/L	79050	ppm
3	Cd 228.802	32331.4	32241.7	0.2545	mg/L	12.72	ppm
3	Co 228.616	108557.0	108973.7	1.030	mg/L	51.51	ppm
3	Cr 267.716	107344.9	107504.7	1.185	mg/L	59.23	ppm
3	Cu 324.754	323525.7	321238.8	1.016	mg/L	50.81	ppm
3	Fe 273.955	8514541.5	8511551.7	170.9	mg/L	8547	ppm
3	Mg 279.079	2968906.6	2968310.5	93.46	mg/L	4673	ppm
3	Mn 257.610	5370273.3	5369152.5	3.383	mg/L	169.1	ppm
3	Mo 202.030	35895.6	35924.1	1.896	mg/L	94.82	ppm

3 Ni 231.604	55022.8	54747.5	1.082 mg/L	54.09 ppm
3 Pb 220.353	41965.1	41780.2	2.807 mg/L	140.4 ppm
3 Sb 206.833	2094.2	2033.5	0.4409 mg/L	22.05 ppm
3 Se 196.026	1318.4	1234.1	0.4905 mg/L	24.52 ppm
3 Tl 190.800	1862.9	1674.4	0.4431 mg/L	22.16 ppm
3 V 292.402	252508.4	252345.6	2.263 mg/L	113.2 ppm
3 Zn 213.856	253729.1	254312.5	2.380 mg/L	119.0 ppm

lean Data ----------

:D: 6148-1 MSD F=50 Seq. No.: 48 Sample No.: 32 A/S Pos: 40
:ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 1:47:07 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
g 328.068	197641.3	0.9797	0.01274	mg/L	48.99	0.637	ppm	1.30%
l 308.215	4686670.5	128.5	1.17	mg/L	6423	58.3	ppm	0.91%
s 188.979	1335.6	0.5629	0.01626	mg/L	28.14	0.813	ppm	2.89%
a 233.527	1569421.4	4.443	0.0553	mg/L	222.1	2.76	ppm	1.24%
e 313.107	546276.7	0.1972	0.00298	mg/L	9.858	0.1492	ppm	1.51%
a 227.547	413946.7	1587	20.5	mg/L	79350	1027.2	ppm	1.29%
d 228.802	31875.3	0.2516	0.00334	mg/L	12.58	0.167	ppm	1.33%
o 228.616	109199.3	1.032	0.0120	mg/L	51.61	0.602	ppm	1.17%
r 267.716	107450.0	1.184	0.0148	mg/L	59.19	0.741	ppm	1.25%
u 324.754	322219.8	1.019	0.0138	mg/L	50.97	0.692	ppm	1.36%
e 273.955	8597240.7	172.7	1.50	mg/L	8633	75.1	ppm	0.87%
g 279.079	2997320.0	94.37	0.832	mg/L	4719	41.6	ppm	0.88%
n 257.610	5410953.5	3.409	0.0251	mg/L	170.5	1.25	ppm	0.74%
o 202.030	35706.4	1.885	0.0262	mg/L	94.24	1.310	ppm	1.39%
i 231.604	55390.3	1.095	0.0163	mg/L	54.73	0.814	ppm	1.49%
b 220.353	42087.5	2.828	0.0309	mg/L	141.4	1.55	ppm	1.09%
b 206.833	2001.5	0.4332	0.00769	mg/L	21.66	0.384	ppm	1.77%
e 196.026	1221.0	0.4861	0.02229	mg/L	24.31	1.114	ppm	4.59%
l 190.800	1677.3	0.4435	0.00516	mg/L	22.18	0.258	ppm	1.16%
292.402	251810.2	2.258	0.0270	mg/L	112.9	1.35	ppm	1.20%
n 213.856	255422.0	2.391	0.0284	mg/L	119.5	1.42	ppm	1.19%

atrix Check Sample: 6148-1 MSD F=50

lement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
g 328.068	0.9962	0.9797	0.013	mg/L	98.350
l 308.215	136.4	128.5	1.166	mg/L	-295.955
s 188.979	0.5635	0.5629	0.016	mg/L	99.869
a 233.527	4.688	4.443	0.055	mg/L	93.876
e 313.107	0.2033	0.1972	0.003	mg/L	96.949
a 227.547	1673	1587	20.544	mg/L	-329.433
d 228.802	0.2530	0.2516	0.003	mg/L	99.427
o 228.616	1.077	1.032	0.012	mg/L	95.534
r 267.716	1.250	1.184	0.015	mg/L	93.348
u 324.754	1.099	1.019	0.014	mg/L	92.012
e 273.955	184.4	172.7	1.502	mg/L	-1077.127
g 279.079	100.3	94.37	0.832	mg/L	40.281
n 257.610	3.631	3.409	0.025	mg/L	77.763
o 202.030	1.996	1.885	0.026	mg/L	94.429
i 231.604	1.157	1.095	0.016	mg/L	93.739
b 220.353	3.068	2.828	0.031	mg/L	91.992
b 206.833	0.4952	0.4332	0.008	mg/L	87.601
e 196.026	0.5125	0.4861	0.022	mg/L	94.727
l 190.800	0.5044	0.4435	0.005	mg/L	87.829
292.402	2.360	2.258	0.027	mg/L	94.909
n 213.856	2.521	2.391	0.028	mg/L	73.955

eplicate Data ----------

D: 6148-1 PS F=50 Date: 11/21/02 1:49:53 PM

epl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1 Ag 328.068	205268.9	206342.8	1.023	mg/L	51.14	ppm
1 Al 308.215	4708928.2	4704330.6	128.9	mg/L	6447	ppm

1	As 188.979	1495.3	1425.8	0.5976 mg/L	29.88 ppm
1	Ba 233.527	1606723.7	1607589.3	4.551 mg/L	227.5 ppm
1	Be 313.107	565348.2	565762.4	0.2042 mg/L	10.21 ppm
1	Ca 227.547	414311.3	414027.8	1587 mg/L	79370 ppm
1	Cd 228.802	33266.5	33176.7	0.2618 mg/L	13.09 ppm
1	Co 228.616	111832.2	112248.9	1.061 mg/L	53.05 ppm
1	Cr 267.716	109222.4	109382.2	1.205 mg/L	60.26 ppm
1	Cu 324.754	334192.0	331905.1	1.050 mg/L	52.49 ppm
1	Fe 273.955	8602193.8	8599204.0	172.7 mg/L	8635 ppm
1	Mg 279.079	3030795.8	3030199.6	95.41 mg/L	4770 ppm
1	Mn 257.610	5479708.9	5478588.2	3.452 mg/L	172.6 ppm
1	Mo 202.030	37716.6	37745.1	1.993 mg/L	99.64 ppm
1	Ni 231.604	57365.1	57089.9	1.128 mg/L	56.41 ppm
1	Pb 220.353	43736.7	43551.8	2.926 mg/L	146.3 ppm
1	Sb 206.833	2284.6	2223.9	0.4857 mg/L	24.29 ppm
1	Se 196.026	1366.9	1282.6	0.5085 mg/L	25.42 ppm
1	Tl 190.800	1966.3	1777.8	0.4726 mg/L	23.63 ppm
1	V 292.402	256434.3	256271.6	2.298 mg/L	114.9 ppm
1	Zn 213.856	266508.2	267091.6	2.501 mg/L	125.0 ppm
2	Ag 328.068	200381.2	201455.2	0.9986 mg/L	49.93 ppm
2	Al 308.215	4731009.6	4726412.0	129.5 mg/L	6477 ppm
2	As 188.979	1405.5	1336.1	0.5620 mg/L	28.10 ppm
2	Ba 233.527	1568027.0	1568892.6	4.441 mg/L	222.1 ppm
2	Be 313.107	547440.9	547855.1	0.1977 mg/L	9.886 ppm
2	Ca 227.547	404033.5	403750.1	1548 mg/L	77400 ppm
2	Cd 228.802	34037.7	33948.0	0.2679 mg/L	13.40 ppm
2	Co 228.616	109755.2	110171.9	1.041 mg/L	52.07 ppm
2	Cr 267.716	107323.3	107483.1	1.184 mg/L	59.21 ppm
2	Cu 324.754	326368.7	324081.7	1.025 mg/L	51.26 ppm
2	Fe 273.955	8639163.6	8636173.8	173.4 mg/L	8672 ppm
2	Mg 279.079	3032489.2	3031893.1	95.46 mg/L	4773 ppm
2	Mn 257.610	5492498.4	5491377.7	3.460 mg/L	173.0 ppm
2	Mo 202.030	38217.8	38246.3	2.019 mg/L	101.0 ppm
2	Ni 231.604	55360.5	55085.3	1.088 mg/L	54.42 ppm
2	Pb 220.353	42449.0	42264.1	2.839 mg/L	142.0 ppm
2	Sb 206.833	2329.0	2268.3	0.4969 mg/L	24.85 ppm
2	Se 196.026	1373.2	1288.9	0.5110 mg/L	25.55 ppm
2	Tl 190.800	1976.6	1788.0	0.4753 mg/L	23.77 ppm
2	V 292.402	252408.4	252245.6	2.262 mg/L	113.1 ppm
2	Zn 213.856	259907.2	260490.6	2.438 mg/L	121.9 ppm
3	Ag 328.068	207212.9	208286.9	1.033 mg/L	51.63 ppm
3	Al 308.215	4741704.7	4737107.1	129.8 mg/L	6492 ppm
3	As 188.979	1488.8	1419.4	0.5958 mg/L	29.79 ppm
3	Ba 233.527	1614656.4	1615522.0	4.573 mg/L	228.7 ppm
3	Be 313.107	564101.8	564516.0	0.2037 mg/L	10.19 ppm
3	Ca 227.547	420295.6	420012.2	1610 mg/L	80510 ppm
3	Cd 228.802	33409.1	33319.3	0.2630 mg/L	13.15 ppm
3	Co 228.616	113115.8	113532.5	1.073 mg/L	53.66 ppm
3	Cr 267.716	110580.1	110739.9	1.220 mg/L	61.01 ppm
3	Cu 324.754	340417.5	338130.6	1.069 mg/L	53.47 ppm
3	Fe 273.955	8625854.3	8622864.5	173.2 mg/L	8658 ppm
3	Mg 279.079	3050324.1	3049727.9	96.02 mg/L	4801 ppm
3	Mn 257.610	5553100.1	5551979.4	3.498 mg/L	174.9 ppm
3	Mo 202.030	37533.7	37562.2	1.983 mg/L	99.15 ppm
3	Ni 231.604	57424.2	57149.0	1.129 mg/L	56.46 ppm
3	Pb 220.353	43933.0	43748.1	2.939 mg/L	146.9 ppm
3	Sb 206.833	2286.3	2225.6	0.4857 mg/L	24.28 ppm
3	Se 196.026	1273.8	1189.5	0.4748 mg/L	23.74 ppm
3	Tl 190.800	1996.3	1807.8	0.4812 mg/L	24.06 ppm
3	V 292.402	261055.9	260893.2	2.340 mg/L	117.0 ppm
3	Zn 213.856	270549.0	271132.4	2.539 mg/L	126.9 ppm

an Data ----------

): 6148-1 PS F=50 Seq. No.: 49 Sample No.: 33 A/S Pos: 41
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 1:49:53 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
328.068	205361.6	1.018	0.0174	mg/L	50.90	0.872	ppm	1.71%

l 308.215	4722616.6	129.4	0.46 mg/L	6472	22.9 ppm	0.35%
s 188.979	1393.8	0.5852	0.02007 mg/L	29.26	1.004 ppm	3.43%
a 233.527	1597334.6	4.522	0.0706 mg/L	226.1	3.53 ppm	1.56%
e 313.107	559377.8	0.2019	0.00361 mg/L	10.09	0.180 ppm	1.79%
a 227.547	412596.7	1582	31.5 mg/L	79090	1572.7 ppm	1.99%
d 228.802	33481.3	0.2643	0.00324 mg/L	13.21	0.162 ppm	1.23%
o 228.616	111984.4	1.059	0.0160 mg/L	52.93	0.802 ppm	1.51%
r 267.716	109201.7	1.203	0.0181 mg/L	60.16	0.905 ppm	1.50%
u 324.754	331372.5	1.048	0.0221 mg/L	52.41	1.105 ppm	2.11%
e 273.955	8619414.1	173.1	0.38 mg/L	8655	18.8 ppm	0.22%
g 279.079	3037273.5	95.63	0.341 mg/L	4781	17.0 ppm	0.36%
n 257.610	5507315.1	3.470	0.0247 mg/L	173.5	1.24 ppm	0.71%
o 202.030	37851.2	1.998	0.0188 mg/L	99.92	0.938 ppm	0.94%
i 231.604	56441.4	1.115	0.0232 mg/L	55.76	1.161 ppm	2.08%
b 220.353	43188.0	2.901	0.0540 mg/L	145.1	2.70 ppm	1.86%
b 206.833	2239.3	0.4894	0.00648 mg/L	24.47	0.324 ppm	1.32%
e 196.026	1253.7	0.4981	0.02023 mg/L	24.90	1.011 ppm	4.06%
l 190.800	1791.2	0.4764	0.00437 mg/L	23.82	0.219 ppm	0.92%
292.402	256470.1	2.300	0.0388 mg/L	115.0	1.94 ppm	1.69%
n 213.856	266238.2	2.493	0.0507 mg/L	124.6	2.53 ppm	2.03%

atrix Check Sample: 6148-1 PS F=50

lement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
g 328.068	0.9962	1.018	0.017	mg/L	102.177
l 308.215	136.4	129.4	0.458	mg/L	-246.694
s 188.979	0.5635	0.5852	0.020	mg/L	104.331
a 233.527	4.688	4.522	0.071	mg/L	95.851
e 313.107	0.2033	0.2019	0.004	mg/L	99.313
a 227.547	1673	1582	31.454	mg/L	-355.201
d 228.802	0.2530	0.2643	0.003	mg/L	104.497
o 228.616	1.077	1.059	0.016	mg/L	98.167
r 267.716	1.250	1.203	0.018	mg/L	95.284
u 324.754	1.099	1.048	0.022	mg/L	94.887
e 273.955	184.4	173.1	0.376	mg/L	-1032.598
g 279.079	100.3	95.63	0.341	mg/L	52.861
n 257.610	3.631	3.470	0.025	mg/L	83.834
o 202.030	1.996	1.998	0.019	mg/L	100.109
i 231.604	1.157	1.115	0.023	mg/L	95.816
b 220.353	3.068	2.901	0.054	mg/L	94.448
b 206.833	0.4952	0.4894	0.006	mg/L	98.855
e 196.026	0.5125	0.4981	0.020	mg/L	97.116
l 190.800	0.5044	0.4764	0.004	mg/L	94.403
292.402	2.360	2.300	0.039	mg/L	96.999
n 213.856	2.521	2.493	0.051	mg/L	94.348

eplicate Data ----------
D: CCV 1379B Date: 11/21/02 1:52:54 PM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	205402.1	206476.1	1.024	mg/L		
1	Al 308.215	192159.6	187562.0	5.141	mg/L		
1	As 188.979	1399.7	1330.3	0.5159	mg/L		
1	Ba 233.527	1802506.8	1803372.5	5.105	mg/L		
1	Be 313.107	1421019.8	1421434.0	0.5130	mg/L		
1	Ca 227.547	14015.0	13731.6	52.52	mg/L		
1	Cd 228.802	134049.6	133959.8	1.057	mg/L		
1	Co 228.616	224290.4	224707.1	2.124	mg/L		
1	Cr 267.716	45914.9	46074.7	0.5095	mg/L		
1	Cu 324.754	660300.9	658014.0	2.066	mg/L		
1	Fe 273.955	262745.9	259756.0	5.216	mg/L		
1	Mg 279.079	816743.1	816146.9	25.70	mg/L		
1	Mn 257.610	3297978.9	3296858.2	2.077	mg/L		
1	Mo 202.030	39077.9	39106.4	2.072	mg/L		
1	Ni 231.604	108742.0	108466.8	2.143	mg/L		
1	Pb 220.353	7799.5	7614.6	0.5095	mg/L		
1	Sb 206.833	8733.7	8673.0	2.060	mg/L		
1	Se 196.026	1483.7	1399.4	0.5098	mg/L		

1	Tl 190.800	1957.4	1768.9	0.5143 mg/L
1	V 292.402	225086.9	224924.2	2.017 mg/L
1	Zn 213.856	221347.1	221930.5	2.093 mg/L
2	Ag 328.068	196800.7	197874.7	0.9809 mg/L
2	Al 308.215	182711.9	178114.3	4.882 mg/L
2	As 188.979	1385.3	1315.8	0.5102 mg/L
2	Ba 233.527	1834478.2	1835343.8	5.195 mg/L
2	Be 313.107	1448458.0	1448872.2	0.5229 mg/L
2	Ca 227.547	13561.8	13278.3	50.79 mg/L
2	Cd 228.802	129526.1	129436.3	1.022 mg/L
2	Co 228.616	216883.8	217300.5	2.054 mg/L
2	Cr 267.716	44073.7	44233.5	0.4891 mg/L
2	Cu 324.754	678165.6	675878.7	2.122 mg/L
2	Fe 273.955	249568.1	246578.2	4.952 mg/L
2	Mg 279.079	834098.7	833502.6	26.24 mg/L
2	Mn 257.610	3383576.5	3382455.8	2.131 mg/L
2	Mo 202.030	37765.9	37794.4	2.002 mg/L
2	Ni 231.604	104902.0	104626.8	2.067 mg/L
2	Pb 220.353	7793.0	7608.1	0.5091 mg/L
2	Sb 206.833	8682.4	8621.8	2.048 mg/L
2	Se 196.026	1497.9	1413.6	0.5149 mg/L
2	Tl 190.800	1953.4	1764.9	0.5131 mg/L
2	V 292.402	216603.6	216440.9	1.941 mg/L
2	Zn 213.856	214122.5	214705.9	2.025 mg/L
3	Ag 328.068	204104.3	205178.3	1.017 mg/L
3	Al 308.215	189751.3	185153.7	5.075 mg/L
3	As 188.979	1415.8	1346.4	0.5221 mg/L
3	Ba 233.527	1811429.9	1812295.5	5.130 mg/L
3	Be 313.107	1418985.5	1419399.7	0.5123 mg/L
3	Ca 227.547	14011.5	13728.0	52.51 mg/L
3	Cd 228.802	133677.2	133587.5	1.054 mg/L
3	Co 228.616	223447.5	223864.2	2.116 mg/L
3	Cr 267.716	45883.1	46042.9	0.5091 mg/L
3	Cu 324.754	663435.8	661148.9	2.075 mg/L
3	Fe 273.955	257038.8	254049.0	5.102 mg/L
3	Mg 279.079	820491.3	819895.2	25.81 mg/L
3	Mn 257.610	3326596.8	3325476.1	2.095 mg/L
3	Mo 202.030	38694.8	38723.3	2.051 mg/L
3	Ni 231.604	106852.8	106577.6	2.106 mg/L
3	Pb 220.353	7837.9	7653.1	0.5121 mg/L
3	Sb 206.833	8760.2	8699.6	2.066 mg/L
3	Se 196.026	1504.6	1420.4	0.5174 mg/L
3	Tl 190.800	1959.1	1770.5	0.5148 mg/L
3	V 292.402	225251.7	225088.9	2.019 mg/L
3	Zn 213.856	219735.5	220318.9	2.078 mg/L

an Data ----------

D: CCV 1379B Seq. No.: 50 Sample No.: 5 A/S Pos: 6
mple Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 1:52:54 PM

ement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
328.068	203176.3	1.007	0.0230	mg/L				2.28%
308.215	183610.0	5.032	0.1346	mg/L				2.67%
s 188.979	1330.8	0.5161	0.00596	mg/L				1.16%
a 233.527	1817003.9	5.143	0.0467	mg/L				0.91%
313.107	1429902.0	0.5161	0.00594	mg/L				1.15%
227.547	13579.3	51.94	0.997	mg/L				1.92%
d 228.802	132327.9	1.044	0.0198	mg/L				1.90%
o 228.616	221957.2	2.098	0.0383	mg/L				1.83%
267.716	45450.4	0.5026	0.01165	mg/L				2.32%
324.754	665013.9	2.088	0.0299	mg/L				1.43%
e 273.955	253461.1	5.090	0.1327	mg/L				2.61%
g 279.079	823181.6	25.92	0.288	mg/L				1.11%
257.610	3334930.0	2.101	0.0275	mg/L				1.31%
202.030	38541.4	2.042	0.0357	mg/L				1.75%
231.604	106557.1	2.106	0.0379	mg/L				1.80%
o 220.353	7625.3	0.5102	0.00163	mg/L				0.32%
206.833	8664.8	2.058	0.0091	mg/L				0.44%

2	Fe 273.955	12375753.9	12372764.0	248.5	mg/L	12420 ppm
2	Mg 279.079	3178710.1	3178113.9	100.1	mg/L	5003 ppm
2	Mn 257.610	4269323.8	4268203.1	2.689	mg/L	134.5 ppm
2	Mo 202.030	119.2	147.7	-0.0018	mg/L	-0.0911 ppm
2	Ni 231.604	10096.8	9821.6	0.1941	mg/L	9.704 ppm
2	Pb 220.353	1495.3	1310.4	0.0971	mg/L	4.855 ppm
2	Sb 206.833	98.0	37.4	-0.0132	mg/L	-0.6618 ppm
2	Se 196.026	-92.0	-176.3	-0.0002	mg/L	-0.0078 ppm
2	Tl 190.800	354.8	166.3	-0.0121	mg/L	-0.6034 ppm
2	V 292.402	53441.6	53278.9	0.4778	mg/L	23.89 ppm
2	Zn 213.856	192309.1	192892.5	1.793	mg/L	89.65 ppm
3	Ag 328.068	-2563.7	-1489.8	-0.0074	mg/L	-0.3693 ppm
3	Al 308.215	5611901.2	5607303.6	153.7	mg/L	7684 ppm
3	As 188.979	209.2	139.8	0.0778	mg/L	3.890 ppm
3	Ba 233.527	235923.1	236788.7	0.6703	mg/L	33.51 ppm
3	Be 313.107	7468.5	7882.7	0.0028	mg/L	0.1422 ppm
3	Ca 227.547	208372.2	208088.8	801.4	mg/L	40070 ppm
3	Cd 228.802	271.4	181.6	0.0014	mg/L	0.0717 ppm
3	Co 228.616	10626.6	11043.3	0.1044	mg/L	5.220 ppm
3	Cr 267.716	22439.6	22599.4	0.2436	mg/L	12.18 ppm
3	Cu 324.754	44099.9	41812.9	0.1428	mg/L	7.141 ppm
3	Fe 273.955	12568453.2	12565463.3	252.3	mg/L	12620 ppm
3	Mg 279.079	3197331.8	3196735.7	100.7	mg/L	5033 ppm
3	Mn 257.610	4315907.7	4314787.0	2.718	mg/L	135.9 ppm
3	Mo 202.030	51.8	80.3	-0.0055	mg/L	-0.2771 ppm
3	Ni 231.604	9730.4	9455.2	0.1868	mg/L	9.342 ppm
3	Pb 220.353	1484.7	1299.8	0.0966	mg/L	4.830 ppm
3	Sb 206.833	148.1	87.5	-0.0013	mg/L	-0.0641 ppm
3	Se 196.026	-114.4	-198.7	-0.0074	mg/L	-0.3690 ppm
3	Tl 190.800	310.5	121.9	-0.0260	mg/L	-1.302 ppm
3	V 292.402	54390.5	54227.7	0.4863	mg/L	24.32 ppm
3	Zn 213.856	194970.8	195554.2	1.818	mg/L	90.88 ppm

ean Data ----------

D: 6148-2 F=50 Seq. No.: 52 Sample No.: 34 A/S Pos: 42
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 1:59:32 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	-1454.9	-0.0072	0.00078	mg/L	-0.3606	0.03901	ppm	10.82%
l 308.215	5459785.6	149.6	4.38	mg/L	7482	218.8	ppm	2.92%
s 188.979	140.4	0.0779	0.00485	mg/L	3.897	0.2424	ppm	6.22%
a 233.527	236375.4	0.6691	0.00200	mg/L	33.46	0.100	ppm	0.30%
e 313.107	7840.8	0.0028	0.00004	mg/L	0.1415	0.00195	ppm	1.38%
a 227.547	206815.7	796.5	4.85	mg/L	39820	242.6	ppm	0.61%
d 228.802	221.7	0.0017	0.00027	mg/L	0.0875	0.01374	ppm	15.71%
o 228.616	11219.0	0.1061	0.00198	mg/L	5.303	0.0988	ppm	1.86%
r 267.716	22859.1	0.2466	0.00450	mg/L	12.33	0.225	ppm	1.82%
u 324.754	41502.2	0.1416	0.00113	mg/L	7.080	0.0565	ppm	0.80%
e 273.955	12313856.6	247.3	5.74	mg/L	12360	286.8	ppm	2.32%
g 279.079	3192202.5	100.5	0.39	mg/L	5025	19.6	ppm	0.39%
n 257.610	4292163.4	2.704	0.0147	mg/L	135.2	0.73	ppm	0.54%
o 202.030	113.6	-0.0036	0.00187	mg/L	-0.1792	0.09338	ppm	52.11%
i 231.604	9676.1	0.1912	0.00384	mg/L	9.560	0.1921	ppm	2.01%
b 220.353	1293.8	0.0960	0.00152	mg/L	4.800	0.0758	ppm	1.58%
b 206.833	53.9	-0.0091	0.00676	mg/L	-0.4539	0.33784	ppm	74.43%
e 196.026	-175.5	-0.0002	0.00721	mg/L	-0.0082	0.36071	ppm	>999.9%
l 190.800	136.3	-0.0205	0.00744	mg/L	-1.027	0.3721	ppm	36.24%
292.402	53707.0	0.4817	0.00432	mg/L	24.08	0.216	ppm	0.90%
n 213.856	194113.9	1.805	0.0124	mg/L	90.23	0.620	ppm	0.69%

eplicate Data ----------

D: 6148-3 F=50 Date: 11/21/02 2:02:33 PM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-1200.0	-126.0	-0.0006	mg/L	-0.0312	ppm
1	Al 308.215	1971417.0	1966819.4	53.91	mg/L	2695	ppm
1	As 188.979	28.9	-40.6	0.0456	mg/L	2.279	ppm

1	Ba 233.527	145721.6	146587.2	0.4149	mg/L	20.75 ppm
1	Be 313.107	1302.7	1716.9	0.0006	mg/L	0.0310 ppm
1	Ca 227.547	618694.3	618410.8	2365	mg/L	118300 ppm
1	Cd 228.802	394.1	304.4	0.0024	mg/L	0.1201 ppm
1	Co 228,616	2647.9	3064.6	0.0290	mg/L	1.448 ppm
1	Cr 267.716	9983.1	10142.9	0.1122	mg/L	5.608 ppm
1	Cu 324.754	12813.2	10526.2	0.0330	mg/L	1.652 ppm
1	Fe 273.955	3333917.2	3330927.4	66.89	mg/L	3345 ppm
1	Mg 279.079	2200331.9	2199735.8	69.26	mg/L	3463 ppm
1	Mn 257.610	2191372.8	2190252.1	1.380	mg/L	69.00 ppm
1	Mo 202.030	-74.8	-46.3	-0.0025	mg/L	-0.1226 ppm
1	Ni 231.604	3259.0	2983.8	0.0590	mg/L	2.948 ppm
1	Pb 220.353	478.1	293.2	0.0310	mg/L	1.552 ppm
1	Sb 206.833	88.3	27.7	0.0007	mg/L	0.0353 ppm
1	Se 196.026	33.3	-50.9	-0.0023	mg/L	-0.1137 ppm
1	Tl 190.800	272.3	83.8	0.0090	mg/L	0.4495 ppm
1	V 292.402	16069.9	15907.1	0.1427	mg/L	7.133 ppm
1	Zn 213.856	50855.7	51439.1	0.4781	mg/L	23.90 ppm
2	Ag 328.068	-1227.4	-153.4	-0.0008	mg/L	-0.0380 ppm
2	Al 308.215	1901842.0	1897244.4	52.00	mg/L	2600 ppm
2	As 188.979	22.0	-47.4	0.0409	mg/L	2.046 ppm
2	Ba 233.527	144513.0	145378.6	0.4115	mg/L	20.58 ppm
2	Be 313.107	1021.1	1435.3	0.0005	mg/L	0.0259 ppm
2	Ca 227.547	598034.8	597751.3	2286	mg/L	114300 ppm
2	Cd 228.802	394.0	304.2	0.0024	mg/L	0.1201 ppm
2	Co 228.616	2671.0	3087.7	0.0292	mg/L	1.459 ppm
2	Cr 267.716	10166.7	10326.5	0.1142	mg/L	5.709 ppm
2	Cu 324.754	12762.6	10475.7	0.0329	mg/L	1.644 ppm
2	Fe 273.955	3216782.1	3213792.3	64.54	mg/L	3227 ppm
2	Mg 279.079	2126005.5	2125409.3	66.92	mg/L	3346 ppm
2	Mn 257.610	2124324.3	2123203.6	1.338	mg/L	66.88 ppm
2	Mo 202.030	-83.2	-54.7	-0.0029	mg/L	-0.1449 ppm
2	Ni 231.604	3288.3	3013.1	0.0595	mg/L	2.977 ppm
2	Pb 220.353	471.1	286.2	0.0302	mg/L	1.509 ppm
2	Sb 206.833	92.9	32.2	0.0018	mg/L	0.0911 ppm
2	Se 196.026	37.4	-46.9	-0.0014	mg/L	-0.0692 ppm
2	Tl 190.800	274.3	85.8	0.0101	mg/L	0.5050 ppm
2	V 292.402	15969.1	15806.4	0.1418	mg/L	7.088 ppm
2	Zn 213.856	51206.7	51790.1	0.4816	mg/L	24.08 ppm
3	Ag 328 068	-1414.5	-340.6	-0.0017	mg/L	-0.0844 ppm
3	Al 308.215	1912389.7	1907792.1	52.29	mg/L	2614 ppm
3	As 188.979	18.7	-50.8	0.0395	mg/L	1.976 ppm
3	Ba 233.527	146596.1	147461.7	0.4174	mg/L	20.87 ppm
3	Be 313.107	1231.3	1645.5	0.0006	mg/L	0.0297 ppm
3	Ca 227.547	597117.7	596834.2	2283	mg/L	114100 ppm
3	Cd 228.802	405.7	316.0	0.0025	mg/L	0.1247 ppm
3	Co 228.616	2647.6	3064.3	0.0290	mg/L	1.448 ppm
3	Cr 267.716	10312.5	10472.3	0.1158	mg/L	5.790 ppm
3	Cu 324.754	13113.1	10826.2	0.0340	mg/L	1.699 ppm
3	Fe 273.955	3237622.8	3234632.9	64.96	mg/L	3248 ppm
3	Mg 279.079	2128281.8	2127685.6	66.99	mg/L	3350 ppm
3	Mn 257.610	2121337.6	2120216.9	1.336	mg/L	66.79 ppm
3	Mo 202.030	-79.8	-51.3	-0.0027	mg/L	-0.1359 ppm
3	Ni 231.604	3301.2	3026.0	0.0598	mg/L	2.990 ppm
3	Pb 220.353	496.0	311.1	0.0319	mg/L	1.593 ppm
3	Sb 206.833	93.8	33.2	0.0020	mg/L	0.0995 ppm
3	Se 196.026	45.1	-39.2	0.0015	mg/L	0.0764 ppm
3	Tl 190.800	263.7	75.2	0.0069	mg/L	0.3461 ppm
3	V 292.402	16325.4	16162.6	0.1450	mg/L	7.248 ppm
3	Zn 213.856	51554.3	52137.6	0.4849	mg/L	24.24 ppm

an Data ----------

: 6148-3 F=50 Seq. No.: 53 Sample No.: 35 A/S Pos: 43
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:02:33 PM

ement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-206.7	-0.0010	0.00058	mg/L	-0.0512	0.02894	ppm	56.51%
308.215	1923952.0	52.73	1.028	mg/L	2637	51.4	ppm	1.95%

s 188.979	-46.2	0.0420	0.00317 mg/L	2.100	0.1585 ppm	7.55%
a 233.527	146475.8	0.4146	0.00296 mg/L	20.73	0.148 ppm	0.71%
e 313.107	1599.2	0.0006	0.00005 mg/L	0.0289	0.00264 ppm	9.15%
a 227.547	604332.1	2311	46.7 mg/L	115600	2333.3 ppm	2.02%
d 228.802	308.2	0.0024	0.00005 mg/L	0.1216	0.00266 ppm	2.19%
o 228.616	3072.2	0.0290	0.00013 mg/L	1.452	0.0063 ppm	0.44%
r 267.716	10313.9	0.1140	0.00183 mg/L	5.702	0.0913 ppm	1.60%
u 324.754	10609.4	0.0333	0.00059 mg/L	1.665	0.0297 ppm	1.79%
e 273.955	3259784.2	65.46	1.255 mg/L	3273	62.7 ppm	1.92%
g 279.079	2150943.6	67.72	1.331 mg/L	3386	66.5 ppm	1.97%
n 257.610	2144557.5	1.351	0.0249 mg/L	67.56	1.247 ppm	1.85%
o 202.030	-50.8	-0.0027	0.00022 mg/L	-0.1345	0.01121 ppm	8.34%
i 231.604	3007.7	0.0594	0.00043 mg/L	2.972	0.0214 ppm	0.72%
b 220.353	296.9	0.0310	0.00083 mg/L	1.551	0.0417 ppm	2.69%
b 206.833	31.0	0.0015	0.00070 mg/L	0.0753	0.03488 ppm	46.32%
e 196.026	-45.7	-0.0007	0.00199 mg/L	-0.0355	0.09948 ppm	280.13%
l 190.800	81.6	0.0087	0.00161 mg/L	0.4335	0.08061 ppm	18.59%
292.402	15958.7	0.1431	0.00165 mg/L	7.156	0.0824 ppm	1.15%
n 213.856	51789.0	0.4815	0.00340 mg/L	24.08	0.170 ppm	0.71%

eplicate Data ----------

D: 6148-4 F=50 Date: 11/21/02 2:06:10 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1325.1	-251.1	-0.0012	mg/L	-0.0622	ppm
1	Al 308.215	1815884.8	1811287.2	49.64	mg/L	2482	ppm
1	As 188.979	1.3	-68.1	0.0295	mg/L	1.473	ppm
1	Ba 233.527	149944.5	150810.1	0.4269	mg/L	21.34	ppm
1	Be 313.107	1638.5	2052.7	0.0007	mg/L	0.0370	ppm
1	Ca 227.547	564492.1	564208.7	2158	mg/L	107900	ppm
1	Cd 228.802	407.2	317.5	0.0025	mg/L	0.1253	ppm
1	Co 228.616	2413.3	2830.0	0.0268	mg/L	1.338	ppm
1	Cr 267.716	10247.1	10406.9	0.1151	mg/L	5.754	ppm
1	Cu 324.754	10428.8	8141.8	0.0256	mg/L	1.278	ppm
1	Fe 273.955	2855660.5	2852670.6	57.29	mg/L	2864	ppm
1	Mg 279.079	2039058.7	2038462.6	64.18	mg/L	3209	ppm
1	Mn 257.610	2322348.3	2321227.6	1.462	mg/L	73.12	ppm
1	Mo 202.030	-73.6	-45.1	-0.0024	mg/L	-0.1195	ppm
1	Ni 231.604	2959.5	2684.3	0.0530	mg/L	2.652	ppm
1	Pb 220.353	413.5	228.6	0.0257	mg/L	1.287	ppm
1	Sb 206.833	80.6	20.0	-0.0008	mg/L	-0.0423	ppm
1	Se 196.026	43.6	-40.7	-0.0011	mg/L	-0.0568	ppm
1	Tl 190.800	266.1	77.6	0.0090	mg/L	0.4503	ppm
1	V 292.402	12099.7	11936.9	0.1071	mg/L	5.353	ppm
1	Zn 213.856	15120.8	15704.2	0.1421	mg/L	7.103	ppm
2	Ag 328.068	-1364.3	-290.3	-0.0014	mg/L	-0.0720	ppm
2	Al 308.215	1825692.0	1821094.4	49.91	mg/L	2496	ppm
2	As 188.979	15.6	-53.8	0.0358	mg/L	1.790	ppm
2	Ba 233.527	146385.7	147251.4	0.4168	mg/L	20.84	ppm
2	Be 313.107	1516.2	1930.5	0.0007	mg/L	0.0348	ppm
2	Ca 227.547	573226.4	572942.9	2191	mg/L	109600	ppm
2	Cd 228.802	420.3	330.5	0.0026	mg/L	0.1304	ppm
2	Co 228.616	2379.6	2796.3	0.0264	mg/L	1.322	ppm
2	Cr 267.716	10098.4	10258.2	0.1134	mg/L	5.672	ppm
2	Cu 324.754	10391.8	8104.8	0.0254	mg/L	1.272	ppm
2	Fe 273.955	2854860.3	2851870.4	57.27	mg/L	2864	ppm
2	Mg 279.079	2054218.9	2053622.8	64.66	mg/L	3233	ppm
2	Mn 257.610	2345025.8	2343905.1	1.477	mg/L	73.84	ppm
2	Mo 202.030	-86.2	-57.7	-0.0031	mg/L	-0.1527	ppm
2	Ni 231.604	2965.0	2689.7	0.0531	mg/L	2.657	ppm
2	Pb 220.353	411.5	226.6	0.0257	mg/L	1.287	ppm
2	Sb 206.833	93.3	32.7	0.0022	mg/L	0.1117	ppm
2	Se 196.026	34.8	-49.5	-0.0043	mg/L	-0.2169	ppm
2	Tl 190.800	284.1	95.5	0.0142	mg/L	0.7116	ppm
2	V 292.402	11820.1	11657.4	0.1046	mg/L	5.228	ppm
2	Zn 213.856	15083.3	15666.7	0.1417	mg/L	7.085	ppm
3	Ag 328.068	-1325.6	-251.6	-0.0012	mg/L	-0.0624	ppm
3	Al 308.215	1799818.7	1795221.1	49.20	mg/L	2460	ppm

3	As 188.979	14.4	-55.0	0.0346	mg/L	1.728 ppm
3	Ba 233.527	146957.7	147823.3	0.4184	mg/L	20.92 ppm
3	Be 313.107	1521.5	1935.7	0.0007	mg/L	0.0349 ppm
3	Ca 227.547	565297.3	565013.9	2161	mg/L	108000 ppm
3	Cd 228.802	404.8	315.1	0.0025	mg/L	0.1243 ppm
3	Co 228.616	2419.8	2836.5	0.0268	mg/L	1.341 ppm
3	Cr 267.716	10145.3	10305.1	0.1139	mg/L	5.697 ppm
3	Cu 324.754	10598.6	8311.7	0.0261	mg/L	1.305 ppm
3	Fe 273.955	2821158.1	2818168.2	56.59	mg/L	2830 ppm
3	Mg 279.079	2026794.9	2026198.8	63.80	mg/L	3190 ppm
3	Mn 257.610	2319782.5	2318661.8	1.461	mg/L	73.04 ppm
3	Mo 202.030	-89.0	-60.5	-0.0032	mg/L	-0.1602 ppm
3	Ni 231.604	2990.0	2714.8	0.0536	mg/L	2.682 ppm
3	Pb 220.353	425.4	240.5	0.0265	mg/L	1.326 ppm
3	Sb 206.833	100.4	39.7	0.0039	mg/L	0.1970 ppm
3	Se 196.026	34.4	-49.9	-0.0046	mg/L	-0.2320 ppm
3	Tl 190.800	266.9	78.3	0.0094	mg/L	0.4703 ppm
3	V 292.402	11775.1	11612.4	0.1041	mg/L	5.207 ppm
3	Zn 213.856	15235.6	15819.0	0.1432	mg/L	7.161 ppm

ean Data ----------

: 6148-4 F=50 Seq. No.: 54 Sample No.: 36 A/S Pos: 44
mple Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:06:10 PM

	ement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g	328.068	-264.4	-0.0013	0.00011	mg/L	-0.0655	0.00557	ppm	8.50%
l	308.215	1809200.9	49.59	0.358	mg/L	2479	17.9	ppm	0.72%
	188.979	-59.0	0.0333	0.00336	mg/L	1.664	0.1681	ppm	10.10%
	233.527	148628.3	0.4207	0.00541	mg/L	21.04	0.270	ppm	1.29%
e	313.107	1972.9	0.0007	0.00002	mg/L	0.0356	0.00125	ppm	3.50%
a	227.547	567388.5	2170	18.5	mg/L	108500	923.1	ppm	0.85%
	228.802	321.0	0.0025	0.00007	mg/L	0.1267	0.00328	ppm	2.59%
	228.616	2820.9	0.0267	0.00020	mg/L	1.333	0.0102	ppm	0.76%
	267.716	10323.4	0.1142	0.00084	mg/L	5.708	0.0420	ppm	0.74%
u	324.754	8186.1	0.0257	0.00035	mg/L	1.285	0.0173	ppm	1.35%
e	273.955	2840903.1	57.05	0.395	mg/L	2853	19.8	ppm	0.69%
	279.079	2039428.0	64.21	0.433	mg/L	3211	21.6	ppm	0.67%
	257.610	2327931.5	1.467	0.0088	mg/L	73.33	0.438	ppm	0.60%
o	202.030	-54.4	-0.0029	0.00043	mg/L	-0.1441	0.02168	ppm	15.04%
i	231.604	2696.3	0.0533	0.00032	mg/L	2.664	0.0161	ppm	0.60%
	220.353	231.9	0.0260	0.00045	mg/L	1.300	0.0227	ppm	1.75%
	206.833	30.8	0.0018	0.00243	mg/L	0.0888	0.12128	ppm	136.53%
e	196.026	-46.7	-0.0034	0.00194	mg/L	-0.1686	0.09711	ppm	57.60%
l	190.800	83.8	0.0109	0.00291	mg/L	0.5441	0.14545	ppm	26.73%
	292.402	11735.6	0.1053	0.00158	mg/L	5.263	0.0788	ppm	1.50%
	213.856	15730.0	0.1423	0.00079	mg/L	7.116	0.0394	ppm	0.55%

eplicate Data ----------

: 6148-5 F=50 Date: 11/21/02 2:09:47 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1446.2	-372.3	-0.0018	mg/L	-0.0923	ppm
1	Al 308.215	1493848.8	1489251.2	40.82	mg/L	2041	ppm
1	As 188.979	15.2	-54.2	0.0379	mg/L	1.895	ppm
1	Ba 233.527	145260.2	146125.8	0.4136	mg/L	20.68	ppm
1	Be 313.107	1009.1	1423.3	0.0005	mg/L	0.0257	ppm
1	Ca 227.547	591533.6	591250.2	2261	mg/L	113100	ppm
1	Cd 228.802	396.6	306.9	0.0024	mg/L	0.1211	ppm
1	Co 228.616	2019.9	2436.6	0.0230	mg/L	1.152	ppm
1	Cr 267.716	8259.0	8418.7	0.0931	mg/L	4.655	ppm
1	Cu 324.754	13895.2	11608.3	0.0364	mg/L	1.822	ppm
1	Fe 273.955	2765092.9	2762103.1	55.47	mg/L	2773	ppm
1	Mg 279.079	2210426.2	2209830.1	69.58	mg/L	3479	ppm
1	Mn 257.610	2043790.4	2042669.7	1.287	mg/L	64.35	ppm
1	Mo 202.030	-78.8	-50.3	-0.0027	mg/L	-0.1331	ppm
1	Ni 231.604	3135.9	2860.7	0.0565	mg/L	2.826	ppm
1	Pb 220.353	613.2	428.3	0.0390	mg/L	1.949	ppm
1	Sb 206.833	89.6	29.0	0.0020	mg/L	0.1010	ppm

1	Se 196.026	36.7	-47.6	-0.0036	mg/L	-0.1780	ppm
1	Tl 190.800	274.7	86.2	0.0130	mg/L	0.6511	ppm
1	V 292.402	13302.4	13139.7	0.1178	mg/L	5.892	ppm
1	Zn 213.856	20321.7	20905.1	0.1913	mg/L	9.565	ppm
2	Ag 328.068	-1286.7	-212.7	-0.0011	mg/L	-0.0527	ppm
2	Al 308.215	1517795.1	1513197.5	41.47	mg/L	2074	ppm
2	As 188.979	11.9	-57.5	0.0379	mg/L	1.897	ppm
2	Ba 233.527	143494.3	144359.9	0.4086	mg/L	20.43	ppm
2	Be 313.107	1241.5	1655.7	0.0006	mg/L	0.0299	ppm
2	Ca 227.547	604752.5	604469.0	2312	mg/L	115600	ppm
2	Cd 228.802	406.2	316.5	0.0025	mg/L	0.1249	ppm
2	Co 228.616	2004.8	2421.5	0.0229	mg/L	1.145	ppm
2	Cr 267.716	8046.4	8206.1	0.0907	mg/L	4.537	ppm
2	Cu 324.754	13639.1	11352.2	0.0356	mg/L	1.782	ppm
2	Fe 273.955	2797423.2	2794433.4	56.12	mg/L	2806	ppm
2	Mg 279.079	2245318.0	2244721.9	70.68	mg/L	3534	ppm
2	Mn 257.610	2076916.6	2075795.9	1.308	mg/L	65.39	ppm
2	Mo 202.030	-82.8	-54.3	-0.0029	mg/L	-0.1438	ppm
2	Ni 231.604	3110.2	2835.0	0.0560	mg/L	2.801	ppm
2	Pb 220.353	609.1	424.2	0.0389	mg/L	1.947	ppm
2	Sb 206.833	76.7	16.1	-0.0010	mg/L	-0.0509	ppm
2	Se 196.026	45.0	-39.2	-0.0004	mg/L	-0.0184	ppm
2	Tl 190.800	274.7	86.2	0.0129	mg/L	0.6452	ppm
2	V 292.402	13048.8	12886.1	0.1156	mg/L	5.779	ppm
2	Zn 213.856	20256.4	20839.8	0.1906	mg/L	9.531	ppm
3	Ag 328.068	-1250.2	-176.2	-0.0009	mg/L	-0.0437	ppm
3	Al 308.215	1527759.1	1523161.5	41.75	mg/L	2087	ppm
3	As 188.979	6.7	-62.8	0.0364	mg/L	1.819	ppm
3	Ba 233.527	142614.5	143480.1	0.4061	mg/L	20.31	ppm
3	Be 313.107	1003.5	1417.7	0.0005	mg/L	0.0256	ppm
3	Ca 227.547	609218.9	608935.4	2329	mg/L	116400	ppm
3	Cd 228.802	411.2	321.5	0.0025	mg/L	0.1269	ppm
3	Co 228.616	2051.6	2468.3	0.0233	mg/L	1.167	ppm
3	Cr 267.716	8111.2	8271.0	0.0915	mg/L	4.573	ppm
3	Cu 324.754	14026.9	11740.0	0.0369	mg/L	1.843	ppm
3	Fe 273.955	2808497.4	2805507.6	56.34	mg/L	2817	ppm
3	Mg 279.079	2254665.1	2254068.9	70.97	mg/L	3549	ppm
3	Mn 257.610	2093768.3	2092647.6	1.318	mg/L	65.92	ppm
3	Mo 202.030	-81.2	-52.7	-0.0028	mg/L	-0.1397	ppm
3	Ni 231.604	3142.3	2867.1	0.0567	mg/L	2.833	ppm
3	Pb 220.353	619.5	434.6	0.0397	mg/L	1.985	ppm
3	Sb 206.833	79.3	18.7	-0.0004	mg/L	-0.0216	ppm
3	Se 196.026	34.5	-49.8	-0.0042	mg/L	-0.2075	ppm
3	Tl 190.800	262.7	74.2	0.0094	mg/L	0.4679	ppm
3	V 292.402	13118.1	12955.4	0.1162	mg/L	5.810	ppm
3	Zn 213.856	20455.3	21038.7	0.1925	mg/L	9.623	ppm

ean Data ----------

D: 6148-5 F=50 Seq. No.: 55 Sample No.: 37 A/S Pos: 45
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:09:47 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-253.7	-0.0013	0.00052	mg/L	-0.0629	0.02584	ppm	41.09%
l 308.215	1508536.8	41.35	0.478	mg/L	2067	23.9	ppm	1.16%
s 188.979	-58.2	0.0374	0.00090	mg/L	1.870	0.0448	ppm	2.40%
a 233.527	144655.3	0.4095	0.00381	mg/L	20.47	0.191	ppm	0.93%
e 313.107	1498.9	0.0005	0.00005	mg/L	0.0270	0.00245	ppm	9.06%
a 227.547	601551.5	2301	35.2	mg/L	115000	1758.7	ppm	1.53%
d 228.802	314.9	0.0025	0.00006	mg/L	0.1243	0.00292	ppm	2.35%
o 228.616	2442.1	0.0231	0.00023	mg/L	1.154	0.0113	ppm	0.98%
r 267.716	8298.6	0.0918	0.00120	mg/L	4.588	0.0602	ppm	1.31%
u 324.754	11566.8	0.0363	0.00062	mg/L	1.815	0.0309	ppm	1.70%
e 273.955	2787348.0	55.98	0.453	mg/L	2799	22.6	ppm	0.81%
g 279.079	2236207.0	70.41	0.734	mg/L	3520	36.7	ppm	1.04%
n 257.610	2070371.1	1.304	0.0160	mg/L	65.22	0.801	ppm	1.23%
o 202.030	-52.4	-0.0028	0.00011	mg/L	-0.1389	0.00536	ppm	3.86%
i 231.604	2854.2	0.0564	0.00034	mg/L	2.820	0.0168	ppm	0.59%
o 220.353	429.0	0.0392	0.00043	mg/L	1.960	0.0214	ppm	1.09%

206.833	21.3	0.0002	0.00161 mg/L	0.0095	0.08060 ppm	848.52%
196.026	-45.5	-0.0027	0.00204 mg/L	-0.1346	0.10176 ppm	75.60%
l 190.800	82.2	0.0118	0.00208 mg/L	0.5881	0.10411 ppm	17.70%
292.402	12993.7	0.1165	0.00118 mg/L	5.827	0.0588 ppm	1.01%
213.856	20927.8	0.1915	0.00094 mg/L	9.573	0.0468 ppm	0.49%

eplicate Data ----------
D: 6148-6 F=50 Date: 11/21/02 2:13:25 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-1246.5	-172.5	-0.0009	mg/L	-0.0428	ppm
1	Al 308.215	1408238.5	1403640.9	38.47	mg/L	1924	ppm
1	As 188.979	9.3	-60.1	0.0351	mg/L	1.754	ppm
1	Ba 233.527	147831.0	148696.6	0.4209	mg/L	21.05	ppm
1	Be 313.107	1449.4	1863.6	0.0007	mg/L	0.0336	ppm
1	Ca 227.547	586128.7	585845.2	2241	mg/L	112000	ppm
1	Cd 228.802	361.3	271.5	0.0021	mg/L	0.1072	ppm
1	Co 228.616	1949.6	2366.3	0.0224	mg/L	1.118	ppm
1	Cr 267.716	7227.7	7387.5	0.0817	mg/L	4.084	ppm
1	Cu 324.754	10266.3	7979.4	0.0250	mg/L	1.252	ppm
1	Fe 273.955	2545387.2	2542397.4	51.06	mg/L	2553	ppm
1	Mg 279.079	1975327.7	1974731.5	62.18	mg/L	3109	ppm
1	Mn 257.610	2119095.4	2117974.7	1.334	mg/L	66.72	ppm
1	Mo 202.030	-89.8	-61.3	-0.0032	mg/L	-0.1624	ppm
1	Ni 231.604	2415.0	2139.8	0.0423	mg/L	2.114	ppm
1	Pb 220.353	383.9	199.0	0.0234	mg/L	1.172	ppm
1	Sb 206.833	77.3	16.6	-0.0004	mg/L	-0.0214	ppm
1	Se 196.026	33.8	-50.5	-0.0057	mg/L	-0.2873	ppm
1	Tl 190.800	263.2	74.7	0.0109	mg/L	0.5442	ppm
1	V 292.402	11735.3	11572.6	0.1038	mg/L	5.190	ppm
1	Zn 213.856	17536.9	18120.3	0.1655	mg/L	8.275	ppm
2	Ag 328.068	-1225.3	-151.4	-0.0008	mg/L	-0.0375	ppm
2	Al 308.215	1416802.2	1412204.6	38.71	mg/L	1935	ppm
2	As 188.979	10.4	-59.0	0.0349	mg/L	1.747	ppm
2	Ba 233.527	149061.8	149927.4	0.4244	mg/L	21.22	ppm
2	Be 313.107	1635.9	2050.1	0.0007	mg/L	0.0370	ppm
2	Ca 227.547	580646.7	580363.2	2220	mg/L	111000	ppm
2	Cd 228.802	382.7	292.9	0.0023	mg/L	0.1156	ppm
2	Co 228.616	1895.2	2311.9	0.0219	mg/L	1.093	ppm
2	Cr 267.716	7334.3	7494.1	0.0829	mg/L	4.143	ppm
2	Cu 324.754	10449.6	8162.7	0.0256	mg/L	1.281	ppm
2	Fe 273.955	2557895.8	2554906.0	51.31	mg/L	2565	ppm
2	Mg 279.079	1961162.1	1960566.0	61.73	mg/L	3086	ppm
2	Mn 257.610	2095944.5	2094823.8	1.320	mg/L	65.99	ppm
2	Mo 202.030	-85.2	-56.7	-0.0030	mg/L	-0.1501	ppm
2	Ni 231.604	2359.9	2084.7	0.0412	mg/L	2.060	ppm
2	Pb 220.353	397.2	212.3	0.0243	mg/L	1.214	ppm
2	Sb 206.833	94.2	33.6	0.0036	mg/L	0.1789	ppm
2	Se 196.026	46.9	-37.3	-0.0009	mg/L	-0.0463	ppm
2	Tl 190.800	273.6	85.1	0.0138	mg/L	0.6902	ppm
2	V 292.402	11790.3	11627.6	0.1043	mg/L	5.214	ppm
2	Zn 213.856	17636.7	18220.0	0.1664	mg/L	8.321	ppm
3	Ag 328.068	-1218.8	-144.8	-0.0007	mg/L	-0.0359	ppm
3	Al 308.215	1389980.2	1385382.7	37.97	mg/L	1899	ppm
3	As 188.979	13.9	-55.6	0.0358	mg/L	1.791	ppm
3	Ba 233.527	148921.4	149787.0	0.4240	mg/L	21.20	ppm
3	Be 313.107	1524.8	1939.0	0.0007	mg/L	0.0350	ppm
3	Ca 227.547	576269.8	575986.4	2203	mg/L	110100	ppm
3	Cd 228.802	355.5	265.7	0.0021	mg/L	0.1049	ppm
3	Co 228.616	1900.8	2317.5	0.0219	mg/L	1.095	ppm
3	Cr 267.716	7323.2	7482.9	0.0827	mg/L	4.137	ppm
3	Cu 324.754	10240.5	7953.5	0.0250	mg/L	1.248	ppm
3	Fe 273.955	2508774.4	2505784.5	50.32	mg/L	2516	ppm
3	Mg 279.079	1941258.3	1940662.2	61.10	mg/L	3055	ppm
3	Mn 257.610	2075270.7	2074150.0	1.307	mg/L	65.34	ppm
3	Mo 202.030	-96.2	-67.7	-0.0036	mg/L	-0.1793	ppm
3	Ni 231.604	2356.0	2080.7	0.0411	mg/L	2.056	ppm
3	Pb 220.353	379.9	195.0	0.0230	mg/L	1.151	ppm

3	Sb 206.833	88.3	27.7	0.0042	mg/L	0.2104 ppm
3	Se 196.026	58.8	-25.5	0.0031	mg/L	0.1573 ppm
3	Tl 190.800	262.1	73.5	0.0107	mg/L	0.5343 ppm
3	V 292.402	11641.7	11479.0	0.1030	mg/L	5.148 ppm
3	Zn 213.856	17850.0	18433.4	0.1685	mg/L	8.427 ppm

lean Data ----------

D: 6148-6 F=50 Seq. No.: 56 Sample No.: 38 A/S Pos: 46
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:13:25 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-156.2	-0.0008	0.00007	mg/L	-0.0387	0.00359	ppm	9.26%
l 308.215	1400409.4	38.38	0.375	mg/L	1919	18.8	ppm	0.98%
s 188.979	-58.2	0.0353	0.00047	mg/L	1.764	0.0237	ppm	1.34%
a 233.527	149470.3	0.4231	0.00191	mg/L	21.16	0.095	ppm	0.45%
e 313.107	1950.9	0.0007	0.00003	mg/L	0.0352	0.00169	ppm	4.81%
a 227.547	580731.6	2221	18.9	mg/L	111100	944.6	ppm	0.85%
d 228.802	276.7	0.0022	0.00011	mg/L	0.1092	0.00565	ppm	5.17%
o 228.616	2331.9	0.0220	0.00028	mg/L	1.102	0.0141	ppm	1.28%
r 267.716	7454.8	0.0824	0.00065	mg/L	4.122	0.0324	ppm	0.79%
u 324.754	8031.9	0.0252	0.00036	mg/L	1.261	0.0179	ppm	1.42%
e 273.955	2534362.6	50.90	0.513	mg/L	2545	25.6	ppm	1.01%
g 279.079	1958653.2	61.67	0.539	mg/L	3083	26.9	ppm	0.87%
n 257.610	2095649.5	1.320	0.0138	mg/L	66.02	0.691	ppm	1.05%
o 202.030	-61.9	-0.0033	0.00029	mg/L	-0.1639	0.01464	ppm	8.93%
i 231.604	2101.7	0.0415	0.00065	mg/L	2.077	0.0326	ppm	1.57%
b 220.353	202.1	0.0236	0.00064	mg/L	1.179	0.0320	ppm	2.72%
b 206.833	26.0	0.0025	0.00251	mg/L	0.1227	0.12572	ppm	102.51%
e 196.026	-37.8	-0.0012	0.00445	mg/L	-0.0588	0.22254	ppm	378.74%
l 190.800	77.8	0.0118	0.00175	mg/L	0.5896	0.08727	ppm	14.80%
292.402	11559.7	0.1037	0.00067	mg/L	5.184	0.0337	ppm	0.65%
n 213.856	18257.9	0.1668	0.00155	mg/L	8.341	0.0777	ppm	0.93%

eplicate Data ----------

D: 6148-7 F=50 Date: 11/21/02 2:17:02 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1124.6	-50.7	-0.0003	mg/L	-0.0126	ppm
1	Al 308.215	1461178.7	1456581.1	39.92	mg/L	1996	ppm
1	As 188.979	0.2	-69.3	0.0375	mg/L	1.877	ppm
1	Ba 233.527	159010.5	159876.1	0.4526	mg/L	22.63	ppm
1	Be 313.107	1513.4	1927.6	0.0007	mg/L	0.0348	ppm
1	Ca 227.547	647184.4	646901.0	2474	mg/L	123700	ppm
1	Cd 228.802	426.0	336.3	0.0027	mg/L	0.1327	ppm
1	Co 228.616	1998.4	2415.1	0.0228	mg/L	1.141	ppm
1	Cr 267.716	7721.6	7881.4	0.0871	mg/L	4.357	ppm
1	Cu 324.754	13926.1	11639.2	0.0365	mg/L	1.827	ppm
1	Fe 273.955	2526508.8	2523519.0	50.68	mg/L	2534	ppm
1	Mg 279.079	2148945.0	2148348.9	67.64	mg/L	3382	ppm
1	Mn 257.610	2369918.7	2368798.0	1.492	mg/L	74.62	ppm
1	Mo 202.030	-86.9	-58.3	-0.0031	mg/L	-0.1545	ppm
1	Ni 231.604	2550.3	2275.1	0.0450	mg/L	2.248	ppm
1	Pb 220.353	519.2	334.3	0.0334	mg/L	1.671	ppm
1	Sb 206.833	89.5	28.9	0.0024	mg/L	0.1180	ppm
1	Se 196.026	44.5	-39.8	-0.0021	mg/L	-0.1052	ppm
1	Tl 190.800	270.3	81.7	0.0131	mg/L	0.6529	ppm
1	V 292.402	11427.6	11264.8	0.1010	mg/L	5.052	ppm
1	Zn 213.856	22170.8	22754.2	0.2092	mg/L	10.46	ppm
2	Ag 328.068	-1306.8	-232.8	-0.0012	mg/L	-0.0577	ppm
2	Al 308.215	1398735.2	1394137.6	38.21	mg/L	1911	ppm
2	As 188.979	11.9	-57.5	0.0389	mg/L	1.946	ppm
2	Ba 233.527	151928.6	152794.2	0.4325	mg/L	21.63	ppm
2	Be 313.107	1437.5	1851.7	0.0007	mg/L	0.0334	ppm
2	Ca 227.547	615728.4	615444.9	2354	mg/L	117700	ppm
2	Cd 228.802	429.1	339.3	0.0027	mg/L	0.1339	ppm
2	Co 228.616	2023.3	2440.0	0.0231	mg/L	1.153	ppm
2	Cr 267.716	7452.2	7612.0	0.0842	mg/L	4.208	ppm

2	Cu 324.754	13226.9	10940.0	0.0343	mg/L	1.717 ppm
2	Fe 273.955	2431572.7	2428582.8	48.77	mg/L	2439 ppm
2	Mg 279.079	2061695.9	2061099.7	64.89	mg/L	3245 ppm
2	Mn 257.610	2275726.1	2274605.4	1.433	mg/L	71.65 ppm
2	Mo 202.030	-81.8	-53.3	-0.0028	mg/L	-0.1412 ppm
2	Ni 231.604	2579.7	2304.5	0.0455	mg/L	2.277 ppm
2	Pb 220.353	524.8	339.9	0.0333	mg/L	1.663 ppm
2	Sb 206.833	82.7	22.1	0.0028	mg/L	0.1413 ppm
2	Se 196.026	53.5	-30.7	0.0007	mg/L	0.0372 ppm
2	Tl 190.800	262.6	74.1	0.0112	mg/L	0.5606 ppm
2	V 292.402	11140.7	10977.9	0.0985	mg/L	4.923 ppm
2	Zn 213.856	20774.6	21358.0	0.1963	mg/L	9.814 ppm
3	Ag 328.068	-1128.4	-54.4	-0.0003	mg/L	-0.0135 ppm
3	Al 308.215	1423054.8	1418457.3	38.88	mg/L	1944 ppm
3	As 188.979	1.0	-68.5	0.0355	mg/L	1.777 ppm
3	Ba 233.527	155533.4	156399.0	0.4427	mg/L	22.14 ppm
3	Be 313.107	1417.6	1831.8	0.0007	mg/L	0.0331 ppm
3	Ca 227.547	624073.8	623790.3	2386	mg/L	119300 ppm
3	Cd 228.802	445.5	355.8	0.0028	mg/L	0.1404 ppm
3	Co 228.616	2029.8	2446.5	0.0231	mg/L	1.156 ppm
3	Cr 267.716	7618.2	7777.9	0.0860	mg/L	4.300 ppm
3	Cu 324.754	13604.8	11317.9	0.0355	mg/L	1.776 ppm
3	Fe 273.955	2470654.0	2467664.1	49.56	mg/L	2478 ppm
3	Mg 279.079	2090033.9	2089437.8	65.79	mg/L	3289 ppm
3	Mn 257.610	2293017.1	2291896.4	1.444	mg/L	72.20 ppm
3	Mo 202.030	-90.7	-62.1	-0.0033	mg/L	-0.1646 ppm
3	Ni 231.604	2560.7	2285.5	0.0452	mg/L	2.258 ppm
3	Pb 220.353	533.6	348.7	0.0340	mg/L	1.700 ppm
3	Sb 206.833	86.5	25.9	0.0037	mg/L	0.1846 ppm
3	Se 196.026	43.3	-41.0	-0.0028	mg/L	-0.1400 ppm
3	Tl 190.800	263.5	75.0	0.0113	mg/L	0.5647 ppm
3	V 292.402	11341.5	11178.7	0.1003	mg/L	5.013 ppm
3	Zn 213.856	21792.6	22376.0	0.2058	mg/L	10.29 ppm

an Data ----------

D: 6148-7 F=50 Seq. No.: 57 Sample No.: 39 A/S Pos: 47
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: original Date: 11/21/02 2:17:02 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
328.068	-112.6	-0.0006	0.00052	mg/L	-0.0279	0.02580	ppm	92.43%
308.215	1423058.7	39.00	0.863	mg/L	1950	43.1	ppm	2.21%
s 188.979	-65.1	0.0373	0.00170	mg/L	1.867	0.0849	ppm	4.55%
a 233.527	156356.5	0.4426	0.01002	mg/L	22.13	0.501	ppm	2.26%
313.107	1870.4	0.0007	0.00002	mg/L	0.0338	0.00091	ppm	2.70%
227.547	628712.1	2405	62.3	mg/L	120200	3116.2	ppm	2.59%
228.802	343.8	0.0027	0.00008	mg/L	0.1357	0.00414	ppm	3.05%
o 228.616	2433.9	0.0230	0.00016	mg/L	1.150	0.0078	ppm	0.68%
r 267.716	7757.1	0.0858	0.00150	mg/L	4.289	0.0751	ppm	1.75%
324.754	11299.0	0.0355	0.00110	mg/L	1.773	0.0549	ppm	3.10%
273.955	2473255.3	49.67	0.958	mg/L	2483	47.9	ppm	1.93%
g 279.079	2099628.8	66.11	1.401	mg/L	3305	70.1	ppm	2.12%
n 257.610	2311766.6	1.456	0.0316	mg/L	72.82	1.580	ppm	2.17%
202.030	-57.9	-0.0031	0.00024	mg/L	-0.1534	0.01175	ppm	7.66%
231.604	2288.4	0.0452	0.00029	mg/L	2.261	0.0147	ppm	0.65%
b 220.353	341.0	0.0336	0.00039	mg/L	1.678	0.0196	ppm	1.17%
b 206.833	25.6	0.0030	0.00068	mg/L	0.1479	0.03379	ppm	22.84%
196.026	-37.2	-0.0014	0.00188	mg/L	-0.0693	0.09390	ppm	135.50%
190.800	76.9	0.0119	0.00104	mg/L	0.5927	0.05212	ppm	8.79%
292.402	11140.5	0.0999	0.00132	mg/L	4.996	0.0660	ppm	1.32%
n 213.856	22162.8	0.2038	0.00672	mg/L	10.19	0.336	ppm	3.30%

plicate Data ----------

D: 6148-8 F=50 Date: 11/21/02 2:20:38 PM

pl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1277.1	-203.2	-0.0010	mg/L	-0.0504	ppm
1	Al 308.215	1338075.7	1333478.1	36.55	mg/L	1827	ppm

1	As 188.979	1.3	-68.1	0.0419	mg/L	2.097 ppm
1	Ba 233.527	135869.2	136734.8	0.3871	mg/L	19.35 ppm
1	Be 313.107	884.5	1298.7	0.0005	mg/L	0.0234 ppm
1	Ca 227.547	685099.8	684816.3	2619	mg/L	131000 ppm
1	Cd 228.802	378.9	289.1	0.0023	mg/L	0.1141 ppm
1	Co 228.616	2089.0	2505.7	0.0237	mg/L	1.184 ppm
1	Cr 267.716	7085.1	7244.9	0.0801	mg/L	4.006 ppm
1	Cu 324.754	10288.9	8001.9	0.0251	mg/L	1.256 ppm
1	Fe 273.955	2537767.7	2534777.9	50.90	mg/L	2545 ppm
1	Mg 279.079	2280323.4	2279727.2	71.78	mg/L	3589 ppm
1	Mn 257.610	1878157.2	1877036.5	1.183	mg/L	59.13 ppm
1	Mo 202.030	-96.6	-68.1	-0.0036	mg/L	-0.1803 ppm
1	Ni 231.604	2634.1	2358.9	0.0466	mg/L	2.331 ppm
1	Pb 220.353	509.1	324.2	0.0331	mg/L	1.654 ppm
1	Sb 206.833	86.2	25.6	0.0018	mg/L	0.0881 ppm
1	Se 196.026	43.5	-40.8	-0.0021	mg/L	-0.1065 ppm
1	Tl 190.800	258.8	70.3	0.0103	mg/L	0.5151 ppm
1	V 292.402	11759.2	11596.5	0.1040	mg/L	5.200 ppm
1	Zn 213.856	43908.4	44491.8	0.4142	mg/L	20.71 ppm
2	Ag 328.068	-1088.0	-14.0	-0.0001	mg/L	-0.0035 ppm
2	Al 308.215	1295160.0	1290562.5	35.37	mg/L	1769 ppm
2	As 188.979	6.1	-63.4	0.0419	mg/L	2.096 ppm
2	Ba 233.527	141169.0	142034.7	0.4021	mg/L	20.10 ppm
2	Be 313.107	815.6	1229.8	0.0004	mg/L	0.0222 ppm
2	Ca 227.547	666537.8	666254.3	2548	mg/L	127400 ppm
2	Cd 228.802	383.2	293.4	0.0023	mg/L	0.1158 ppm
2	Co 228.616	2126.2	2542.9	0.0240	mg/L	1.202 ppm
2	Cr 267.716	7381.5	7541.3	0.0834	mg/L	4.169 ppm
2	Cu 324.754	10801.5	8514.6	0.0267	mg/L	1.336 ppm
2	Fe 273.955	2451248.0	2448258.2	49.17	mg/L	2458 ppm
2	Mg 279.079	2212100.4	2211504.3	69.63	mg/L	3482 ppm
2	Mn 257.610	1826812.0	1825691.3	1.150	mg/L	57.51 ppm
2	Mo 202.030	-99.6	-71.1	-0.0038	mg/L	-0.1883 ppm
2	Ni 231.604	2625.0	2349.8	0.0464	mg/L	2.322 ppm
2	Pb 220.353	506.7	321.8	0.0326	mg/L	1.630 ppm
2	Sb 206.833	83.2	22.5	0.0030	mg/L	0.1482 ppm
2	Se 196.026	53.1	-31.2	0.0009	mg/L	0.0447 ppm
2	Tl 190.800	269.6	81.1	0.0138	mg/L	0.6902 ppm
2	V 292.402	12210.6	12047.9	0.1081	mg/L	5.403 ppm
2	Zn 213.856	46583.7	47167.1	0.4396	mg/L	21.98 ppm
3	Ag 328.068	-1144.8	-70.8	-0.0004	mg/L	-0.0176 ppm
3	Al 308.215	1326646.3	1322048.8	36.24	mg/L	1812 ppm
3	As 188.979	8.0	-61.4	0.0443	mg/L	2.215 ppm
3	Ba 233.527	140566.9	141432.5	0.4004	mg/L	20.02 ppm
3	Be 313.107	763.4	1177.6	0.0004	mg/L	0.0213 ppm
3	Ca 227.547	683150.0	682866.6	2612	mg/L	130600 ppm
3	Cd 228.802	386.1	296.3	0.0023	mg/L	0.1169 ppm
3	Co 228.616	2080.0	2496.7	0.0236	mg/L	1.180 ppm
3	Cr 267.716	7536.6	7696.4	0.0851	mg/L	4.255 ppm
3	Cu 324.754	10739.7	8452.8	0.0265	mg/L	1.327 ppm
3	Fe 273.955	2500671.7	2497681.9	50.16	mg/L	2508 ppm
3	Mg 279.079	2260362.5	2259766.4	71.15	mg/L	3557 ppm
3	Mn 257.610	1873060.0	1871939.3	1.179	mg/L	58.97 ppm
3	Mo 202.030	-93.9	-65.4	-0.0035	mg/L	-0.1733 ppm
3	Ni 231.604	2599.0	2323.7	0.0459	mg/L	2.296 ppm
3	Pb 220.353	494.6	309.8	0.0321	mg/L	1.603 ppm
3	Sb 206.833	87.5	26.9	0.0039	mg/L	0.1973 ppm
3	Se 196.026	56.3	-28.0	0.0023	mg/L	0.1153 ppm
3	Tl 190.800	266.8	78.2	0.0128	mg/L	0.6389 ppm
3	V 292.402	12268.9	12106.2	0.1086	mg/L	5.429 ppm
3	Zn 213.856	46560.4	47143.8	0.4393	mg/L	21.97 ppm

ean Data ----------

D: 6148-8 F=50 Seq. No.: 58 Sample No.: 40 A/S Pos: 48
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:20:38 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
g 328.068	-96.0	-0.0005	0.00048	mg/L	-0.0238	0.02406	ppm	101.09%

11845

308.215	1315363.1	36.05	0.609	mg/L	1803	30.5	ppm	1.69%
188.979	-64.3	0.0427	0.00137	mg/L	2.136	0.0683	ppm	3.20%
a 233.527	140067.3	0.3965	0.00821	mg/L	19.82	0.411	ppm	2.07%
e 313.107	1235.4	0.0004	0.00002	mg/L	0.0223	0.00110	ppm	4.92%
227.547	677979.1	2593	39.0	mg/L	129700	1950.7	ppm	1.50%
228.802	293.0	0.0023	0.00003	mg/L	0.1156	0.00144	ppm	1.24%
o 228.616	2515.1	0.0238	0.00023	mg/L	1.189	0.0116	ppm	0.97%
r 267.716	7494.2	0.0829	0.00254	mg/L	4.143	0.1268	ppm	3.06%
324.754	8323.1	0.0261	0.00088	mg/L	1.306	0.0439	ppm	3.36%
273.955	2493572.6	50.08	0.872	mg/L	2504	43.6	ppm	1.74%
g 279.079	2250332.6	70.85	1.104	mg/L	3543	55.2	ppm	1.56%
n 257.610	1858222.4	1.171	0.0178	mg/L	58.54	0.891	ppm	1.52%
o 202.030	-68.2	-0.0036	0.00015	mg/L	-0.1806	0.00748	ppm	4.14%
231.604	2344.2	0.0463	0.00036	mg/L	2.316	0.0180	ppm	0.78%
220.353	318.6	0.0326	0.00051	mg/L	1.629	0.0253	ppm	1.56%
b 206.833	25.0	0.0029	0.00109	mg/L	0.1445	0.05472	ppm	37.86%
e 196.026	-33.3	0.0004	0.00227	mg/L	0.0178	0.11332	ppm	634.93%
190.800	76.5	0.0123	0.00180	mg/L	0.6147	0.09002	ppm	14.64%
292.402	11916.8	0.1069	0.00250	mg/L	5.344	0.1251	ppm	2.34%
n 213.856	46267.6	0.4311	0.01458	mg/L	21.55	0.729	ppm	3.38%

plicate Data ----------
: 6148-9 F=50 Date: 11/21/02 2:24:07 PM

pl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1248.1	-174.1	-0.0009	mg/L	-0.0432	ppm
1	Al 308.215	915834.5	911236.9	24.98	mg/L	1249	ppm
1	As 188.979	-13.2	-82.6	0.0309	mg/L	1.546	ppm
1	Ba 233.527	124877.4	125743.0	0.3559	mg/L	17.80	ppm
1	Be 313.107	1124.3	1538.5	0.0006	mg/L	0.0278	ppm
1	Ca 227.547	632364.7	632081.2	2418	mg/L	120900	ppm
1	Cd 228.802	390.4	300.7	0.0024	mg/L	0.1186	ppm
1	Co 228.616	1078.2	1494.9	0.0141	mg/L	0.7065	ppm
1	Cr 267.716	5641.7	5801.5	0.0641	mg/L	3.207	ppm
1	Cu 324.754	7316.0	5029.1	0.0158	mg/L	0.7893	ppm
1	Fe 273.955	1482180.2	1479190.4	29.71	mg/L	1485	ppm
1	Mg 279.079	1969876.4	1969280.3	62.00	mg/L	3100	ppm
1	Mn 257.610	1779952.8	1778832.1	1.121	mg/L	56.04	ppm
1	Mo 202.030	-110.3	-81.8	-0.0043	mg/L	-0.2166	ppm
1	Ni 231.604	1911.1	1635.9	0.0323	mg/L	1.616	ppm
1	Pb 220.353	305.3	120.4	0.0181	mg/L	0.9039	ppm
1	Sb 206.833	85.9	25.3	0.0060	mg/L	0.3023	ppm
1	Se 196.026	55.4	-28.9	-0.0033	mg/L	-0.1675	ppm
1	Tl 190.800	251.1	62.6	0.0128	mg/L	0.6419	ppm
1	V 292.402	7591.7	7429.0	0.0666	mg/L	3.331	ppm
1	Zn 213.856	10469.5	11052.9	0.1042	mg/L	5.212	ppm
2	Ag 328.068	-971.7	102.2	0.0005	mg/L	0.0253	ppm
2	Al 308.215	904322.3	899724.7	24.66	mg/L	1233	ppm
2	As 188.979	-10.1	-79.5	0.0311	mg/L	1.555	ppm
2	Ba 233.527	123493.5	124359.1	0.3520	mg/L	17.60	ppm
2	Be 313.107	1046.9	1461.1	0.0005	mg/L	0.0264	ppm
2	Ca 227.547	622006.5	621723.1	2378	mg/L	118900	ppm
2	Cd 228.802	383.4	293.6	0.0023	mg/L	0.1159	ppm
2	Co 228.616	1069.5	1486.2	0.0140	mg/L	0.7024	ppm
2	Cr 267.716	5731.0	5890.7	0.0651	mg/L	3.257	ppm
2	Cu 324.754	7272.8	4985.9	0.0157	mg/L	0.7826	ppm
2	Fe 273.955	1472267.1	1469277.3	29.51	mg/L	1475	ppm
2	Mg 279.079	1944479.1	1943883.0	61.20	mg/L	3060	ppm
2	Mn 257.610	1745680.6	1744559.9	1.099	mg/L	54.96	ppm
2	Mo 202.030	-114.5	-86.0	-0.0046	mg/L	-0.2278	ppm
2	Ni 231.604	1876.2	1601.0	0.0316	mg/L	1.582	ppm
2	Pb 220.353	300.4	115.5	0.0176	mg/L	0.8796	ppm
2	Sb 206.833	75.4	14.7	0.0035	mg/L	0.1762	ppm
2	Se 196.026	66.8	-17.5	0.0007	mg/L	0.0363	ppm
2	Tl 190.800	255.8	67.2	0.0142	mg/L	0.7104	ppm
2	V 292.402	7339.9	7177.2	0.0644	mg/L	3.218	ppm
2	Zn 213.856	10500.2	11083.6	0.1045	mg/L	5.227	ppm
3	Ag 328.068	-1172.5	-98.5	-0.0005	mg/L	-0.0244	ppm

3	Al 308.215	921834.4	917236.8	25.14	mg/L	1257 ppm
3	As 188.979	-13.0	-82.5	0.0318	mg/L	1.590 ppm
3	Ba 233.527	125408.1	126273.7	0.3574	mg/L	17.87 ppm
3	Be 313.107	1034.0	1448.2	0.0005	mg/L	0.0261 ppm
3	Ca 227.547	640682.5	640399.1	2449	mg/L	122500 ppm
3	Cd 228.802	390.5	300.7	0.0024	mg/L	0.1187 ppm
3	Co 228.616	1062.9	1479.6	0.0140	mg/L	0.6993 ppm
3	Cr 267.716	5650.7	5810.5	0.0642	mg/L	3.212 ppm
3	Cu 324.754	7616.5	5329.6	0.0167	mg/L	0.8365 ppm
3	Fe 273.955	1484186.4	1481196.5	29.75	mg/L	1487 ppm
3	Mg 279.079	1976868.8	1976272.7	62.22	mg/L	3111 ppm
3	Mn 257.610	1791669.8	1790549.0	1.128	mg/L	56.40 ppm
3	Mo 202.030	-122.5	-94.0	-0.0050	mg/L	-0.2490 ppm
3	Ni 231.604	1867.3	1592.1	0.0315	mg/L	1.573 ppm
3	Pb 220.353	305.3	120.4	0.0182	mg/L	0.9098 ppm
3	Sb 206.833	82.1	21.5	0.0051	mg/L	0.2572 ppm
3	Se 196.026	65.2	-19.1	0.0002	mg/L	0.0099 ppm
3	Tl 190.800	256.7	68.2	0.0145	mg/L	0.7239 ppm
3	V 292.402	7659.3	7496.5	0.0672	mg/L	3.362 ppm
3	Zn 213.856	10494.5	11077.9	0.1045	mg/L	5.224 ppm

ean Data ----------

D: 6148-9 F=50 Seq. No.: 59 Sample No.: 41 A/S Pos: 49
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:24:07 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-56.8	-0.0003	0.00071	mg/L	-0.0141	0.03540	ppm	251.45%
l 308.215	909399.5	24.93	0.244	mg/L	1246	12.2	ppm	0.98%
s 188.979	-81.6	0.0313	0.00047	mg/L	1.564	0.0235	ppm	1.50%
a 233.527	125458.6	0.3551	0.00280	mg/L	17.76	0.140	ppm	0.79%
e 313.107	1482.6	0.0005	0.00002	mg/L	0.0268	0.00088	ppm	3.29%
a 227.547	631401.1	2415	35.8	mg/L	120700	1789.3	ppm	1.48%
d 228.802	298.3	0.0024	0.00003	mg/L	0.1177	0.00160	ppm	1.36%
o 228.616	1486.9	0.0141	0.00007	mg/L	0.7028	0.00362	ppm	0.51%
r 267.716	5834.2	0.0645	0.00054	mg/L	3.226	0.0272	ppm	0.84%
u 324.754	5114.9	0.0161	0.00059	mg/L	0.8028	0.02938	ppm	3.66%
e 273.955	1476554.7	29.65	0.128	mg/L	1483	6.4	ppm	0.43%
g 279.079	1963145.3	61.81	0.537	mg/L	3091	26.8	ppm	0.87%
n 257.610	1771313.7	1.116	0.0151	mg/L	55.80	0.753	ppm	1.35%
o 202.030	-87.3	-0.0046	0.00033	mg/L	-0.2312	0.01648	ppm	7.13%
i 231.604	1609.6	0.0318	0.00046	mg/L	1.590	0.0229	ppm	1.44%
b 220.353	118.8	0.0180	0.00032	mg/L	0.8978	0.01602	ppm	1.78%
b 206.833	20.5	0.0049	0.00128	mg/L	0.2453	0.06388	ppm	26.05%
e 196.026	-21.8	-0.0008	0.00222	mg/L	-0.0404	0.11084	ppm	274.30%
l 190.800	66.0	0.0138	0.00088	mg/L	0.6921	0.04395	ppm	6.35%
292.402	7367.6	0.0661	0.00151	mg/L	3.304	0.0755	ppm	2.28%
n 213.856	11071.5	0.1044	0.00015	mg/L	5.221	0.0077	ppm	0.15%

eplicate Data ----------

D: 6148-10 F=50 Date: 11/21/02 2:27:34 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1251.7	-177.8	-0.0009	mg/L	-0.0441	ppm
1	Al 308.215	1562277.0	1557679.5	42.69	mg/L	2135	ppm
1	As 188.979	-1.3	-70.7	0.0355	mg/L	1.774	ppm
1	Ba 233.527	135086.4	135952.0	0.3848	mg/L	19.24	ppm
1	Be 313.107	948.5	1362.7	0.0005	mg/L	0.0246	ppm
1	Ca 227.547	634055.2	633771.7	2424	mg/L	121200	ppm
1	Cd 228.802	394.6	304.8	0.0024	mg/L	0.1203	ppm
1	Co 228.616	2060.0	2476.7	0.0234	mg/L	1.171	ppm
1	Cr 267.716	8868.9	9028.7	0.0998	mg/L	4.992	ppm
1	Cu 324.754	9162.7	6875.8	0.0216	mg/L	1.079	ppm
1	Fe 273.955	2500375.6	2497385.8	50.15	mg/L	2508	ppm
1	Mg 279.079	2049100.5	2048504.4	64.50	mg/L	3225	ppm
1	Mn 257.610	1843708.7	1842587.9	1.161	mg/L	58.04	ppm
1	Mo 202.030	-102.8	-74.3	-0.0039	mg/L	-0.1968	ppm
1	Ni 231.604	2909.1	2633.8	0.0520	mg/L	2.602	ppm
1	Pb 220.353	315.4	130.5	0.0197	mg/L	0.9873	ppm

1	Sb 206.833	90.5	29.8	0.0042	mg/L	0.2114 ppm
1	Se 196.026	61.6	-22.7	0.0038	mg/L	0.1883 ppm
1	Tl 190.800	264.4	75.9	0.0111	mg/L	0.5531 ppm
1	V 292.402	11461.3	11298.6	0.1013	mg/L	5.067 ppm
1	Zn 213.856	13457.1	14040.5	0.1271	mg/L	6.356 ppm
2	Ag 328.068	-1250.4	-176.5	-0.0009	mg/L	-0.0437 ppm
2	Al 308.215	1554169.8	1549572.2	42.47	mg/L	2124 ppm
2	As 188.979	-1.4	-70.9	0.0342	mg/L	1.710 ppm
2	Ba 233.527	137371.2	138236.8	0.3913	mg/L	19.57 ppm
2	Be 313.107	981.9	1396.1	0.0005	mg/L	0.0252 ppm
2	Ca 227.547	621735.3	621451.8	2377	mg/L	118800 ppm
2	Cd 228.802	396.8	307.0	0.0024	mg/L	0.1212 ppm
2	Co 228.616	2052.4	2469.1	0.0233	mg/L	1.167 ppm
2	Cr 267.716	9230.0	9389.8	0.1038	mg/L	5.191 ppm
2	Cu 324.754	9445.9	7159.0	0.0225	mg/L	1.124 ppm
2	Fe 273.955	2482694.4	2479704.6	49.80	mg/L	2490 ppm
2	Mg 279.079	2017343.9	2016747.8	63.50	mg/L	3175 ppm
2	Mn 257.610	1809907.3	1808786.6	1.140	mg/L	56.98 ppm
2	Mo 202.030	-98.8	-70.3	-0.0037	mg/L	-0.1861 ppm
2	Ni 231.604	2906.5	2631.3	0.0520	mg/L	2.600 ppm
2	Pb 220.353	299.9	115.0	0.0185	mg/L	0.9265 ppm
2	Sb 206.833	79.1	18.5	0.0014	mg/L	0.0701 ppm
2	Se 196.026	51.1	-33.1	-0.0001	mg/L	-0.0064 ppm
2	Tl 190.800	252.3	63.8	0.0076	mg/L	0.3778 ppm
2	V 292.402	11534.3	11371.6	0.1020	mg/L	5.099 ppm
2	Zn 213.856	13440.2	14023.6	0.1270	mg/L	6.350 ppm
3	Ag 328.068	-1182.1	-108.1	-0.0005	mg/L	-0.0268 ppm
3	Al 308.215	1580963.6	1576366.0	43.21	mg/L	2160 ppm
3	As 188.979	-9.1	-78.5	0.0328	mg/L	1.640 ppm
3	Ba 233.527	135863.1	136728.7	0.3870	mg/L	19.35 ppm
3	Be 313.107	968.8	1383.0	0.0005	mg/L	0.0250 ppm
3	Ca 227.547	637415.7	637132.3	2437	mg/L	121800 ppm
3	Cd 228.802	398.0	308.2	0.0024	mg/L	0.1216 ppm
3	Co 228.616	2068.5	2485.2	0.0235	mg/L	1.175 ppm
3	Cr 267.716	8920.9	9080.7	0.1004	mg/L	5.020 ppm
3	Cu 324.754	9390.5	7103.6	0.0223	mg/L	1.115 ppm
3	Fe 273.955	2525356.4	2522366.6	50.65	mg/L	2533 ppm
3	Mg 279.079	2059803.2	2059207.1	64.84	mg/L	3242 ppm
3	Mn 257.610	1846391.3	1845270.6	1.163	mg/L	58.13 ppm
3	Mo 202.030	-111.7	-83.2	-0.0044	mg/L	-0.2205 ppm
3	Ni 231.604	2912.2	2637.0	0.0521	mg/L	2.605 ppm
3	Pb 220.353	311.5	126.6	0.0196	mg/L	0.9780 ppm
3	Sb 206.833	79.9	19.3	-0.0003	mg/L	-0.0161 ppm
3	Se 196.026	32.2	-52.1	-0.0068	mg/L	-0.3398 ppm
3	Tl 190.800	267.6	79.1	0.0119	mg/L	0.5930 ppm
3	V 292.402	11421.7	11259.0	0.1010	mg/L	5.049 ppm
3	Zn 213.856	13651.5	14234.9	0.1289	mg/L	6.445 ppm

an Data ----------

: 6148-10 F=50 Seq. No.: 60 Sample No.: 42 A/S Pos: 50
mple Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:27:34 PM

ement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-154.1	-0.0008	0.00020	mg/L	-0.0382	0.00987	ppm	25.85%
l 308.215	1561205.9	42.79	0.377	mg/L	2140	18.8	ppm	0.88%
188.979	-73.4	0.0342	0.00134	mg/L	1.708	0.0670	ppm	3.92%
233.527	136972.5	0.3877	0.00329	mg/L	19.39	0.164	ppm	0.85%
e 313.107	1380.6	0.0005	0.00001	mg/L	0.0249	0.00030	ppm	1.22%
a 227.547	630785.3	2413	31.6	mg/L	120600	1578.8	ppm	1.31%
228.802	306.7	0.0024	0.00001	mg/L	0.1210	0.00068	ppm	0.57%
228.616	2477.0	0.0234	0.00008	mg/L	1.171	0.0038	ppm	0.33%
r 267.716	9166.4	0.1014	0.00216	mg/L	5.068	0.1079	ppm	2.13%
u 324.754	7046.1	0.0221	0.00047	mg/L	1.106	0.0236	ppm	2.13%
273.955	2499819.0	50.20	0.430	mg/L	2510	21.5	ppm	0.86%
279.079	2041486.4	64.28	0.695	mg/L	3214	34.8	ppm	1.08%
257.610	1832215.0	1.154	0.0128	mg/L	57.72	0.641	ppm	1.11%
o 202.030	-75.9	-0.0040	0.00035	mg/L	-0.2011	0.01760	ppm	8.75%
231.604	2634.0	0.0520	0.00006	mg/L	2.602	0.0028	ppm	0.11%

b 220.353	124.0	0.0193	0.00066 mg/L	0.9639	0.03275 ppm	3.40%
b 206.833	22.5	0.0018	0.00230 mg/L	0.0885	0.11487 ppm	129.83%
e 196.026	-36.0	-0.0011	0.00534 mg/L	-0.0526	0.26704 ppm	507.41%
l 190.800	72.9	0.0102	0.00229 mg/L	0.5080	0.11449 ppm	22.54%
292.402	11309.7	0.1014	0.00051 mg/L	5.072	0.0256 ppm	0.51%
n 213.856	14099.7	0.1277	0.00106 mg/L	6.384	0.0532 ppm	0.83%

eplicate Data ----------

D: CCV 1379B Date: 11/21/02 2:31:10 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc	Sample Units
1	Ag 328.068	198644.6	199718.6	0.9900	mg/L		
1	Al 308.215	185445.3	180847.7	4.957	mg/L		
1	As 188.979	1409.2	1339.7	0.5194	mg/L		
1	Ba 233.527	1771275.4	1772141.0	5.016	mg/L		
1	Be 313.107	1414428.0	1414842.2	0.5106	mg/L		
1	Ca 227.547	14016.3	13732.8	52.52	mg/L		
1	Cd 228.802	131958.5	131868.7	1.041	mg/L		
1	Co 228.616	220268.9	220685.6	2.086	mg/L		
1	Cr 267.716	44186.2	44346.0	0.4904	mg/L		
1	Cu 324.754	651986.0	649699.1	2.039	mg/L		
1	Fe 273.955	249833.8	246843.9	4.957	mg/L		
1	Mg 279.079	808094.1	807497.9	25.42	mg/L		
1	Mn 257.610	3280028.0	3278907.3	2.066	mg/L		
1	Mo 202.030	38285.4	38313.9	2.030	mg/L		
1	Ni 231.604	106793.2	106518.0	2.105	mg/L		
1	Pb 220.353	7760.9	7576.0	0.5069	mg/L		
1	Sb 206.833	8689.8	8629.1	2.050	mg/L		
1	Se 196.026	1461.9	1377.6	0.5019	mg/L		
1	Tl 190.800	1938.4	1749.9	0.5088	mg/L		
1	V 292.402	216957.5	216794.8	1.944	mg/L		
1	Zn 213.856	216009.8	216593.2	2.043	mg/L		
2	Ag 328.068	199839.0	200912.9	0.9960	mg/L		
2	Al 308.215	186766.8	182169.2	4.993	mg/L		
2	As 188.979	1403.3	1333.9	0.5172	mg/L		
2	Ba 233.527	1793179.1	1794044.7	5.078	mg/L		
2	Be 313.107	1424685.7	1425099.9	0.5143	mg/L		
2	Ca 227.547	13973.1	13689.6	52.36	mg/L		
2	Cd 228.802	132523.2	132433.4	1.045	mg/L		
2	Co 228.616	222103.5	222520.2	2.103	mg/L		
2	Cr 267.716	44820.8	44980.6	0.4974	mg/L		
2	Cu 324.754	664541.3	662254.4	2.079	mg/L		
2	Fe 273.955	249321.8	246332.0	4.947	mg/L		
2	Mg 279.079	818278.4	817682.3	25.75	mg/L		
2	Mn 257.610	3330316.7	3329196.0	2.097	mg/L		
2	Mo 202.030	38748.3	38776.8	2.054	mg/L		
2	Ni 231.604	107378.4	107103.2	2.116	mg/L		
2	Pb 220.353	7741.9	7557.0	0.5056	mg/L		
2	Sb 206.833	8694.7	8634.0	2.051	mg/L		
2	Se 196.026	1478.3	1394.0	0.5078	mg/L		
2	Tl 190.800	1939.2	1750.7	0.5090	mg/L		
2	V 292.402	220352.1	220189.3	1.975	mg/L		
2	Zn 213.856	217283.6	217867.0	2.055	mg/L		
3	Ag 328.068	200715.4	201789.4	1.000	mg/L		
3	Al 308.215	186551.8	181954.2	4.987	mg/L		
3	As 188.979	1413.6	1344.1	0.5212	mg/L		
3	Ba 233.527	1750704.6	1751570.2	4.958	mg/L		
3	Be 313.107	1389209.6	1389623.8	0.5015	mg/L		
3	Ca 227.547	14085.6	13802.1	52.79	mg/L		
3	Cd 228.802	132952.8	132863.1	1.049	mg/L		
3	Co 228.616	221988.8	222405.5	2.102	mg/L		
3	Cr 267.716	44861.1	45020.8	0.4978	mg/L		
3	Cu 324.754	643950.5	641663.6	2.014	mg/L		
3	Fe 273.955	249226.6	246236.8	4.945	mg/L		
3	Mg 279.079	797714.4	797118.3	25.10	mg/L		
3	Mn 257.610	3241359.2	3240238.5	2.041	mg/L		
3	Mo 202.030	38458.7	38487.3	2.039	mg/L		
3	Ni 231.604	106645.2	106370.0	2.102	mg/L		

3 Pb 220.353	7766.5	7581.6	0.5073	mg/L
3 Sb 206.833	8777.5	8716.8	2.070	mg/L
3 Se 196.026	1480.8	1396.5	0.5087	mg/L
3 Tl 190.800	1951.8	1763.3	0.5127	mg/L
3 V 292.402	220787.3	220624.5	1.979	mg/L
3 Zn 213.856	216757.6	217341.0	2.050	mg/L

Mean Data ----------

D: CCV 1379B Seq. No.: 61 Sample No.: 5 A/S Pos: 6
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 2:31:10 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	200807.0	0.9954	0.00515	mg/L				0.52%
l 308.215	181657.1	4.979	0.0194	mg/L				0.39%
s 188.979	1339.3	0.5193	0.00197	mg/L				0.38%
a 233.527	1772585.3	5.018	0.0601	mg/L				1.20%
e 313.107	1409855.3	0.5088	0.00659	mg/L				1.29%
a 227.547	13741.5	52.56	0.217	mg/L				0.41%
d 228.802	132388.4	1.045	0.0039	mg/L				0.38%
o 228.616	221870.4	2.097	0.0097	mg/L				0.46%
r 267.716	44782.5	0.4952	0.00419	mg/L				0.85%
u 324.754	651205.7	2.044	0.0326	mg/L				1.59%
e 273.955	246470.9	4.950	0.0066	mg/L				0.13%
g 279.079	807432.8	25.42	0.324	mg/L				1.27%
n 257.610	3282780.6	2.068	0.0281	mg/L				1.36%
o 202.030	38526.0	2.041	0.0124	mg/L				0.61%
i 231.604	106663.7	2.108	0.0077	mg/L				0.36%
b 220.353	7571.5	0.5066	0.00086	mg/L				0.17%
b 206.833	8660.0	2.057	0.0117	mg/L				0.57%
e 196.026	1389.4	0.5061	0.00372	mg/L				0.74%
l 190.800	1754.6	0.5101	0.00218	mg/L				0.43%
292.402	219202.9	1.966	0.0188	mg/L				0.96%
213.856	217267.1	2.049	0.0060	mg/L				0.29%

Replicate Data ----------

ID: CCB Date: 11/21/02 2:34:37 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-1206.0	-132.1	-0.0007	mg/L		
1	Al 308.215	5001.1	403.5	0.0111	mg/L		
1	As 188.979	63.3	-6.1	-0.0023	mg/L		
1	Ba 233.527	-453.7	411.9	0.0012	mg/L		
1	Be 313.107	294.4	708.6	0.0003	mg/L		
1	Ca 227.547	218.0	-65.5	-0.2504	mg/L		
1	Cd 228.802	103.9	14.1	0.0001	mg/L		
1	Co 228.616	-321.0	95.7	0.0009	mg/L		
1	Cr 267.716	-21.4	138.4	0.0015	mg/L		
1	Cu 324.754	2359.4	72.4	0.0002	mg/L		
1	Fe 273.955	2902.4	-87.4	-0.0018	mg/L		
1	Mg 279.079	626.6	30.5	0.0010	mg/L		
1	Mn 257.610	2167.7	1047.0	0.0007	mg/L		
1	Mo 202.030	-10.5	18.0	0.0010	mg/L		
1	Ni 231.604	342.8	67.6	0.0013	mg/L		
1	Pb 220.353	177.7	-7.2	-0.0005	mg/L		
1	Sb 206.833	71.1	10.4	0.0025	mg/L		
1	Se 196.026	80.5	-3.8	-0.0014	mg/L		
1	Tl 190.800	192.1	3.5	0.0010	mg/L		
1	V 292.402	405.8	243.1	0.0022	mg/L		
1	Zn 213.856	-229.3	354.1	0.0033	mg/L		
2	Ag 328.068	-1115.0	-41.0	-0.0002	mg/L		
2	Al 308.215	5234.3	636.7	0.0175	mg/L		
2	As 188.979	70.7	1.2	0.0005	mg/L		
2	Ba 233.527	-717.7	147.9	0.0004	mg/L		
2	Be 313.107	162.9	577.1	0.0002	mg/L		
2	Ca 227.547	347.7	64.3	0.2458	mg/L		
2	Cd 228.802	116.8	27.1	0.0002	mg/L		
2	Co 228.616	-276.3	140.4	0.0013	mg/L		

2	Cr 267.716	-186.3	-26.5	-0.0003 mg/L
2	Cu 324.754	2256.0	-31.0	-0.0001 mg/L
2	Fe 273.955	2640.3	-349.6	-0.0070 mg/L
2	Mg 279.079	644.0	47.9	0.0015 mg/L
2	Mn 257.610	2034.1	913.4	0.0006 mg/L
2	Mo 202.030	-17.5	11.0	0.0006 mg/L
2	Ni 231.604	393.2	117.9	0.0023 mg/L
2	Pb 220.353	186.4	1.5	0.0001 mg/L
2	Sb 206.833	66.1	5.5	0.0013 mg/L
2	Se 196.026	80.1	-4.2	-0.0015 mg/L
2	Tl 190.800	191.8	3.3	0.0010 mg/L
2	V 292.402	252.6	89.9	0.0008 mg/L
2	Zn 213.856	-334.5	248.9	0.0023 mg/L
3	Ag 328.068	-889.6	184.3	0.0009 mg/L
3	Al 308.215	5244.0	646.4	0.0177 mg/L
3	As 188.979	72.5	3.0	0.0012 mg/L
3	Ba 233.527	-728.8	136.8	0.0004 mg/L
3	Be 313.107	35.6	449.9	0.0002 mg/L
3	Ca 227.547	214.9	-68.6	-0.2623 mg/L
3	Cd 228.802	83.8	-5.9	0.0000 mg/L
3	Co 228.616	-295.1	121.6	0.0011 mg/L
3	Cr 267.716	-64.4	95.4	0.0011 mg/L
3	Cu 324.754	2319.1	32.2	0.0001 mg/L
3	Fe 273.955	2446.0	-543.8	-0.0109 mg/L
3	Mg 279.079	698.8	102.6	0.0032 mg/L
3	Mn 257.610	1770.9	650.2	0.0004 mg/L
3	Mo 202.030	-10.2	18.3	0.0010 mg/L
3	Ni 231.604	315.2	40.0	0.0008 mg/L
3	Pb 220.353	184.2	-0.7	0.0000 mg/L
3	Sb 206.833	63.8	3.2	0.0008 mg/L
3	Se 196.026	69.9	-14.4	-0.0052 mg/L
3	Tl 190.800	191.1	2.6	0.0008 mg/L
3	V 292.402	227.2	64.5	0.0006 mg/L
3	Zn 213.856	-381.3	202.1	0.0019 mg/L

ean Data ----------

D: CCB Seq. No.: 62 Sample No.: 6 A/S Pos: 1
ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 2:34:37 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	3.7	0.0000	0.00081	mg/L				>999.9%
l 308.215	562.2	0.0154	0.00377	mg/L				24.46%
s 188.979	-0.6	-0.0002	0.00186	mg/L				774.88%
a 233.527	232.2	0.0007	0.00044	mg/L				67.06%
e 313.107	578.5	0.0002	0.00005	mg/L				22.36%
a 227.547	-23.3	-0.0890	0.29001	mg/L				326.00%
d 228.802	11.8	0.0001	0.00013	mg/L				141.42%
o 228.616	119.2	0.0011	0.00021	mg/L				18.85%
r 267.716	69.1	0.0008	0.00095	mg/L				123.79%
u 324.754	24.6	0.0001	0.00016	mg/L				212.17%
e 273.955	-326.9	-0.0066	0.00460	mg/L				70.05%
g 279.079	60.3	0.0019	0.00119	mg/L				62.40%
n 257.610	870.2	0.0005	0.00013	mg/L				23.20%
o 202.030	15.8	0.0008	0.00022	mg/L				26.14%
i 231.604	75.2	0.0015	0.00078	mg/L				52.58%
b 220.353	-2.1	-0.0001	0.00030	mg/L				211.72%
b 206.833	6.3	0.0015	0.00089	mg/L				58.45%
e 196.026	-7.5	-0.0027	0.00219	mg/L				80.85%
l 190.800	3.1	0.0009	0.00014	mg/L				15.78%
292.402	132.5	0.0012	0.00087	mg/L				72.94%
n 213.856	268.4	0.0025	0.00073	mg/L				29.02%

eplicate Data ----------

D: 6148-11 F=50 Date: 11/21/02 2:38:03 PM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-976.1	97.9	0.0005	mg/L	0.0243	ppm

1	Al 308.215	389521.4	384923.9	10.55	mg/L	527.5 ppm
1	As 188.979	-4.1	-73.5	0.0283	mg/L	1.416 ppm
1	Ba 233.527	62936.6	63802.2	0.1806	mg/L	9.030 ppm
1	Be 313.107	-403.5	10.7	0.0000	mg/L	0.0002 ppm
1	Ca 227.547	568795.9	568512.4	2174	mg/L	108700 ppm
1	Cd 228.802	210.5	120.8	0.0010	mg/L	0.0477 ppm
1	Co 228.616	273.8	690.5	0.0065	mg/L	0.3264 ppm
1	Cr 267.716	2481.1	2640.8	0.0292	mg/L	1.460 ppm
1	Cu 324.754	3838.7	1551.8	0.0049	mg/L	0.2436 ppm
1	Fe 273.955	1049402.8	1046413.0	21.01	mg/L	1051 ppm
1	Mg 279.079	1018302.7	1017706.6	32.04	mg/L	1602 ppm
1	Mn 257.610	1185705.0	1184584.3	0.7463	mg/L	37.32 ppm
1	Mo 202.030	-103.8	-75.3	-0.0040	mg/L	-0.1996 ppm
1	Ni 231.604	1011.5	736.3	0.0146	mg/L	0.7275 ppm
1	Pb 220.353	146.8	-38.1	0.0052	mg/L	0.2614 ppm
1	Sb 206.833	80.3	19.7	0.0047	mg/L	0.2357 ppm
1	Se 196.026	60.7	-23.6	-0.0022	mg/L	-0.1125 ppm
1	Tl 190.800	229.7	41.2	0.0104	mg/L	0.5208 ppm
1	V 292.402	4514.3	4351.6	0.0390	mg/L	1.951 ppm
1	Zn 213.856	5689.4	6272.8	0.0592	mg/L	2.958 ppm
2	Ag 328.068	-1004.9	69.0	0.0003	mg/L	0.0171 ppm
2	Al 308.215	390517.1	385919.5	10.58	mg/L	528.9 ppm
2	As 188.979	-10.3	-79.8	0.0253	mg/L	1.266 ppm
2	Ba 233.527	62772.5	63638.1	0.1801	mg/L	9.007 ppm
2	Be 313.107	-295.3	118.9	0.0000	mg/L	0.0021 ppm
2	Ca 227.547	562863.5	562580.1	2152	mg/L	107600 ppm
2	Cd 228.802	200.5	110.8	0.0009	mg/L	0.0437 ppm
2	Co 228.616	260.1	676.8	0.0064	mg/L	0.3199 ppm
2	Cr 267.716	2494.1	2653.9	0.0293	mg/L	1.467 ppm
2	Cu 324.754	3821.6	1534.7	0.0048	mg/L	0.2409 ppm
2	Fe 273.955	1053644.2	1050654.4	21.10	mg/L	1055 ppm
2	Mg 279.079	1013490.8	1012894.6	31.89	mg/L	1595 ppm
2	Mn 257.610	1172415.6	1171294.9	0.7379	mg/L	36.90 ppm
2	Mo 202.030	-99.5	-71.0	-0.0038	mg/L	-0.1881 ppm
2	Ni 231.604	986.1	710.9	0.0140	mg/L	0.7023 ppm
2	Pb 220.353	143.4	-41.5	0.0049	mg/L	0.2462 ppm
2	Sb 206.833	68.1	7.4	0.0018	mg/L	0.0887 ppm
2	Se 196.026	67.2	-17.1	0.0002	mg/L	0.0076 ppm
2	Tl 190.800	223.5	35.0	0.0095	mg/L	0.4772 ppm
2	V 292.402	4693.1	4530.4	0.0406	mg/L	2.032 ppm
2	Zn 213.856	5705.7	6289.1	0.0593	mg/L	2.966 ppm
3	Ag 328.068	-792.9	281.1	0.0014	mg/L	0.0697 ppm
3	Al 308.215	385876.9	381279.4	10.45	mg/L	522.5 ppm
3	As 188.979	-4.0	-73.5	0.0277	mg/L	1.385 ppm
3	Ba 233.527	62515.8	63381.4	0.1794	mg/L	8.971 ppm
3	Be 313.107	-279.3	134.9	0.0000	mg/L	0.0024 ppm
3	Ca 227.547	562448.5	562165.1	2150	mg/L	107500 ppm
3	Cd 228.802	214.7	125.0	0.0010	mg/L	0.0493 ppm
3	Co 228.616	251.6	668.3	0.0063	mg/L	0.3159 ppm
3	Cr 267.716	2480.1	2639.9	0.0292	mg/L	1.460 ppm
3	Cu 324.754	3584.5	1297.5	0.0041	mg/L	0.2037 ppm
3	Fe 273.955	1038057.1	1035067.2	20.79	mg/L	1039 ppm
3	Mg 279.079	1007650.3	1007054.1	31.71	mg/L	1585 ppm
3	Mn 257.610	1170343.6	1169222.9	0.7366	mg/L	36.83 ppm
3	Mo 202.030	-101.8	-73.3	-0.0039	mg/L	-0.1941 ppm
3	Ni 231.604	996.2	721.0	0.0142	mg/L	0.7123 ppm
3	Pb 220.353	148.2	-36.7	0.0052	mg/L	0.2620 ppm
3	Sb 206.833	59.9	-0.7	-0.0002	mg/L	-0.0087 ppm
3	Se 196.026	61.4	-22.9	-0.0021	mg/L	-0.1038 ppm
3	Tl 190.800	236.9	48.3	0.0135	mg/L	0.6750 ppm
3	V 292.402	4618.2	4455.5	0.0400	mg/L	1.998 ppm
3	Zn 213.856	5735.5	6318.9	0.0596	mg/L	2.980 ppm

ean Data ----------

D: 6148-11 F=50 Seq. No.: 63 Sample No.: 43 A/S Pos: 51
mple Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:38:03 PM

ement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD

g 328.068	149.3	0.0007	0.00057 mg/L	0.0370	0.02850 ppm	77.01%
l 308.215	384040.9	10.53	0.067 mg/L	526.3	3.35 ppm	0.64%
s 188.979	-75.6	0.0271	0.00158 mg/L	1.356	0.0791 ppm	5.84%
a 233.527	63607.2	0.1801	0.00060 mg/L	9.003	0.0300 ppm	0.33%
e 313.107	88.2	0.0000	0.00002 mg/L	0.0016	0.00122 ppm	76.67%
a 227.547	564419.2	2159	13.6 mg/L	107900	679.1 ppm	0.63%
d 228.802	118.8	0.0009	0.00006 mg/L	0.0469	0.00288 ppm	6.14%
o 228.616	678.5	0.0064	0.00011 mg/L	0.3207	0.00529 ppm	1.65%
r 267.716	2644.9	0.0292	0.00009 mg/L	1.462	0.0043 ppm	0.30%
u 324.754	1461.3	0.0046	0.00045 mg/L	0.2294	0.02231 ppm	9.73%
e 273.955	1044044.9	20.97	0.162 mg/L	1048	8.1 ppm	0.77%
g 279.079	1012551.8	31.88	0.168 mg/L	1594	8.4 ppm	0.53%
n 257.610	1175034.0	0.7403	0.00525 mg/L	37.01	0.263 ppm	0.71%
o 202.030	-73.2	-0.0039	0.00011 mg/L	-0.1939	0.00572 ppm	2.95%
i 231.604	722.7	0.0143	0.00025 mg/L	0.7140	0.01267 ppm	1.77%
b 220.353	-38.8	0.0051	0.00018 mg/L	0.2566	0.00896 ppm	3.49%
b 206.833	8.8	0.0021	0.00246 mg/L	0.1052	0.12302 ppm	116.91%
e 196.026	-21.2	-0.0014	0.00134 mg/L	-0.0695	0.06697 ppm	96.32%
l 190.800	41.5	0.0112	0.00208 mg/L	0.5576	0.10394 ppm	18.64%
292.402	4445.8	0.0399	0.00081 mg/L	1.994	0.0403 ppm	2.02%
n 213.856	6293.6	0.0594	0.00022 mg/L	2.968	0.0110 ppm	0.37%

eplicate Data ----------

D: 6148-12 F=50 Date: 11/21/02 2:41:15 PM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-3054.0	-1980.0	-0.0098	mg/L	-0.4908	ppm
1	Al 308.215	6691381.0	6686783.4	183.3	mg/L	9164	ppm
1	As 188.979	334.5	265.0	0.1244	mg/L	6.221	ppm
1	Ba 233.527	287959.2	288824.8	0.8176	mg/L	40.88	ppm
1	Be 313.107	13144.3	13558.5	0.0049	mg/L	0.2447	ppm
1	Ca 227.547	182834.4	182550.9	705.0	mg/L	35250	ppm
1	Cd 228.802	513.6	423.8	0.0033	mg/L	0.1673	ppm
1	Co 228.616	14032.6	14449.3	0.1366	mg/L	6.829	ppm
1	Cr 267.716	29344.7	29504.5	0.3187	mg/L	15.93	ppm
1	Cu 324.754	60324.0	58037.1	0.1962	mg/L	9.810	ppm
1	Fe 273.955	15243343.8	15240354.0	306.1	mg/L	15300	ppm
1	Mg 279.079	3079831.3	3079235.1	96.95	mg/L	4848	ppm
1	Mn 257.610	6026417.5	6025296.8	3.796	mg/L	189.8	ppm
1	Mo 202.030	166.0	194.5	-0.0016	mg/L	-0.0788	ppm
1	Ni 231.604	14432.1	14156.9	0.2797	mg/L	13.99	ppm
1	Pb 220.353	2386.5	2201.6	0.1579	mg/L	7.893	ppm
1	Sb 206.833	153.1	92.5	-0.0054	mg/L	-0.2692	ppm
1	Se 196.026	-76.5	-160.8	0.0204	mg/L	1.021	ppm
1	Tl 190.800	401.7	213.1	-0.0119	mg/L	-0.5946	ppm
1	V 292.402	69517.4	69354.6	0.6220	mg/L	31.10	ppm
1	Zn 213.856	168074.5	168657.9	1.558	mg/L	77.91	ppm
2	Ag 328.068	-2722.5	-1648.5	-0.0082	mg/L	-0.4086	ppm
2	Al 308.215	6707554.0	6702956.4	183.7	mg/L	9186	ppm
2	As 188.979	260.4	191.0	0.0952	mg/L	4.759	ppm
2	Ba 233.527	279790.7	280656.3	0.7945	mg/L	39.72	ppm
2	Be 313.107	12747.2	13161.4	0.0047	mg/L	0.2375	ppm
2	Ca 227.547	175290.4	175006.9	676.1	mg/L	33810	ppm
2	Cd 228.802	484.3	394.6	0.0031	mg/L	0.1557	ppm
2	Co 228.616	13613.9	14030.6	0.1326	mg/L	6.631	ppm
2	Cr 267.716	28399.2	28559.0	0.3082	mg/L	15.41	ppm
2	Cu 324.754	58327.4	56040.5	0.1900	mg/L	9.499	ppm
2	Fe 273.955	15283938.9	15280949.0	306.9	mg/L	15340	ppm
2	Mg 279.079	2989039.2	2988443.0	94.09	mg/L	4705	ppm
2	Mn 257.610	5982067.7	5980947.0	3.768	mg/L	188.4	ppm
2	Mo 202.030	139.1	167.6	-0.0030	mg/L	-0.1517	ppm
2	Ni 231.604	14067.2	13792.0	0.2725	mg/L	13.63	ppm
2	Pb 220.353	2254.9	2070.0	0.1490	mg/L	7.448	ppm
2	Sb 206.833	134.4	73.8	-0.0096	mg/L	-0.4801	ppm
2	Se 196.026	-150.4	-234.7	-0.0062	mg/L	-0.3104	ppm
2	Tl 190.800	407.6	219.0	-0.0103	mg/L	-0.5162	ppm
2	V 292.402	66898.3	66735.6	0.5985	mg/L	29.93	ppm
2	Zn 213.856	162204.6	162788.0	1.503	mg/L	75.14	ppm

3	Ag 328.068	-2930.9	-1857.0	-0.0092	mg/L	-0.4603 ppm
3	Al 308.215	6634173.7	6629576.1	181.7	mg/L	9085 ppm
3	As 188.979	308.2	238.8	0.1143	mg/L	5.716 ppm
3	Ba 233.527	289350.8	290216.4	0.8215	mg/L	41.08 ppm
3	Be 313.107	13155.9	13570.1	0.0049	mg/L	0.2449 ppm
3	Ca 227.547	181826.0	181542.5	701.1	mg/L	35050 ppm
3	Cd 228.802	424.7	335.0	0.0026	mg/L	0.1322 ppm
3	Co 228.616	13916.2	14332.9	0.1355	mg/L	6.774 ppm
3	Cr 267.716	29658.3	29818.1	0.3222	mg/L	16.11 ppm
3	Cu 324.754	61061.3	58774.4	0.1985	mg/L	9.923 ppm
3	Fe 273.955	15179823.4	15176833.6	304.8	mg/L	15240 ppm
3	Mg 279.079	3076312.5	3075716.4	96.84	mg/L	4842 ppm
3	Mn 257.610	5907680.0	5906559.3	3.721	mg/L	186.1 ppm
3	Mo 202.030	216.9	245.4	0.0012	mg/L	0.0584 ppm
3	Ni 231.604	14029.1	13753.9	0.2718	mg/L	13.59 ppm
3	Pb 220.353	2423.8	2238.9	0.1603	mg/L	8.013 ppm
3	Sb 206.833	154.4	93.8	-0.0051	mg/L	-0.2537 ppm
3	Se 196.026	-194.1	-278.4	-0.0226	mg/L	-1.129 ppm
3	Tl 190.800	379.2	190.7	-0.0180	mg/L	-0.9011 ppm
3	V 292.402	69660.3	69497.5	0.6233	mg/L	31.16 ppm
3	Zn 213.856	167782.4	168365.8	1.556	mg/L	77.78 ppm

an Data ----------

D: 6148-12 F=50 Seq. No.: 64 Sample No.: 44 A/S Pos: 52
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:41:15 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
328.068	-1828.5	-0.0091	0.00083	mg/L	-0.4532	0.04153	ppm	9.16%
308.215	6673105.3	182.9	1.06	mg/L	9145	52.8	ppm	0.58%
188.979	231.6	0.1113	0.01485	mg/L	5.565	0.7427	ppm	13.34%
a 233.527	286565.9	0.8112	0.01462	mg/L	40.56	0.731	ppm	1.80%
e 313.107	13430.0	0.0048	0.00008	mg/L	0.2423	0.00420	ppm	1.73%
227.547	179700.1	694.1	15.65	mg/L	34700	782.4	ppm	2.25%
228.802	384.5	0.0030	0.00036	mg/L	0.1517	0.01788	ppm	11.78%
o 228.616	14270.9	0.1349	0.00204	mg/L	6.745	0.1022	ppm	1.51%
r 267.716	29293.9	0.3163	0.00727	mg/L	15.82	0.364	ppm	2.30%
324.754	57617.3	0.1949	0.00440	mg/L	9.744	0.2198	ppm	2.26%
273.955	15232712.2	305.9	1.05	mg/L	15300	52.7	ppm	0.34%
g 279.079	3047798.2	95.96	1.619	mg/L	4798	81.0	ppm	1.69%
n 257.610	5970934.4	3.762	0.0378	mg/L	188.1	1.89	ppm	1.00%
202.030	202.5	-0.0011	0.00213	mg/L	-0.0574	0.10671	ppm	185.96%
231.604	13900.9	0.2747	0.00440	mg/L	13.73	0.220	ppm	1.60%
b 220.353	2170.2	0.1557	0.00595	mg/L	7.785	0.2974	ppm	3.82%
b 206.833	86.7	-0.0067	0.00253	mg/L	-0.3343	0.12647	ppm	37.83%
196.026	-224.6	-0.0028	0.02170	mg/L	-0.1394	1.08519	ppm	778.40%
190.800	207.6	-0.0134	0.00407	mg/L	-0.6706	0.20337	ppm	30.32%
292.402	68529.2	0.6146	0.01395	mg/L	30.73	0.697	ppm	2.27%
n 213.856	166603.9	1.539	0.0313	mg/L	76.95	1.564	ppm	2.03%

plicate Data ----------

: 6148-13 F=50 Date: 11/21/02 2:44:14 PM

pl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-1311.5	-237.6	-0.0012	mg/L	-0.0589	ppm
1	Al 308.215	1584681.5	1580083.9	43.31	mg/L	2165	ppm
1	As 188.979	5.6	-63.8	0.0370	mg/L	1.849	ppm
1	Ba 233.527	149836.0	150701.6	0.4266	mg/L	21.33	ppm
1	Be 313.107	718.4	1132.6	0.0004	mg/L	0.0204	ppm
1	Ca 227.547	621633.1	621349.7	2376	mg/L	118800	ppm
1	Cd 228.802	376.9	287.2	0.0023	mg/L	0.1133	ppm
1	Co 228.616	1928.4	2345.1	0.0222	mg/L	1.108	ppm
1	Cr 267.716	8017.0	8176.7	0.0904	mg/L	4.521	ppm
1	Cu 324.754	13376.8	11089.9	0.0348	mg/L	1.741	ppm
1	Fe 273.955	2623290.7	2620300.8	52.62	mg/L	2631	ppm
1	Mg 279.079	2161027.1	2160431.0	68.02	mg/L	3401	ppm
1	Mn 257.610	2011958.2	2010837.4	1.267	mg/L	63.34	ppm
1	Mo 202.030	-81.7	-53.2	-0.0028	mg/L	-0.1410	ppm
1	Ni 231.604	2595.5	2320.3	0.0459	mg/L	2.293	ppm

1	Pb 220.353	588.0	403.1	0.0379	mg/L	1.893 ppm
1	Sb 206.833	104.2	43.6	0.0057	mg/L	0.2854 ppm
1	Se 196.026	54.6	-29.6	0.0019	mg/L	0.0967 ppm
1	Tl 190.800	267.1	78.6	0.0112	mg/L	0.5588 ppm
1	V 292.402	12856.6	12693.9	0.1138	mg/L	5.692 ppm
1	Zn 213.856	19812.6	20396.0	0.1868	mg/L	9.340 ppm
2	Ag 328.068	-1003.4	70.5	0.0003	mg/L	0.0175 ppm
2	Al 308.215	1640760.2	1636162.6	44.84	mg/L	2242 ppm
2	As 188.979	4.8	-64.6	0.0385	mg/L	1.924 ppm
2	Ba 233.527	149169.2	150034.8	0.4247	mg/L	21.24 ppm
2	Be 313.107	377.9	792.1	0.0003	mg/L	0.0143 ppm
2	Ca 227.547	640457.0	640173.5	2448	mg/L	122400 ppm
2	Cd 228.802	396.2	306.5	0.0024	mg/L	0.1209 ppm
2	Co 228.616	1948.7	2365.4	0.0224	mg/L	1.118 ppm
2	Cr 267.716	8050.0	8209.8	0.0908	mg/L	4.539 ppm
2	Cu 324.754	13584.8	11297.8	0.0355	mg/L	1.773 ppm
2	Fe 273.955	2692220.7	2689230.8	54.01	mg/L	2700 ppm
2	Mg 279.079	2214077.2	2213481.1	69.69	mg/L	3485 ppm
2	Mn 257.610	2068071.2	2066950.5	1.302	mg/L	65.11 ppm
2	Mo 202.030	-79.7	-51.2	-0.0027	mg/L	-0.1356 ppm
2	Ni 231.604	2597.0	2321.8	0.0459	mg/L	2.294 ppm
2	Pb 220.353	581.6	396.7	0.0378	mg/L	1.888 ppm
2	Sb 206.833	101.2	40.6	0.0049	mg/L	0.2463 ppm
2	Se 196.026	49.1	-35.2	0.0002	mg/L	0.0107 ppm
2	Tl 190.800	273.2	84.7	0.0126	mg/L	0.6306 ppm
2	V 292.402	12884.7	12721.9	0.1141	mg/L	5.705 ppm
2	Zn 213.856	19758.2	20341.6	0.1861	mg/L	9.307 ppm
3	Ag 328.068	-1285.5	-211.5	-0.0010	mg/L	-0.0524 ppm
3	Al 308.215	1616702.8	1612105.2	44.19	mg/L	2209 ppm
3	As 188.979	10.7	-58.7	0.0395	mg/L	1.977 ppm
3	Ba 233.527	144839.6	145705.2	0.4124	mg/L	20.62 ppm
3	Be 313.107	521.2	935.4	0.0003	mg/L	0.0169 ppm
3	Ca 227.547	628034.5	627751.0	2401	mg/L	120000 ppm
3	Cd 228.802	380.0	290.2	0.0023	mg/L	0.1145 ppm
3	Co 228.616	1949.0	2365.7	0.0224	mg/L	1.118 ppm
3	Cr 267.716	7773.6	7933.4	0.0877	mg/L	4.386 ppm
3	Cu 324.754	13324.2	11037.2	0.0346	mg/L	1.732 ppm
3	Fe 273.955	2661011.1	2658021.2	53.38	mg/L	2669 ppm
3	Mg 279.079	2180666.9	2180070.8	68.64	mg/L	3432 ppm
3	Mn 257.610	2023641.0	2022520.3	1.274	mg/L	63.71 ppm
3	Mo 202.030	-86.6	-58.1	-0.0031	mg/L	-0.1539 ppm
3	Ni 231.604	2605.3	2330.1	0.0460	mg/L	2.302 ppm
3	Pb 220.353	580.7	395.8	0.0375	mg/L	1.875 ppm
3	Sb 206.833	85.4	24.7	0.0012	mg/L	0.0623 ppm
3	Se 196.026	38.7	-45.6	-0.0037	mg/L	-0.1846 ppm
3	Tl 190.800	264.1	75.6	0.0101	mg/L	0.5049 ppm
3	V 292.402	12417.7	12255.0	0.1099	mg/L	5.496 ppm
3	Zn 213.856	19090.5	19673.9	0.1799	mg/L	8.995 ppm

ean Data ----------

D: 6148-13 F=50 Seq. No.: 65 Sample No.: 45 A/S Pos: 53
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:44:14 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-126.2	-0.0006	0.00085	mg/L	-0.0313	0.04235	ppm	135.41%
l 308.215	1609450.6	44.11	0.771	mg/L	2206	38.6	ppm	1.75%
s 188.979	-62.4	0.0383	0.00129	mg/L	1.917	0.0644	ppm	3.36%
a 233.527	148813.9	0.4212	0.00768	mg/L	21.06	0.384	ppm	1.82%
e 313.107	953.4	0.0003	0.00006	mg/L	0.0172	0.00309	ppm	17.93%
a 227.547	629758.1	2409	36.6	mg/L	120400	1830.3	ppm	1.52%
d 228.802	294.6	0.0023	0.00008	mg/L	0.1163	0.00410	ppm	3.52%
o 228.616	2358.7	0.0223	0.00011	mg/L	1.115	0.0056	ppm	0.50%
r 267.716	8106.6	0.0896	0.00167	mg/L	4.482	0.0835	ppm	1.86%
u 324.754	11141.7	0.0350	0.00043	mg/L	1.749	0.0216	ppm	1.24%
e 273.955	2655851.0	53.34	0.693	mg/L	2667	34.7	ppm	1.30%
g 279.079	2184660.9	68.78	0.844	mg/L	3439	42.2	ppm	1.23%
n 257.610	2033436.1	1.281	0.0187	mg/L	64.06	0.933	ppm	1.46%
o 202.030	-54.2	-0.0029	0.00019	mg/L	-0.1435	0.00942	ppm	6.57%

231.604	2324.1	0.0459	0.00010 mg/L	2.296	0.0052 ppm	0.23%
220.353	398.5	0.0377	0.00018 mg/L	1.885	0.0092 ppm	0.49%
b 206.833	36.3	0.0040	0.00238 mg/L	0.1980	0.11916 ppm	60.19%
e 196.026	-36.8	-0.0005	0.00288 mg/L	-0.0257	0.14416 ppm	560.37%
190.800	79.6	0.0113	0.00126 mg/L	0.5648	0.06306 ppm	11.16%
292.402	12556.9	0.1126	0.00235 mg/L	5.631	0.1174 ppm	2.09%
213.856	20137.2	0.1843	0.00380 mg/L	9.214	0.1901 ppm	2.06%

plicate Data ----------

: 6148-14 F=50 Date: 11/21/02 2:47:45 PM

pl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-1311.7	-237.8	-0.0012	mg/L	-0.0589	ppm
1	Al 308.215	1450111.3	1445513.7	39.62	mg/L	1981	ppm
1	As 188.979	0.3	-69.2	0.0440	mg/L	2.201	ppm
1	Ba 233.527	149308.6	150174.2	0.4251	mg/L	21.25	ppm
1	Be 313.107	1022.1	1436.3	0.0005	mg/L	0.0259	ppm
1	Ca 227.547	713486.5	713203.0	2728	mg/L	136400	ppm
1	Cd 228.802	350.7	260.9	0.0021	mg/L	0.1030	ppm
1	Co 228.616	1918.2	2334.9	0.0221	mg/L	1.104	ppm
1	Cr 267.716	8331.4	8491.2	0.0939	mg/L	4.695	ppm
1	Cu 324.754	9503.9	7217.0	0.0227	mg/L	1.133	ppm
1	Fe 273.955	2343579.4	2340589.6	47.00	mg/L	2350	ppm
1	Mg 279.079	2158072.2	2157476.0	67.93	mg/L	3396	ppm
1	Mn 257.610	1915835.9	1914715.2	1.206	mg/L	60.32	ppm
1	Mo 202.030	-107.7	-79.2	-0.0042	mg/L	-0.2097	ppm
1	Ni 231.604	2866.3	2591.1	0.0512	mg/L	2.560	ppm
1	Pb 220.353	304.3	119.4	0.0199	mg/L	0.9961	ppm
1	Sb 206.833	98.5	37.8	0.0063	mg/L	0.3159	ppm
1	Se 196.026	45.1	-39.2	-0.0030	mg/L	-0.1478	ppm
1	Tl 190.800	258.9	70.4	0.0108	mg/L	0.5411	ppm
1	V 292.402	11389.6	11226.9	0.1007	mg/L	5.034	ppm
1	Zn 213.856	15469.4	16052.8	0.1464	mg/L	7.322	ppm
2	Ag 328.068	-864.8	209.2	0.0010	mg/L	0.0518	ppm
2	Al 308.215	1407263.8	1402666.3	38.44	mg/L	1922	ppm
2	As 188.979	1.5	-67.9	0.0429	mg/L	2.146	ppm
2	Ba 233.527	144974.2	145839.8	0.4128	mg/L	20.64	ppm
2	Be 313.107	993.6	1407.8	0.0005	mg/L	0.0254	ppm
2	Ca 227.547	697396.6	697113.1	2666	mg/L	133300	ppm
2	Cd 228.802	371.9	282.2	0.0022	mg/L	0.1114	ppm
2	Co 228.616	1923.8	2340.5	0.0221	mg/L	1.106	ppm
2	Cr 267.716	7993.2	8153.0	0.0902	mg/L	4.508	ppm
2	Cu 324.754	9288.7	7001.8	0.0220	mg/L	1.099	ppm
2	Fe 273.955	2273779.8	2270789.9	45.60	mg/L	2280	ppm
2	Mg 279.079	2101595.9	2100999.7	66.15	mg/L	3308	ppm
2	Mn 257.610	1866589.7	1865468.9	1.175	mg/L	58.76	ppm
2	Mo 202.030	-100.6	-72.0	-0.0038	mg/L	-0.1908	ppm
2	Ni 231.604	2870.0	2594.8	0.0513	mg/L	2.564	ppm
2	Pb 220.353	292.0	107.1	0.0188	mg/L	0.9409	ppm
2	Sb 206.833	81.9	21.3	0.0025	mg/L	0.1232	ppm
2	Se 196.026	48.3	-36.0	-0.0021	mg/L	-0.1073	ppm
2	Tl 190.800	254.9	66.4	0.0100	mg/L	0.4988	ppm
2	V 292.402	11009.6	10846.9	0.0973	mg/L	4.864	ppm
2	Zn 213.856	15565.0	16148.4	0.1475	mg/L	7.374	ppm
3	Ag 328.068	-1322.3	-248.4	-0.0012	mg/L	-0.0616	ppm
3	Al 308.215	1470127.4	1465529.9	40.17	mg/L	2008	ppm
3	As 188.979	2.5	-66.9	0.0463	mg/L	2.314	ppm
3	Ba 233.527	150032.7	150898.3	0.4271	mg/L	21.36	ppm
3	Be 313.107	1018.8	1433.0	0.0005	mg/L	0.0259	ppm
3	Ca 227.547	727729.1	727445.6	2782	mg/L	139100	ppm
3	Cd 228.802	361.4	271.6	0.0021	mg/L	0.1072	ppm
3	Co 228.616	1903.3	2320.0	0.0219	mg/L	1.097	ppm
3	Cr 267.716	8381.3	8541.1	0.0944	mg/L	4.722	ppm
3	Cu 324.754	9478.0	7191.1	0.0226	mg/L	1.129	ppm
3	Fe 273.955	2350584.6	2347594.8	47.14	mg/L	2357	ppm
3	Mg 279.079	2177717.8	2177121.7	68.55	mg/L	3427	ppm
3	Mn 257.610	1939829.6	1938708.9	1.221	mg/L	61.07	ppm
3	Mo 202.030	-113.1	-84.6	-0.0045	mg/L	-0.2240	ppm

3	Ni 231.604	2854.6	2579.3	0.0510	mg/L	2.548 ppm
3	Pb 220.353	305.2	120.3	0.0202	mg/L	1.011 ppm
3	Sb 206.833	80.2	19.6	0.0019	mg/L	0.0966 ppm
3	Se 196.026	59.6	-24.7	0.0023	mg/L	0.1161 ppm
3	Tl 190.800	261.2	72.7	0.0115	mg/L	0.5738 ppm
3	V 292.402	11609.4	11446.7	0.1027	mg/L	5.133 ppm
3	Zn 213.856	15661.3	16244.7	0.1482	mg/L	7.411 ppm

lean Data ----------

D: 6148-14 F=50 Seq. No.: 66 Sample No.: 46 A/S Pos: 54
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:47:45 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	-92.3	-0.0005	0.00129	mg/L	-0.0229	0.06473	ppm	282.86%
l 308.215	1437903.3	39.41	0.880	mg/L	1971	44.0	ppm	2.23%
s 188.979	-68.0	0.0444	0.00172	mg/L	2.221	0.0858	ppm	3.86%
a 233.527	148970.8	0.4217	0.00774	mg/L	21.08	0.387	ppm	1.84%
e 313.107	1425.7	0.0005	0.00001	mg/L	0.0257	0.00028	ppm	1.09%
a 227.547	712587.2	2725	58.0	mg/L	136300	2902.1	ppm	2.13%
d 228.802	271.6	0.0021	0.00008	mg/L	0.1072	0.00419	ppm	3.91%
o 228.616	2331.8	0.0220	0.00010	mg/L	1.102	0.0050	ppm	0.46%
r 267.716	8395.1	0.0928	0.00233	mg/L	4.641	0.1167	ppm	2.52%
u 324.754	7136.6	0.0224	0.00037	mg/L	1.120	0.0184	ppm	1.65%
e 273.955	2319658.1	46.58	0.853	mg/L	2329	42.6	ppm	1.83%
g 279.079	2145199.1	67.54	1.244	mg/L	3377	62.2	ppm	1.84%
n 257.610	1906297.7	1.201	0.0235	mg/L	60.05	1.176	ppm	1.96%
o 202.030	-78.6	-0.0042	0.00033	mg/L	-0.2082	0.01663	ppm	7.99%
i 231.604	2588.4	0.0511	0.00016	mg/L	2.557	0.0080	ppm	0.31%
b 220.353	115.6	0.0197	0.00074	mg/L	0.9825	0.03679	ppm	3.74%
b 206.833	26.2	0.0036	0.00239	mg/L	0.1786	0.11965	ppm	67.00%
e 196.026	-33.3	-0.0009	0.00284	mg/L	-0.0464	0.14212	ppm	306.58%
l 190.800	69.8	0.0108	0.00075	mg/L	0.5379	0.03763	ppm	6.99%
292.402	11173.5	0.1002	0.00272	mg/L	5.011	0.1361	ppm	2.72%
n 213.856	16148.7	0.1474	0.00090	mg/L	7.369	0.0451	ppm	0.61%

eplicate Data ----------

D: 6148-15 F=50 Date: 11/21/02 2:51:12 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-859.6	214.3	0.0011	mg/L	0.0531	ppm
1	Al 308.215	386963.5	382365.9	10.48	mg/L	524.0	ppm
1	As 188.979	-2.8	-72.2	0.0316	mg/L	1.578	ppm
1	Ba 233.527	67113.9	67979.5	0.1924	mg/L	9.621	ppm
1	Be 313.107	-469.9	-55.6	0.0000	mg/L	-0.0010	ppm
1	Ca 227.547	596419.6	596136.1	2280	mg/L	114000	ppm
1	Cd 228.802	210.4	120.6	0.0010	mg/L	0.0476	ppm
1	Co 228.616	222.9	639.6	0.0060	mg/L	0.3023	ppm
1	Cr 267.716	2605.3	2765.1	0.0306	mg/L	1.529	ppm
1	Cu 324.754	3855.0	1568.1	0.0049	mg/L	0.2461	ppm
1	Fe 273.955	1046248.4	1043258.6	20.95	mg/L	1048	ppm
1	Mg 279.079	981271.9	980675.7	30.88	mg/L	1544	ppm
1	Mn 257.610	1458993.2	1457872.5	0.9185	mg/L	45.92	ppm
1	Mo 202.030	-106.2	-77.7	-0.0041	mg/L	-0.2059	ppm
1	Ni 231.604	1024.7	749.5	0.0148	mg/L	0.7405	ppm
1	Pb 220.353	139.3	-45.6	0.0051	mg/L	0.2553	ppm
1	Sb 206.833	68.9	8.3	0.0020	mg/L	0.0989	ppm
1	Se 196.026	70.2	-14.1	0.0012	mg/L	0.0583	ppm
1	Tl 190.800	230.6	42.1	0.0119	mg/L	0.5942	ppm
1	V 292.402	4780.7	4618.0	0.0414	mg/L	2.071	ppm
1	Zn 213.856	5371.0	5954.4	0.0562	mg/L	2.808	ppm
2	Ag 328.068	-867.3	206.7	0.0010	mg/L	0.0512	ppm
2	Al 308.215	383730.5	379133.0	10.39	mg/L	519.6	ppm
2	As 188.979	-4.1	-73.5	0.0298	mg/L	1.490	ppm
2	Ba 233.527	66606.8	67472.4	0.1910	mg/L	9.550	ppm
2	Be 313.107	-402.4	11.8	0.0000	mg/L	0.0002	ppm
2	Ca 227.547	583710.3	583426.8	2231	mg/L	111600	ppm
2	Cd 228.802	212.3	122.5	0.0010	mg/L	0.0484	ppm

2 Co 228.616	228.8	645.5	0.0061 mg/L	0.3051 ppm
2 Cr 267.716	2600.1	2759.9	0.0305 mg/L	1.526 ppm
2 Cu 324.754	3729.6	1442.7	0.0045 mg/L	0.2264 ppm
2 Fe 273.955	1039187.5	1036197.6	20.81 mg/L	1040 ppm
2 Mg 279.079	966631.7	966035.5	30.42 mg/L	1521 ppm
2 Mn 257.610	1429333.6	1428212.8	0.8998 mg/L	44.99 ppm
2 Mo 202.030	-107.6	-79.1	-0.0042 mg/L	-0.2096 ppm
2 Ni 231.604	994.7	719.5	0.0142 mg/L	0.7109 ppm
2 Pb 220.353	142.9	-42.0	0.0052 mg/L	0.2587 ppm
2 Sb 206.833	64.8	4.1	0.0010 mg/L	0.0493 ppm
2 Se 196.026	64.7	-19.6	-0.0008 mg/L	-0.0423 ppm
2 Tl 190.800	225.7	37.2	0.0104 mg/L	0.5207 ppm
2 V 292.402	4725.2	4562.5	0.0409 mg/L	2.046 ppm
2 Zn 213.856	5413.0	5996.4	0.0566 mg/L	2.828 ppm
3 Ag 328.068	-978.1	95.8	0.0005 mg/L	0.0238 ppm
3 Al 308.215	378080.2	373482.6	10.24 mg/L	511.8 ppm
3 As 188.979	-0.2	-69.6	0.0311 mg/L	1.553 ppm
3 Ba 233.527	65151.2	66016.8	0.1869 mg/L	9.344 ppm
3 Be 313.107	-321.3	92.9	0.0000 mg/L	0.0017 ppm
3 Ca 227.547	581337.5	581054.1	2222 mg/L	111100 ppm
3 Cd 228.802	176.5	86.8	0.0007 mg/L	0.0342 ppm
3 Co 228.616	240.0	656.7	0.0062 mg/L	0.3104 ppm
3 Cr 267.716	2584.0	2743.8	0.0303 mg/L	1.517 ppm
3 Cu 324.754	3878.2	1591.3	0.0050 mg/L	0.2498 ppm
3 Fe 273.955	1022988.2	1019998.4	20.48 mg/L	1024 ppm
3 Mg 279.079	959053.8	958457.6	30.18 mg/L	1509 ppm
3 Mn 257.610	1421121.7	1420001.0	0.8946 mg/L	44.73 ppm
3 Mo 202.030	-103.8	-75.3	-0.0040 mg/L	-0.1993 ppm
3 Ni 231.604	1004.2	729.0	0.0144 mg/L	0.7203 ppm
3 Pb 220.353	153.3	-31.6	0.0058 mg/L	0.2920 ppm
3 Sb 206.833	61.2	0.6	0.0001 mg/L	0.0066 ppm
3 Se 196.026	59.5	-24.8	-0.0028 mg/L	-0.1425 ppm
3 Tl 190.800	232.9	44.4	0.0126 mg/L	0.6277 ppm
3 V 292.402	4574.6	4411.9	0.0396 mg/L	1.978 ppm
3 Zn 213.856	5358.6	5942.0	0.0560 mg/L	2.802 ppm

ean Data ----------

: 6148-15 F=50 Seq. No.: 67 Sample No.: 47 A/S Pos: 55
mple Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:51:12 PM

ement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	172.3	0.0009	0.00033	mg/L	0.0427	0.01643	ppm	38.49%
l 308.215	378327.2	10.37	0.123	mg/L	518.5	6.16	ppm	1.19%
188.979	-71.8	0.0308	0.00091	mg/L	1.540	0.0455	ppm	2.95%
233.527	67156.2	0.1901	0.00288	mg/L	9.505	0.1442	ppm	1.52%
313.107	16.3	0.0000	0.00003	mg/L	0.0003	0.00134	ppm	455.09%
a 227.547	586872.3	2245	31.0	mg/L	112200	1550.9	ppm	1.38%
228.802	110.0	0.0009	0.00016	mg/L	0.0434	0.00794	ppm	18.29%
228.616	647.3	0.0061	0.00008	mg/L	0.3059	0.00411	ppm	1.35%
267.716	2756.3	0.0305	0.00012	mg/L	1.524	0.0061	ppm	0.40%
u 324.754	1534.0	0.0048	0.00025	mg/L	0.2408	0.01255	ppm	5.21%
e 273.955	1033151.5	20.75	0.239	mg/L	1037	12.0	ppm	1.15%
279.079	968389.6	30.49	0.356	mg/L	1525	17.8	ppm	1.17%
257.610	1435362.1	0.9043	0.01255	mg/L	45.22	0.628	ppm	1.39%
o 202.030	-77.4	-0.0041	0.00010	mg/L	-0.2049	0.00522	ppm	2.55%
i 231.604	732.7	0.0145	0.00030	mg/L	0.7239	0.01512	ppm	2.09%
220.353	-39.7	0.0054	0.00041	mg/L	0.2687	0.02031	ppm	7.56%
206.833	4.3	0.0010	0.00092	mg/L	0.0516	0.04618	ppm	89.52%
e 196.026	-19.5	-0.0008	0.00201	mg/L	-0.0421	0.10041	ppm	238.25%
l 190.800	41.2	0.0116	0.00109	mg/L	0.5809	0.05474	ppm	9.42%
292.402	4530.8	0.0406	0.00096	mg/L	2.032	0.0478	ppm	2.35%
213.856	5964.3	0.0563	0.00027	mg/L	2.813	0.0135	ppm	0.48%

eplicate Data ----------

: 6233-1 F=50 Date: 11/21/02 2:54:24 PM

epl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units

1	Ag	328.068	-2180.7	-1106.7	-0.0055	mg/L	-0.2743 ppm
1	Al	308.215	3268033.7	3263436.1	89.45	mg/L	4472 ppm
1	As	188.979	442.4	372.9	0.1625	mg/L	8.126 ppm
1	Ba	233.527	166146.6	167012.2	0.4728	mg/L	23.64 ppm
1	Be	313.107	-2909.5	-2495.3	-0.0009	mg/L	-0.0450 ppm
1	Ca	227.547	77971.7	77688.3	303.8	mg/L	15190 ppm
1	Cd	228.802	362.4	272.6	0.0022	mg/L	0.1076 ppm
1	Co	228.616	16594.2	17010.9	0.1608	mg/L	8.040 ppm
1	Cr	267.716	52477.9	52637.7	0.5746	mg/L	28.73 ppm
1	Cu	324.754	50007.4	47720.4	0.1636	mg/L	8.178 ppm
1	Fe	273.955	14965436.6	14962446.8	300.5	mg/L	15020 ppm
1	Mg	279.079	2670438.6	2669842.5	84.06	mg/L	4203 ppm
1	Mn	257.610	8426705.8	8425585.1	5.308	mg/L	265.4 ppm
1	Mo	202.030	86.8	115.3	-0.0056	mg/L	-0.2779 ppm
1	Ni	231.604	33124.7	32849.5	0.6491	mg/L	32.46 ppm
1	Pb	220.353	6623.7	6438.8	0.4348	mg/L	21.74 ppm
1	Sb	206.833	174.2	113.6	-0.0046	mg/L	-0.2282 ppm
1	Se	196.026	-92.5	-176.8	0.0197	mg/L	0.9849 ppm
1	Tl	190.800	293.1	104.6	-0.0305	mg/L	-1.526 ppm
1	V	292.402	50069.5	49906.8	0.4476	mg/L	22.38 ppm
1	Zn	213.856	123969.0	124552.4	1.143	mg/L	57.15 ppm
2	Ag	328.068	-2142.2	-1068.2	-0.0053	mg/L	-0.2648 ppm
2	Al	308.215	3271417.5	3266819.9	89.54	mg/L	4477 ppm
2	As	188.979	444.3	374.9	0.1629	mg/L	8.144 ppm
2	Ba	233.527	165037.0	165902.6	0.4696	mg/L	23.48 ppm
2	Be	313.107	-2864.4	-2450.2	-0.0009	mg/L	-0.0442 ppm
2	Ca	227.547	77172.2	76888.7	300.6	mg/L	15030 ppm
2	Cd	228.802	352.9	263.2	0.0021	mg/L	0.1038 ppm
2	Co	228.616	16224.0	16640.7	0.1573	mg/L	7.865 ppm
2	Cr	267.716	51847.7	52007.5	0.5678	mg/L	28.39 ppm
2	Cu	324.754	49545.4	47258.5	0.1618	mg/L	8.092 ppm
2	Fe	273.955	14666240.4	14663250.6	294.5	mg/L	14720 ppm
2	Mg	279.079	2658419.3	2657823.1	83.68	mg/L	4184 ppm
2	Mn	257.610	8156071.0	8154950.3	5.138	mg/L	256.9 ppm
2	Mo	202.030	26.9	55.4	-0.0085	mg/L	-0.4247 ppm
2	Ni	231.604	32490.7	32215.5	0.6366	mg/L	31.83 ppm
2	Pb	220.353	6599.4	6414.5	0.4332	mg/L	21.66 ppm
2	Sb	206.833	191.6	131.0	0.0000	mg/L	0.0020 ppm
2	Se	196.026	-118.0	-202.3	0.0086	mg/L	0.4307 ppm
2	Tl	190.800	311.8	123.3	-0.0242	mg/L	-1.209 ppm
2	V	292.402	49699.6	49536.8	0.4443	mg/L	22.21 ppm
2	Zn	213.856	123460.3	124043.7	1.139	mg/L	56.94 ppm
3	Ag	328.068	-2075.4	-1001.5	-0.0050	mg/L	-0.2482 ppm
3	Al	308.215	3276824.9	3272227.3	89.69	mg/L	4484 ppm
3	As	188.979	502.9	433.4	0.1853	mg/L	9.264 ppm
3	Ba	233.527	165853.4	166719.0	0.4719	mg/L	23.60 ppm
3	Be	313.107	-2985.1	-2570.9	-0.0009	mg/L	-0.0464 ppm
3	Ca	227.547	77871.5	77588.0	303.1	mg/L	15160 ppm
3	Cd	228.802	382.3	292.5	0.0023	mg/L	0.1154 ppm
3	Co	228.616	17254.5	17671.2	0.1670	mg/L	8.352 ppm
3	Cr	267.716	52933.3	53093.1	0.5799	mg/L	29.00 ppm
3	Cu	324.754	49619.9	47332.9	0.1618	mg/L	8.089 ppm
3	Fe	273.955	14359945.2	14356955.3	288.3	mg/L	14420 ppm
3	Mg	279.079	2662789.2	2662193.0	83.82	mg/L	4191 ppm
3	Mn	257.610	8011526.9	8010406.2	5.047	mg/L	252.3 ppm
3	Mo	202.030	68.6	97.1	-0.0060	mg/L	-0.3023 ppm
3	Ni	231.604	34187.9	33912.7	0.6701	mg/L	33.51 ppm
3	Pb	220.353	6882.8	6698.0	0.4523	mg/L	22.61 ppm
3	Sb	206.833	173.5	112.8	-0.0044	mg/L	-0.2207 ppm
3	Se	196.026	-137.3	-221.6	-0.0002	mg/L	-0.0120 ppm
3	Tl	190.800	369.1	180.6	-0.0066	mg/L	-0.3295 ppm
3	V	292.402	50550.5	50387.8	0.4519	mg/L	22.60 ppm
3	Zn	213.856	123212.4	123795.8	1.137	mg/L	56.85 ppm

ean Data ----------

D: 6233-1 F=50 Seq. No.: 68 Sample No.: 48 A/S Pos: 56
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:54:24 PM

Mean Corr.	Mean	Calib	Mean	Sample

ement	Intensity	Conc.	Std.Dev.	Units	Conc.	Std.Dev.	Units	RSD
328.068	-1058.8	-0.0052	0.00026	mg/L	-0.2624	0.01320	ppm	5.03%
l 308.215	3267494.5	89.56	0.122	mg/L	4478	6.1	ppm	0.14%
s 188.979	393.7	0.1702	0.01303	mg/L	8.511	0.6516	ppm	7.66%
233.527	166544.6	0.4714	0.00163	mg/L	23.57	0.081	ppm	0.35%
313.107	-2505.4	-0.0009	0.00002	mg/L	-0.0452	0.00110	ppm	2.43%
a 227.547	77388.3	302.5	1.69	mg/L	15120	84.3	ppm	0.56%
d 228.802	276.1	0.0022	0.00012	mg/L	0.1090	0.00591	ppm	5.43%
228.616	17107.6	0.1617	0.00493	mg/L	8.086	0.2467	ppm	3.05%
267.716	52579.4	0.5741	0.00609	mg/L	28.71	0.305	ppm	1.06%
u 324.754	47437.3	0.1624	0.00101	mg/L	8.120	0.0505	ppm	0.62%
e 273.955	14660884.2	294.4	6.08	mg/L	14720	304.0	ppm	2.07%
g 279.079	2663286.2	83.85	0.192	mg/L	4193	9.6	ppm	0.23%
257.610	8196980.5	5.164	0.1328	mg/L	258.2	6.64	ppm	2.57%
202.030	89.3	-0.0067	0.00157	mg/L	-0.3350	0.07869	ppm	23.49%
i 231.604	32992.6	0.6519	0.01695	mg/L	32.60	0.847	ppm	2.60%
b 220.353	6517.1	0.4401	0.01055	mg/L	22.01	0.528	ppm	2.40%
206.833	119.2	-0.0030	0.00262	mg/L	-0.1490	0.13082	ppm	87.82%
196.026	-200.2	0.0094	0.00999	mg/L	0.4679	0.49944	ppm	106.75%
l 190.800	136.1	-0.0204	0.01240	mg/L	-1.021	0.6198	ppm	60.68%
292.402	49943.8	0.4479	0.00383	mg/L	22.40	0.191	ppm	0.85%
213.856	124130.7	1.140	0.0030	mg/L	56.98	0.151	ppm	0.26%

eplicate Data ----------

D: 6233-2 F=50 Date: 11/21/02 2:57:07 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-2120.3	-1046.4	-0.0052	mg/L	-0.2594	ppm
1	Al 308.215	2523043.4	2518445.8	69.03	mg/L	3451	ppm
1	As 188.979	337.8	268.4	0.1174	mg/L	5.872	ppm
1	Ba 233.527	104749.2	105614.8	0.2990	mg/L	14.95	ppm
1	Be 313.107	-2504.3	-2090.1	-0.0008	mg/L	-0.0377	ppm
1	Ca 227.547	56105.3	55821.9	218.5	mg/L	10930	ppm
1	Cd 228.802	160.4	70.6	0.0006	mg/L	0.0279	ppm
1	Co 228.616	13516.4	13933.1	0.1317	mg/L	6.585	ppm
1	Cr 267.716	41138.3	41298.1	0.4510	mg/L	22.55	ppm
1	Cu 324.754	38309.3	36022.4	0.1235	mg/L	6.175	ppm
1	Fe 273.955	11332711.6	11329721.8	227.5	mg/L	11380	ppm
1	Mg 279.079	1992194.5	1991598.3	62.71	mg/L	3135	ppm
1	Mn 257.610	8981624.2	8980503.5	5.658	mg/L	282.9	ppm
1	Mo 202.030	12.6	41.1	-0.0067	mg/L	-0.3328	ppm
1	Ni 231.604	28294.5	28019.2	0.5537	mg/L	27.68	ppm
1	Pb 220.353	4033.8	3848.9	0.2598	mg/L	12.99	ppm
1	Sb 206.833	122.8	62.2	-0.0097	mg/L	-0.4831	ppm
1	Se 196.026	-172.5	-256.8	-0.0298	mg/L	-1.491	ppm
1	Tl 190.800	333.0	144.5	-0.0043	mg/L	-0.2141	ppm
1	V 292.402	41554.5	41391.7	0.3712	mg/L	18.56	ppm
1	Zn 213.856	87229.1	87812.5	0.8041	mg/L	40.21	ppm
2	Ag 328.068	-1942.5	-868.6	-0.0043	mg/L	-0.2153	ppm
2	Al 308.215	2519797.5	2515199.9	68.94	mg/L	3447	ppm
2	As 188.979	305.8	236.3	0.1054	mg/L	5.272	ppm
2	Ba 233.527	104785.4	105651.0	0.2991	mg/L	14.95	ppm
2	Be 313.107	-2804.4	-2390.2	-0.0009	mg/L	-0.0431	ppm
2	Ca 227.547	56311.1	56027.7	219.4	mg/L	10970	ppm
2	Cd 228.802	145.9	56.1	0.0004	mg/L	0.0221	ppm
2	Co 228.616	13357.9	13774.6	0.1302	mg/L	6.511	ppm
2	Cr 267.716	41380.0	41539.8	0.4535	mg/L	22.68	ppm
2	Cu 324.754	38664.3	36377.4	0.1249	mg/L	6.244	ppm
2	Fe 273.955	11621530.5	11618540.7	233.3	mg/L	11670	ppm
2	Mg 279.079	1988931.0	1988334.9	62.60	mg/L	3130	ppm
2	Mn 257.610	9309951.0	9308830.2	5.865	mg/L	293.2	ppm
2	Mo 202.030	-0.5	28.0	-0.0076	mg/L	-0.3787	ppm
2	Ni 231.604	27600.8	27325.6	0.5400	mg/L	27.00	ppm
2	Pb 220.353	3978.1	3793.2	0.2561	mg/L	12.80	ppm
2	Sb 206.833	139.5	78.9	-0.0060	mg/L	-0.2986	ppm
2	Se 196.026	-29.0	-113.3	0.0240	mg/L	1.202	ppm
2	Tl 190.800	321.2	132.6	-0.0086	mg/L	-0.4295	ppm
2	V 292.402	42066.3	41903.5	0.3758	mg/L	18.79	ppm
2	Zn 213.856	87838.6	88422.0	0.8093	mg/L	40.46	ppm

3	Ag 328.068	-1992.4	-918.5	-0.0046	mg/L	-0.2277 ppm
3	Al 308.215	2544329.5	2539732.0	69.61	mg/L	3481 ppm
3	As 188.979	353.3	283.9	0.1236	mg/L	6.179 ppm
3	Ba 233.527	105599.9	106465.5	0.3014	mg/L	15.07 ppm
3	Be 313.107	-2660.5	-2246.3	-0.0008	mg/L	-0.0405 ppm
3	Ca 227.547	57112.7	56829.2	222.4	mg/L	11120 ppm
3	Cd 228.802	145.8	56.1	0.0004	mg/L	0.0221 ppm
3	Co 228.616	13429.4	13846.1	0.1309	mg/L	6.544 ppm
3	Cr 267.716	41625.2	41785.0	0.4564	mg/L	22.82 ppm
3	Cu 324.754	39198.0	36911.1	0.1264	mg/L	6.318 ppm
3	Fe 273.955	11410820.0	11407830.1	229.1	mg/L	11450 ppm
3	Mg 279.079	2014738.7	2014142.6	63.42	mg/L	3171 ppm
3	Mn 257.610	9210072.7	9208952.0	5.802	mg/L	290.1 ppm
3	Mo 202.030	-44.8	-16.3	-0.0098	mg/L	-0.4877 ppm
3	Ni 231.604	28127.4	27852.2	0.5504	mg/L	27.52 ppm
3	Pb 220.353	4023.5	3838.6	0.2592	mg/L	12.96 ppm
3	Sb 206.833	145.3	84.7	-0.0045	mg/L	-0.2259 ppm
3	Se 196.026	-75.4	-159.7	0.0059	mg/L	0.2938 ppm
3	Tl 190.800	317.7	129.1	-0.0091	mg/L	-0.4540 ppm
3	V 292.402	42312.8	42150.1	0.3780	mg/L	18.90 ppm
3	Zn 213.856	89632.5	90215.9	0.8266	mg/L	41.33 ppm

ean Data ----------

D: 6233-2 F=50 Seq. No.: 69 Sample No.: 49 A/S Pos: 57

ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 2:57:07 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	-944.5	-0.0047	0.00045	mg/L	-0.2341	0.02273	ppm	9.71%
l 308.215	2524459.2	69.19	0.365	mg/L	3460	18.3	ppm	0.53%
s 188.979	262.9	0.1155	0.00923	mg/L	5.774	0.4614	ppm	7.99%
a 233.527	105910.4	0.2998	0.00136	mg/L	14.99	0.068	ppm	0.45%
e 313.107	-2242.2	-0.0008	0.00005	mg/L	-0.0405	0.00271	ppm	6.69%
a 227.547	56226.3	220.1	2.03	mg/L	11010	101.6	ppm	0.92%
d 228.802	60.9	0.0005	0.00007	mg/L	0.0241	0.00331	ppm	13.78%
o 228.616	13851.3	0.1309	0.00075	mg/L	6.547	0.0375	ppm	0.57%
r 267.716	41541.0	0.4536	0.00267	mg/L	22.68	0.134	ppm	0.59%
u 324.754	36436.9	0.1249	0.00143	mg/L	6.246	0.0716	ppm	1.15%
e 273.955	11452030.9	230.0	3.00	mg/L	11500	150.0	ppm	1.30%
g 279.079	1998025.3	62.91	0.442	mg/L	3145	22.1	ppm	0.70%
n 257.610	9166095.2	5.775	0.1060	mg/L	288.7	5.30	ppm	1.84%
o 202.030	17.6	-0.0080	0.00159	mg/L	-0.3998	0.07957	ppm	19.90%
i 231.604	27732.3	0.5480	0.00715	mg/L	27.40	0.358	ppm	1.31%
b 220.353	3826.9	0.2584	0.00201	mg/L	12.92	0.101	ppm	0.78%
b 206.833	75.2	-0.0067	0.00265	mg/L	-0.3359	0.13260	ppm	39.48%
e 196.026	-176.6	0.0000	0.02740	mg/L	0.0017	1.36996	ppm	>999.9%
l 190.800	135.4	-0.0073	0.00264	mg/L	-0.3658	0.13199	ppm	36.08%
292.402	41815.1	0.3750	0.00347	mg/L	18.75	0.173	ppm	0.93%
n 213.856	88816.8	0.8133	0.01179	mg/L	40.67	0.590	ppm	1.45%

eplicate Data ----------

D: CCV 1379B Date: 11/21/02 3:00:10 PM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	201355.9	202429.9	1.003	mg/L		
1	Al 308.215	188026.4	183428.8	5.027	mg/L		
1	As 188.979	1420.5	1351.0	0.5239	mg/L		
1	Ba 233.527	1773721.5	1774587.1	5.023	mg/L		
1	Be 313.107	1416951.5	1417365.7	0.5115	mg/L		
1	Ca 227.547	14151.7	13868.2	53.04	mg/L		
1	Cd 228.802	134672.2	134582.4	1.062	mg/L		
1	Co 228.616	225149.8	225566.5	2.132	mg/L		
1	Cr 267.716	45066.5	45226.3	0.5001	mg/L		
1	Cu 324.754	655348.9	653062.0	2.050	mg/L		
1	Fe 273.955	253137.2	250147.4	5.024	mg/L		
1	Mg 279.079	810802.3	810206.1	25.51	mg/L		
1	Mn 257.610	3323244.7	3322124.0	2.093	mg/L		
1	Mo 202.030	38667.3	38695.8	2.050	mg/L		

1	Ni 231.604	108814.3	108539.1	2.145	mg/L
1	Pb 220.353	7784.2	7599.3	0.5085	mg/L
1	Sb 206.833	8777.7	8717.0	2.070	mg/L
1	Se 196.026	1455.5	1371.2	0.4995	mg/L
1	Tl 190.800	1962.8	1774.2	0.5158	mg/L
1	V 292.402	220975.5	220812.8	1.980	mg/L
1	Zn 213.856	219045.7	219629.1	2.071	mg/L
2	Ag 328.068	204617.1	205691.1	1.020	mg/L
2	Al 308.215	190933.8	186336.2	5.107	mg/L
2	As 188.979	1419.9	1350.5	0.5237	mg/L
2	Ba 233.527	1805642.6	1806508.2	5.114	mg/L
2	Be 313.107	1441404.5	1441818.7	0.5204	mg/L
2	Ca 227.547	14075.3	13791.8	52.75	mg/L
2	Cd 228.802	136130.4	136040.7	1.074	mg/L
2	Co 228.616	227889.4	228306.1	2.158	mg/L
2	Cr 267.716	45491.7	45651.4	0.5048	mg/L
2	Cu 324.754	668315.3	666028.4	2.091	mg/L
2	Fe 273.955	255426.8	252437.0	5.069	mg/L
2	Mg 279.079	822267.3	821671.2	25.87	mg/L
2	Mn 257.610	3358910.4	3357789.6	2.115	mg/L
2	Mo 202.030	39066.3	39094.8	2.071	mg/L
2	Ni 231.604	109886.7	109611.5	2.166	mg/L
2	Pb 220.353	7762.2	7577.3	0.5070	mg/L
2	Sb 206.833	8757.3	8696.6	2.065	mg/L
2	Se 196.026	1467.6	1383.3	0.5040	mg/L
2	Tl 190.800	1935.1	1746.6	0.5078	mg/L
2	V 292.402	224205.7	224042.9	2.009	mg/L
2	Zn 213.856	221697.1	222280.5	2.096	mg/L
3	Ag 328.068	200454.6	201528.6	0.9990	mg/L
3	Al 308.215	188160.6	183563.0	5.031	mg/L
3	As 188.979	1423.4	1354.0	0.5249	mg/L
3	Ba 233.527	1830788.0	1831653.6	5.185	mg/L
3	Be 313.107	1469592.2	1470006.4	0.5305	mg/L
3	Ca 227.547	14075.8	13792.4	52.75	mg/L
3	Cd 228.802	133600.3	133510.5	1.054	mg/L
3	Co 228.616	223426.4	223843.1	2.116	mg/L
3	Cr 267.716	44396.0	44555.8	0.4927	mg/L
3	Cu 324.754	678428.6	676141.7	2.122	mg/L
3	Fe 273.955	252354.2	249364.4	5.008	mg/L
3	Mg 279.079	835794.6	835198.5	26.30	mg/L
3	Mn 257.610	3403093.2	3401972.5	2.143	mg/L
3	Mo 202.030	38889.7	38918.2	2.062	mg/L
3	Ni 231.604	108770.5	108495.3	2.144	mg/L
3	Pb 220.353	7761.6	7576.7	0.5070	mg/L
3	Sb 206.833	8816.1	8755.4	2.080	mg/L
3	Se 196.026	1476.9	1392.7	0.5073	mg/L
3	Tl 190.800	1953.0	1764.4	0.5130	mg/L
3	V 292.402	218655.0	218492.2	1.960	mg/L
3	Zn 213.856	218433.5	219016.9	2.066	mg/L

an Data ----------

D: CCV 1379B Seq. No.: 70 Sample No.: 5 A/S Pos: 6
mple Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 3:00:10 PM

	Mean Corr.	Mean	Calib	Mean	Sample	
ement	Intensity	Conc.	Std.Dev. Units	Conc.	Std.Dev. Units	RSD
328.068	203216.5	1.007	0.0109 mg/L			1.08%
308.215	184442.7	5.055	0.0450 mg/L			0.89%
s 188.979	1351.8	0.5242	0.00067 mg/L			0.13%
a 233.527	1804249.7	5.107	0.0810 mg/L			1.59%
313.107	1443063.6	0.5208	0.00951 mg/L			1.83%
227.547	13817.5	52.85	0.168 mg/L			0.32%
d 228.802	134711.2	1.063	0.0100 mg/L			0.94%
o 228.616	225905.2	2.135	0.0213 mg/L			1.00%
267.716	45144.5	0.4992	0.00611 mg/L			1.22%
324.754	665077.4	2.088	0.0363 mg/L			1.74%
e 273.955	250649.6	5.034	0.0321 mg/L			0.64%
g 279.079	822358.6	25.89	0.394 mg/L			1.52%
257.610	3360628.7	2.117	0.0252 mg/L			1.19%

o 202.030	38902.9	2.061	0.0106	mg/L	0.51%
i 231.604	108882.0	2.152	0.0125	mg/L	0.58%
b 220.353	7584.4	0.5075	0.00086	mg/L	0.17%
b 206.833	8723.0	2.072	0.0073	mg/L	0.35%
e 196.026	1382.4	0.5036	0.00391	mg/L	0.78%
l 190.800	1761.7	0.5122	0.00408	mg/L	0.80%
292.402	221116.0	1.983	0.0250	mg/L	1.26%
n 213.856	220308.8	2.078	0.0164	mg/L	0.79%

eplicate Data ----------

D: CCB Date: 11/21/02 3:04:24 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1077.8	-3.9	0.0000	mg/L		
1	Al 308.215	5135.0	537.4	0.0147	mg/L		
1	As 188.979	71.8	2.4	0.0009	mg/L		
1	Ba 233.527	-843.7	21.9	0.0001	mg/L		
1	Be 313.107	-84.2	330.1	0.0001	mg/L		
1	Ca 227.547	285.9	2.4	0.0093	mg/L		
1	Cd 228.802	77.2	-12.6	-0.0001	mg/L		
1	Co 228.616	-346.0	70.7	0.0007	mg/L		
1	Cr 267.716	-127.4	32.4	0.0004	mg/L		
1	Cu 324.754	2058.8	-228.1	-0.0007	mg/L		
1	Fe 273.955	2980.7	-9.2	-0.0002	mg/L		
1	Mg 279.079	-314.5	-910.6	-0.0287	mg/L		
1	Mn 257.610	1916.6	795.8	0.0005	mg/L		
1	Mo 202.030	-26.3	2.2	0.0001	mg/L		
1	Ni 231.604	345.8	70.6	0.0014	mg/L		
1	Pb 220.353	195.3	10.4	0.0007	mg/L		
1	Sb 206.833	66.7	6.0	0.0014	mg/L		
1	Se 196.026	87.8	3.5	0.0013	mg/L		
1	Tl 190.800	193.6	5.1	0.0015	mg/L		
1	V 292.402	357.9	195.2	0.0018	mg/L		
1	Zn 213.856	-419.2	164.2	0.0015	mg/L		
2	Ag 328.068	-1171.3	-97.4	-0.0005	mg/L		
2	Al 308.215	5199.4	601.9	0.0165	mg/L		
2	As 188.979	68.2	-1.2	-0.0005	mg/L		
2	Ba 233.527	-785.1	80.5	0.0002	mg/L		
2	Be 313.107	-76.6	337.6	0.0001	mg/L		
2	Ca 227.547	283.7	0.2	0.0009	mg/L		
2	Cd 228.802	70.5	-19.3	-0.0002	mg/L		
2	Co 228.616	-383.1	33.6	0.0003	mg/L		
2	Cr 267.716	-107.7	52.1	0.0006	mg/L		
2	Cu 324.754	2003.8	-283.2	-0.0009	mg/L		
2	Fe 273.955	2807.8	-182.0	-0.0037	mg/L		
2	Mg 279.079	-352.2	-948.3	-0.0299	mg/L		
2	Mn 257.610	1845.7	725.0	0.0005	mg/L		
2	Mo 202.030	-20.8	7.7	0.0004	mg/L		
2	Ni 231.604	334.7	59.5	0.0012	mg/L		
2	Pb 220.353	188.7	3.8	0.0003	mg/L		
2	Sb 206.833	65.3	4.7	0.0011	mg/L		
2	Se 196.026	71.5	-12.8	-0.0046	mg/L		
2	Tl 190.800	186.3	-2.2	-0.0007	mg/L		
2	V 292.402	338.6	175.9	0.0016	mg/L		
2	Zn 213.856	-441.7	141.7	0.0013	mg/L		
3	Ag 328.068	-950.9	123.1	0.0006	mg/L		
3	Al 308.215	5050.7	453.2	0.0124	mg/L		
3	As 188.979	67.7	-1.8	-0.0007	mg/L		
3	Ba 233.527	-778.6	87.0	0.0002	mg/L		
3	Be 313.107	-40.2	374.0	0.0001	mg/L		
3	Ca 227.547	366.9	83.4	0.3190	mg/L		
3	Cd 228.802	113.4	23.6	0.0002	mg/L		
3	Co 228.616	-405.9	10.8	0.0001	mg/L		
3	Cr 267.716	-153.1	6.7	0.0001	mg/L		
3	Cu 324.754	2198.2	-88.8	-0.0003	mg/L		
3	Fe 273.955	2584.7	-405.1	-0.0081	mg/L		
3	Mg 279.079	-187.0	-783.2	-0.0247	mg/L		
3	Mn 257.610	1746.5	625.8	0.0004	mg/L		

3 Mo 202.030	-21.8	6.7	0.0004	mg/L
3 Ni 231.604	252.0	-23.3	-0.0005	mg/L
3 Pb 220.353	184.2	-0.7	0.0000	mg/L
3 Sb 206.833	71.6	11.0	0.0026	mg/L
3 Se 196.026	71.9	-12.4	-0.0045	mg/L
3 Tl 190.800	194.7	6.2	0.0018	mg/L
3 V 292.402	200.4	37.6	0.0003	mg/L
3 Zn 213.856	-479.2	104.2	0.0010	mg/L

an Data ----------

D: CCB Seq. No.: 71 Sample No.: 6 A/S Pos: 1
ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 3:04:24 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
328.068	7.3	0.0000	0.00055	mg/L				>999.9%
308.215	530.8	0.0145	0.00204	mg/L				14.05%
188.979	-0.2	-0.0001	0.00086	mg/L				>999.9%
a 233.527	63.2	0.0002	0.00010	mg/L				56.76%
e 313.107	347.2	0.0001	0.00001	mg/L				6.77%
227.547	28.7	0.1097	0.18126	mg/L				165.18%
228.802	-2.7	0.0000	0.00018	mg/L				840.87%
o 228.616	38.4	0.0004	0.00029	mg/L				78.77%
r 267.716	30.4	0.0003	0.00025	mg/L				74.97%
324.754	-200.0	-0.0006	0.00031	mg/L				50.10%
273.955	-198.8	-0.0040	0.00399	mg/L				99.87%
g 279.079	-880.7	-0.0277	0.00272	mg/L				9.83%
n 257.610	715.5	0.0005	0.00005	mg/L				11.94%
202.030	5.6	0.0003	0.00016	mg/L				52.87%
231.604	35.6	0.0007	0.00101	mg/L				144.00%
b 220.353	4.5	0.0003	0.00037	mg/L				123.87%
b 206.833	7.2	0.0017	0.00079	mg/L				45.73%
196.026	-7.2	-0.0026	0.00337	mg/L				129.13%
190.800	3.0	0.0009	0.00133	mg/L				152.31%
292.402	136.2	0.0012	0.00077	mg/L				63.07%
n 213.856	136.7	0.0013	0.00029	mg/L				22.15%

plicate Data ----------

: M-BL 02M2370S Date: 11/21/02 3:07:45 PM

pl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-979.7	94.2	0.0005	mg/L	0.0234	ppm
1	Al 308.215	5235.6	638.0	0.0175	mg/L	0.8744	ppm
1	As 188.979	71.8	2.4	0.0009	mg/L	0.0459	ppm
1	Ba 233.527	-849.3	16.3	0.0000	mg/L	0.0023	ppm
1	Be 313.107	-138.2	276.0	0.0001	mg/L	0.0050	ppm
1	Ca 227.547	205.6	-77.9	-0.2978	mg/L	-14.89	ppm
1	Cd 228.802	73.5	-16.2	-0.0001	mg/L	-0.0064	ppm
1	Co 228.616	-346.0	70.7	0.0007	mg/L	0.0334	ppm
1	Cr 267.716	-136.5	23.3	0.0003	mg/L	0.0129	ppm
1	Cu 324.754	2105.0	-181.9	-0.0006	mg/L	-0.0285	ppm
1	Fe 273.955	3191.7	201.9	0.0041	mg/L	0.2027	ppm
1	Mg 279.079	-138.3	-734.4	-0.0231	mg/L	-1.156	ppm
1	Mn 257.610	1778.4	657.6	0.0004	mg/L	0.0207	ppm
1	Mo 202.030	-36.4	-7.9	-0.0004	mg/L	-0.0208	ppm
1	Ni 231.604	312.9	37.7	0.0007	mg/L	0.0372	ppm
1	Pb 220.353	208.6	23.7	0.0016	mg/L	0.0793	ppm
1	Sb 206.833	63.4	2.7	0.0007	mg/L	0.0325	ppm
1	Se 196.026	80.4	-3.9	-0.0014	mg/L	-0.0703	ppm
1	Tl 190.800	186.0	-2.5	-0.0007	mg/L	-0.0367	ppm
1	V 292.402	175.3	12.5	0.0001	mg/L	0.0056	ppm
1	Zn 213.856	-321.2	262.2	0.0025	mg/L	0.1237	ppm
2	Ag 328.068	-996.2	77.7	0.0004	mg/L	0.0193	ppm
2	Al 308.215	5028.3	430.7	0.0118	mg/L	0.5903	ppm
2	As 188.979	65.1	-4.3	-0.0017	mg/L	-0.0833	ppm
2	Ba 233.527	-849.9	15.7	0.0000	mg/L	0.0022	ppm
2	Be 313.107	-119.9	294.4	0.0001	mg/L	0.0053	ppm
2	Ca 227.547	195.5	-87.9	-0.3363	mg/L	-16.82	ppm

2	Cd 228.802	84.3	-5.4	0.0000	mg/L	-0.0021 ppm
2	Co 228.616	-391.8	24.9	0.0002	mg/L	0.0118 ppm
2	Cr 267.716	-111.2	48.5	0.0005	mg/L	0.0268 ppm
2	Cu 324.754	2233.6	-53.3	-0.0002	mg/L	-0.0084 ppm
2	Fe 273.955	2904.4	-85.4	-0.0017	mg/L	-0.0858 ppm
2	Mg 279.079	-217.2	-813.4	-0.0256	mg/L	-1.280 ppm
2	Mn 257.610	1715.7	595.0	0.0004	mg/L	0.0187 ppm
2	Mo 202.030	-28.1	0.4	0.0000	mg/L	0.0011 ppm
2	Ni 231.604	391.5	116.3	0.0023	mg/L	0.1149 ppm
2	Pb 220.353	182.9	-2.0	-0.0001	mg/L	-0.0068 ppm
2	Sb 206.833	69.2	8.6	0.0020	mg/L	0.1024 ppm
2	Se 196.026	74.7	-9.6	-0.0035	mg/L	-0.1737 ppm
2	Tl 190.800	188.6	0.0	0.0000	mg/L	0.0007 ppm
2	V 292.402	226.0	63.3	0.0006	mg/L	0.0284 ppm
2	Zn 213.856	-363.2	220.2	0.0021	mg/L	0.1038 ppm
3	Ag 328.068	-997.1	76.9	0.0004	mg/L	0.0191 ppm
3	Al 308.215	5019.8	422.2	0.0116	mg/L	0.5786 ppm
3	As 188.979	75.1	5.7	0.0022	mg/L	0.1091 ppm
3	Ba 233.527	-804.0	61.6	0.0002	mg/L	0.0087 ppm
3	Be 313.107	-170.8	243.4	0.0001	mg/L	0.0044 ppm
3	Ca 227.547	242.7	-40.8	-0.1560	mg/L	-7.798 ppm
3	Cd 228.802	68.7	-21.0	-0.0002	mg/L	-0.0083 ppm
3	Co 228.616	-388.2	28.5	0.0003	mg/L	0.0135 ppm
3	Cr 267.716	-132.8	26.9	0.0003	mg/L	0.0149 ppm
3	Cu 324.754	2071.7	-215.2	-0.0007	mg/L	-0.0338 ppm
3	Fe 273.955	2665.8	-324.0	-0.0065	mg/L	-0.3254 ppm
3	Mg 279.079	16.4	-579.8	-0.0183	mg/L	-0.9127 ppm
3	Mn 257.610	1610.6	489.8	0.0003	mg/L	0.0154 ppm
3	Mo 202.030	-30.2	-1.7	-0.0001	mg/L	-0.0045 ppm
3	Ni 231.604	395.2	120.0	0.0024	mg/L	0.1186 ppm
3	Pb 220.353	184.9	-0.0	0.0000	mg/L	-0.0001 ppm
3	Sb 206.833	56.1	-4.5	-0.0011	mg/L	-0.0540 ppm
3	Se 196.026	79.3	-5.0	-0.0018	mg/L	-0.0910 ppm
3	Tl 190.800	187.9	-0.6	-0.0002	mg/L	-0.0090 ppm
3	V 292.402	172.9	10.1	0.0001	mg/L	0.0045 ppm
3	Zn 213.856	-391.1	192.3	0.0018	mg/L	0.0907 ppm

ean Data ----------

D: M-BL 02M2370S Seq. No.: 72 Sample No.: 50 A/S Pos: 58
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:07:45 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	82.9	0.0004	0.00005	mg/L	0.0206	0.00243	ppm	11.80%
l 308.215	497.0	0.0136	0.00335	mg/L	0.6811	0.16749	ppm	24.59%
s 188.979	1.2	0.0005	0.00196	mg/L	0.0239	0.09808	ppm	410.61%
a 233.527	31.2	0.0001	0.00007	mg/L	0.0044	0.00372	ppm	84.31%
e 313.107	271.2	0.0001	0.00001	mg/L	0.0049	0.00047	ppm	9.52%
a 227.547	-68.9	-0.2634	0.09498	mg/L	-13.17	4.749	ppm	36.06%
d 228.802	-14.2	-0.0001	0.00006	mg/L	-0.0056	0.00316	ppm	56.27%
o 228.616	41.3	0.0004	0.00024	mg/L	0.0195	0.01203	ppm	61.57%
r 267.716	32.9	0.0004	0.00015	mg/L	0.0182	0.00755	ppm	41.46%
u 324.754	-150.1	-0.0005	0.00027	mg/L	-0.0236	0.01342	ppm	56.93%
e 273.955	-69.2	-0.0014	0.00529	mg/L	-0.0695	0.26441	ppm	380.48%
g 279.079	-709.2	-0.0223	0.00374	mg/L	-1.116	0.1870	ppm	16.75%
n 257.610	580.8	0.0004	0.00005	mg/L	0.0183	0.00267	ppm	14.60%
o 202.030	-3.0	-0.0002	0.00023	mg/L	-0.0081	0.01137	ppm	141.12%
i 231.604	91.3	0.0018	0.00092	mg/L	0.0902	0.04595	ppm	50.93%
b 220.353	7.2	0.0005	0.00096	mg/L	0.0241	0.04791	ppm	198.44%
b 206.833	2.3	0.0005	0.00157	mg/L	0.0270	0.07834	ppm	290.38%
e 196.026	-6.1	-0.0022	0.00109	mg/L	-0.1117	0.05469	ppm	48.98%
l 190.800	-1.0	-0.0003	0.00039	mg/L	-0.0150	0.01943	ppm	129.58%
292.402	28.6	0.0003	0.00027	mg/L	0.0128	0.01346	ppm	104.80%
n 213.856	224.9	0.0021	0.00033	mg/L	0.1061	0.01661	ppm	15.66%

eplicate Data ----------

D: LCS-02M2370 Date: 11/21/02 3:11:13 PM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units

1 Ag 328.068	196200.1	197274.0	0.9779	mg/L	48.90 ppm
1 Al 308.215	78569.9	73972.3	2.027	mg/L	101.4 ppm
1 As 188.979	1403.0	1333.6	0.5197	mg/L	25.98 ppm
1 Ba 233.527	1460384.3	1461250.0	4.136	mg/L	206.8 ppm
1 Be 313.107	553286.4	553700.6	0.1998	mg/L	9.992 ppm
1 Ca 227.547	5757.0	5473.5	20.93	mg/L	1047 ppm
1 Cd 228.802	33775.3	33685.6	0.2659	mg/L	13.29 ppm
1 Co 228.616	114296.3	114712.9	1.084	mg/L	54.22 ppm
1 Cr 267.716	89836.9	89996.7	0.9951	mg/L	49.76 ppm
1 Cu 324.754	323486.5	321199.5	1.008	mg/L	50.41 ppm
1 Fe 273.955	51196.8	48206.9	0.9681	mg/L	48.41 ppm
1 Mg 279.079	317348.9	316752.8	9.973	mg/L	498.7 ppm
1 Mn 257.610	1627697.6	1626576.9	1.025	mg/L	51.24 ppm
1 Mo 202.030	38731.7	38760.2	2.053	mg/L	102.7 ppm
1 Ni 231.604	54938.1	54662.9	1.080	mg/L	54.01 ppm
1 Pb 220.353	47097.6	46912.7	3.139	mg/L	156.9 ppm
1 Sb 206.833	2254.5	2193.9	0.4958	mg/L	24.79 ppm
1 Se 196.026	1454.1	1369.8	0.4975	mg/L	24.88 ppm
1 Tl 190.800	1987.5	1799.0	0.5230	mg/L	26.15 ppm
1 V 292.402	219300.3	219137.5	1.965	mg/L	98.27 ppm
1 Zn 213.856	56410.0	56993.4	0.5375	mg/L	26.88 ppm
2 Ag 328.068	191700.6	192774.6	0.9556	mg/L	47.78 ppm
2 Al 308.215	76875.2	72277.6	1.981	mg/L	99.05 ppm
2 As 188.979	1400.6	1331.2	0.5186	mg/L	25.93 ppm
2 Ba 233.527	1430927.3	1431792.9	4.053	mg/L	202.6 ppm
2 Be 313.107	541393.8	541808.0	0.1955	mg/L	9.777 ppm
2 Ca 227.547	5773.3	5489.8	21.00	mg/L	1050 ppm
2 Cd 228.802	32706.3	32616.5	0.2574	mg/L	12.87 ppm
2 Co 228.616	110815.7	111232.4	1.051	mg/L	52.57 ppm
2 Cr 267.716	87732.8	87892.6	0.9719	mg/L	48.59 ppm
2 Cu 324.754	316213.7	313926.8	0.9855	mg/L	49.27 ppm
2 Fe 273.955	49328.1	46338.3	0.9306	mg/L	46.53 ppm
2 Mg 279.079	310017.0	309420.8	9.742	mg/L	487.1 ppm
2 Mn 257.610	1580433.5	1579312.8	0.9950	mg/L	49.75 ppm
2 Mo 202.030	37731.0	37759.5	2.000	mg/L	100.0 ppm
2 Ni 231.604	53320.7	53045.5	1.048	mg/L	52.41 ppm
2 Pb 220.353	45704.9	45520.0	3.046	mg/L	152.3 ppm
2 Sb 206.833	2264.9	2204.3	0.4989	mg/L	24.95 ppm
2 Se 196.026	1448.4	1364.1	0.4955	mg/L	24.77 ppm
2 Tl 190.800	2006.0	1817.4	0.5284	mg/L	26.42 ppm
2 V 292.402	213096.1	212933.4	1.910	mg/L	95.49 ppm
2 Zn 213.856	55100.9	55684.3	0.5252	mg/L	26.26 ppm
3 Ag 328.068	196432.8	197506.7	0.9791	mg/L	48.95 ppm
3 Al 308.215	78522.7	73925.1	2.026	mg/L	101.3 ppm
3 As 188.979	1384.3	1314.9	0.5125	mg/L	25.63 ppm
3 Ba 233.527	1464220.2	1465085.8	4.147	mg/L	207.4 ppm
3 Be 313.107	555551.7	555965.9	0.2006	mg/L	10.03 ppm
3 Ca 227.547	5731.1	5447.6	20.84	mg/L	1042 ppm
3 Cd 228.802	33700.8	33611.0	0.2653	mg/L	13.26 ppm
3 Co 228.616	114381.2	114797.9	1.085	mg/L	54.26 ppm
3 Cr 267.716	89884.7	90044.5	0.9957	mg/L	49.78 ppm
3 Cu 324.754	326531.1	324244.2	1.018	mg/L	50.89 ppm
3 Fe 273.955	50124.5	47134.6	0.9466	mg/L	47.33 ppm
3 Mg 279.079	318839.0	318242.9	10.02	mg/L	501.0 ppm
3 Mn 257.610	1628552.0	1627431.3	1.025	mg/L	51.27 ppm
3 Mo 202.030	39095.5	39124.0	2.072	mg/L	103.6 ppm
3 Ni 231.604	55121.0	54845.8	1.084	mg/L	54.19 ppm
3 Pb 220.353	47041.3	46856.5	3.135	mg/L	156.8 ppm
3 Sb 206.833	2223.1	2162.5	0.4882	mg/L	24.41 ppm
3 Se 196.026	1446.1	1361.8	0.4946	mg/L	24.73 ppm
3 Tl 190.800	1987.9	1799.4	0.5231	mg/L	26.16 ppm
3 V 292.402	219308.1	219145.3	1.965	mg/L	98.27 ppm
3 Zn 213.856	56888.0	57471.4	0.5420	mg/L	27.10 ppm

an Data ----------

: LCS-02M2370 Seq. No.: 73 Sample No.: 51 A/S Pos: 59

ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 3:11:13 PM

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lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	195851.8	0.9709	0.01322	mg/L	48.54	0.661	ppm	1.36%
l 308.215	73391.7	2.012	0.0265	mg/L	100.6	1.32	ppm	1.32%
s 188.979	1326.5	0.5169	0.00386	mg/L	25.85	0.193	ppm	0.75%
a 233.527	1452709.6	4.112	0.0516	mg/L	205.6	2.58	ppm	1.25%
e 313.107	550491.5	0.1987	0.00274	mg/L	9.934	0.1372	ppm	1.38%
a 227.547	5470.3	20.92	0.081	mg/L	1046	4.1	ppm	0.39%
d 228.802	33304.4	0.2629	0.00471	mg/L	13.14	0.236	ppm	1.79%
o 228.616	113581.1	1.074	0.0192	mg/L	53.68	0.962	ppm	1.79%
r 267.716	89311.3	0.9876	0.01359	mg/L	49.38	0.679	ppm	1.38%
u 324.754	319790.2	1.004	0.0166	mg/L	50.19	0.832	ppm	1.66%
e 273.955	47226.6	0.9484	0.01883	mg/L	47.42	0.942	ppm	1.99%
g 279.079	314805.5	9.912	0.1487	mg/L	495.6	7.43	ppm	1.50%
n 257.610	1611107.0	1.015	0.0173	mg/L	50.75	0.867	ppm	1.71%
o 202.030	38547.9	2.042	0.0374	mg/L	102.1	1.87	ppm	1.83%
i 231.604	54184.7	1.071	0.0196	mg/L	53.53	0.979	ppm	1.83%
b 220.353	46429.7	3.107	0.0527	mg/L	155.3	2.64	ppm	1.70%
b 206.833	2186.9	0.4943	0.00549	mg/L	24.72	0.275	ppm	1.11%
e 196.026	1365.2	0.4959	0.00149	mg/L	24.79	0.074	ppm	0.30%
l 190.800	1805.3	0.5249	0.00306	mg/L	26.24	0.153	ppm	0.58%
292.402	217072.1	1.947	0.0321	mg/L	97.34	1.607	ppm	1.65%
n 213.856	56716.4	0.5349	0.00873	mg/L	26.75	0.436	ppm	1.63%

atrix Check Sample: LCS-02M2370

lement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
g 328.068	1.000	0.9709	0.013	mg/L	97.046
l 308.215	2.014	2.012	0.026	mg/L	99.896
s 188.979	0.5005	0.5169	0.004	mg/L	103.292
a 233.527	4.000	4.112	0.052	mg/L	102.802
e 313.107	0.2001	0.1987	0.003	mg/L	99.288
a 227.547	19.74	20.92	0.081	mg/L	105.928
d 228.802	0.2499	0.2629	0.005	mg/L	105.186
o 228.616	1.000	1.074	0.019	mg/L	107.328
r 267.716	1.000	0.9876	0.014	mg/L	98.720
u 324.754	0.9995	1.004	0.017	mg/L	100.434
e 273.955	0.9986	0.9484	0.019	mg/L	94.980
g 279.079	9.978	9.912	0.149	mg/L	99.341
n 257.610	1.000	1.015	0.017	mg/L	101.467
o 202.030	2.000	2.042	0.037	mg/L	102.107
i 231.604	1.002	1.071	0.020	mg/L	106.889
b 220.353	3.000	3.107	0.053	mg/L	103.539
b 206.833	0.5005	0.4943	0.005	mg/L	98.754
e 196.026	0.4978	0.4959	0.001	mg/L	99.620
l 190.800	0.4997	0.5249	0.003	mg/L	105.033
292.402	2.000	1.947	0.032	mg/L	97.329
n 213.856	0.5021	0.5349	0.009	mg/L	106.556

eplicate Data ----------
D: LCSD-02M2370 Date: 11/21/02 3:14:45 PM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	195299.5	196373.5	0.9735	mg/L	48.67	ppm
1	Al 308.215	77841.6	73244.0	2.008	mg/L	100.4	ppm
1	As 188.979	1391.2	1321.7	0.5151	mg/L	25.76	ppm
1	Ba 233.527	1456669.3	1457534.9	4.126	mg/L	206.3	ppm
1	Be 313.107	552171.7	552585.9	0.1994	mg/L	9.971	ppm
1	Ca 227.547	5718.7	5435.3	20.79	mg/L	1039	ppm
1	Cd 228.802	33541.0	33451.3	0.2640	mg/L	13.20	ppm
1	Co 228.616	113596.1	114012.8	1.078	mg/L	53.89	ppm
1	Cr 267.716	89576.0	89735.8	0.9923	mg/L	49.61	ppm
1	Cu 324.754	322122.3	319835.3	1.004	mg/L	50.20	ppm
1	Fe 273.955	50205.6	47215.8	0.9482	mg/L	47.41	ppm
1	Mg 279.079	316649.9	316053.7	9.951	mg/L	497.6	ppm
1	Mn 257.610	1620903.9	1619783.2	1.020	mg/L	51.02	ppm
1	Mo 202.030	38788.7	38817.2	2.056	mg/L	102.8	ppm
1	Ni 231.604	54643.7	54368.5	1.074	mg/L	53.72	ppm

1	Pb 220.353	46735.4	46550.5	3.115 mg/L	155.7 ppm
1	Sb 206.833	2226.0	2165.4	0.4890 mg/L	24.45 ppm
1	Se 196.026	1444.6	1360.3	0.4941 mg/L	24.70 ppm
1	Tl 190.800	2000.6	1812.0	0.5268 mg/L	26.34 ppm
1	V 292.402	218028.3	217865.6	1.954 mg/L	97.70 ppm
1	Zn 213.856	56131.4	56714.8	0.5349 mg/L	26.74 ppm
2	Ag 328.068	197067.1	198141.1	0.9822 mg/L	49.11 ppm
2	Al 308.215	78920.8	74323.3	2.037 mg/L	101.9 ppm
2	As 188.979	1416.4	1347.0	0.5249 mg/L	26.24 ppm
2	Ba 233.527	1466982.8	1467848.4	4.155 mg/L	207.8 ppm
2	Be 313.107	553608.5	554022.7	0.1999 mg/L	9.997 ppm
2	Ca 227.547	5791.4	5507.9	21.07 mg/L	1053 ppm
2	Cd 228.802	33656.2	33566.4	0.2649 mg/L	13.25 ppm
2	Co 228.616	113883.5	114300.2	1.080 mg/L	54.02 ppm
2	Cr 267.716	90359.8	90519.6	1.001 mg/L	50.05 ppm
2	Cu 324.754	325045.1	322758.2	1.013 mg/L	50.66 ppm
2	Fe 273.955	50546.0	47556.2	0.9550 mg/L	47.75 ppm
2	Mg 279.079	317308.8	316712.6	9.972 mg/L	498.6 ppm
2	Mn 257.610	1624747.7	1623627.0	1.023 mg/L	51.15 ppm
2	Mo 202.030	38802.8	38831.3	2.057 mg/L	102.8 ppm
2	Ni 231.604	54476.5	54201.3	1.071 mg/L	53.55 ppm
2	Pb 220.353	47069.1	46884.2	3.137 mg/L	156.9 ppm
2	Sb 206.833	2255.2	2194.5	0.4957 mg/L	24.79 ppm
2	Se 196.026	1447.1	1362.9	0.4950 mg/L	24.75 ppm
2	Tl 190.800	2007.2	1818.7	0.5288 mg/L	26.44 ppm
2	V 292.402	220120.5	219957.8	1.973 mg/L	98.64 ppm
2	Zn 213.856	56229.6	56813.0	0.5358 mg/L	26.79 ppm
3	Ag 328.068	197627.7	198701.6	0.9850 mg/L	49.25 ppm
3	Al 308.215	79435.9	74838.3	2.051 mg/L	102.6 ppm
3	As 188.979	1403.8	1334.3	0.5200 mg/L	26.00 ppm
3	Ba 233.527	1479804.4	1480670.1	4.191 mg/L	209.6 ppm
3	Be 313.107	561417.2	561831.4	0.2028 mg/L	10.14 ppm
3	Ca 227.547	5806.6	5523.2	21.12 mg/L	1056 ppm
3	Cd 228.802	33876.1	33786.4	0.2667 mg/L	13.33 ppm
3	Co 228.616	114683.4	115100.1	1.088 mg/L	54.40 ppm
3	Cr 267.716	90414.2	90574.0	1.002 mg/L	50.08 ppm
3	Cu 324.754	328356.9	326070.0	1.024 mg/L	51.18 ppm
3	Fe 273.955	50409.0	47419.2	0.9523 mg/L	47.61 ppm
3	Mg 279.079	320958.0	320361.9	10.09 mg/L	504.3 ppm
3	Mn 257.610	1637166.2	1636045.5	1.031 mg/L	51.54 ppm
3	Mo 202.030	39400.0	39428.5	2.089 mg/L	104.4 ppm
3	Ni 231.604	55429.5	55154.3	1.090 mg/L	54.49 ppm
3	Pb 220.353	47534.4	47349.5	3.168 mg/L	158.4 ppm
3	Sb 206.833	2268.0	2207.3	0.4988 mg/L	24.94 ppm
3	Se 196.026	1451.7	1367.5	0.4967 mg/L	24.83 ppm
3	Tl 190.800	2007.4	1818.9	0.5288 mg/L	26.44 ppm
3	V 292.402	219454.6	219291.9	1.967 mg/L	98.34 ppm
3	Zn 213.856	56988.3	57571.7	0.5430 mg/L	27.15 ppm

an Data ----------

: LCSD-02M2370 Seq. No.: 74 Sample No.: 52 A/S Pos: 60
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:14:45 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
328.068	197738.7	0.9802	0.00602	mg/L	49.01	0.301	ppm	0.61%
308.215	74135.2	2.032	0.0223	mg/L	101.6	1.11	ppm	1.10%
188.979	1334.3	0.5200	0.00488	mg/L	26.00	0.244	ppm	0.94%
a 233.527	1468684.4	4.157	0.0328	mg/L	207.9	1.64	ppm	0.79%
e 313.107	556146.7	0.2007	0.00180	mg/L	10.04	0.090	ppm	0.89%
227.547	5488.8	20.99	0.180	mg/L	1050	9.0	ppm	0.86%
228.802	33601.3	0.2652	0.00134	mg/L	13.26	0.067	ppm	0.51%
o 228.616	114471.0	1.082	0.0053	mg/L	54.10	0.266	ppm	0.49%
r 267.716	90276.4	0.9982	0.00519	mg/L	49.91	0.259	ppm	0.52%
324.754	322887.8	1.014	0.0098	mg/L	50.68	0.490	ppm	0.97%
273.955	47397.0	0.9518	0.00344	mg/L	47.59	0.172	ppm	0.36%
g 279.079	317709.4	10.00	0.073	mg/L	500.2	3.65	ppm	0.73%
n 257.610	1626485.2	1.025	0.0054	mg/L	51.24	0.268	ppm	0.52%
202.030	39025.7	2.067	0.0185	mg/L	103.4	0.92	ppm	0.89%

i 231.604	54574.7	1.078	0.0101 mg/L	53.92	0.503 ppm	0.93%
b 220.353	46928.1	3.140	0.0269 mg/L	157.0	1.34 ppm	0.86%
b 206.833	2189.1	0.4945	0.00500 mg/L	24.73	0.250 ppm	1.01%
e 196.026	1363.5	0.4953	0.00132 mg/L	24.76	0.066 ppm	0.27%
l 190.800	1816.5	0.5281	0.00114 mg/L	26.41	0.057 ppm	0.21%
292.402	219038.4	1.964	0.0096 mg/L	98.22	0.479 ppm	0.49%
n 213.856	57033.2	0.5379	0.00442 mg/L	26.89	0.221 ppm	0.82%

atrix Check Sample: LCSD-02M2370

lement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
g 328.068	1.000	0.9802	0.006	mg/L	97.981
l 308.215	2.014	2.032	0.022	mg/L	100.915
s 188.979	0.5005	0.5200	0.005	mg/L	103.908
a 233.527	4.000	4.157	0.033	mg/L	103.933
e 313.107	0.2001	0.2007	0.002	mg/L	100.308
a 227.547	19.74	20.99	0.180	mg/L	106.281
d 228.802	0.2499	0.2652	0.001	mg/L	106.124
o 228.616	1.000	1.082	0.005	mg/L	108.169
r 267.716	1.000	0.9982	0.005	mg/L	99.787
u 324.754	0.9995	1.014	0.010	mg/L	101.406
e 273.955	0.9986	0.9518	0.003	mg/L	95.323
g 279.079	9.978	10.00	0.073	mg/L	100.255
n 257.610	1.000	1.025	0.005	mg/L	102.436
o 202.030	2.000	2.067	0.018	mg/L	103.372
i 231.604	1.002	1.078	0.010	mg/L	107.660
b 220.353	3.000	3.140	0.027	mg/L	104.651
b 206.833	0.5005	0.4945	0.005	mg/L	98.797
e 196.026	0.4978	0.4953	0.001	mg/L	99.498
l 190.800	0.4997	0.5281	0.001	mg/L	105.688
292.402	2.000	1.964	0.010	mg/L	98.211
n 213.856	0.5021	0.5379	0.004	mg/L	107.154

eplicate Data ----------
D: 6149-1 S F=50 Date: 11/21/02 3:18:17 PM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-1164.0	-90.1	-0.0004	mg/L	-0.0223	ppm
1	Al 308.215	457498.4	452900.8	12.41	mg/L	620.7	ppm
1	As 188.979	13.2	-56.2	0.0406	mg/L	2.029	ppm
1	Ba 233.527	75844.3	76709.9	0.2171	mg/L	10.86	ppm
1	Be 313.107	-989.2	-574.9	-0.0002	mg/L	-0.0104	ppm
1	Ca 227.547	614492.4	614209.0	2349	mg/L	117500	ppm
1	Cd 228.802	210.0	120.2	0.0009	mg/L	0.0474	ppm
1	Co 228.616	535.1	951.8	0.0090	mg/L	0.4498	ppm
1	Cr 267.716	3782.4	3942.2	0.0436	mg/L	2.180	ppm
1	Cu 324.754	5702.3	3415.3	0.0107	mg/L	0.5361	ppm
1	Fe 273.955	1328199.1	1325209.3	26.61	mg/L	1331	ppm
1	Mg 279.079	1022009.5	1021413.3	32.16	mg/L	1608	ppm
1	Mn 257.610	1433780.2	1432659.5	0.9026	mg/L	45.13	ppm
1	Mo 202.030	-64.3	-35.8	-0.0019	mg/L	-0.0948	ppm
1	Ni 231.604	1547.2	1272.0	0.0251	mg/L	1.257	ppm
1	Pb 220.353	175.9	-9.0	0.0078	mg/L	0.3902	ppm
1	Sb 206.833	77.2	16.5	0.0040	mg/L	0.1977	ppm
1	Se 196.026	59.0	-25.2	-0.0012	mg/L	-0.0582	ppm
1	Tl 190.800	241.7	53.2	0.0131	mg/L	0.6555	ppm
1	V 292.402	5800.9	5638.1	0.0506	mg/L	2.528	ppm
1	Zn 213.856	6686.3	7269.7	0.0686	mg/L	3.428	ppm
2	Ag 328.068	-896.0	178.0	0.0009	mg/L	0.0441	ppm
2	Al 308.215	466028.9	461431.4	12.65	mg/L	632.4	ppm
2	As 188.979	6.9	-62.5	0.0397	mg/L	1.985	ppm
2	Ba 233.527	76976.4	77842.0	0.2203	mg/L	11.02	ppm
2	Be 313.107	-1095.8	-681.5	-0.0002	mg/L	-0.0123	ppm
2	Ca 227.547	629957.8	629674.4	2408	mg/L	120400	ppm
2	Cd 228.802	192.0	102.2	0.0008	mg/L	0.0403	ppm
2	Co 228.616	539.4	956.1	0.0090	mg/L	0.4519	ppm
2	Cr 267.716	3708.2	3868.0	0.0428	mg/L	2.139	ppm

2 Cu 324.754	5586.4	3299.4	0.0104	mg/L	0.5179 ppm
2 Fe 273.955	1338724.5	1335734.7	26.82	mg/L	1341 ppm
2 Mg 279.079	1034950.0	1034353.9	32.57	mg/L	1628 ppm
2 Mn 257.610	1463422.2	1462301.5	0.9213	mg/L	46.06 ppm
2 Mo 202.030	-70.8	-42.3	-0.0022	mg/L	-0.1120 ppm
2 Ni 231.604	1518.7	1243.5	0.0246	mg/L	1.229 ppm
2 Pb 220.353	175.9	-9.0	0.0080	mg/L	0.4007 ppm
2 Sb 206.833	90.1	29.4	0.0070	mg/L	0.3521 ppm
2 Se 196.026	66.8	-17.5	0.0017	mg/L	0.0861 ppm
2 Tl 190.800	236.6	48.1	0.0117	mg/L	0.5832 ppm
2 V 292.402	6062.8	5900.0	0.0529	mg/L	2.646 ppm
2 Zn 213.856	6734.0	7317.4	0.0690	mg/L	3.451 ppm
3 Ag 328.068	-873.0	201.0	0.0010	mg/L	0.0498 ppm
3 Al 308.215	453734.5	449137.0	12.31	mg/L	615.5 ppm
3 As 188.979	-1.3	-70.7	0.0341	mg/L	1.705 ppm
3 Ba 233.527	74484.6	75350.2	0.2133	mg/L	10.66 ppm
3 Be 313.107	-1270.7	-856.5	-0.0003	mg/L	-0.0155 ppm
3 Ca 227.547	605538.5	605255.0	2315	mg/L	115700 ppm
3 Cd 228.802	190.7	100.9	0.0008	mg/L	0.0398 ppm
3 Co 228.616	514.2	930.9	0.0088	mg/L	0.4400 ppm
3 Cr 267.716	3727.3	3887.1	0.0430	mg/L	2.149 ppm
3 Cu 324.754	5350.4	3063.5	0.0096	mg/L	0.4808 ppm
3 Fe 273.955	1305910.5	1302920.7	26.17	mg/L	1308 ppm
3 Mg 279.079	1002975.9	1002379.7	31.56	mg/L	1578 ppm
3 Mn 257.610	1412094.5	1410973.8	0.8889	mg/L	44.45 ppm
3 Mo 202.030	-66.1	-37.6	-0.0020	mg/L	-0.0997 ppm
3 Ni 231.604	1519.7	1244.5	0.0246	mg/L	1.230 ppm
3 Pb 220.353	179.4	-5.5	0.0079	mg/L	0.3957 ppm
3 Sb 206.833	86.2	25.6	0.0061	mg/L	0.3061 ppm
3 Se 196.026	52.9	-31.4	-0.0035	mg/L	-0.1762 ppm
3 Tl 190.800	235.8	47.3	0.0124	mg/L	0.6208 ppm
3 V 292.402	5932.2	5769.4	0.0517	mg/L	2.587 ppm
3 Zn 213.856	6744.5	7327.9	0.0691	mg/L	3.456 ppm

an Data ----------

D: 6149-1 S F=50 Seq. No.: 75 Sample No.: 53 A/S Pos: 61
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:18:17 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
328.068	96.3	0.0005	0.00080	mg/L	0.0239	0.04011	ppm	168.06%
308.215	454489.7	12.46	0.173	mg/L	622.8	8.63	ppm	1.39%
s 188.979	-63.2	0.0381	0.00352	mg/L	1.906	0.1758	ppm	9.22%
a 233.527	76634.1	0.2169	0.00353	mg/L	10.85	0.177	ppm	1.63%
313.107	-704.3	-0.0003	0.00005	mg/L	-0.0127	0.00256	ppm	20.18%
227.547	616379.5	2357	47.2	mg/L	117900	2362.4	ppm	2.00%
d 228.802	107.8	0.0009	0.00009	mg/L	0.0425	0.00426	ppm	10.01%
o 228.616	946.2	0.0089	0.00013	mg/L	0.4472	0.00637	ppm	1.42%
267.716	3899.1	0.0431	0.00043	mg/L	2.156	0.0213	ppm	0.99%
324.754	3259.4	0.0102	0.00056	mg/L	0.5116	0.02815	ppm	5.50%
273.955	1321288.2	26.53	0.336	mg/L	1327	16.8	ppm	1.27%
g 279.079	1019382.3	32.10	0.506	mg/L	1605	25.3	ppm	1.58%
n 257.610	1435311.6	0.9043	0.01623	mg/L	45.21	0.812	ppm	1.80%
202.030	-38.6	-0.0020	0.00018	mg/L	-0.1022	0.00887	ppm	8.68%
231.604	1253.3	0.0248	0.00032	mg/L	1.238	0.0160	ppm	1.29%
b 220.353	-7.8	0.0079	0.00011	mg/L	0.3955	0.00526	ppm	1.33%
h 206.833	23.9	0.0057	0.00159	mg/L	0.2853	0.07927	ppm	27.79%
196.026	-24.7	-0.0010	0.00263	mg/L	-0.0494	0.13136	ppm	265.67%
190.800	49.5	0.0124	0.00072	mg/L	0.6198	0.03615	ppm	5.83%
292.402	5769.2	0.0517	0.00117	mg/L	2.587	0.0587	ppm	2.27%
n 213.856	7305.0	0.0689	0.00029	mg/L	3.445	0.0146	ppm	0.43%

licate Data ----------

D: 6149-1 D F=50 Date: 11/21/02 3:21:48 PM

pl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1173.4	-99.4	-0.0005	mg/L	-0.0246	ppm
1	Al 308.215	465829.8	461232.2	12.64	mg/L	632.1	ppm

1	As 188.979	2.7	-66.7	0.0374	mg/L	1.869	ppm
1	Ba 233.527	76195.6	77061.2	0.2181	mg/L	10.91	ppm
1	Be 313.107	-1402.3	-988.1	-0.0004	mg/L	-0.0178	ppm
1	Ca 227.547	622931.7	622648.2	2381	mg/L	119100	ppm
1	Cd 228.802	185.2	95.5	0.0008	mg/L	0.0377	ppm
1	Co 228.616	517.6	934.3	0.0088	mg/L	0.4416	ppm
1	Cr 267.716	3727.1	3886.9	0.0430	mg/L	2.149	ppm
1	Cu 324.754	5230.2	2943.3	0.0092	mg/L	0.4620	ppm
1	Fe 273.955	1342052.3	1339062.5	26.89	mg/L	1345	ppm
1	Mg 279.079	1030126.6	1029530.5	32.42	mg/L	1621	ppm
1	Mn 257.610	1453428.3	1452307.6	0.9150	mg/L	45.75	ppm
1	Mo 202.030	-76.2	-47.7	-0.0025	mg/L	-0.1264	ppm
1	Ni 231.604	1499.7	1224.5	0.0242	mg/L	1.210	ppm
1	Pb 220.353	164.7	-20.1	0.0072	mg/L	0.3587	ppm
1	Sb 206.833	86.4	25.8	0.0062	mg/L	0.3081	ppm
1	Se 196.026	51.5	-32.8	-0.0038	mg/L	-0.1912	ppm
1	Tl 190.800	220.8	32.2	0.0070	mg/L	0.3500	ppm
1	V 292.402	6022.4	5859.6	0.0526	mg/L	2.628	ppm
1	Zn 213.856	6684.6	7268.0	0.0685	mg/L	3.427	ppm
2	Ag 328.068	-1234.9	-161.0	-0.0008	mg/L	-0.0399	ppm
2	Al 308.215	451365.0	446767.4	12.25	mg/L	612.3	ppm
2	As 188.979	-1.5	-70.9	0.0341	mg/L	1.707	ppm
2	Ba 233.527	74180.4	75046.0	0.2124	mg/L	10.62	ppm
2	Be 313.107	-1465.4	-1051.2	-0.0004	mg/L	-0.0190	ppm
2	Ca 227.547	606774.8	606491.3	2320	mg/L	116000	ppm
2	Cd 228.802	202.8	113.1	0.0009	mg/L	0.0446	ppm
2	Co 228.616	502.0	918.7	0.0087	mg/L	0.4342	ppm
2	Cr 267.716	3713.0	3872.8	0.0428	mg/L	2.141	ppm
2	Cu 324.754	5203.5	2916.6	0.0092	mg/L	0.4578	ppm
2	Fe 273.955	1306913.4	1303923.6	26.19	mg/L	1309	ppm
2	Mg 279.079	1006413.2	1005817.0	31.67	mg/L	1583	ppm
2	Mn 257.610	1415384.8	1414264.0	0.8910	mg/L	44.55	ppm
2	Mo 202.030	-85.9	-57.4	-0.0030	mg/L	-0.1519	ppm
2	Ni 231.604	1492.5	1217.3	0.0241	mg/L	1.203	ppm
2	Pb 220.353	173.9	-11.0	0.0076	mg/L	0.3782	ppm
2	Sb 206.833	72.4	11.8	0.0028	mg/L	0.1411	ppm
2	Se 196.026	62.0	-22.3	-0.0002	mg/L	-0.0112	ppm
2	Tl 190.800	227.6	39.0	0.0100	mg/L	0.5020	ppm
2	V 292.402	5893.3	5730.5	0.0514	mg/L	2.570	ppm
2	Zn 213.856	6671.4	7254.8	0.0684	mg/L	3.421	ppm
3	Ag 328.068	-844.2	229.7	0.0011	mg/L	0.0569	ppm
3	Al 308.215	463831.3	459233.8	12.59	mg/L	629.3	ppm
3	As 188.979	0.8	-68.6	0.0368	mg/L	1.838	ppm
3	Ba 233.527	75931.0	76796.6	0.2174	mg/L	10.87	ppm
3	Be 313.107	-1343.4	-929.2	-0.0003	mg/L	-0.0168	ppm
3	Ca 227.547	623903.2	623619.8	2385	mg/L	119300	ppm
3	Cd 228.802	175.0	85.3	0.0007	mg/L	0.0336	ppm
3	Co 228.616	512.8	929.5	0.0088	mg/L	0.4393	ppm
3	Cr 267.716	3714.5	3874.3	0.0428	mg/L	2.142	ppm
3	Cu 324.754	5406.9	3119.9	0.0098	mg/L	0.4897	ppm
3	Fe 273.955	1327939.8	1324950.0	26.61	mg/L	1330	ppm
3	Mg 279.079	1026716.4	1026120.3	32.31	mg/L	1615	ppm
3	Mn 257.610	1454254.6	1453133.9	0.9155	mg/L	45.78	ppm
3	Mo 202.030	-92.7	-64.2	-0.0034	mg/L	-0.1699	ppm
3	Ni 231.604	1483.0	1207.8	0.0239	mg/L	1.193	ppm
3	Pb 220.353	181.9	-3.0	0.0083	mg/L	0.4167	ppm
3	Sb 206.833	70.2	9.6	0.0023	mg/L	0.1146	ppm
3	Se 196.026	60.0	-24.3	-0.0008	mg/L	-0.0418	ppm
3	Tl 190.800	232.4	43.9	0.0104	mg/L	0.5223	ppm
3	V 292.402	6109.1	5946.3	0.0533	mg/L	2.667	ppm
3	Zn 213.856	6744.0	7327.4	0.0691	mg/L	3.455	ppm

ean Data ----------

D: 6149-1 D F=50 Seq. No.: 76 Sample No.: 54 A/S Pos: 62

ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 3:21:48 PM

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lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
g 328.068	-10.2	-0.0001	0.00104	mg/L	-0.0025	0.05206	ppm	>999.9%

11870-A

308.215	455744.5	12.49	0.215 mg/L	624.6	10.74 ppm	1.72%
188.979	-68.8	0.0361	0.00172 mg/L	1.805	0.0859 ppm	4.76%
a 233.527	76301.3	0.2160	0.00310 mg/L	10.80	0.155 ppm	1.44%
e 313.107	-989.5	-0.0004	0.00002 mg/L	-0.0179	0.00110 ppm	6.17%
227.547	617586.5	2362	36.8 mg/L	118100	1839.8 ppm	1.56%
228.802	97.9	0.0008	0.00011 mg/L	0.0386	0.00555 ppm	14.36%
o 228.616	927.5	0.0088	0.00008 mg/L	0.4384	0.00377 ppm	0.86%
r 267.716	3878.0	0.0429	0.00009 mg/L	2.144	0.0043 ppm	0.20%
324.754	2993.3	0.0094	0.00035 mg/L	0.4698	0.01735 ppm	3.69%
273.955	1322645.4	26.56	0.355 mg/L	1328	17.8 ppm	1.34%
g 279.079	1020489.3	32.13	0.404 mg/L	1607	20.2 ppm	1.26%
n 257.610	1439901.8	0.9072	0.01399 mg/L	45.36	0.700 ppm	1.54%
202.030	-56.4	-0.0030	0.00044 mg/L	-0.1494	0.02188 ppm	14.64%
231.604	1216.5	0.0240	0.00017 mg/L	1.202	0.0083 ppm	0.69%
220.353	-11.4	0.0077	0.00059 mg/L	0.3845	0.02956 ppm	7.69%
b 206.833	15.7	0.0038	0.00210 mg/L	0.1879	0.10489 ppm	55.82%
196.026	-26.5	-0.0016	0.00193 mg/L	-0.0814	0.09627 ppm	118.26%
190.800	38.4	0.0092	0.00188 mg/L	0.4581	0.09415 ppm	20.55%
292.402	5845.5	0.0524	0.00097 mg/L	2.621	0.0487 ppm	1.86%
n 213.856	7283.4	0.0687	0.00036 mg/L	3.435	0.0182 ppm	0.53%

trix Check Sample: 6149-1 D F=50

ement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	Relative % Diff.
328.068	0.0005	-0.0001	0.001	mg/L	247.505
308.215	12.46	12.49	0.215	mg/L	0.276
s 188.979	0.0381	0.0361	0.002	mg/L	5.464
233.527	0.2169	0.2160	0.003	mg/L	0.435
313.107	-0.0003	-0.0004	0.000	mg/L	-33.669
227.547	2357	2362	36.797	mg/L	0.196
d 228.802	0.0009	0.0008	0.000	mg/L	9.582
228.616	0.0089	0.0088	0.000	mg/L	1.999
267.716	0.0431	0.0429	0.000	mg/L	0.543
324.754	0.0102	0.0094	0.000	mg/L	8.513
e 273.955	26.53	26.56	0.355	mg/L	0.103
g 279.079	32.10	32.13	0.404	mg/L	0.109
257.610	0.9043	0.9072	0.014	mg/L	0.319
202.030	-0.0020	-0.0030	0.000	mg/L	-37.555
i 231.604	0.0248	0.0240	0.000	mg/L	2.977
b 220.353	0.0079	0.0077	0.001	mg/L	2.817
206.833	0.0057	0.0038	0.002	mg/L	41.155
196.026	-0.0010	-0.0016	0.002	mg/L	-48.852
190.800	0.0124	0.0092	0.002	mg/L	30.004
292.402	0.0517	0.0524	0.001	mg/L	1.314
213.856	0.0689	0.0687	0.000	mg/L	0.297

eplicate Data ----------
D: 6149-1 1/5 F=250 Date: 11/21/02 3:25:15 PM

pl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-1151.9	-77.9	-0.0004	mg/L	-0.0966	ppm
1	Al 308.215	107073.1	102475.5	2.809	mg/L	702.2	ppm
1	As 188.979	51.7	-17.7	0.0066	mg/L	1.647	ppm
1	Ba 233.527	16854.9	17720.5	0.0502	mg/L	12.54	ppm
1	Be 313.107	-497.8	-83.6	0.0000	mg/L	-0.0075	ppm
1	Ca 227.547	134832.2	134548.8	514.6	mg/L	128700	ppm
1	Cd 228.802	113.3	23.6	0.0002	mg/L	0.0465	ppm
1	Co 228.616	-159.0	257.7	0.0024	mg/L	0.6089	ppm
1	Cr 267.716	705.5	865.3	0.0096	mg/L	2.392	ppm
1	Cu 324.754	2815.5	528.6	0.0017	mg/L	0.4148	ppm
1	Fe 273.955	309804.4	306814.5	6.162	mg/L	1540	ppm
1	Mg 279.079	236672.1	236076.0	7.433	mg/L	1858	ppm
1	Mn 257.610	331424.2	330303.5	0.2081	mg/L	52.02	ppm
1	Mo 202.030	-39.4	-10.9	-0.0006	mg/L	-0.1443	ppm
1	Ni 231.604	572.4	297.2	0.0059	mg/L	1.468	ppm
1	Pb 220.353	171.8	-13.1	0.0010	mg/L	0.2419	ppm
1	Sb 206.833	62.2	1.6	0.0004	mg/L	0.0959	ppm
1	Se 196.026	70.1	-14.1	-0.0033	mg/L	-0.8213	ppm

1	Tl 190.800	195.6	7.1	0.0021	mg/L	0.5130 ppm
1	V 292.402	1520.8	1358.1	0.0122	mg/L	3.045 ppm
1	Zn 213.856	921.8	1505.2	0.0142	mg/L	3.549 ppm
2	Ag 328.068	-1040.5	33.5	0.0002	mg/L	0.0415 ppm
2	Al 308.215	104389.5	99791.9	2.735	mg/L	683.8 ppm
2	As 188.979	50.2	-19.2	0.0058	mg/L	1.459 ppm
2	Ba 233.527	16384.7	17250.3	0.0488	mg/L	12.21 ppm
2	Be 313.107	-605.4	-191.2	-0.0001	mg/L	-0.0173 ppm
2	Ca 227.547	133033.6	132750.2	507.7	mg/L	126900 ppm
2	Cd 228.802	104.2	14.5	0.0001	mg/L	0.0286 ppm
2	Co 228.616	-172.7	244.0	0.0023	mg/L	0.5767 ppm
2	Cr 267.716	709.5	869.2	0.0096	mg/L	2.403 ppm
2	Cu 324.754	2898.9	612.0	0.0019	mg/L	0.4803 ppm
2	Fe 273.955	300706.0	297716.1	5.979	mg/L	1495 ppm
2	Mg 279.079	232938.9	232342.7	7.315	mg/L	1829 ppm
2	Mn 257.610	325555.1	324434.4	0.2044	mg/L	51.10 ppm
2	Mo 202.030	-50.4	-21.9	-0.0012	mg/L	-0.2896 ppm
2	Ni 231.604	575.9	300.7	0.0059	mg/L	1.485 ppm
2	Pb 220.353	173.0	-11.9	0.0010	mg/L	0.2554 ppm
2	Sb 206.833	68.1	7.5	0.0018	mg/L	0.4494 ppm
2	Se 196.026	62.3	-22.0	-0.0062	mg/L	-1.551 ppm
2	Tl 190.800	194.3	5.8	0.0017	mg/L	0.4200 ppm
2	V 292.402	1485.6	1322.9	0.0119	mg/L	2.966 ppm
2	Zn 213.856	900.6	1484.0	0.0140	mg/L	3.499 ppm
3	Ag 328.068	-998.5	75.4	0.0004	mg/L	0.0935 ppm
3	Al 308.215	104680.0	100082.4	2.743	mg/L	685.8 ppm
3	As 188.979	50.1	-19.4	0.0057	mg/L	1.420 ppm
3	Ba 233.527	16355.9	17221.5	0.0487	mg/L	12.19 ppm
3	Be 313.107	-477.3	-63.1	0.0000	mg/L	-0.0057 ppm
3	Ca 227.547	132204.5	131921.0	504.6	mg/L	126100 ppm
3	Cd 228.802	88.4	-1.3	0.0000	mg/L	-0.0026 ppm
3	Co 228.616	-175.4	241.3	0.0023	mg/L	0.5702 ppm
3	Cr 267.716	693.8	853.6	0.0094	mg/L	2.360 ppm
3	Cu 324.754	2891.4	604.4	0.0019	mg/L	0.4743 ppm
3	Fe 273.955	302225.9	299236.1	6.009	mg/L	1502 ppm
3	Mg 279.079	231906.4	231310.2	7.283	mg/L	1821 ppm
3	Mn 257.610	324435.3	323314.6	0.2037	mg/L	50.92 ppm
3	Mo 202.030	-36.0	-7.5	-0.0004	mg/L	-0.0987 ppm
3	Ni 231.604	577.2	302.0	0.0060	mg/L	1.492 ppm
3	Pb 220.353	163.0	-21.9	0.0003	mg/L	0.0852 ppm
3	Sb 206.833	75.8	15.2	0.0036	mg/L	0.9093 ppm
3	Se 196.026	61.5	-22.8	-0.0065	mg/L	-1.619 ppm
3	Tl 190.800	192.8	4.3	0.0013	mg/L	0.3135 ppm
3	V 292.402	1494.0	1331.2	0.0119	mg/L	2.985 ppm
3	Zn 213.856	887.2	1470.6	0.0139	mg/L	3.467 ppm

ean Data ----------

D: 6149-1 1/5 F=250 Seq. No.: 77 Sample No.: 55 A/S Pos: 63
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 250.0
Data: Original Date: 11/21/02 3:25:15 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	10.3	0.0001	0.00039	mg/L	0.0128	0.09822	ppm	767.78%
l 308.215	100783.3	2.762	0.0404	mg/L	690.6	10.09	ppm	1.46%
s 188.979	-18.8	0.0060	0.00049	mg/L	1.509	0.1217	ppm	8.07%
a 233.527	17397.4	0.0492	0.00079	mg/L	12.31	0.198	ppm	1.61%
e 313.107	-112.7	0.0000	0.00002	mg/L	-0.0102	0.00621	ppm	61.07%
a 227.547	133073.3	509.0	5.14	mg/L	127200	1284.5	ppm	1.01%
d 228.802	12.3	0.0001	0.00010	mg/L	0.0242	0.02485	ppm	102.80%
o 228.616	247.6	0.0023	0.00008	mg/L	0.5852	0.02075	ppm	3.55%
r 267.716	862.7	0.0095	0.00009	mg/L	2.385	0.0225	ppm	0.94%
u 324.754	581.7	0.0018	0.00014	mg/L	0.4565	0.03620	ppm	7.93%
e 273.955	301255.6	6.050	0.0979	mg/L	1512	24.5	ppm	1.62%
g 279.079	233243.0	7.344	0.0789	mg/L	1836	19.7	ppm	1.07%
n 257.610	326017.5	0.2054	0.00236	mg/L	51.35	0.591	ppm	1.15%
o 202.030	-13.4	-0.0007	0.00040	mg/L	-0.1775	0.09969	ppm	56.15%
i 231.604	299.9	0.0059	0.00005	mg/L	1.482	0.0122	ppm	0.83%
b 220.353	-15.6	0.0008	0.00038	mg/L	0.1941	0.09461	ppm	48.74%
b 206.833	8.1	0.0019	0.00163	mg/L	0.4848	0.40787	ppm	84.12%

e 196.026	-19.7	-0.0053	0.00177 mg/L	-1.331	0.4424 ppm	33.25%
190.800	5.7	0.0017	0.00040 mg/L	0.4155	0.09980 ppm	24.02%
292.402	1337.4	0.0120	0.00016 mg/L	2.999	0.0412 ppm	1.37%
n 213.856	1486.6	0.0140	0.00016 mg/L	3.505	0.0412 ppm	1.17%

eplicate Data ----------
D: 6149-1 MS F=50 Date: 11/21/02 3:28:44 PM

pl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	187887.1	188961.0	0.9367	mg/L	46.84	ppm
1	Al 308.215	498992.5	494394.9	13.55	mg/L	677.5	ppm
1	As 188.979	1184.7	1115.3	0.4966	mg/L	24.83	ppm
1	Ba 233.527	1330418.2	1331283.8	3.768	mg/L	188.4	ppm
1	Be 313.107	487455.1	487869.3	0.1761	mg/L	8.804	ppm
1	Ca 227.547	607480.3	607196.9	2322	mg/L	116100	ppm
1	Cd 228.802	29933.0	29843.3	0.2355	mg/L	11.78	ppm
1	Co 228.616	94990.6	95407.3	0.9019	mg/L	45.09	ppm
1	Cr 267.716	81014.1	81173.9	0.8976	mg/L	44.88	ppm
1	Cu 324.754	281879.5	279592.5	0.8777	mg/L	43.88	ppm
1	Fe 273.955	1315236.5	1312246.7	26.35	mg/L	1318	ppm
1	Mg 279.079	1206617.7	1206021.5	37.97	mg/L	1899	ppm
1	Mn 257.610	2611144.9	2610024.2	1.644	mg/L	82.22	ppm
1	Mo 202.030	33810.1	33838.6	1.793	mg/L	89.63	ppm
1	Ni 231.604	45834.4	45559.2	0.9003	mg/L	45.01	ppm
1	Pb 220.353	39280.4	39095.5	2.624	mg/L	131.2	ppm
1	Sb 206.833	2032.9	1972.3	0.4456	mg/L	22.28	ppm
1	Se 196.026	1294.3	1210.0	0.4474	mg/L	22.37	ppm
1	Tl 190.800	1660.2	1471.7	0.4252	mg/L	21.26	ppm
1	V 292.402	203282.0	203119.2	1.822	mg/L	91.09	ppm
1	Zn 213.856	53845.2	54428.6	0.5133	mg/L	25.67	ppm
2	Ag 328.068	189655.8	190729.8	0.9455	mg/L	47.27	ppm
2	Al 308.215	505680.8	501083.2	13.73	mg/L	686.7	ppm
2	As 188.979	1212.7	1143.2	0.5084	mg/L	25.42	ppm
2	Ba 233.527	1343403.4	1344269.0	3.805	mg/L	190.3	ppm
2	Be 313.107	490923.4	491337.6	0.1773	mg/L	8.866	ppm
2	Ca 227.547	617248.0	616964.6	2360	mg/L	118000	ppm
2	Cd 228.802	30495.6	30405.8	0.2400	mg/L	12.00	ppm
2	Co 228.616	95857.9	96274.6	0.9101	mg/L	45.50	ppm
2	Cr 267.716	81973.3	82133.1	0.9082	mg/L	45.41	ppm
2	Cu 324.754	289235.2	286948.3	0.9008	mg/L	45.04	ppm
2	Fe 273.955	1325032.4	1322042.5	26.55	mg/L	1327	ppm
2	Mg 279.079	1220290.2	1219694.1	38.40	mg/L	1920	ppm
2	Mn 257.610	2654216.6	2653095.9	1.672	mg/L	83.58	ppm
2	Mo 202.030	33943.6	33972.1	1.800	mg/L	89.98	ppm
2	Ni 231.604	46304.7	46029.5	0.9095	mg/L	45.48	ppm
2	Pb 220.353	39476.5	39291.6	2.637	mg/L	131.9	ppm
2	Sb 206.833	2044.7	1984.1	0.4481	mg/L	22.41	ppm
2	Se 196.026	1299.3	1215.0	0.4493	mg/L	22.46	ppm
2	Tl 190.800	1672.4	1483.8	0.4287	mg/L	21.44	ppm
2	V 292.402	206208.0	206045.2	1.848	mg/L	92.40	ppm
2	Zn 213.856	54584.9	55168.3	0.5203	mg/L	26.02	ppm
3	Ag 328.068	184822.5	185896.5	0.9215	mg/L	46.08	ppm
3	Al 308.215	502968.8	498371.3	13.66	mg/L	683.0	ppm
3	As 188.979	1205.2	1135.7	0.5041	mg/L	25.20	ppm
3	Ba 233.527	1329658.1	1330523.7	3.766	mg/L	188.3	ppm
3	Be 313.107	486729.8	487144.0	0.1758	mg/L	8.791	ppm
3	Ca 227.547	604739.1	604455.6	2312	mg/L	115600	ppm
3	Cd 228.802	29434.9	29345.2	0.2316	mg/L	11.58	ppm
3	Co 228.616	93281.7	93698.4	0.8857	mg/L	44.29	ppm
3	Cr 267.716	80065.4	80225.2	0.8871	mg/L	44.35	ppm
3	Cu 324.754	282733.1	280446.2	0.8804	mg/L	44.02	ppm
3	Fe 273.955	1320737.7	1317747.9	26.46	mg/L	1323	ppm
3	Mg 279.079	1202487.3	1201891.1	37.84	mg/L	1892	ppm
3	Mn 257.610	2607919.4	2606798.7	1.642	mg/L	82.12	ppm
3	Mo 202.030	33093.0	33121.5	1.755	mg/L	87.73	ppm
3	Ni 231.604	44813.2	44538.0	0.8801	mg/L	44.00	ppm
3	Pb 220.353	38307.1	38122.2	2.559	mg/L	128.0	ppm
3	Sb 206.833	2056.5	1995.9	0.4515	mg/L	22.58	ppm

3 Se 196.026	1307.3	1223.0	0.4522 mg/L	22.61 ppm
3 Tl 190.800	1683.5	1495.0	0.4319 mg/L	21.60 ppm
3 V 292.402	200733.3	200570.6	1.799 mg/L	89.94 ppm
3 Zn 213.856	52894.9	53478.3	0.5044 mg/L	25.22 ppm

ean Data ----------

D: 6149-1 MS F=50 Seq. No.: 78 Sample No.: 56 A/S Pos: 64
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:28:44 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	188529.1	0.9346	0.01212	mg/L	46.73	0.606	ppm	1.30%
l 308.215	497949.8	13.65	0.092	mg/L	682.4	4.61	ppm	0.68%
s 188.979	1131.4	0.5030	0.00596	mg/L	25.15	0.298	ppm	1.19%
a 233.527	1335358.8	3.780	0.0219	mg/L	189.0	1.09	ppm	0.58%
e 313.107	488783.6	0.1764	0.00081	mg/L	8.820	0.0404	ppm	0.46%
a 227.547	609539.0	2331	25.1	mg/L	116600	1257.4	ppm	1.08%
d 228.802	29864.7	0.2357	0.00419	mg/L	11.79	0.209	ppm	1.78%
o 228.616	95126.8	0.8992	0.01239	mg/L	44.96	0.620	ppm	1.38%
r 267.716	81177.4	0.8976	0.01055	mg/L	44.88	0.527	ppm	1.18%
u 324.754	282329.0	0.8863	0.01263	mg/L	44.31	0.631	ppm	1.42%
e 273.955	1317345.7	26.46	0.099	mg/L	1323	4.9	ppm	0.37%
g 279.079	1209202.2	38.07	0.293	mg/L	1904	14.7	ppm	0.77%
n 257.610	2623306.2	1.653	0.0163	mg/L	82.64	0.814	ppm	0.99%
o 202.030	33644.0	1.782	0.0242	mg/L	89.11	1.212	ppm	1.36%
i 231.604	45375.5	0.8966	0.01507	mg/L	44.83	0.753	ppm	1.68%
b 220.353	38836.5	2.607	0.0420	mg/L	130.3	2.10	ppm	1.61%
b 206.833	1984.1	0.4484	0.00298	mg/L	22.42	0.149	ppm	0.66%
e 196.026	1216.0	0.4496	0.00239	mg/L	22.48	0.119	ppm	0.53%
l 190.800	1483.5	0.4286	0.00337	mg/L	21.43	0.168	ppm	0.79%
292.402	203245.0	1.823	0.0246	mg/L	91.14	1.228	ppm	1.35%
n 213.856	54358.4	0.5127	0.00799	mg/L	25.63	0.399	ppm	1.56%

atrix Check Sample: 6149-1 MS F=50

lement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
g 328.068	1.000	0.9346	0.012	mg/L	93.409
l 308.215	14.46	13.65	0.092	mg/L	59.559
s 188.979	0.5381	0.5030	0.006	mg/L	92.978
a 233.527	4.217	3.780	0.022	mg/L	89.077
e 313.107	0.1997	0.1764	0.001	mg/L	88.329
a 227.547	2377	2331	25.148	mg/L	-130.812
d 228.802	0.2509	0.2357	0.004	mg/L	93.942
o 228.616	1.009	0.8992	0.012	mg/L	89.028
r 267.716	1.043	0.8976	0.011	mg/L	85.451
u 324.754	1.010	0.8863	0.013	mg/L	87.604
e 273.955	27.53	26.46	0.099	mg/L	-7.917
g 279.079	42.10	38.07	0.293	mg/L	59.766
n 257.610	1.904	1.653	0.016	mg/L	74.846
o 202.030	1.998	1.782	0.024	mg/L	89.212
i 231.604	1.025	0.8966	0.015	mg/L	87.186
b 220.353	3.008	2.607	0.042	mg/L	86.634
b 206.833	0.5057	0.4484	0.003	mg/L	88.544
e 196.026	0.4990	0.4496	0.002	mg/L	90.123
l 190.800	0.5124	0.4286	0.003	mg/L	83.241
292.402	2.052	1.823	0.025	mg/L	88.555
n 213.856	0.5689	0.5127	0.008	mg/L	88.754

eplicate Data ----------

D: 6149-1 MSD F=50 Date: 11/21/02 3:32:20 PM

epl# Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Sample Conc.	Sample Units
1 Ag 328.068	189157.7	190231.7	0.9430	mg/L	47.15	ppm
1 Al 308.215	487673.9	483076.4	13.24	mg/L	662.0	ppm
1 As 188.979	1205.1	1135.6	0.5029	mg/L	25.14	ppm
1 Ba 233.527	1302904.8	1303770.4	3.691	mg/L	184.5	ppm
1 Be 313.107	477212.2	477626.4	0.1724	mg/L	8.619	ppm

1	Ca 227.547	591521.6	591238.2	2261	mg/L	113100 ppm
1	Cd 228.802	30298.3	30208.6	0.2384	mg/L	11.92 ppm
1	Co 228.616	95556.4	95973.1	0.9072	mg/L	45.36 ppm
1	Cr 267.716	81845.7	82005.5	0.9068	mg/L	45.34 ppm
1	Cu 324.754	287868.7	285581.7	0.8965	mg/L	44.82 ppm
1	Fe 273.955	1286865.0	1283875.2	25.78	mg/L	1289 ppm
1	Mg 279.079	1180793.2	1180197.1	37.16	mg/L	1858 ppm
1	Mn 257.610	2558871.6	2557750.9	1.611	mg/L	80.57 ppm
1	Mo 202.030	33791.7	33820.2	1.792	mg/L	89.58 ppm
1	Ni 231.604	46251.4	45976.2	0.9085	mg/L	45.42 ppm
1	Pb 220.353	39354.9	39170.0	2.629	mg/L	131.4 ppm
1	Sb 206.833	2043.0	1982.4	0.4477	mg/L	22.39 ppm
1	Se 196.026	1300.8	1216.6	0.4496	mg/L	22.48 ppm
1	Tl 190.800	1683.3	1494.8	0.4319	mg/L	21.60 ppm
1	V 292.402	204851.8	204689.0	1.836	mg/L	91.79 ppm
1	Zn 213.856	54571.6	55155.0	0.5202	mg/L	26.01 ppm
2	Ag 328.068	188277.4	189351.3	0.9386	mg/L	46.93 ppm
2	Al 308.215	505086.9	500489.3	13.72	mg/L	685.9 ppm
2	As 188.979	1203.8	1134.3	0.5045	mg/L	25.22 ppm
2	Ba 233.527	1341964.8	1342830.4	3.801	mg/L	190.1 ppm
2	Be 313.107	488008.9	488423.1	0.1763	mg/L	8.814 ppm
2	Ca 227.547	612572.1	612288.7	2342	mg/L	117100 ppm
2	Cd 228.802	30337.3	30247.5	0.2387	mg/L	11.94 ppm
2	Co 228.616	95340.9	95757.6	0.9052	mg/L	45.26 ppm
2	Cr 267.716	81665.0	81824.8	0.9048	mg/L	45.24 ppm
2	Cu 324.754	289234.6	286947.7	0.9008	mg/L	45.04 ppm
2	Fe 273.955	1324569.1	1321579.3	26.54	mg/L	1327 ppm
2	Mg 279.079	1214854.9	1214258.8	38.23	mg/L	1912 ppm
2	Mn 257.610	2644463.6	2643342.9	1.665	mg/L	83.27 ppm
2	Mo 202.030	33926.5	33955.0	1.799	mg/L	89.93 ppm
2	Ni 231.604	45548.8	45273.6	0.8946	mg/L	44.73 ppm
2	Pb 220.353	39140.5	38955.6	2.615	mg/L	130.7 ppm
2	Sb 206.833	2052.4	1991.7	0.4500	mg/L	22.50 ppm
2	Se 196.026	1307.8	1223.5	0.4524	mg/L	22.62 ppm
2	Tl 190.800	1674.9	1486.4	0.4294	mg/L	21.47 ppm
2	V 292.402	205126.6	204963.8	1.838	mg/L	91.91 ppm
2	Zn 213.856	54187.1	54770.4	0.5165	mg/L	25.83 ppm
3	Ag 328.068	187891.5	188965.5	0.9367	mg/L	46.84 ppm
3	Al 308.215	493907.4	489309.8	13.41	mg/L	670.6 ppm
3	As 188.979	1200.1	1130.6	0.5012	mg/L	25.06 ppm
3	Ba 233.527	1314825.2	1315690.8	3.724	mg/L	186.2 ppm
3	Be 313.107	481303.5	481717.7	0.1739	mg/L	8.693 ppm
3	Ca 227.547	594768.4	594485.0	2274	mg/L	113700 ppm
3	Cd 228.802	30037.1	29947.4	0.2364	mg/L	11.82 ppm
3	Co 228.616	94713.1	95129.8	0.8993	mg/L	44.96 ppm
3	Cr 267.716	81550.3	81710.1	0.9035	mg/L	45.18 ppm
3	Cu 324.754	288247.3	285960.4	0.8977	mg/L	44.88 ppm
3	Fe 273.955	1303616.1	1300626.2	26.12	mg/L	1306 ppm
3	Mg 279.079	1188818.0	1188221.9	37.41	mg/L	1871 ppm
3	Mn 257.610	2571536.9	2570416.2	1.619	mg/L	80.97 ppm
3	Mo 202.030	33674.9	33703.4	1.785	mg/L	89.27 ppm
3	Ni 231.604	45708.8	45433.6	0.8978	mg/L	44.89 ppm
3	Pb 220.353	38945.3	38760.4	2.602	mg/L	130.1 ppm
3	Sb 206.833	2043.0	1982.4	0.4478	mg/L	22.39 ppm
3	Se 196.026	1304.4	1220.1	0.4510	mg/L	22.55 ppm
3	Tl 190.800	1686.6	1498.1	0.4328	mg/L	21.64 ppm
3	V 292.402	204291.7	204129.0	1.831	mg/L	91.54 ppm
3	Zn 213.856	53727.9	54311.3	0.5122	mg/L	25.61 ppm

ean Data ----------

D: 6149-1 MSD F=50 Seq. No.: 79 Sample No.: 57 A/S Pos: 65
mple Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:32:20 PM

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ement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
328.068	189516.2	0.9395	0.00322	mg/L	46.97	0.161	ppm	0.34%
308.215	490958.5	13.46	0.242	mg/L	672.8	12.09	ppm	1.80%
s 188.979	1133.5	0.5029	0.00162	mg/L	25.14	0.081	ppm	0.32%
233.527	1320763.9	3.739	0.0567	mg/L	186.9	2.83	ppm	1.52%

e 313.107	482589.1	0.1742	0.00197	mg/L	8.708	0.0984 ppm	1.13%
a 227.547	599337.3	2292	43.3	mg/L	114600	2167.3 ppm	1.89%
d 228.802	30134.5	0.2378	0.00129	mg/L	11.89	0.064 ppm	0.54%
o 228.616	95620.2	0.9039	0.00414	mg/L	45.19	0.207 ppm	0.46%
r 267.716	81846.8	0.9050	0.00165	mg/L	45.25	0.082 ppm	0.18%
u 324.754	286163.3	0.8983	0.00221	mg/L	44.92	0.111 ppm	0.25%
e 273.955	1302026.9	26.15	0.379	mg/L	1307	19.0 ppm	1.45%
g 279.079	1194225.9	37.60	0.561	mg/L	1880	28.0 ppm	1.49%
n 257.610	2590503.3	1.632	0.0291	mg/L	81.60	1.455 ppm	1.78%
o 202.030	33826.2	1.792	0.0067	mg/L	89.59	0.333 ppm	0.37%
i 231.604	45561.1	0.9003	0.00728	mg/L	45.01	0.364 ppm	0.81%
b 220.353	38962.0	2.615	0.0137	mg/L	130.8	0.68 ppm	0.52%
b 206.833	1985.5	0.4485	0.00130	mg/L	22.43	0.065 ppm	0.29%
e 196.026	1220.1	0.4510	0.00138	mg/L	22.55	0.069 ppm	0.31%
l 190.800	1493.1	0.4314	0.00177	mg/L	21.57	0.088 ppm	0.41%
292.402	204593.9	1.835	0.0038	mg/L	91.75	0.191 ppm	0.21%
n 213.856	54745.6	0.5163	0.00398	mg/L	25.82	0.199 ppm	0.77%

atrix Check Sample: 6149-1 MSD F=50

lement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
g 328.068	1.000	0.9395	0.003	mg/L	93.898
l 308.215	14.46	13.46	0.242	mg/L	49.978
s 188.979	0.5381	0.5029	0.002	mg/L	92.946
a 233.527	4.217	3.739	0.057	mg/L	88.044
e 313.107	0.1997	0.1742	0.002	mg/L	87.211
a 227.547	2377	2292	43.345	mg/L	-325.904
d 228.802	0.2509	0.2378	0.001	mg/L	94.794
o 228.616	1.009	0.9039	0.004	mg/L	89.494
r 267.716	1.043	0.9050	0.002	mg/L	86.191
u 324.754	1.010	0.8983	0.002	mg/L	88.807
e 273.955	27.53	26.15	0.379	mg/L	-38.681
g 279.079	42.10	37.60	0.561	mg/L	55.050
n 257.610	1.904	1.632	0.029	mg/L	72.780
o 202.030	1.998	1.792	0.007	mg/L	89.695
i 231.604	1.025	0.9003	0.007	mg/L	87.553
b 220.353	3.008	2.615	0.014	mg/L	86.909
b 206.833	0.5057	0.4485	0.001	mg/L	88.568
e 196.026	0.4990	0.4510	0.001	mg/L	90.399
l 190.800	0.5124	0.4314	0.002	mg/L	83.799
292.402	2.052	1.835	0.004	mg/L	89.160
n 213.856	0.5689	0.5163	0.004	mg/L	89.484

eplicate Data ----------

D: 6149-1 PS F=50 Date: 11/21/02 3:35:57 PM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	198951.2	200025.1	0.9916	mg/L	49.58	ppm
1	Al 308.215	504006.2	499408.6	13.69	mg/L	684.4	ppm
1	As 188.979	1270.2	1200.8	0.5278	mg/L	26.39	ppm
1	Ba 233.527	1355453.7	1356319.3	3.839	mg/L	192.0	ppm
1	Be 313.107	500419.6	500833.8	0.1808	mg/L	9.038	ppm
1	Ca 227.547	587548.6	587265.2	2246	mg/L	112300	ppm
1	Cd 228.802	31758.5	31668.7	0.2499	mg/L	12.50	ppm
1	Co 228.616	99882.4	100299.1	0.9481	mg/L	47.41	ppm
1	Cr 267.716	85581.9	85741.7	0.9481	mg/L	47.40	ppm
1	Cu 324.754	300293.1	298006.2	0.9355	mg/L	46.77	ppm
1	Fe 273.955	1304522.8	1301533.0	26.14	mg/L	1307	ppm
1	Mg 279.079	1248023.6	1247427.4	39.28	mg/L	1964	ppm
1	Mn 257.610	2789572.5	2788451.8	1.757	mg/L	87.84	ppm
1	Mo 202.030	35530.0	35558.5	1.884	mg/L	94.18	ppm
1	Ni 231.604	48895.6	48620.4	0.9607	mg/L	48.04	ppm
1	Pb 220.353	41087.3	40902.5	2.745	mg/L	137.2	ppm
1	Sb 206.833	2145.3	2084.6	0.4710	mg/L	23.55	ppm
1	Se 196.026	1377.6	1293.3	0.4776	mg/L	23.88	ppm
1	Tl 190.800	1751.7	1563.2	0.4516	mg/L	22.58	ppm
1	V 292.402	213311.8	213149.1	1.912	mg/L	95.58	ppm
1	Zn 213.856	57505.3	58088.7	0.5478	mg/L	27.39	ppm

2 Ag 328.068	201997.9	203071.9	1.007 mg/L	50.33 ppm
2 Al 308.215	507249.5	502651.9	13.78 mg/L	688.8 ppm
2 As 188.979	1260.3	1190.9	0.5252 mg/L	26.26 ppm
2 Ba 233.527	1364599.0	1365464.6	3.865 mg/L	193.3 ppm
2 Be 313.107	502447.9	502862.1	0.1815 mg/L	9.074 ppm
2 Ca 227.547	598118.2	597834.8	2287 mg/L	114300 ppm
2 Cd 228.802	32565.7	32475.9	0.2563 mg/L	12.82 ppm
2 Co 228.616	102389.6	102806.3	0.9718 mg/L	48.59 ppm
2 Cr 267.716	87144.4	87304.1	0.9654 mg/L	48.27 ppm
2 Cu 324.754	311475.3	309188.3	0.9706 mg/L	48.53 ppm
2 Fe 273.955	1306976.2	1303986.3	26.19 mg/L	1309 ppm
2 Mg 279.079	1256148.3	1255552.2	39.53 mg/L	1977 ppm
2 Mn 257.610	2824102.0	2822981.3	1.779 mg/L	88.93 ppm
2 Mo 202.030	36163.6	36192.1	1.917 mg/L	95.86 ppm
2 Ni 231.604	49970.7	49695.5	0.9820 mg/L	49.10 ppm
2 Pb 220.353	41990.7	41805.8	2.805 mg/L	140.3 ppm
2 Sb 206.833	2147.5	2086.9	0.4710 mg/L	23.55 ppm
2 Se 196.026	1366.8	1282.5	0.4737 mg/L	23.68 ppm
2 Tl 190.800	1753.9	1565.4	0.4523 mg/L	22.61 ppm
2 V 292.402	217927.1	217764.3	1.953 mg/L	97.65 ppm
2 Zn 213.856	59078.1	59661.5	0.5627 mg/L	28.13 ppm
3 Ag 328.068	195598.1	196672.1	0.9749 mg/L	48.75 ppm
3 Al 308.215	517770.7	513173.1	14.07 mg/L	703.3 ppm
3 As 188.979	1272.7	1203.3	0.5304 mg/L	26.52 ppm
3 Ba 233.527	1385660.1	1386525.7	3.925 mg/L	196.2 ppm
3 Be 313.107	507004.8	507419.0	0.1831 mg/L	9.156 ppm
3 Ca 227.547	604024.7	603741.2	2309 mg/L	115500 ppm
3 Cd 228.802	31341.7	31252.0	0.2467 mg/L	12.33 ppm
3 Co 228.616	99274.5	99691.2	0.9424 mg/L	47.12 ppm
3 Cr 267.716	84980.4	85140.2	0.9414 mg/L	47.07 ppm
3 Cu 324.754	300147.0	297860.0	0.9350 mg/L	46.75 ppm
3 Fe 273.955	1332324.1	1329334.3	26.70 mg/L	1335 ppm
3 Mg 279.079	1271397.1	1270801.0	40.01 mg/L	2001 ppm
3 Mn 257.610	2858303.9	2857183.1	1.800 mg/L	90.00 ppm
3 Mo 202.030	34988.3	35016.8	1.855 mg/L	92.75 ppm
3 Ni 231.604	47984.6	47709.4	0.9427 mg/L	47.14 ppm
3 Pb 220.353	40730.5	40545.6	2.721 mg/L	136.1 ppm
3 Sb 206.833	2140.3	2079.7	0.4700 mg/L	23.50 ppm
3 Se 196.026	1376.1	1291.8	0.4762 mg/L	23.81 ppm
3 Tl 190.800	1759.4	1570.9	0.4538 mg/L	22.69 ppm
3 V 292.402	212895.6	212732.9	1.908 mg/L	95.40 ppm
3 Zn 213.856	56851.9	57435.2	0.5417 mg/L	27.08 ppm

ean Data ----------

: 6149-1 PS F=50 Seq. No.: 80 Sample No.: 58 A/S Pos: 66
mple Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:35:57 PM

ement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	199923.0	0.9910	0.01587	mg/L	49.55	0.793	ppm	1.60%
l 308.215	505077.9	13.84	0.197	mg/L	692.2	9.86	ppm	1.42%
188.979	1198.3	0.5278	0.00259	mg/L	26.39	0.130	ppm	0.49%
233.527	1369436.5	3.876	0.0438	mg/L	193.8	2.19	ppm	1.13%
313.107	503705.0	0.1818	0.00122	mg/L	9.089	0.0609	ppm	0.67%
a 227.547	596280.4	2281	31.9	mg/L	114000	1596.3	ppm	1.40%
d 228.802	31798.9	0.2510	0.00491	mg/L	12.55	0.246	ppm	1.96%
228.616	100932.2	0.9541	0.01561	mg/L	47.71	0.780	ppm	1.64%
267.716	86062.0	0.9516	0.01235	mg/L	47.58	0.618	ppm	1.30%
u 324.754	301684.9	0.9470	0.02040	mg/L	47.35	1.020	ppm	2.15%
e 273.955	1311617.9	26.34	0.309	mg/L	1317	15.5	ppm	1.17%
279.079	1257926.9	39.61	0.374	mg/L	1980	18.7	ppm	0.94%
257.610	2822872.1	1.778	0.0217	mg/L	88.92	1.083	ppm	1.22%
o 202.030	35589.1	1.885	0.0312	mg/L	94.26	1.558	ppm	1.65%
i 231.604	48675.1	0.9618	0.01964	mg/L	48.09	0.982	ppm	2.04%
220.353	41084.6	2.757	0.0434	mg/L	137.9	2.17	ppm	1.58%
206.833	2083.7	0.4707	0.00058	mg/L	23.53	0.029	ppm	0.12%
e 196.026	1289.2	0.4758	0.00199	mg/L	23.79	0.099	ppm	0.42%
l 190.800	1566.5	0.4526	0.00112	mg/L	22.63	0.056	ppm	0.25%
292.402	214548.8	1.924	0.0250	mg/L	96.21	1.252	ppm	1.30%

n 213.856	58395.1	0.5507	0.01079 mg/L	27.54	0.540 ppm	1.96%

atrix Check Sample: 6149-1 PS F=50

lement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
g 328.068	1.000	0.9910	0.016	mg/L	99.057
l 308.215	14.46	13.84	0.197	mg/L	69.327
s 188.979	0.5381	0.5278	0.003	mg/L	97.934
a 233.527	4.217	3.876	0.044	mg/L	91.488
e 313.107	0.1997	0.1818	0.001	mg/L	91.021
a 227.547	2377	2281	31.926	mg/L	-384.362
d 228.802	0.2509	0.2510	0.005	mg/L	100.048
o 228.616	1.009	0.9541	0.016	mg/L	94.516
r 267.716	1.043	0.9516	0.012	mg/L	90.852
u 324.754	1.010	0.9470	0.020	mg/L	93.680
e 273.955	27.53	26.34	0.309	mg/L	-19.420
g 279.079	42.10	39.61	0.374	mg/L	75.107
n 257.610	1.904	1.778	0.022	mg/L	87.419
o 202.030	1.998	1.885	0.031	mg/L	94.364
i 231.604	1.025	0.9618	0.020	mg/L	93.706
b 220.353	3.008	2.757	0.043	mg/L	91.642
b 206.833	0.5057	0.4707	0.001	mg/L	92.997
e 196.026	0.4990	0.4758	0.002	mg/L	95.365
l 190.800	0.5124	0.4526	0.001	mg/L	88.035
292.402	2.052	1.924	0.025	mg/L	93.624
n 213.856	0.5689	0.5507	0.011	mg/L	96.368

eplicate Data ----------
D: 6149-2 F=50 Date: 11/21/02 3:39:28 PM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-932.8	141.1	0.0007	mg/L	0.0350	ppm
1	Al 308.215	378701.7	374104.1	10.25	mg/L	512.7	ppm
1	As 188.979	-7.4	-76.8	0.0262	mg/L	1.308	ppm
1	Ba 233.527	63092.2	63957.8	0.1810	mg/L	9.052	ppm
1	Be 313.107	-490.0	-75.8	0.0000	mg/L	-0.0014	ppm
1	Ca 227.547	559829.9	559546.5	2140	mg/L	107000	ppm
1	Cd 228.802	204.4	114.7	0.0009	mg/L	0.0453	ppm
1	Co 228.616	388.4	805.1	0.0076	mg/L	0.3805	ppm
1	Cr 267.716	2666.2	2826.0	0.0312	mg/L	1.562	ppm
1	Cu 324.754	7099.4	4812.5	0.0151	mg/L	0.7553	ppm
1	Fe 273.955	1039052.5	1036062.7	20.81	mg/L	1040	ppm
1	Mg 279.079	878408.1	877811.9	27.64	mg/L	1382	ppm
1	Mn 257.610	1343393.9	1342273.2	0.8457	mg/L	42.28	ppm
1	Mo 202.030	-72.2	-43.6	-0.0023	mg/L	-0.1156	ppm
1	Ni 231.604	1037.3	762.1	0.0151	mg/L	0.7529	ppm
1	Pb 220.353	184.4	-0.5	0.0076	mg/L	0.3811	ppm
1	Sb 206.833	70.7	10.1	0.0024	mg/L	0.1208	ppm
1	Se 196.026	74.3	-10.0	0.0026	mg/L	0.1315	ppm
1	Tl 190.800	231.4	42.9	0.0119	mg/L	0.5959	ppm
1	V 292.402	5006.4	4843.6	0.0434	mg/L	2.172	ppm
1	Zn 213.856	5364.3	5947.7	0.0561	mg/L	2.805	ppm
2	Ag 328.068	-975.8	98.2	0.0005	mg/L	0.0243	ppm
2	Al 308.215	364890.7	360293.1	9.875	mg/L	493.8	ppm
2	As 188.979	-4.8	-74.3	0.0257	mg/L	1.284	ppm
2	Ba 233.527	60759.5	61625.1	0.1744	mg/L	8.722	ppm
2	Be 313.107	-533.9	-119.7	0.0000	mg/L	-0.0022	ppm
2	Ca 227.547	545283.6	545000.2	2084	mg/L	104200	ppm
2	Cd 228.802	221.3	131.5	0.0010	mg/L	0.0519	ppm
2	Co 228.616	359.7	776.4	0.0073	mg/L	0.3670	ppm
2	Cr 267.716	2619.3	2779.1	0.0307	mg/L	1.536	ppm
2	Cu 324.754	6759.0	4472.1	0.0140	mg/L	0.7019	ppm
2	Fe 273.955	1000908.3	997918.5	20.04	mg/L	1002	ppm
2	Mg 279.079	852930.9	852334.7	26.84	mg/L	1342	ppm
2	Mn 257.610	1310072.5	1308951.8	0.8247	mg/L	41.23	ppm
2	Mo 202.030	-70.6	-42.1	-0.0022	mg/L	-0.1116	ppm
2	Ni 231.604	1021.7	746.5	0.0148	mg/L	0.7376	ppm

2	Pb 220.353	173.2	-11.7	0.0067	mg/L	0.3338 ppm
2	Sb 206.833	92.0	31.3	0.0075	mg/L	0.3746 ppm
2	Se 196.026	75.9	-8.4	0.0030	mg/L	0.1494 ppm
2	Tl 190.800	231.2	42.7	0.0119	mg/L	0.5965 ppm
2	V 292.402	4965.0	4802.2	0.0431	mg/L	2.153 ppm
2	Zn 213.856	5352.5	5935.9	0.0560	mg/L	2.799 ppm
3	Ag 328.068	-880.3	193.7	0.0010	mg/L	0.0480 ppm
3	Al 308.215	378468.4	373870.8	10.25	mg/L	512.4 ppm
3	As 188.979	2.3	-67.2	0.0296	mg/L	1.478 ppm
3	Ba 233.527	62135.1	63000.7	0.1783	mg/L	8.917 ppm
3	Be 313.107	-532.7	-118.5	0.0000	mg/L	-0.0021 ppm
3	Ca 227.547	556678.4	556394.9	2128	mg/L	106400 ppm
3	Cd 228.802	194.2	104.4	0.0008	mg/L	0.0412 ppm
3	Co 228.616	352.5	769.2	0.0073	mg/L	0.3636 ppm
3	Cr 267.716	2647.1	2806.9	0.0310	mg/L	1.552 ppm
3	Cu 324.754	6122.0	3835.1	0.0120	mg/L	0.6019 ppm
3	Fe 273.955	1027368.3	1024378.5	20.57	mg/L	1029 ppm
3	Mg 279.079	871995.8	871399.7	27.44	mg/L	1372 ppm
3	Mn 257.610	1338854.2	1337733.5	0.8428	mg/L	42.14 ppm
3	Mo 202.030	-89.5	-61.0	-0.0032	mg/L	-0.1615 ppm
3	Ni 231.604	1008.5	733.3	0.0145	mg/L	0.7245 ppm
3	Pb 220.353	153.8	-31.1	0.0055	mg/L	0.2766 ppm
3	Sb 206.833	72.0	11.3	0.0027	mg/L	0.1354 ppm
3	Se 196.026	68.6	-15.7	0.0005	mg/L	0.0238 ppm
3	Tl 190.800	229.1	40.5	0.0112	mg/L	0.5625 ppm
3	V 292.402	5016.3	4853.6	0.0435	mg/L	2.177 ppm
3	Zn 213.856	5351.3	5934.7	0.0560	mg/L	2.799 ppm

an Data ----------

: 6149-2 F=50 Seq. No.: 81 Sample No.: 59 A/S Pos: 67
mple Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:39:28 PM

ement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	144.3	0.0007	0.00024	mg/L	0.0358	0.01186	ppm	33.14%
l 308.215	369422.7	10.13	0.217	mg/L	506.3	10.84	ppm	2.14%
188.979	-72.7	0.0271	0.00211	mg/L	1.357	0.1053	ppm	7.76%
233.527	62861.2	0.1779	0.00332	mg/L	8.897	0.1660	ppm	1.87%
e 313.107	-104.7	0.0000	0.00001	mg/L	-0.0019	0.00045	ppm	23.90%
a 227.547	553647.2	2118	29.3	mg/L	105900	1463.4	ppm	1.38%
228.802	116.9	0.0009	0.00011	mg/L	0.0461	0.00540	ppm	11.71%
228.616	783.6	0.0074	0.00018	mg/L	0.3704	0.00898	ppm	2.43%
r 267.716	2804.0	0.0310	0.00026	mg/L	1.550	0.0130	ppm	0.84%
u 324.754	4373.2	0.0137	0.00156	mg/L	0.6864	0.07787	ppm	11.34%
273.955	1019453.2	20.47	0.392	mg/L	1024	19.6	ppm	1.92%
279.079	867182.1	27.30	0.417	mg/L	1365	20.9	ppm	1.53%
n 257.610	1329652.9	0.8377	0.01138	mg/L	41.89	0.569	ppm	1.36%
o 202.030	-48.9	-0.0026	0.00055	mg/L	-0.1296	0.02775	ppm	21.41%
231.604	747.3	0.0148	0.00028	mg/L	0.7383	0.01421	ppm	1.92%
220.353	-14.5	0.0066	0.00105	mg/L	0.3305	0.05232	ppm	15.83%
206.833	17.6	0.0042	0.00285	mg/L	0.2103	0.14253	ppm	67.79%
e 196.026	-11.4	0.0020	0.00136	mg/L	0.1016	0.06796	ppm	66.91%
l 190.800	42.0	0.0117	0.00039	mg/L	0.5850	0.01947	ppm	3.33%
292.402	4833.1	0.0433	0.00024	mg/L	2.167	0.0122	ppm	0.56%
213.856	5939.4	0.0560	0.00007	mg/L	2.801	0.0034	ppm	0.12%

eplicate Data ----------

: CCV 1379B Date: 11/21/02 3:42:59 PM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	209255.9	210329.8	1.043	mg/L		
1	Al 308.215	194985.4	190387.8	5.218	mg/L		
1	As 188.979	1418.7	1349.3	0.5234	mg/L		
1	Ba 233.527	1820825.5	1821691.1	5.157	mg/L		
1	Be 313.107	1442140.2	1442554.4	0.5206	mg/L		
1	Ca 227.547	14457.4	14173.9	54.21	mg/L		
1	Cd 228.802	137252.3	137162.6	1.083	mg/L		
1	Co 228.616	229367.7	229784.4	2.172	mg/L		

1	Cr 267.716	46773.5	46933.3	0.5190 mg/L
1	Cu 324.754	669928.7	667641.7	2.096 mg/L
1	Fe 273.955	260733.6	257743.7	5.176 mg/L
1	Mg 279.079	825461.4	824865.3	25.97 mg/L
1	Mn 257.610	3356385.4	3355264.6	2.114 mg/L
1	Mo 202.030	39772.9	39801.4	2.108 mg/L
1	Ni 231.604	109965.5	109690.3	2.167 mg/L
1	Pb 220.353	7788.3	7603.4	0.5087 mg/L
1	Sb 206.833	8760.9	8700.2	2.066 mg/L
1	Se 196.026	1479.7	1395.4	0.5084 mg/L
1	Tl 190.800	1947.9	1759.4	0.5115 mg/L
1	V 292.402	230277.9	230115.1	2.064 mg/L
1	Zn 213.856	223393.8	223977.2	2.112 mg/L
2	Ag 328.068	204295.4	205369.3	1.018 mg/L
2	Al 308.215	190069.5	185471.9	5.083 mg/L
2	As 188.979	1419.4	1350.0	0.5235 mg/L
2	Ba 233.527	1830708.9	1831574.5	5.185 mg/L
2	Be 313.107	1459054.8	1459469.0	0.5267 mg/L
2	Ca 227.547	14070.3	13786.9	52.73 mg/L
2	Cd 228.802	134184.4	134094.6	1.058 mg/L
2	Co 228.616	224356.8	224773.5	2.125 mg/L
2	Cr 267.716	45632.1	45791.9	0.5063 mg/L
2	Cu 324.754	676215.9	673929.0	2.116 mg/L
2	Fe 273.955	254383.5	251393.6	5.049 mg/L
2	Mg 279.079	832310.0	831713.9	26.19 mg/L
2	Mn 257.610	3378918.9	3377798.2	2.128 mg/L
2	Mo 202.030	39031.3	39059.8	2.069 mg/L
2	Ni 231.604	108552.6	108277.4	2.140 mg/L
2	Pb 220.353	7776.3	7591.4	0.5079 mg/L
2	Sb 206.833	8730.7	8670.0	2.059 mg/L
2	Se 196.026	1492.8	1408.5	0.5131 mg/L
2	Tl 190.800	1950.0	1761.5	0.5121 mg/L
2	V 292.402	223247.4	223084.6	2.001 mg/L
2	Zn 213.856	220316.1	220899.5	2.083 mg/L
3	Ag 328.068	198000.0	199074.0	0.9868 mg/L
3	Al 308.215	183985.3	179387.7	4.917 mg/L
3	As 188.979	1423.6	1354.2	0.5249 mg/L
3	Ba 233.527	1798165.7	1799031.3	5.093 mg/L
3	Be 313.107	1426746.9	1427161.1	0.5151 mg/L
3	Ca 227.547	13709.2	13425.7	51.35 mg/L
3	Cd 228.802	131552.7	131462.9	1.038 mg/L
3	Co 228.616	219403.7	219820.4	2.078 mg/L
3	Cr 267.716	44258.6	44418.4	0.4912 mg/L
3	Cu 324.754	664767.8	662480.8	2.080 mg/L
3	Fe 273.955	245367.7	242377.9	4.867 mg/L
3	Mg 279.079	819767.6	819171.4	25.79 mg/L
3	Mn 257.610	3337627.0	3336506.3	2.102 mg/L
3	Mo 202.030	38026.5	38055.0	2.016 mg/L
3	Ni 231.604	105774.2	105499.0	2.085 mg/L
3	Pb 220.353	7794.2	7609.3	0.5091 mg/L
3	Sb 206.833	8771.2	8710.6	2.069 mg/L
3	Se 196.026	1484.8	1400.5	0.5102 mg/L
3	Tl 190.800	1960.0	1771.5	0.5150 mg/L
3	V 292.402	218245.2	218082.4	1.956 mg/L
3	Zn 213.856	214603.9	215187.3	2.029 mg/L

ean Data ----------

D: CCV 1379B Seq. No.: 82 Sample No.: 5 A/S Pos: 6
ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 3:42:59 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	204924.4	1.016	0.0280	mg/L				2.75%
l 308.215	185082.5	5.073	0.1510	mg/L				2.98%
s 188.979	1351.1	0.5239	0.00087	mg/L				0.17%
a 233.527	1817432.3	5.145	0.0472	mg/L				0.92%
e 313.107	1443061.5	0.5208	0.00583	mg/L				1.12%
a 227.547	13795.5	52.76	1.431	mg/L				2.71%
d 228.802	134240.0	1.059	0.0225	mg/L				2.13%

228.616	224792.8	2.125	0.0471 mg/L		2.22%
267.716	45714.5	0.5055	0.01392 mg/L		2.75%
u 324.754	668017.2	2.097	0.0180 mg/L		0.86%
e 273.955	250505.1	5.031	0.1551 mg/L		3.08%
g 279.079	825250.2	25.98	0.198 mg/L		0.76%
n 257.610	3356523.0	2.115	0.0130 mg/L		0.62%
o 202.030	38972.1	2.064	0.0464 mg/L		2.25%
i 231.604	107822.3	2.131	0.0421 mg/L		1.98%
220.353	7601.4	0.5086	0.00061 mg/L		0.12%
206.833	8693.6	2.065	0.0052 mg/L		0.25%
e 196.026	1401.5	0.5105	0.00238 mg/L		0.47%
l 190.800	1764.1	0.5129	0.00189 mg/L		0.37%
292.402	223760.7	2.007	0.0542 mg/L		2.70%
n 213.856	220021.3	2.075	0.0421 mg/L		2.03%

eplicate Data ----------

D: CCB Date: 11/21/02 3:46:28 PM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-988.1	85.8	0.0004	mg/L		
1	Al 308.215	4963.6	366.0	0.0100	mg/L		
1	As 188.979	66.6	-2.8	-0.0011	mg/L		
1	Ba 233.527	-573.4	292.2	0.0008	mg/L		
1	Be 313.107	367.2	781.4	0.0003	mg/L		
1	Ca 227.547	244.1	-39.4	-0.1507	mg/L		
1	Cd 228.802	101.0	11.3	0.0001	mg/L		
1	Co 228.616	-258.0	158.7	0.0015	mg/L		
1	Cr 267.716	30.3	190.1	0.0021	mg/L		
1	Cu 324.754	2579.4	292.5	0.0009	mg/L		
1	Fe 273.955	1909.5	-1080.3	-0.0217	mg/L		
1	Mg 279.079	-363.5	-959.7	-0.0302	mg/L		
1	Mn 257.610	2316.7	1196.0	0.0008	mg/L		
1	Mo 202.030	-11.5	17.0	0.0009	mg/L		
1	Ni 231.604	460.0	184.8	0.0037	mg/L		
1	Pb 220.353	182.9	-2.0	-0.0001	mg/L		
1	Sb 206.833	75.0	14.4	0.0034	mg/L		
1	Se 196.026	66.7	-17.6	-0.0064	mg/L		
1	Tl 190.800	195.5	7.0	0.0020	mg/L		
1	V 292.402	340.4	177.7	0.0016	mg/L		
1	Zn 213.856	-311.6	271.8	0.0026	mg/L		
2	Ag 328.068	-1009.4	64.6	0.0003	mg/L		
2	Al 308.215	5008.1	410.6	0.0113	mg/L		
2	As 188.979	61.0	-8.4	-0.0032	mg/L		
2	Ba 233.527	-714.8	150.8	0.0004	mg/L		
2	Be 313.107	195.6	609.8	0.0002	mg/L		
2	Ca 227.547	301.1	17.6	0.0675	mg/L		
2	Cd 228.802	101.8	12.0	0.0001	mg/L		
2	Co 228.616	-314.0	102.7	0.0010	mg/L		
2	Cr 267.716	-176.3	-16.5	-0.0002	mg/L		
2	Cu 324.754	2572.5	285.6	0.0009	mg/L		
2	Fe 273.955	1770.3	-1219.6	-0.0245	mg/L		
2	Mg 279.079	-391.8	-988.0	-0.0311	mg/L		
2	Mn 257.610	1942.0	821.3	0.0005	mg/L		
2	Mo 202.030	-18.4	10.1	0.0005	mg/L		
2	Ni 231.604	368.7	93.5	0.0018	mg/L		
2	Pb 220.353	185.3	0.4	0.0000	mg/L		
2	Sb 206.833	64.1	3.4	0.0008	mg/L		
2	Se 196.026	68.6	-15.7	-0.0057	mg/L		
2	Tl 190.800	191.9	3.4	0.0010	mg/L		
2	V 292.402	280.1	117.4	0.0011	mg/L		
2	Zn 213.856	-387.6	195.8	0.0018	mg/L		
3	Ag 328.068	-1205.0	-131.0	-0.0006	mg/L		
3	Al 308.215	5021.6	424.0	0.0116	mg/L		
3	As 188.979	72.9	3.5	0.0013	mg/L		
3	Ba 233.527	-713.7	151.9	0.0004	mg/L		
3	Be 313.107	157.9	572.1	0.0002	mg/L		
3	Ca 227.547	166.4	-117.0	-0.4476	mg/L		
3	Cd 228.802	66.8	-22.9	-0.0002	mg/L		

3 Co 228.616	-309.3	107.4	0.0010	mg/L
3 Cr 267.716	-236.9	-77.1	-0.0009	mg/L
3 Cu 324.754	2611.1	324.2	0.0010	mg/L
3 Fe 273.955	1598.1	-1391.8	-0.0279	mg/L
3 Mg 279.079	-546.2	-1142.3	-0.0360	mg/L
3 Mn 257.610	1880.8	760.0	0.0005	mg/L
3 Mo 202.030	-12.5	16.0	0.0008	mg/L
3 Ni 231.604	251.4	-23.8	-0.0005	mg/L
3 Pb 220.353	173.7	-11.2	-0.0007	mg/L
3 Sb 206.833	65.1	4.5	0.0011	mg/L
3 Se 196.026	73.5	-10.8	-0.0039	mg/L
3 Tl 190.800	194.1	5.5	0.0016	mg/L
3 V 292.402	343.5	180.7	0.0016	mg/L
3 Zn 213.856	-417.8	165.6	0.0016	mg/L

ean Data

D: CCB Seq. No.: 83 Sample No.: 6 A/S Pos: 1
ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 3:46:28 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	6.5	0.0000	0.00059	mg/L				>999.9%
l 308.215	400.2	0.0110	0.00083	mg/L				7.58%
s 188.979	-2.6	-0.0010	0.00228	mg/L				229.87%
a 233.527	198.3	0.0006	0.00023	mg/L				41.01%
e 313.107	654.4	0.0002	0.00004	mg/L				17.05%
a 227.547	-46.3	-0.1769	0.25854	mg/L				146.13%
d 228.802	0.1	0.0000	0.00016	mg/L				>999.9%
o 228.616	122.9	0.0012	0.00029	mg/L				25.26%
r 267.716	32.1	0.0004	0.00155	mg/L				436.04%
u 324.754	300.8	0.0009	0.00006	mg/L				6.85%
e 273.955	-1230.5	-0.0247	0.00313	mg/L				12.68%
g 279.079	-1030.0	-0.0324	0.00310	mg/L				9.54%
n 257.610	925.8	0.0006	0.00015	mg/L				25.49%
o 202.030	14.4	0.0008	0.00020	mg/L				25.77%
i 231.604	84.8	0.0017	0.00207	mg/L				123.28%
b 220.353	-4.2	-0.0003	0.00041	mg/L				143.96%
b 206.833	7.4	0.0018	0.00144	mg/L				80.98%
e 196.026	-14.7	-0.0053	0.00127	mg/L				23.84%
l 190.800	5.3	0.0015	0.00053	mg/L				34.33%
292.402	158.6	0.0014	0.00032	mg/L				22.53%
n 213.856	211.1	0.0020	0.00052	mg/L				25.92%

eplicate Data

D: 6149-3 F=50 Date: 11/21/02 3:49:37 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-2333.1	-1259.2	-0.0062	mg/L	-0.3121	ppm
1	Al 308.215	4392842.1	4388244.6	120.3	mg/L	6014	ppm
1	As 188.979	133.4	64.0	0.0664	mg/L	3.319	ppm
1	Ba 233.527	244544.6	245410.2	0.6947	mg/L	34.73	ppm
1	Be 313.107	5381.8	5796.0	0.0021	mg/L	0.1046	ppm
1	Ca 227.547	399563.7	399280.3	1531	mg/L	76550	ppm
1	Cd 228.802	468.8	379.1	0.0030	mg/L	0.1496	ppm
1	Co 228.616	7987.9	8404.6	0.0794	mg/L	3.972	ppm
1	Cr 267.716	21943.9	22103.6	0.2401	mg/L	12.01	ppm
1	Cu 324.754	35173.9	32886.9	0.1112	mg/L	5.559	ppm
1	Fe 273.955	8648386.8	8645396.9	173.6	mg/L	8681	ppm
1	Mg 279.079	2778641.8	2778045.7	87.47	mg/L	4373	ppm
1	Mn 257.610	3801122.2	3800001.5	2.394	mg/L	119.7	ppm
1	Mo 202.030	37.6	66.1	-0.0032	mg/L	-0.1620	ppm
1	Ni 231.604	8436.0	8160.8	0.1613	mg/L	8.063	ppm
1	Pb 220.353	1397.3	1212.4	0.0920	mg/L	4.602	ppm
1	Sb 206.833	145.6	85.0	0.0025	mg/L	0.1234	ppm
1	Se 196.026	-21.8	-106.1	0.0050	mg/L	0.2497	ppm
1	Tl 190.800	346.5	157.9	0.0029	mg/L	0.1444	ppm
1	V 292.402	37416.9	37254.2	0.3341	mg/L	16.71	ppm
1	Zn 213.856	65296.0	65879.4	0.6030	mg/L	30.15	ppm

2	Ag 328.068	-2075.7	-1001.8	-0.0050	mg/L	-0.2483 ppm
2	Al 308.215	4436120.0	4431522.4	121.5	mg/L	6073 ppm
2	As 188.979	146.9	77.5	0.0725	mg/L	3.626 ppm
2	Ba 233.527	249842.9	250708.5	0.7097	mg/L	35.48 ppm
2	Be 313.107	5652.2	6066.4	0.0022	mg/L	0.1095 ppm
2	Ca 227.547	410053.8	409770.4	1571	mg/L	78560 ppm
2	Cd 228.802	549.6	459.9	0.0036	mg/L	0.1815 ppm
2	Co 228.616	7676.1	8092.8	0.0765	mg/L	3.825 ppm
2	Cr 267.716	20927.5	21087.3	0.2288	mg/L	11.44 ppm
2	Cu 324.754	36111.4	33824.5	0.1142	mg/L	5.710 ppm
2	Fe 273.955	8715901.2	8712911.4	175.0	mg/L	8749 ppm
2	Mg 279.079	2789256.8	2788660.6	87.80	mg/L	4390 ppm
2	Mn 257.610	3822185.9	3821065.2	2.407	mg/L	120.4 ppm
2	Mo 202.030	-0.5	28.0	-0.0053	mg/L	-0.2654 ppm
2	Ni 231.604	7988.1	7712.9	0.1524	mg/L	7.620 ppm
2	Pb 220.353	1535.8	1350.9	0.1015	mg/L	5.076 ppm
2	Sb 206.833	101.1	40.5	-0.0079	mg/L	-0.3969 ppm
2	Se 196.026	-106.2	-190.5	-0.0253	mg/L	-1.267 ppm
2	Tl 190.800	311.8	123.3	-0.0075	mg/L	-0.3747 ppm
2	V 292.402	38619.8	38457.0	0.3449	mg/L	17.25 ppm
2	Zn 213.856	66547.9	67131.3	0.6146	mg/L	30.73 ppm
3	Ag 328.068	-2054.2	-980.2	-0.0049	mg/L	-0.2429 ppm
3	Al 308.215	4461103.1	4456505.5	122.1	mg/L	6107 ppm
3	As 188.979	114.5	45.1	0.0593	mg/L	2.966 ppm
3	Ba 233.527	245133.0	245998.6	0.6963	mg/L	34.82 ppm
3	Be 313.107	5664.8	6079.0	0.0022	mg/L	0.1097 ppm
3	Ca 227.547	402653.4	402369.9	1543	mg/L	77140 ppm
3	Cd 228.802	473.0	383.3	0.0030	mg/L	0.1512 ppm
3	Co 228.616	7637.0	8053.7	0.0761	mg/L	3.807 ppm
3	Cr 267.716	21031.8	21191.6	0.2300	mg/L	11.50 ppm
3	Cu 324.754	35410.7	33123.8	0.1120	mg/L	5.600 ppm
3	Fe 273.955	8731264.7	8728274.9	175.3	mg/L	8764 ppm
3	Mg 279.079	2802474.1	2801877.9	88.22	mg/L	4411 ppm
3	Mn 257.610	3857162.5	3856041.8	2.429	mg/L	121.5 ppm
3	Mo 202.030	-23.5	5.0	-0.0065	mg/L	-0.3269 ppm
3	Ni 231.604	7993.0	7717.8	0.1525	mg/L	7.625 ppm
3	Pb 220.353	1465.1	1280.2	0.0967	mg/L	4.836 ppm
3	Sb 206.833	123.6	63.0	-0.0026	mg/L	-0.1309 ppm
3	Se 196.026	-32.6	-116.9	0.0014	mg/L	0.0718 ppm
3	Tl 190.800	339.1	150.6	0.0002	mg/L	0.0119 ppm
3	V 292.402	38019.8	37857.0	0.3395	mg/L	16.98 ppm
3	Zn 213.856	65383.5	65966.9	0.6036	mg/L	30.18 ppm

ean Data ----------

D: 6149-3 F=50 Seq. No.: 84 Sample No.: 60 A/S Pos: 68
mple Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:49:37 PM

ement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
328.068	-1080.4	-0.0054	0.00077	mg/L	-0.2678	0.03847	ppm	14.37%
308.215	4425424.1	121.3	0.95	mg/L	6065	47.3	ppm	0.78%
s 188.979	62.2	0.0661	0.00660	mg/L	3.304	0.3301	ppm	9.99%
233.527	247372.4	0.7002	0.00822	mg/L	35.01	0.411	ppm	1.17%
313.107	5980.5	0.0022	0.00006	mg/L	0.1079	0.00289	ppm	2.67%
227.547	403806.8	1548	20.6	mg/L	77410	1031.5	ppm	1.33%
d 228.802	407.4	0.0032	0.00036	mg/L	0.1608	0.01795	ppm	11.16%
228.616	8183.7	0.0774	0.00182	mg/L	3.868	0.0909	ppm	2.35%
267.716	21460.9	0.2330	0.00620	mg/L	11.65	0.310	ppm	2.66%
324.754	33278.4	0.1125	0.00155	mg/L	5.623	0.0777	ppm	1.38%
e 273.955	8695527.7	174.6	0.89	mg/L	8731	44.3	ppm	0.51%
g 279.079	2789528.1	87.83	0.376	mg/L	4391	18.8	ppm	0.43%
257.610	3825702.9	2.410	0.0178	mg/L	120.5	0.89	ppm	0.74%
202.030	33.1	-0.0050	0.00167	mg/L	-0.2514	0.08332	ppm	33.14%
1 231.604	7863.8	0.1554	0.00508	mg/L	7.769	0.2541	ppm	3.27%
b 220.353	1281.2	0.0968	0.00473	mg/L	4.838	0.2367	ppm	4.89%
206.833	62.8	-0.0027	0.00520	mg/L	-0.1348	0.26016	ppm	192.98%
196.026	-137.8	-0.0063	0.01658	mg/L	-0.3151	0.82890	ppm	263.09%
190.800	143.9	-0.0015	0.00539	mg/L	-0.0728	0.26972	ppm	370.44%
292.402	37856.1	0.3395	0.00539	mg/L	16.98	0.270	ppm	1.59%
213.856	66325.9	0.6071	0.00655	mg/L	30.35	0.328	ppm	1.08%

eplicate Data
D: 6149-4 F=50 Date: 11/21/02 3:52:14 PM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-1772.2	-698.2	-0.0035	mg/L	-0.1731	ppm
1	Al 308.215	3207666.1	3203068.6	87.79	mg/L	4390	ppm
1	As 188.979	106.8	37.4	0.0450	mg/L	2.249	ppm
1	Ba 233.527	146070.0	146935.6	0.4159	mg/L	20.80	ppm
1	Be 313.107	2787.7	3201.9	0.0012	mg/L	0.0578	ppm
1	Ca 227.547	293102.8	292819.4	1123	mg/L	56140	ppm
1	Cd 228.802	267.4	177.6	0.0014	mg/L	0.0701	ppm
1	Co 228.616	5170.0	5586.7	0.0528	mg/L	2.641	ppm
1	Cr 267.716	14441.6	14601.4	0.1615	mg/L	8.073	ppm
1	Cu 324.754	24240.5	21953.5	0.0748	mg/L	3.741	ppm
1	Fe 273.955	6426678.0	6423688.2	129.0	mg/L	6450	ppm
1	Mg 279.079	1576140.0	1575543.8	49.61	mg/L	2480	ppm
1	Mn 257.610	3082949.0	3081828.3	1.942	mg/L	97.08	ppm
1	Mo 202.030	-37.9	-9.4	-0.0055	mg/L	-0.2753	ppm
1	Ni 231.604	4394.9	4119.7	0.0814	mg/L	4.070	ppm
1	Pb 220.353	846.2	661.3	0.0531	mg/L	2.653	ppm
1	Sb 206.833	110.3	49.7	-0.0008	mg/L	-0.0375	ppm
1	Se 196.026	-45.7	-130.0	-0.0148	mg/L	-0.7381	ppm
1	Tl 190.800	316.6	128.0	0.0059	mg/L	0.2960	ppm
1	V 292.402	27927.9	27765.1	0.2490	mg/L	12.45	ppm
1	Zn 213.856	28374.2	28957.6	0.2595	mg/L	12.97	ppm
2	Ag 328.068	-1420.8	-346.8	-0.0017	mg/L	-0.0860	ppm
2	Al 308.215	3240766.6	3236169.0	88.70	mg/L	4435	ppm
2	As 188.979	109.6	40.1	0.0466	mg/L	2.331	ppm
2	Ba 233.527	148645.0	149510.6	0.4232	mg/L	21.16	ppm
2	Be 313.107	2825.6	3239.8	0.0012	mg/L	0.0585	ppm
2	Ca 227.547	299107.8	298824.3	1146	mg/L	57290	ppm
2	Cd 228.802	298.3	208.5	0.0016	mg/L	0.0823	ppm
2	Co 228.616	5341.6	5758.3	0.0544	mg/L	2.722	ppm
2	Cr 267.716	14526.1	14685.9	0.1624	mg/L	8.119	ppm
2	Cu 324.754	24960.7	22673.8	0.0771	mg/L	3.856	ppm
2	Fe 273.955	6476545.2	6473555.4	130.0	mg/L	6500	ppm
2	Mg 279.079	1601907.9	1601311.7	50.42	mg/L	2521	ppm
2	Mn 257.610	3118542.8	3117422.1	1.964	mg/L	98.20	ppm
2	Mo 202.030	-41.6	-13.1	-0.0057	mg/L	-0.2871	ppm
2	Ni 231.604	4438.2	4163.0	0.0823	mg/L	4.113	ppm
2	Pb 220.353	699.5	514.6	0.0434	mg/L	2.169	ppm
2	Sb 206.833	75.1	14.5	-0.0093	mg/L	-0.4628	ppm
2	Se 196.026	3.2	-81.1	0.0033	mg/L	0.1629	ppm
2	Tl 190.800	336.9	148.3	0.0116	mg/L	0.5783	ppm
2	V 292.402	28507.9	28345.1	0.2542	mg/L	12.71	ppm
2	Zn 213.856	28805.8	29389.2	0.2634	mg/L	13.17	ppm
3	Ag 328.068	-1697.5	-623.5	-0.0031	mg/L	-0.1545	ppm
3	Al 308.215	3117056.8	3112459.2	85.31	mg/L	4265	ppm
3	As 188.979	113.1	43.7	0.0475	mg/L	2.377	ppm
3	Ba 233.527	146664.4	147530.0	0.4176	mg/L	20.88	ppm
3	Be 313.107	2725.3	3139.5	0.0011	mg/L	0.0567	ppm
3	Ca 227.547	294376.5	294093.0	1128	mg/L	56380	ppm
3	Cd 228.802	281.0	191.3	0.0015	mg/L	0.0755	ppm
3	Co 228.616	5285.7	5702.4	0.0539	mg/L	2.695	ppm
3	Cr 267.716	14415.1	14574.8	0.1612	mg/L	8.058	ppm
3	Cu 324.754	24466.9	22179.9	0.0754	mg/L	3.769	ppm
3	Fe 273.955	6263750.5	6260760.7	125.7	mg/L	6286	ppm
3	Mg 279.079	1579252.4	1578656.3	49.70	mg/L	2485	ppm
3	Mn 257.610	3008353.4	3007232.7	1.895	mg/L	94.73	ppm
3	Mo 202.030	11.3	39.8	-0.0028	mg/L	-0.1387	ppm
3	Ni 231.604	4437.2	4162.0	0.0822	mg/L	4.112	ppm
3	Pb 220.353	736.0	551.1	0.0456	mg/L	2.279	ppm
3	Sb 206.833	86.8	26.2	-0.0061	mg/L	-0.3071	ppm
3	Se 196.026	52.4	-31.9	0.0201	mg/L	1.003	ppm
3	Tl 190.800	292.7	104.2	-0.0002	mg/L	-0.0086	ppm
3	V 292.402	27820.9	27658.2	0.2481	mg/L	12.40	ppm
3	Zn 213.856	29180.7	29764.1	0.2674	mg/L	13.37	ppm

an Data

D: 6149-4 F=50 Seq. No.: 85 Sample No.: 61 A/S Pos: 69
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:52:14 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
328.068	-556.2	-0.0028	0.00092	mg/L	-0.1379	0.04588	ppm	33.28%
308.215	3183898.9	87.27	1.755	mg/L	4363	87.8	ppm	2.01%
188.979	40.4	0.0464	0.00130	mg/L	2.319	0.0648	ppm	2.80%
a 233.527	147992.1	0.4189	0.00382	mg/L	20.95	0.191	ppm	0.91%
313.107	3193.7	0.0012	0.00002	mg/L	0.0576	0.00091	ppm	1.58%
227.547	295245.6	1132	12.1	mg/L	56600	606.4	ppm	1.07%
228.802	192.5	0.0015	0.00012	mg/L	0.0760	0.00611	ppm	8.05%
o 228.616	5682.5	0.0537	0.00083	mg/L	2.686	0.0414	ppm	1.54%
267.716	14620.7	0.1617	0.00064	mg/L	8.083	0.0321	ppm	0.40%
324.754	22269.1	0.0758	0.00120	mg/L	3.789	0.0602	ppm	1.59%
273.955	6386001.4	128.2	2.23	mg/L	6412	111.7	ppm	1.74%
g 279.079	1585170.6	49.91	0.443	mg/L	2495	22.1	ppm	0.89%
n 257.610	3068827.7	1.933	0.0354	mg/L	96.67	1.771	ppm	1.83%
202.030	5.7	-0.0047	0.00165	mg/L	-0.2337	0.08247	ppm	35.29%
231.604	4148.2	0.0820	0.00049	mg/L	4.098	0.0244	ppm	0.60%
b 220.353	575.7	0.0473	0.00508	mg/L	2.367	0.2538	ppm	10.72%
b 206.833	30.1	-0.0054	0.00430	mg/L	-0.2691	0.21516	ppm	79.94%
196.026	-81.0	0.0029	0.01742	mg/L	0.1426	0.87079	ppm	610.56%
190.800	126.8	0.0058	0.00587	mg/L	0.2886	0.29354	ppm	101.72%
292.402	27922.8	0.2504	0.00332	mg/L	12.52	0.166	ppm	1.32%
n 213.856	29370.3	0.2634	0.00398	mg/L	13.17	0.199	ppm	1.51%

plicate Data

D: 6149-5 F=50 Date: 11/21/02 3:55:10 PM

pl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1593.4	-519.5	-0.0026	mg/L	-0.1288	ppm
1	Al 308.215	1835070.9	1830473.3	50.17	mg/L	2509	ppm
1	As 188.979	25.8	-43.6	0.0375	mg/L	1.874	ppm
1	Ba 233.527	174319.4	175185.0	0.4959	mg/L	24.79	ppm
1	Be 313.107	1551.6	1965.8	0.0007	mg/L	0.0355	ppm
1	Ca 227.547	542156.1	541872.7	2072	mg/L	103600	ppm
1	Cd 228.802	396.9	307.1	0.0024	mg/L	0.1212	ppm
1	Co 228.616	3191.8	3608.5	0.0341	mg/L	1.706	ppm
1	Cr 267.716	10089.4	10249.2	0.1133	mg/L	5.667	ppm
1	Cu 324.754	19231.8	16944.9	0.0532	mg/L	2.660	ppm
1	Fe 273.955	3906034.5	3903044.6	78.38	mg/L	3919	ppm
1	Mg 279.079	2098158.1	2097561.9	66.04	mg/L	3302	ppm
1	Mn 257.610	3149379.1	3148258.4	1.983	mg/L	99.17	ppm
1	Mo 202.030	-42.6	-14.1	-0.0038	mg/L	-0.1895	ppm
1	Ni 231.604	3520.0	3244.8	0.0641	mg/L	3.206	ppm
1	Pb 220.353	1004.1	819.2	0.0650	mg/L	3.249	ppm
1	Sb 206.833	103.2	42.5	0.0038	mg/L	0.1879	ppm
1	Se 196.026	33.1	-51.2	0.0014	mg/L	0.0686	ppm
1	Tl 190.800	275.8	87.2	0.0083	mg/L	0.4144	ppm
1	V 292.402	17879.4	17716.7	0.1589	mg/L	7.945	ppm
1	Zn 213.856	53057.5	53640.9	0.4976	mg/L	24.88	ppm
2	Ag 328.068	-1645.0	-571.0	-0.0028	mg/L	-0.1415	ppm
2	Al 308.215	1912559.9	1907962.3	52.29	mg/L	2615	ppm
2	As 188.979	31.8	-37.7	0.0420	mg/L	2.102	ppm
2	Ba 233.527	164045.7	164911.3	0.4668	mg/L	23.34	ppm
2	Be 313.107	1415.2	1829.4	0.0007	mg/L	0.0330	ppm
2	Ca 227.547	565318.4	565034.9	2161	mg/L	108100	ppm
2	Cd 228.802	407.5	317.8	0.0025	mg/L	0.1254	ppm
2	Co 228.616	3176.3	3593.0	0.0340	mg/L	1.698	ppm
2	Cr 267.716	9456.6	9616.4	0.1063	mg/L	5.317	ppm
2	Cu 324.754	18476.9	16190.0	0.0508	mg/L	2.541	ppm
2	Fe 273.955	4041679.7	4038689.9	81.11	mg/L	4055	ppm
2	Mg 279.079	2171661.5	2171065.3	68.36	mg/L	3418	ppm
2	Mn 257.610	3280757.2	3279636.4	2.066	mg/L	103.3	ppm
2	Mo 202.030	-40.8	-12.3	-0.0038	mg/L	-0.1901	ppm

2	Ni 231.604	3513.8	3238.6	0.0640	mg/L	3.200 ppm
2	Pb 220.353	1020.3	835.4	0.0665	mg/L	3.325 ppm
2	Sb 206.833	90.0	29.4	0.0007	mg/L	0.0355 ppm
2	Se 196.026	33.5	-50.8	0.0022	mg/L	0.1082 ppm
2	Tl 190.800	277.6	89.1	0.0082	mg/L	0.4104 ppm
2	V 292.402	16944.6	16781.9	0.1505	mg/L	7.526 ppm
2	Zn 213.856	49970.9	50554.3	0.4682	mg/L	23.41 ppm
3	Ag 328.068	-1607.1	-533.1	-0.0026	mg/L	-0.1321 ppm
3	Al 308.215	1911070.2	1906472.6	52.25	mg/L	2613 ppm
3	As 188.979	39.2	-30.2	0.0446	mg/L	2.231 ppm
3	Ba 233.527	163820.9	164686.5	0.4662	mg/L	23.31 ppm
3	Be 313.107	1441.1	1855.3	0.0007	mg/L	0.0335 ppm
3	Ca 227.547	562374.1	562090.7	2150	mg/L	107500 ppm
3	Cd 228.802	397.2	307.5	0.0024	mg/L	0.1213 ppm
3	Co 228.616	3212.2	3628.9	0.0343	mg/L	1.715 ppm
3	Cr 267.716	9601.4	9761.2	0.1079	mg/L	5.397 ppm
3	Cu 324.754	18651.7	16364.8	0.0514	mg/L	2.569 ppm
3	Fe 273.955	4054675.8	4051686.0	81.37	mg/L	4068 ppm
3	Mg 279.079	2167330.1	2166734.0	68.22	mg/L	3411 ppm
3	Mn 257.610	3260393.3	3259272.5	2.053	mg/L	102.7 ppm
3	Mo 202.030	-42.2	-13.7	-0.0039	mg/L	-0.1942 ppm
3	Ni 231.604	3534.3	3259.1	0.0644	mg/L	3.220 ppm
3	Pb 220.353	1018.5	833.6	0.0663	mg/L	3.317 ppm
3	Sb 206.833	93.2	32.5	0.0014	mg/L	0.0703 ppm
3	Se 196.026	35.5	-48.8	0.0030	mg/L	0.1495 ppm
3	Tl 190.800	281.0	92.5	0.0092	mg/L	0.4576 ppm
3	V 292.402	16737.6	16574.9	0.1487	mg/L	7.433 ppm
3	Zn 213.856	50238.1	50821.4	0.4707	mg/L	23.54 ppm

ean Data ----------

D: 6149-5 F=50 Seq. No.: 86 Sample No.: 62 A/S Pos: 70
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:55:10 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-541.2	-0.0027	0.00013	mg/L	-0.1341	0.00662	ppm	4.94%
l 308.215	1881636.1	51.57	1.215	mg/L	2579	60.7	ppm	2.36%
s 188.979	-37.2	0.0414	0.00362	mg/L	2.069	0.1808	ppm	8.74%
a 233.527	168260.9	0.4763	0.01698	mg/L	23.81	0.849	ppm	3.56%
e 313.107	1883.5	0.0007	0.00003	mg/L	0.0340	0.00131	ppm	3.85%
a 227.547	556332.8	2128	48.2	mg/L	106400	2411.3	ppm	2.27%
d 228.802	310.8	0.0025	0.00005	mg/L	0.1226	0.00239	ppm	1.95%
o 228.616	3610.1	0.0341	0.00017	mg/L	1.706	0.0085	ppm	0.50%
r 267.716	9875.6	0.1092	0.00367	mg/L	5.460	0.1833	ppm	3.36%
u 324.754	16499.9	0.0518	0.00124	mg/L	2.590	0.0620	ppm	2.39%
e 273.955	3997806.8	80.28	1.653	mg/L	4014	82.7	ppm	2.06%
g 279.079	2145120.4	67.54	1.299	mg/L	3377	64.9	ppm	1.92%
n 257.610	3229055.8	2.034	0.0445	mg/L	101.7	2.23	ppm	2.19%
o 202.030	-13.4	-0.0038	0.00005	mg/L	-0.1913	0.00253	ppm	1.32%
i 231.604	3247.5	0.0642	0.00021	mg/L	3.209	0.0104	ppm	0.32%
b 220.353	829.4	0.0659	0.00083	mg/L	3.297	0.0416	ppm	1.26%
b 206.833	34.8	0.0020	0.00160	mg/L	0.0979	0.07983	ppm	81.55%
e 196.026	-50.2	0.0022	0.00081	mg/L	0.1088	0.04044	ppm	37.18%
l 190.800	89.6	0.0085	0.00052	mg/L	0.4275	0.02614	ppm	6.11%
292.402	17024.5	0.1527	0.00546	mg/L	7.634	0.2728	ppm	3.57%
n 213.856	51672.2	0.4788	0.01630	mg/L	23.94	0.815	ppm	3.40%

eplicate Data ----------

D: 6149-6 F=50 Date: 11/21/02 3:58:45 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1399.4	-325.4	-0.0016	mg/L	-0.0807	ppm
1	Al 308.215	1989199.6	1984602.1	54.39	mg/L	2720	ppm
1	As 188.979	-1.5	-70.9	0.0304	mg/L	1.521	ppm
1	Ba 233.527	170290.3	171155.9	0.4845	mg/L	24.22	ppm
1	Be 313.107	484.0	898.2	0.0003	mg/L	0.0162	ppm
1	Ca 227.547	585036.5	584753.0	2236	mg/L	111800	ppm
1	Cd 228.802	486.8	397.1	0.0031	mg/L	0.1567	ppm

1	Co 228.616	2459.6	2876.3	0.0272	mg/L	1.359 ppm
1	Cr 267.716	10433.5	10593.3	0.1171	mg/L	5.857 ppm
1	Cu 324.754	13023.1	10736.1	0.0337	mg/L	1.685 ppm
1	Fe 273.955	3172345.3	3169355.5	63.65	mg/L	3182 ppm
1	Mg 279.079	2118999.8	2118403.7	66.70	mg/L	3335 ppm
1	Mn 257.610	2411836.4	2410715.7	1.519	mg/L	75.94 ppm
1	Mo 202.030	-76.9	-48.4	-0.0026	mg/L	-0.1282 ppm
1	Ni 231.604	2966.3	2691.1	0.0532	mg/L	2.659 ppm
1	Pb 220.353	586.7	401.8	0.0379	mg/L	1.893 ppm
1	Sb 206.833	88.0	27.4	0.0006	mg/L	0.0307 ppm
1	Se 196.026	59.8	-24.4	0.0063	mg/L	0.3170 ppm
1	Tl 190.800	273.6	85.0	0.0096	mg/L	0.4804 ppm
1	V 292.402	13603.4	13440.6	0.1205	mg/L	6.027 ppm
1	Zn 213.856	19647.0	20230.4	0.1841	mg/L	9.204 ppm
2	Ag 328.068	-1375.1	-301.1	-0.0015	mg/L	-0.0746 ppm
2	Al 308.215	2039956.7	2035359.1	55.79	mg/L	2789 ppm
2	As 188.979	17.3	-52.1	0.0391	mg/L	1.956 ppm
2	Ba 233.527	169390.1	170255.8	0.4819	mg/L	24.10 ppm
2	Be 313.107	502.4	916.6	0.0003	mg/L	0.0165 ppm
2	Ca 227.547	600280.1	599996.6	2295	mg/L	114700 ppm
2	Cd 228.802	464.4	374.6	0.0030	mg/L	0.1478 ppm
2	Co 228.616	2463.1	2879.8	0.0272	mg/L	1.361 ppm
2	Cr 267.716	10490.3	10650.1	0.1178	mg/L	5.888 ppm
2	Cu 324.754	12992.5	10705.6	0.0336	mg/L	1.680 ppm
2	Fe 273.955	3233837.6	3230847.7	64.88	mg/L	3244 ppm
2	Mg 279.079	2156464.6	2155868.4	67.88	mg/L	3394 ppm
2	Mn 257.610	2467644.2	2466523.5	1.554	mg/L	77.70 ppm
2	Mo 202.030	-81.8	-53.3	-0.0028	mg/L	-0.1413 ppm
2	Ni 231.604	2926.1	2650.9	0.0524	mg/L	2.619 ppm
2	Pb 220.353	578.5	393.6	0.0376	mg/L	1.880 ppm
2	Sb 206.833	91.7	31.1	0.0014	mg/L	0.0713 ppm
2	Se 196.026	45.3	-39.0	0.0013	mg/L	0.0667 ppm
2	Tl 190.800	269.8	81.3	0.0082	mg/L	0.4106 ppm
2	V 292.402	13741.8	13579.0	0.1218	mg/L	6.089 ppm
2	Zn 213.856	19469.6	20053.0	0.1823	mg/L	9.113 ppm
3	Ag 328.068	-1392.0	-318.0	-0.0016	mg/L	-0.0788 ppm
3	Al 308.215	1989242.9	1984645.3	54.40	mg/L	2720 ppm
3	As 188.979	-0.2	-69.6	0.0308	mg/L	1.539 ppm
3	Ba 233.527	165319.5	166185.1	0.4704	mg/L	23.52 ppm
3	Be 313.107	316.2	730.4	0.0003	mg/L	0.0132 ppm
3	Ca 227.547	583499.0	583215.6	2231	mg/L	111500 ppm
3	Cd 228.802	468.5	378.7	0.0030	mg/L	0.1495 ppm
3	Co 228.616	2410.7	2827.4	0.0267	mg/L	1.336 ppm
3	Cr 267.716	10066.3	10226.1	0.1131	mg/L	5.654 ppm
3	Cu 324.754	12907.8	10620.8	0.0333	mg/L	1.667 ppm
3	Fe 273.955	3177141.8	3174151.9	63.74	mg/L	3187 ppm
3	Mg 279.079	2112723.0	2112126.8	66.50	mg/L	3325 ppm
3	Mn 257.610	2400866.6	2399745.9	1.512	mg/L	75.59 ppm
3	Mo 202.030	-89.3	-60.8	-0.0032	mg/L	-0.1612 ppm
3	Ni 231.604	2924.2	2649.0	0.0523	mg/L	2.617 ppm
3	Pb 220.353	563.3	378.4	0.0363	mg/L	1.814 ppm
3	Sb 206.833	99.2	38.6	0.0034	mg/L	0.1699 ppm
3	Se 196.026	33.3	-51.0	-0.0033	mg/L	-0.1633 ppm
3	Tl 190.800	276.8	88.2	0.0105	mg/L	0.5259 ppm
3	V 292.402	13366.7	13204.0	0.1184	mg/L	5.921 ppm
3	Zn 213.856	19177.1	19760.5	0.1796	mg/L	8.981 ppm

an Data ----------

: 6149-6 F=50 Seq. No.: 87 Sample No.: 63 A/S Pos: 71
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:58:45 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-314.9	-0.0016	0.00006	mg/L	-0.0780	0.00309	ppm	3.96%
308.215	2001535.5	54.86	0.803	mg/L	2743	40.1	ppm	1.46%
188.979	-64.2	0.0334	0.00492	mg/L	1.672	0.2459	ppm	14.71%
a 233.527	169198.9	0.4790	0.00750	mg/L	23.95	0.375	ppm	1.57%
e 313.107	848.4	0.0003	0.00004	mg/L	0.0153	0.00185	ppm	12.09%
227.547	589321.7	2254	35.5	mg/L	112700	1774.0	ppm	1.57%

3 Zn 213.856	172462.4	173045.8	1.616 mg/L	80.79 ppm	

ean Data

D: 6149-9 F=50 Seq. No.: 90 Sample No.: 66 A/S Pos: 74
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 4:08:11 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-775.6	-0.0038	0.00050	mg/L	-0.1922	0.02487	ppm	12.94%
l 308.215	4046210.7	110.9	1.42	mg/L	5545	70.9	ppm	1.28%
s 188.979	22.5	0.0500	0.00986	mg/L	2.499	0.4928	ppm	19.72%
a 233.527	185608.8	0.5254	0.00309	mg/L	26.27	0.154	ppm	0.59%
e 313.107	1267.8	0.0005	0.00005	mg/L	0.0229	0.00252	ppm	11.03%
a 227.547	400827.4	1536	19.7	mg/L	76820	982.6	ppm	1.28%
d 228.802	331.9	0.0026	0.00084	mg/L	0.1310	0.04176	ppm	31.89%
o 228.616	6495.9	0.0614	0.00032	mg/L	3.070	0.0159	ppm	0.52%
r 267.716	18730.6	0.2071	0.00314	mg/L	10.36	0.157	ppm	1.52%
u 324.754	24342.0	0.0833	0.00064	mg/L	4.167	0.0319	ppm	0.76%
e 273.955	7542415.6	151.5	1.78	mg/L	7573	88.8	ppm	1.17%
g 279.079	2616832.9	82.39	0.751	mg/L	4120	37.5	ppm	0.91%
n 257.610	3276946.9	2.065	0.0196	mg/L	103.2	0.98	ppm	0.95%
o 202.030	11.3	-0.0053	0.00171	mg/L	-0.2640	0.08563	ppm	32.43%
i 231.604	5508.8	0.1089	0.00257	mg/L	5.443	0.1286	ppm	2.36%
b 220.353	1073.0	0.0830	0.00366	mg/L	4.151	0.1832	ppm	4.41%
b 206.833	68.2	0.0007	0.01311	mg/L	0.0366	0.65565	ppm	>999.9%
e 196.026	-115.9	-0.0046	0.01097	mg/L	-0.2276	0.54869	ppm	241.04%
l 190.800	108.2	-0.0067	0.00691	mg/L	-0.3364	0.34562	ppm	102.73%
292.402	32959.4	0.2956	0.00296	mg/L	14.78	0.148	ppm	1.00%
n 213.856	174462.7	1.629	0.0147	mg/L	81.47	0.737	ppm	0.90%

eplicate Data

D: 6149-10 F=50 Date: 11/21/02 4:10:52 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-3605.9	-2531.9	-0.0126	mg/L	-0.6276	ppm
1	Al 308.215	9121663.2	9117065.7	249.9	mg/L	12490	ppm
1	As 188.979	412.9	343.5	0.1554	mg/L	7.769	ppm
1	Ba 233.527	295657.9	296523.5	0.8394	mg/L	41.97	ppm
1	Be 313.107	23559.8	23974.0	0.0087	mg/L	0.4326	ppm
1	Ca 227.547	186164.8	185881.3	719.6	mg/L	35980	ppm
1	Cd 228.802	224.0	134.3	0.0011	mg/L	0.0530	ppm
1	Co 228.616	21478.2	21894.9	0.2070	mg/L	10.35	ppm
1	Cr 267.716	39419.5	39579.3	0.4280	mg/L	21.40	ppm
1	Cu 324.754	53820.9	51534.0	0.1796	mg/L	8.982	ppm
1	Fe 273.955	19436082.0	19433092.2	390.3	mg/L	19510	ppm
1	Mg 279.079	3570822.1	3570225.9	112.4	mg/L	5621	ppm
1	Mn 257.610	4333796.4	4332675.6	2.730	mg/L	136.5	ppm
1	Mo 202.030	155.0	183.5	-0.0054	mg/L	-0.2715	ppm
1	Ni 231.604	21188.2	20913.0	0.4132	mg/L	20.66	ppm
1	Pb 220.353	2839.2	2654.3	0.1913	mg/L	9.565	ppm
1	Sb 206.833	246.9	186.3	0.0083	mg/L	0.4169	ppm
1	Se 196.026	-244.2	-328.5	-0.0200	mg/L	-0.9987	ppm
1	Tl 190.800	413.7	225.2	-0.0309	mg/L	-1.547	ppm
1	V 292.402	92882.0	92719.2	0.8316	mg/L	41.58	ppm
1	Zn 213.856	90107.0	90690.4	0.8141	mg/L	40.70	ppm
2	Ag 328.068	-3640.3	-2566.3	-0.0127	mg/L	-0.6361	ppm
2	Al 308.215	9257869.1	9253271.5	253.6	mg/L	12680	ppm
2	As 188.979	368.7	299.3	0.1378	mg/L	6.888	ppm
2	Ba 233.527	289677.9	290543.5	0.8224	mg/L	41.12	ppm
2	Be 313.107	23042.5	23456.7	0.0085	mg/L	0.4233	ppm
2	Ca 227.547	180727.6	180444.1	698.9	mg/L	34940	ppm
2	Cd 228.802	288.8	199.0	0.0016	mg/L	0.0785	ppm
2	Co 228.616	21717.1	22133.8	0.2092	mg/L	10.46	ppm
2	Cr 267.716	38147.7	38307.4	0.4138	mg/L	20.69	ppm
2	Cu 324.754	52684.4	50397.5	0.1763	mg/L	8.816	ppm
2	Fe 273.955	19700565.7	19697575.9	395.6	mg/L	19780	ppm
2	Mg 279.079	3483879.0	3483282.9	109.7	mg/L	5484	ppm
2	Mn 257.610	4214360.4	4213239.7	2.654	mg/L	132.7	ppm

2	Mo 202.030	111.7	140.2	-0.0079	mg/L	-0.3965	ppm
2	Ni 231.604	21270.3	20995.1	0.4149	mg/L	20.74	ppm
2	Pb 220.353	2829.7	2644.8	0.1908	mg/L	9.538	ppm
2	Sb 206.833	198.5	137.9	-0.0032	mg/L	-0.1580	ppm
2	Se 196.026	-221.6	-305.9	-0.0104	mg/L	-0.5219	ppm
2	Tl 190.800	419.5	230.9	-0.0306	mg/L	-1.528	ppm
2	V 292.402	89605.2	89442.5	0.8022	mg/L	40.11	ppm
2	Zn 213.856	87812.5	88395.9	0.7919	mg/L	39.59	ppm
3	Ag 328.068	-3929.7	-2855.8	-0.0142	mg/L	-0.7078	ppm
3	Al 308.215	9288021.8	9283424.2	254.4	mg/L	12720	ppm
3	As 188.979	410.0	340.6	0.1541	mg/L	7.704	ppm
3	Ba 233.527	295577.9	296443.5	0.8391	mg/L	41.96	ppm
3	Be 313.107	23516.3	23930.5	0.0086	mg/L	0.4318	ppm
3	Ca 227.547	184457.7	184174.2	713.2	mg/L	35660	ppm
3	Cd 228.802	343.4	253.7	0.0020	mg/L	0.1001	ppm
3	Co 228.616	21930.2	22346.9	0.2112	mg/L	10.56	ppm
3	Cr 267.716	39131.5	39291.3	0.4246	mg/L	21.23	ppm
3	Cu 324.754	53976.2	51689.3	0.1804	mg/L	9.022	ppm
3	Fe 273.955	19774889.5	19771899.7	397.1	mg/L	19850	ppm
3	Mg 279.079	3551767.8	3551171.7	111.8	mg/L	5591	ppm
3	Mn 257.610	4296523.1	4295402.4	2.706	mg/L	135.3	ppm
3	Mo 202.030	209.7	238.2	-0.0028	mg/L	-0.1398	ppm
3	Ni 231.604	21166.8	20891.5	0.4128	mg/L	20.64	ppm
3	Pb 220.353	2915.3	2730.5	0.1966	mg/L	9.829	ppm
3	Sb 206.833	156.8	96.2	-0.0135	mg/L	-0.6773	ppm
3	Se 196.026	-207.0	-291.3	-0.0048	mg/L	-0.2379	ppm
3	Tl 190.800	386.5	197.9	-0.0405	mg/L	-2.026	ppm
3	V 292.402	92229.5	92066.7	0.8257	mg/L	41.29	ppm
3	Zn 213.856	89657.3	90240.7	0.8091	mg/L	40.46	ppm

ean Data ----------

D: 6149-10 F=50 Seq. No.: 91 Sample No.: 67 A/S Pos: 75

mple Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 4:10:52 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
328.068	-2651.3	-0.0131	0.00088	mg/L	-0.6572	0.04409	ppm	6.71%
308.215	9217920.5	252.6	2.43	mg/L	12630	121.5	ppm	0.96%
s 188.979	327.8	0.1491	0.00982	mg/L	7.454	0.4911	ppm	6.59%
a 233.527	294503.5	0.8336	0.00971	mg/L	41.68	0.485	ppm	1.16%
313.107	23787.1	0.0086	0.00010	mg/L	0.4292	0.00518	ppm	1.21%
227.547	183499.9	710.5	10.59	mg/L	35530	529.4	ppm	1.49%
d 228.802	195.6	0.0015	0.00047	mg/L	0.0772	0.02359	ppm	30.55%
o 228.616	22125.2	0.2091	0.00214	mg/L	10.46	0.107	ppm	1.02%
267.716	39059.3	0.4221	0.00742	mg/L	21.11	0.371	ppm	1.76%
324.754	51207.0	0.1788	0.00219	mg/L	8.940	0.1093	ppm	1.22%
e 273.955	19634189.3	394.3	3.58	mg/L	19710	178.8	ppm	0.91%
g 279.079	3534893.5	111.3	1.44	mg/L	5565	71.9	ppm	1.29%
257.610	4280439.3	2.697	0.0385	mg/L	134.8	1.92	ppm	1.43%
202.030	187.3	-0.0054	0.00257	mg/L	-0.2693	0.12837	ppm	47.67%
231.604	20933.2	0.4136	0.00108	mg/L	20.68	0.054	ppm	0.26%
b 220.353	2676.5	0.1929	0.00321	mg/L	9.644	0.1607	ppm	1.67%
206.833	140.1	-0.0028	0.01095	mg/L	-0.1395	0.54729	ppm	392.40%
196.026	-308.6	-0.0117	0.00769	mg/L	-0.5862	0.38446	ppm	65.59%
190.800	218.0	-0.0340	0.00565	mg/L	-1.700	0.2826	ppm	16.62%
292.402	91409.5	0.8198	0.01556	mg/L	40.99	0.778	ppm	1.90%
213.856	89775.7	0.8050	0.01165	mg/L	40.25	0.583	ppm	1.45%

plicate Data ----------

D: 6149-11 F=50 Date: 11/21/02 4:13:39 PM

pl#	Element	Net Intensity	Corrected Intensity	Conc	Calib Units	Conc.	Sample Units
1	Ag 328.068	-2940.4	-1866.5	-0.0093	mg/L	-0.4626	ppm
1	Al 308.215	3360093.7	3355496.1	91.97	mg/L	4598	ppm
1	As 188.979	94.2	24.7	0.0603	mg/L	3.013	ppm
1	Ba 233.527	325242.0	326107.6	0.9231	mg/L	46.16	ppm
1	Be 313.107	5626.9	6041.1	0.0022	mg/L	0.1090	ppm
1	Ca 227.547	497320.8	497037.3	1904	mg/L	95190	ppm

1	Cd 228.802	595.4	505.6	0.0040	mg/L	0.1995 ppm
1	Co 228.616	24708.2	25124.9	0.2375	mg/L	11.88 ppm
1	Cr 267.716	16884.8	17044.6	0.1885	mg/L	9.424 ppm
1	Cu 324.754	22794.0	20507.1	0.0701	mg/L	3.506 ppm
1	Fe 273.955	6258272.7	6255282.9	125.6	mg/L	6281 ppm
1	Mg 279.079	2549979.7	2549383.5	80.27	mg/L	4013 ppm
1	Mn 257.610	11383729.0	11382608.3	7.171	mg/L	358.6 ppm
1	Mo 202.030	-35.1	-6.6	-0.0052	mg/L	-0.2612 ppm
1	Ni 231.604	11029.9	10754.7	0.2125	mg/L	10.63 ppm
1	Pb 220.353	1116.0	931.1	0.0741	mg/L	3.707 ppm
1	Sb 206.833	62.3	1.7	-0.0130	mg/L	-0.6508 ppm
1	Se 196.026	-44.3	-128.6	-0.0156	mg/L	-0.7786 ppm
1	Tl 190.800	272.5	84.0	-0.0064	mg/L	-0.3218 ppm
1	V 292.402	30181.8	30019.1	0.2692	mg/L	13.46 ppm
1	Zn 213.856	57636.2	58219.6	0.5358	mg/L	26.79 ppm
2	Ag 328.068	-2672.9	-1599.0	-0.0079	mg/L	-0.3963 ppm
2	Al 308.215	3298222.5	3293625.0	90.27	mg/L	4514 ppm
2	As 188.979	121.9	52.4	0.0697	mg/L	3.486 ppm
2	Ba 233.527	319134.3	319999.9	0.9058	mg/L	45.29 ppm
2	Be 313.107	5593.0	6007.2	0.0022	mg/L	0.1084 ppm
2	Ca 227.547	485248.4	484964.9	1858	mg/L	92880 ppm
2	Cd 228.802	665.1	575.3	0.0045	mg/L	0.2270 ppm
2	Co 228.616	25099.3	25516.0	0.2412	mg/L	12.06 ppm
2	Cr 267.716	17256.0	17415.8	0.1926	mg/L	9.629 ppm
2	Cu 324.754	22399.5	20112.5	0.0688	mg/L	3.438 ppm
2	Fe 273.955	6126023.9	6123034.1	123.0	mg/L	6148 ppm
2	Mg 279.079	2496274.3	2495678.2	78.58	mg/L	3929 ppm
2	Mn 257.610	11034446.9	11033326.2	6.951	mg/L	347.6 ppm
2	Mo 202.030	-57.7	-29.2	-0.0063	mg/L	-0.3161 ppm
2	Ni 231.604	11134.2	10858.9	0.2146	mg/L	10.73 ppm
2	Pb 220.353	1046.8	861.9	0.0693	mg/L	3.463 ppm
2	Sb 206.833	87.9	27.3	-0.0069	mg/L	-0.3428 ppm
2	Se 196.026	-85.7	-170.0	-0.0313	mg/L	-1.563 ppm
2	Tl 190.800	262.2	73.7	-0.0088	mg/L	-0.4404 ppm
2	V 292.402	29772.8	29610.0	0.2656	mg/L	13.28 ppm
2	Zn 213.856	56176.2	56759.6	0.5223	mg/L	26.12 ppm
3	Ag 328.068	-2632.4	-1558.4	-0.0077	mg/L	-0.3863 ppm
3	Al 308.215	3303942.4	3299344.8	90.43	mg/L	4521 ppm
3	As 188.979	93.7	24.2	0.0593	mg/L	2.963 ppm
3	Ba 233.527	319778.7	320644.3	0.9076	mg/L	45.38 ppm
3	Be 313.107	5666.7	6080.9	0.0022	mg/L	0.1097 ppm
3	Ca 227.547	487683.7	487400.3	1867	mg/L	93350 ppm
3	Cd 228.802	482.9	393.2	0.0031	mg/L	0.1551 ppm
3	Co 228.616	24341.0	24757.7	0.2340	mg/L	11.70 ppm
3	Cr 267.716	16761.2	16921.0	0.1871	mg/L	9.355 ppm
3	Cu 324.754	23010.0	20723.1	0.0709	mg/L	3.543 ppm
3	Fe 273.955	6324042.3	6321052.5	126.9	mg/L	6347 ppm
3	Mg 279.079	2500973.4	2500377.3	78.73	mg/L	3936 ppm
3	Mn 257.610	11403977.0	11402856.3	7.184	mg/L	359.2 ppm
3	Mo 202.030	-3.7	24.9	-0.0036	mg/L	-0.1806 ppm
3	Ni 231.604	10793.1	10517.9	0.2078	mg/L	10.39 ppm
3	Pb 220.353	1078.9	894.0	0.0714	mg/L	3.572 ppm
3	Sb 206.833	64.6	3.9	-0.0124	mg/L	-0.6218 ppm
3	Se 196.026	0.6	-83.7	0.0013	mg/L	0.0633 ppm
3	Tl 190.800	234.2	45.7	-0.0176	mg/L	-0.8789 ppm
3	V 292.402	29990.4	29827.6	0.2675	mg/L	13.38 ppm
3	Zn 213.856	56794.1	57377.5	0.5277	mg/L	26.39 ppm

ean Data ----------

D: 6149-11 F=50 Seq. No.: 92 Sample No.: 68 A/S Pos: 76
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 4:13:39 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-1674.6	-0.0083	0.00083	mg/L	-0.4151	0.04148	ppm	9.99%
l 308.215	3316155.3	90.89	0.937	mg/L	4545	46.9	ppm	1.03%
s 188.979	33.8	0.0631	0.00577	mg/L	3.154	0.2886	ppm	9.15%
a 233.527	322250.6	0.9122	0.00950	mg/L	45.61	0.475	ppm	1.04%
e 313.107	6043.1	0.0022	0.00001	mg/L	0.1090	0.00067	ppm	0.61%

227.547	489800.8	1876	24.4 mg/L	93800	1221.7 ppm	1.30%
228.802	491.4	0.0039	0.00073 mg/L	0.1939	0.03628 ppm	18.71%
o 228.616	25132.9	0.2376	0.00358 mg/L	11.88	0.179 ppm	1.51%
r 267.716	17127.1	0.1894	0.00285 mg/L	9.469	0.1424 ppm	1.50%
324.754	20447.6	0.0699	0.00106 mg/L	3.496	0.0532 ppm	1.52%
273.955	6233123.1	125.2	2.03 mg/L	6259	101.3 ppm	1.62%
g 279.079	2515146.3	79.19	0.936 mg/L	3960	46.8 ppm	1.18%
n 257.610	11272930.3	7.102	0.1309 mg/L	355.1	6.54 ppm	1.84%
202.030	-3.6	-0.0051	0.00136 mg/L	-0.2526	0.06817 ppm	26.98%
231.604	10710.5	0.2116	0.00345 mg/L	10.58	0.173 ppm	1.63%
o 220.353	895.7	0.0716	0.00245 mg/L	3.581	0.1223 ppm	3.42%
b 206.833	10.9	-0.0108	0.00340 mg/L	-0.5385	0.17008 ppm	31.59%
196.026	-127.4	-0.0152	0.01627 mg/L	-0.7595	0.81346 ppm	107.10%
190.800	67.8	-0.0109	0.00587 mg/L	-0.5470	0.29348 ppm	53.65%
292.402	29818.9	0.2674	0.00184 mg/L	13.37	0.092 ppm	0.69%
n 213.856	57452.2	0.5286	0.00679 mg/L	26.43	0.339 ppm	1.28%

plicate Data ----------
): 6149-12 F=50 Date: 11/21/02 4:16:25 PM

pl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-3074.5	-2000.5	-0.0099	mg/L	-0.4958	ppm
1	Al 308.215	5552746.2	5548148.6	152.1	mg/L	7603	ppm
1	As 188.979	309.0	239.5	0.1110	mg/L	5.549	ppm
1	Ba 233.527	295826.3	296691.9	0.8398	mg/L	41.99	ppm
1	Be 313.107	6512.8	6927.0	0.0025	mg/L	0.1250	ppm
1	Ca 227.547	134686.1	134402.6	520.6	mg/L	26030	ppm
1	Cd 228.802	415.9	326.2	0.0026	mg/L	0.1287	ppm
1	Co 228.616	14457.7	14874.4	0.1406	mg/L	7.030	ppm
1	Cr 267.716	27073.7	27233.5	0.2938	mg/L	14.69	ppm
1	Cu 324.754	62455.5	60168.6	0.2024	mg/L	10.12	ppm
1	Fe 273.955	14715836.6	14712846.7	295.5	mg/L	14770	ppm
1	Mg 279.079	2805859.0	2805262.9	88.32	mg/L	4416	ppm
1	Mn 257.610	6411260.9	6410140.2	4.039	mg/L	201.9	ppm
1	Mo 202.030	152.7	181.2	-0.0019	mg/L	-0.0936	ppm
1	Ni 231.604	13734.0	13458.8	0.2659	mg/L	13.30	ppm
1	Pb 220.353	2629.1	2444.2	0.1718	mg/L	8.589	ppm
1	Sb 206.833	170.7	110.1	0.0010	mg/L	0.0481	ppm
1	Se 196.026	-150.2	-234.5	-0.0073	mg/L	-0.3641	ppm
1	Tl 190.800	334.3	145.8	-0.0266	mg/L	-1.329	ppm
1	V 292.402	69358.1	69195.3	0.6206	mg/L	31.03	ppm
1	Zn 213.856	136260.2	136843.6	1.259	mg/L	62.97	ppm
2	Ag 328.068	-2960.4	-1886.4	-0.0094	mg/L	-0.4676	ppm
2	Al 308.215	5528564.2	5523966.7	151.4	mg/L	7570	ppm
2	As 188.979	295.6	226.1	0.1062	mg/L	5.310	ppm
2	Ba 233.527	304100.1	304965.7	0.8633	mg/L	43.16	ppm
2	Be 313.107	6709.1	7123.3	0.0026	mg/L	0.1285	ppm
2	Ca 227.547	137994.6	137711.1	533.2	mg/L	26660	ppm
2	Cd 228.802	465.6	375.8	0.0030	mg/L	0.1483	ppm
2	Co 228.616	14434.2	14850.9	0.1404	mg/L	7.019	ppm
2	Cr 267.716	27311.4	27471.2	0.2965	mg/L	14.82	ppm
2	Cu 324.754	64815.0	62528.1	0.2098	mg/L	10.49	ppm
2	Fe 273.955	14669096.1	14666106.2	294.5	mg/L	14730	ppm
2	Mg 279.079	2876961.3	2876365.1	90.56	mg/L	4528	ppm
2	Mn 257.610	6342753.3	6341632.6	3.995	mg/L	199.8	ppm
2	Mo 202.030	182.2	210.7	-0.0003	mg/L	-0.0137	ppm
2	Ni 231.604	13723.8	13448.6	0.2657	mg/L	13.29	ppm
2	Pb 220.353	2605.2	2420.3	0.1702	mg/L	8.510	ppm
2	Sb 206.833	145.5	84.9	-0.0051	mg/L	-0.2539	ppm
2	Se 196.026	-81.7	-166.0	0.0174	mg/L	0.8679	ppm
2	Tl 190.800	262.1	73.6	-0.0474	mg/L	-2.370	ppm
2	V 292.402	70760.9	70598.1	0.6332	mg/L	31.66	ppm
2	Zn 213.856	140020.2	140603.6	1.295	mg/L	64.75	ppm
3	Ag 328.068	-3040.7	-1966.7	-0.0097	mg/L	-0.4875	ppm
3	Al 308.215	5656858.9	5652261.4	154.9	mg/L	7746	ppm
3	As 188.979	279.1	209.7	0.0995	mg/L	4.975	ppm
3	Ba 233.527	299146.1	300011.7	0.8492	mg/L	42.46	ppm
3	Be 313.107	6650.3	7064.5	0.0025	mg/L	0.1275	ppm

3	Ca 227.547	135285.5	135002.0	523.0	mg/L	26150 ppm
3	Cd 228.802	422.5	332.8	0.0026	mg/L	0.1313 ppm
3	Co 228.616	13682.7	14099.4	0.1333	mg/L	6.664 ppm
3	Cr 267.716	25692.0	25851.8	0.2784	mg/L	13.92 ppm
3	Cu 324.754	63439.7	61152.7	0.2057	mg/L	10.29 ppm
3	Fe 273.955	14942322.4	14939332.6	300.0	mg/L	15000 ppm
3	Mg 279.079	2831573.0	2830976.9	89.13	mg/L	4457 ppm
3	Mn 257.610	6449979.1	6448858.4	4.063	mg/L	203.1 ppm
3	Mo 202.030	186.2	214.7	-0.0003	mg/L	-0.0136 ppm
3	Ni 231.604	13246.5	12971.3	0.2563	mg/L	12.82 ppm
3	Pb 220.353	2390.9	2206.0	0.1560	mg/L	7.799 ppm
3	Sb 206.833	181.7	121.0	0.0038	mg/L	0.1881 ppm
3	Se 196.026	-105.9	-190.2	0.0100	mg/L	0.4990 ppm
3	Tl 190.800	336.8	148.3	-0.0270	mg/L	-1.349 ppm
3	V 292.402	70117.6	69954.9	0.6274	mg/L	31.37 ppm
3	Zn 213.856	137261.6	137845.0	1.268	mg/L	63.42 ppm

ean Data ----------

D: 6149-12 F=50 Seq. No.: 93 Sample No.: 69 A/S Pos: 77

ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 4:16:25 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-1951.2	-0.0097	0.00029	mg/L	-0.4836	0.01453	ppm	3.00%
l 308.215	5574792.2	152.8	1.87	mg/L	7640	93.4	ppm	1.22%
s 188.979	225.1	0.1056	0.00577	mg/L	5.278	0.2884	ppm	5.46%
a 233.527	300556.4	0.8508	0.01179	mg/L	42.54	0.589	ppm	1.39%
e 313.107	7038.3	0.0025	0.00004	mg/L	0.1270	0.00182	ppm	1.43%
a 227.547	135705.3	525.6	6.71	mg/L	26280	335.5	ppm	1.28%
d 228.802	344.9	0.0027	0.00021	mg/L	0.1361	0.01064	ppm	7.82%
o 228.616	14608.2	0.1381	0.00417	mg/L	6.904	0.2084	ppm	3.02%
r 267.716	26852.1	0.2896	0.00974	mg/L	14.48	0.487	ppm	3.36%
u 324.754	61283.1	0.2060	0.00369	mg/L	10.30	0.184	ppm	1.79%
e 273.955	14772761.9	296.7	2.93	mg/L	14830	146.7	ppm	0.99%
g 279.079	2837535.0	89.34	1.134	mg/L	4467	56.7	ppm	1.27%
n 257.610	6400210.4	4.032	0.0342	mg/L	201.6	1.71	ppm	0.85%
o 202.030	202.2	-0.0008	0.00092	mg/L	-0.0403	0.04617	ppm	114.62%
i 231.604	13292.9	0.2627	0.00550	mg/L	13.13	0.275	ppm	2.10%
b 220.353	2356.8	0.1660	0.00870	mg/L	8.300	0.4352	ppm	5.24%
b 206.833	105.3	-0.0001	0.00452	mg/L	-0.0059	0.22589	ppm	>999.9%
e 196.026	-196.9	0.0067	0.01265	mg/L	0.3342	0.63231	ppm	189.18%
l 190.800	122.6	-0.0337	0.01191	mg/L	-1.683	0.5954	ppm	35.38%
292.402	69916.1	0.6271	0.00630	mg/L	31.35	0.315	ppm	1.00%
n 213.856	138430.8	1.274	0.0185	mg/L	63.71	0.925	ppm	1.45%

eplicate Data ----------

D: CCV 1379B Date: 11/21/02 4:19:30 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	204017.1	205091.1	1.017	mg/L		
1	Al 308.215	189293.1	184695.5	5.062	mg/L		
1	As 188.979	1396.3	1326.8	0.5146	mg/L		
1	Ba 233.527	1834459.1	1835324.7	5.195	mg/L		
1	Be 313.107	1420394.0	1420808.2	0.5128	mg/L		
1	Ca 227.547	13683.8	13400.3	51.25	mg/L		
1	Cd 228.802	132288.9	132199.2	1.043	mg/L		
1	Co 228.616	220903.6	221320.3	2.092	mg/L		
1	Cr 267.716	46057.1	46216.9	0.5110	mg/L		
1	Cu 324.754	667709.3	665422.4	2.089	mg/L		
1	Fe 273.955	260837.9	257848.1	5.178	mg/L		
1	Mg 279.079	826797.0	826200.9	26.01	mg/L		
1	Mn 257.610	3345790.6	3344669.9	2.107	mg/L		
1	Mo 202.030	38395.3	38423.8	2.035	mg/L		
1	Ni 231.604	105336.0	105060.8	2.076	mg/L		
1	Pb 220.353	7804.8	7619.9	0.5099	mg/L		
1	Sb 206.833	8701.0	8640.4	2.052	mg/L		
1	Se 196.026	1496.7	1412.4	0.5146	mg/L		
1	Tl 190.800	1975.6	1787.1	0.5196	mg/L		
1	V 292.402	226968.0	226805.2	2.034	mg/L		

1	Zn 213.856	216006.8	216590.2	2.043	mg/L
2	Ag 328.068	196924.8	197998.8	0.9815	mg/L
2	Al 308.215	184241.5	179644.0	4.924	mg/L
2	As 188.979	1389.2	1319.7	0.5117	mg/L
2	Ba 233.527	1792711.4	1793577.0	5.077	mg/L
2	Be 313.107	1396712.4	1397126.6	0.5042	mg/L
2	Ca 227.547	13409.6	13126.1	50.20	mg/L
2	Cd 228.802	127654.0	127564.2	1.007	mg/L
2	Co 228.616	213536.9	213953.6	2.022	mg/L
2	Cr 267.716	44371.6	44531.4	0.4924	mg/L
2	Cu 324.754	650797.8	648510.9	2.036	mg/L
2	Fe 273.955	252695.6	249705.7	5.015	mg/L
2	Mg 279.079	807585.7	806989.6	25.41	mg/L
2	Mn 257.610	3252050.6	3250929.9	2.048	mg/L
2	Mo 202.030	37572.6	37601.1	1.992	mg/L
2	Ni 231.604	102863.9	102588.7	2.027	mg/L
2	Pb 220.353	7719.4	7534.5	0.5041	mg/L
2	Sb 206.833	8607.5	8546.8	2.030	mg/L
2	Se 196.026	1493.2	1408.9	0.5132	mg/L
2	Tl 190.800	1955.0	1766.5	0.5136	mg/L
2	V 292.402	218299.3	218136.6	1.956	mg/L
2	Zn 213.856	209734.0	210317.4	1.984	mg/L
3	Ag 328.068	202053.9	203127.9	1.007	mg/L
3	Al 308.215	188128.2	183530.6	5.030	mg/L
3	As 188.979	1392.6	1323.1	0.5132	mg/L
3	Ba 233.527	1811050.0	1811915.6	5.129	mg/L
3	Be 313.107	1404683.0	1405097.2	0.5071	mg/L
3	Ca 227.547	13722.0	13438.6	51.40	mg/L
3	Cd 228.802	131271.8	131182.0	1.035	mg/L
3	Co 228.616	219813.3	220230.0	2.082	mg/L
3	Cr 267.716	45680.9	45840.7	0.5069	mg/L
3	Cu 324.754	659856.0	657569.1	2.064	mg/L
3	Fe 273.955	255829.4	252839.6	5.078	mg/L
3	Mg 279.079	818077.0	817480.9	25.74	mg/L
3	Mn 257.610	3309224.1	3308103.4	2.084	mg/L
3	Mo 202.030	38426.4	38454.9	2.037	mg/L
3	Ni 231.604	104716.1	104440.9	2.064	mg/L
3	Pb 220.353	7740.5	7555.6	0.5056	mg/L
3	Sb 206.833	8630.7	8570.1	2.035	mg/L
3	Se 196.026	1496.7	1412.4	0.5145	mg/L
3	Tl 190.800	1970.7	1782.1	0.5181	mg/L
3	V 292.402	225647.6	225484.9	2.022	mg/L
3	Zn 213.856	214889.2	215472.6	2.032	mg/L

an Data ----------

: CCV 1379B Seq. No.: 94 Sample No.: 5 A/S Pos: 6
ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 4:19:30 PM

ement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	202072.6	1.002	0.0182	mg/L				1.81%
308.215	182623.4	5.005	0.0725	mg/L				1.45%
188.979	1323.2	0.5132	0.00145	mg/L				0.28%
233.527	1813605.8	5.134	0.0592	mg/L				1.15%
e 313.107	1407677.3	0.5080	0.00435	mg/L				0.86%
227.547	13321.7	50.95	0.652	mg/L				1.28%
228.802	130315.1	1.029	0.0192	mg/L				1.87%
228.616	218501.3	2.065	0.0376	mg/L				1.82%
r 267.716	45529.6	0.5034	0.00978	mg/L				1.94%
u 324.754	657167.5	2.063	0.0266	mg/L				1.29%
273.955	253464.4	5.090	0.0825	mg/L				1.62%
279.079	816890.4	25.72	0.303	mg/L				1.18%
n 257.610	3301234.4	2.080	0.0298	mg/L				1.43%
o 202.030	38159.9	2.021	0.0257	mg/L				1.27%
231.604	104030.1	2.056	0.0254	mg/L				1.24%
220.353	7570.0	0.5065	0.00297	mg/L				0.59%
o 206.833	8585.8	2.039	0.0114	mg/L				0.56%
e 196.026	1411.2	0.5141	0.00075	mg/L				0.15%
190.800	1778.6	0.5171	0.00313	mg/L				0.60%

292.402	223475.6	2.004	0.0419 mg/L	2.09%
n 213.856	214126.7	2.019	0.0316 mg/L	1.56%

eplicate Data
D: CCB Date: 11/21/02 4:22:57 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-988.4	85.5	0.0004	mg/L		
1	Al 308.215	4888.8	291.2	0.0080	mg/L		
1	As 188.979	64.0	-5.4	-0.0021	mg/L		
1	Ba 233.527	-501.0	364.6	0.0010	mg/L		
1	Be 313.107	157.4	571.6	0.0002	mg/L		
1	Ca 227.547	222.9	-60.6	-0.2317	mg/L		
1	Cd 228.802	97.0	7.2	0.0001	mg/L		
1	Co 228.616	-376.7	40.0	0.0004	mg/L		
1	Cr 267.716	-127.9	31.9	0.0004	mg/L		
1	Cu 324.754	2588.9	302.0	0.0009	mg/L		
1	Fe 273.955	4216.5	1226.7	0.0246	mg/L		
1	Mg 279.079	-641.9	-1238.1	-0.0390	mg/L		
1	Mn 257.610	2563.9	1443.2	0.0009	mg/L		
1	Mo 202.030	0.9	29.4	0.0016	mg/L		
1	Ni 231.604	376.5	101.3	0.0020	mg/L		
1	Pb 220.353	187.0	2.1	0.0001	mg/L		
1	Sb 206.833	62.0	1.4	0.0003	mg/L		
1	Se 196.026	77.4	-6.8	-0.0025	mg/L		
1	Tl 190.800	199.5	10.9	0.0032	mg/L		
1	V 292.402	296.4	133.7	0.0012	mg/L		
1	Zn 213.856	-211.8	371.6	0.0035	mg/L		
2	Ag 328.068	-879.0	194.9	0.0010	mg/L		
2	Al 308.215	4765.3	167.7	0.0046	mg/L		
2	As 188.979	68.4	-1.0	-0.0004	mg/L		
2	Ba 233.527	-727.8	137.9	0.0004	mg/L		
2	Be 313.107	167.8	582.0	0.0002	mg/L		
2	Ca 227.547	306.2	22.7	0.0869	mg/L		
2	Cd 228.802	87.8	-2.0	0.0000	mg/L		
2	Co 228.616	-344.9	71.8	0.0007	mg/L		
2	Cr 267.716	-114.9	44.9	0.0005	mg/L		
2	Cu 324.754	2366.3	79.3	0.0002	mg/L		
2	Fe 273.955	3733.8	743.9	0.0149	mg/L		
2	Mg 279.079	-591.2	-1187.4	-0.0374	mg/L		
2	Mn 257.610	2229.1	1108.4	0.0007	mg/L		
2	Mo 202.030	-20.1	8.4	0.0004	mg/L		
2	Ni 231.604	351.3	76.1	0.0015	mg/L		
2	Pb 220.353	176.0	-8.9	-0.0006	mg/L		
2	Sb 206.833	64.2	3.6	0.0009	mg/L		
2	Se 196.026	73.6	-10.7	-0.0039	mg/L		
2	Tl 190.800	192.8	4.3	0.0012	mg/L		
2	V 292.402	307.9	145.2	0.0013	mg/L		
2	Zn 213.856	-316.9	266.5	0.0025	mg/L		
3	Ag 328.068	-941.3	132.7	0.0007	mg/L		
3	Al 308.215	4853.9	256.3	0.0070	mg/L		
3	As 188.979	65.0	-4.5	-0.0017	mg/L		
3	Ba 233.527	-679.4	186.2	0.0005	mg/L		
3	Be 313.107	4.7	418.9	0.0002	mg/L		
3	Ca 227.547	281.3	-2.2	-0.0084	mg/L		
3	Cd 228.802	85.8	-3.9	0.0000	mg/L		
3	Co 228.616	-326.3	90.4	0.0009	mg/L		
3	Cr 267.716	-77.5	82.3	0.0009	mg/L		
3	Cu 324.754	2454.0	167.1	0.0005	mg/L		
3	Fe 273.955	3499.2	509.4	0.0102	mg/L		
3	Mg 279.079	-482.6	-1078.7	-0.0340	mg/L		
3	Mn 257.610	1982.0	861.3	0.0005	mg/L		
3	Mo 202.030	-29.0	-0.5	0.0000	mg/L		
3	Ni 231.604	389.3	114.0	0.0023	mg/L		
3	Pb 220.353	177.6	-7.3	-0.0005	mg/L		
3	Sb 206.833	51.0	-9.6	-0.0023	mg/L		
3	Se 196.026	78.6	-5.7	-0.0021	mg/L		
3	Tl 190.800	191.5	3.0	0.0009	mg/L		

3 V 292.402	229.7	66.9	0.0006	mg/L
3 Zn 213.856	-380.5	202.9	0.0019	mg/L

lean Data

: CCB Seq. No.: 95 Sample No.: 6 A/S Pos: 1
mple Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 4:22:57 PM

ement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	137.7	0.0007	0.00027	mg/L				39.84%
l 308.215	238.4	0.0065	0.00175	mg/L				26.71%
188.979	-3.6	-0.0014	0.00088	mg/L				63.19%
233.527	229.5	0.0006	0.00034	mg/L				52.02%
313.107	524.2	0.0002	0.00003	mg/L				17.41%
a 227.547	-13.3	-0.0511	0.16352	mg/L				320.27%
d 228.802	0.4	0.0000	0.00005	mg/L				>999.9%
228.616	67.4	0.0006	0.00024	mg/L				37.80%
267.716	53.0	0.0006	0.00029	mg/L				49.28%
u 324.754	182.8	0.0006	0.00035	mg/L				61.35%
e 273.955	826.7	0.0166	0.00734	mg/L				44.24%
279.079	-1168.1	-0.0368	0.00256	mg/L				6.97%
257.610	1137.6	0.0007	0.00018	mg/L				25.67%
o 202.030	12.4	0.0007	0.00081	mg/L				123.69%
i 231.604	97.1	0.0019	0.00038	mg/L				19.87%
220.353	-4.7	-0.0003	0.00040	mg/L				127.57%
206.833	-1.5	-0.0004	0.00170	mg/L				459.40%
e 196.026	-7.8	-0.0028	0.00095	mg/L				33.91%
l 190.800	6.1	0.0018	0.00124	mg/L				70.55%
292.402	115.3	0.0010	0.00038	mg/L				36.64%
213.856	280.3	0.0026	0.00080	mg/L				30.39%

eplicate Data

: 6149-13 F=50 Date: 11/21/02 4:26:07 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-3178.3	-2104.4	-0.0104	mg/L	-0.5216	ppm
1	Al 308.215	5404567.0	5399969.4	148.0	mg/L	7400	ppm
1	As 188.979	329.0	259.5	0.1444	mg/L	7.219	ppm
1	Ba 233.527	801293.6	802159.2	2.271	mg/L	113.5	ppm
1	Be 313.107	13531.0	13945.2	0.0050	mg/L	0.2516	ppm
1	Ca 227.547	377578.5	377295.0	1450	mg/L	72510	ppm
1	Cd 228.802	1107.0	1017.3	0.0080	mg/L	0.4014	ppm
1	Co 228.616	17639.2	18055.9	0.1707	mg/L	8.534	ppm
1	Cr 267.716	29298.7	29458.5	0.3177	mg/L	15.89	ppm
1	Cu 324.754	141440.1	139153.2	0.4516	mg/L	22.58	ppm
1	Fe 273.955	16114423.8	16111434.0	323.6	mg/L	16180	ppm
1	Mg 279.079	3488641.3	3488045.2	109.8	mg/L	5491	ppm
1	Mn 257.610	9125573.6	9124452.9	5.749	mg/L	287.4	ppm
1	Mo 202.030	117.7	146.2	-0.0048	mg/L	-0.2407	ppm
1	Ni 231.604	16121.6	15846.4	0.3131	mg/L	15.66	ppm
1	Pb 220.353	4115.8	3930.9	0.2742	mg/L	13.71	ppm
1	Sb 206.833	166.1	105.4	-0.0018	mg/L	-0.0921	ppm
1	Se 196.026	-122.3	-206.6	0.0116	mg/L	0.5788	ppm
1	Tl 190.800	397.2	208.7	-0.0100	mg/L	-0.4982	ppm
1	V 292.402	76337.6	76174.9	0.6832	mg/L	34.16	ppm
1	Zn 213.856	126837.8	127421.2	1.168	mg/L	58.38	ppm
2	Ag 328.068	-2983.6	-1909.7	-0.0095	mg/L	-0.4733	ppm
2	Al 308.215	5340644.1	5336046.5	146.3	mg/L	7313	ppm
2	As 188.979	319.3	249.9	0.1405	mg/L	7.025	ppm
2	Ba 233.527	798684.3	799549.9	2.263	mg/L	113.2	ppm
2	Be 313.107	13510.1	13924.3	0.0050	mg/L	0.2513	ppm
2	Ca 227.547	376469.6	376186.2	1446	mg/L	72290	ppm
2	Cd 228.802	1080.7	991.0	0.0078	mg/L	0.3911	ppm
2	Co 228.616	17550.4	17967.1	0.1698	mg/L	8.492	ppm
2	Cr 267.716	29020.4	29180.2	0.3147	mg/L	15.74	ppm
2	Cu 324.754	141306.1	139019.2	0.4510	mg/L	22.55	ppm
2	Fe 273.955	15923261.5	15920271.6	319.7	mg/L	15990	ppm
2	Mg 279.079	3473912.7	3473316.5	109.4	mg/L	5468	ppm

2 Mn 257.610	9028825.1	9027704.4	5.688	mg/L	284.4	ppm
2 Mo 202.030	187.5	216.1	-0.0010	mg/L	-0.0483	ppm
2 Ni 231.604	16161.6	15886.4	0.3139	mg/L	15.70	ppm
2 Pb 220.353	4054.1	3869.2	0.2700	mg/L	13.50	ppm
2 Sb 206.833	175.8	115.1	0.0008	mg/L	0.0388	ppm
2 Se 196.026	-141.8	-226.1	0.0035	mg/L	0.1748	ppm
2 Tl 190.800	355.0	166.4	-0.0214	mg/L	-1.071	ppm
2 V 292.402	75013.3	74850.5	0.6713	mg/L	33.57	ppm
2 Zn 213.856	127339.6	127923.0	1.173	mg/L	58.63	ppm
3 Ag 328.068	-2911.4	-1837.4	-0.0091	mg/L	-0.4554	ppm
3 Al 308.215	5201054.8	5196457.2	142.4	mg/L	7121	ppm
3 As 188.979	331.1	261.6	0.1451	mg/L	7.256	ppm
3 Ba 233.527	804189.0	805054.6	2.279	mg/L	113.9	ppm
3 Be 313.107	13468.0	13882.3	0.0050	mg/L	0.2505	ppm
3 Ca 227.547	377887.9	377604.4	1451	mg/L	72560	ppm
3 Cd 228.802	1053.3	963.6	0.0076	mg/L	0.3803	ppm
3 Co 228.616	17797.9	18214.6	0.1722	mg/L	8.609	ppm
3 Cr 267.716	29185.3	29345.0	0.3167	mg/L	15.84	ppm
3 Cu 324.754	142387.1	140100.2	0.4542	mg/L	22.71	ppm
3 Fe 273.955	15619160.3	15616170.5	313.6	mg/L	15680	ppm
3 Mg 279.079	3497322.7	3496726.5	110.1	mg/L	5505	ppm
3 Mn 257.610	8786115.4	8784994.7	5.535	mg/L	276.7	ppm
3 Mo 202.030	142.7	171.2	-0.0031	mg/L	-0.1551	ppm
3 Ni 231.604	16258.9	15983.7	0.3158	mg/L	15.79	ppm
3 Pb 220.353	4163.1	3978.2	0.2771	mg/L	13.86	ppm
3 Sb 206.833	218.3	157.7	0.0113	mg/L	0.5629	ppm
3 Se 196.026	-182.7	-267.0	-0.0129	mg/L	-0.6461	ppm
3 Tl 190.800	395.1	206.6	-0.0083	mg/L	-0.4148	ppm
3 V 292.402	75408.5	75245.8	0.6749	mg/L	33.74	ppm
3 Zn 213.856	127840.8	128424.2	1.178	mg/L	58.90	ppm

ean Data ----------

D: 6149-13 F=50 Seq. No.: 96 Sample No.: 70 A/S Pos: 78
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 4:26:07 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-1950.5	-0.0097	0.00068	mg/L	-0.4834	0.03422	ppm	7.08%
l 308.215	5310824.4	145.6	2.85	mg/L	7278	142.6	ppm	1.96%
s 188.979	257.0	0.1433	0.00249	mg/L	7.166	0.1243	ppm	1.73%
a 233.527	802254.5	2.271	0.0078	mg/L	113.5	0.39	ppm	0.34%
e 313.107	13917.2	0.0050	0.00001	mg/L	0.2511	0.00058	ppm	0.23%
a 227.547	377028.5	1449	2.8	mg/L	72450	140.9	ppm	0.19%
d 228.802	990.6	0.0078	0.00021	mg/L	0.3909	0.01059	ppm	2.71%
o 228.616	18079.2	0.1709	0.00119	mg/L	8.545	0.0593	ppm	0.69%
r 267.716	29327.9	0.3164	0.00152	mg/L	15.82	0.076	ppm	0.48%
u 324.754	139424.2	0.4523	0.00165	mg/L	22.61	0.083	ppm	0.37%
e 273.955	15882625.4	319.0	5.02	mg/L	15950	250.8	ppm	1.57%
g 279.079	3486029.4	109.8	0.37	mg/L	5488	18.6	ppm	0.34%
n 257.610	8979050.6	5.657	0.1102	mg/L	282.9	5.51	ppm	1.95%
o 202.030	177.8	-0.0030	0.00193	mg/L	-0.1480	0.09639	ppm	65.11%
i 231.604	15905.5	0.3143	0.00140	mg/L	15.71	0.070	ppm	0.44%
b 220.353	3926.1	0.2738	0.00359	mg/L	13.69	0.180	ppm	1.31%
b 206.833	126.1	0.0034	0.00693	mg/L	0.1698	0.34660	ppm	204.07%
e 196.026	-233.2	0.0007	0.01248	mg/L	0.0358	0.62419	ppm	>999.9%
l 190.800	193.9	-0.0132	0.00714	mg/L	-0.6612	0.35701	ppm	53.99%
292.402	75423.7	0.6764	0.00610	mg/L	33.82	0.305	ppm	0.90%
n 213.856	127922.8	1.173	0.0053	mg/L	58.64	0.263	ppm	0.45%

eplicate Data ----------

D: 6149-14 F=50 Date: 11/21/02 4:28:46 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-3573.5	-2499.6	-0.0124	mg/L	-0.6195	ppm
1	Al 308.215	6168293.0	6163695.4	168.9	mg/L	8447	ppm
1	As 188.979	414.4	345.0	0.1464	mg/L	7.322	ppm
1	Ba 233.527	281968.1	282833.7	0.8006	mg/L	40.03	ppm
1	Be 313.107	18493.1	18907.3	0.0068	mg/L	0.3412	ppm

1	Ca 227.547	66341.4	66057.9	260.6	mg/L	13030	ppm
1	Cd 228.802	242.0	152.2	0.0012	mg/L	0.0601	ppm
1	Co 228.616	16761.4	17178.1	0.1624	mg/L	8.119	ppm
1	Cr 267.716	28045.6	28205.4	0.3029	mg/L	15.15	ppm
1	Cu 324.754	79764.5	77477.6	0.2598	mg/L	12.99	ppm
1	Fe 273.955	17988331.6	17985341.8	361.2	mg/L	18060	ppm
1	Mg 279.079	2946258.2	2945662.1	92.75	mg/L	4637	ppm
1	Mn 257.610	3391691.4	3390570.7	2.136	mg/L	106.8	ppm
1	Mo 202.030	125.7	154.2	-0.0059	mg/L	-0.2927	ppm
1	Ni 231.604	19608.7	19333.5	0.3820	mg/L	19.10	ppm
1	Pb 220.353	2996.4	2811.5	0.1950	mg/L	9.751	ppm
1	Sb 206.833	140.5	79.8	-0.0097	mg/L	-0.4864	ppm
1	Se 196.026	-161.1	-245.4	0.0073	mg/L	0.3651	ppm
1	Tl 190.800	404.2	215.6	-0.0188	mg/L	-0.9397	ppm
1	V 292.402	72723.6	72560.9	0.6508	mg/L	32.54	ppm
1	Zn 213.856	85256.4	85839.8	0.7714	mg/L	38.57	ppm
2	Ag 328.068	-3413.9	-2339.9	-0.0116	mg/L	-0.5800	ppm
2	Al 308.215	6355488.5	6350891.0	174.1	mg/L	8703	ppm
2	As 188.979	395.8	326.4	0.1397	mg/L	6.985	ppm
2	Ba 233.527	290830.1	291695.7	0.8257	mg/L	41.29	ppm
2	Be 313.107	18680.9	19095.2	0.0069	mg/L	0.3446	ppm
2	Ca 227.547	68446.7	68163.3	268.9	mg/L	13440	ppm
2	Cd 228.802	124.1	34.3	0.0003	mg/L	0.0135	ppm
2	Co 228.616	16671.8	17088.5	0.1615	mg/L	8.077	ppm
2	Cr 267.716	29092.7	29252.5	0.3143	mg/L	15.71	ppm
2	Cu 324.754	82626.5	80339.6	0.2692	mg/L	13.46	ppm
2	Fe 273.955	18457268.3	18454278.5	370.6	mg/L	18530	ppm
2	Mg 279.079	3028494.2	3027898.1	95.33	mg/L	4767	ppm
2	Mn 257.610	3484908.7	3483788.0	2.195	mg/L	109.7	ppm
2	Mo 202.030	148.0	176.5	-0.0050	mg/L	-0.2519	ppm
2	Ni 231.604	19257.3	18982.1	0.3751	mg/L	18.75	ppm
2	Pb 220.353	3010.2	2825.3	0.1962	mg/L	9.808	ppm
2	Sb 206.833	157.5	96.9	-0.0065	mg/L	-0.3260	ppm
2	Se 196.026	-166.7	-251.0	0.0077	mg/L	0.3871	ppm
2	Tl 190.800	413.1	224.6	-0.0184	mg/L	-0.9212	ppm
2	V 292.402	75184.5	75021.8	0.6728	mg/L	33.64	ppm
2	Zn 213.856	87317.6	87901.0	0.7898	mg/L	39.49	ppm
3	Ag 328.068	-3340.7	-2266.8	-0.0112	mg/L	-0.5618	ppm
3	Al 308.215	6142955.3	6138357.8	168.2	mg/L	8412	ppm
3	As 188.979	443.5	374.0	0.1576	mg/L	7.882	ppm
3	Ba 233.527	282965.8	283831.4	0.8034	mg/L	40.17	ppm
3	Be 313.107	18452.2	18866.4	0.0068	mg/L	0.3404	ppm
3	Ca 227.547	66839.9	66556.4	262.5	mg/L	13120	ppm
3	Cd 228.802	131.4	41.6	0.0003	mg/L	0.0164	ppm
3	Co 228.616	17296.1	17712.8	0.1674	mg/L	8.372	ppm
3	Cr 267.716	28356.6	28516.4	0.3064	mg/L	15.32	ppm
3	Cu 324.754	80287.1	78000.2	0.2613	mg/L	13.07	ppm
3	Fe 273.955	17894843.7	17891853.8	359.3	mg/L	17970	ppm
3	Mg 279.079	2952100.8	2951504.6	92.93	mg/L	4646	ppm
3	Mn 257.610	3409715.7	3408594.9	2.147	mg/L	107.4	ppm
3	Mo 202.030	99.0	127.5	-0.0072	mg/L	-0.3597	ppm
3	Ni 231.604	19769.3	19494.1	0.3852	mg/L	19.26	ppm
3	Pb 220.353	3021.5	2836.6	0.1967	mg/L	9.834	ppm
3	Sb 206.833	195.2	134.6	0.0034	mg/L	0.1680	ppm
3	Se 196.026	-185.7	-270.0	-0.0021	mg/L	-0.1069	ppm
3	Tl 190.800	398.6	210.0	-0.0200	mg/L	-1.002	ppm
3	V 292.402	73694.9	73532.2	0.6595	mg/L	32.97	ppm
3	Zn 213.856	85121.2	85704.6	0.7703	mg/L	38.52	ppm

ean Data ----------

): 6149-14 F=50 Seq. No.: 97 Sample No.: 71 A/S Pos: 79
mple Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 4:28:46 PM

ement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
328.068	-2368.8	-0.0117	0.00059	mg/L	-0.5871	0.02950	ppm	5.03%
l 308.215	6217648.1	170.4	3.18	mg/L	8521	159.1	ppm	1.87%
s 188.979	348.5	0.1479	0.00906	mg/L	7.397	0.4532	ppm	6.13%
233.527	286120.3	0.8099	0.01374	mg/L	40.50	0.687	ppm	1.70%

e 313.107	18956.3	0.0068	0.00004	mg/L	0.3421	0.00220	ppm	0.64%
a 227.547	66925.9	264.0	4.33	mg/L	13200	216.6	ppm	1.64%
d 228.802	76.0	0.0006	0.00052	mg/L	0.0300	0.02607	ppm	86.86%
o 228.616	17326.5	0.1638	0.00319	mg/L	8.189	0.1595	ppm	1.95%
r 267.716	28658.1	0.3079	0.00581	mg/L	15.39	0.291	ppm	1.89%
u 324.754	78605.8	0.2634	0.00505	mg/L	13.17	0.252	ppm	1.92%
e 273.955	18110491.4	363.7	6.05	mg/L	18180	302.6	ppm	1.66%
g 279.079	2975021.6	93.67	1.445	mg/L	4683	72.2	ppm	1.54%
n 257.610	3427651.2	2.159	0.0312	mg/L	108.0	1.56	ppm	1.44%
o 202.030	152.7	-0.0060	0.00109	mg/L	-0.3014	0.05447	ppm	18.07%
i 231.604	19269.9	0.3808	0.00517	mg/L	19.04	0.259	ppm	1.36%
b 220.353	2824.5	0.1960	0.00085	mg/L	9.798	0.0424	ppm	0.43%
b 206.833	103.8	-0.0043	0.00682	mg/L	-0.2148	0.34104	ppm	158.76%
e 196.026	-255.5	0.0043	0.00558	mg/L	0.2151	0.27907	ppm	129.75%
l 190.800	216.7	-0.0191	0.00085	mg/L	-0.9544	0.04241	ppm	4.44%
292.402	73705.0	0.6610	0.01112	mg/L	33.05	0.556	ppm	1.68%
n 213.856	86481.8	0.7772	0.01097	mg/L	38.86	0.549	ppm	1.41%

eplicate Data ----------

D: 6149-15 F=50 Date: 11/21/02 4:31:42 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-983.2	90.8	0.0005	mg/L	0.0225	ppm
1	Al 308.215	551680.4	547082.9	14.99	mg/L	749.7	ppm
1	As 188.979	92.9	23.4	0.0119	mg/L	0.5932	ppm
1	Ba 233.527	193256.6	194122.2	0.5495	mg/L	27.48	ppm
1	Be 313.107	-582.8	-168.6	-0.0001	mg/L	-0.0030	ppm
1	Ca 227.547	29179.0	28895.5	110.5	mg/L	5526	ppm
1	Cd 228.802	355.8	266.0	0.0021	mg/L	0.1050	ppm
1	Co 228.616	1062.4	1479.1	0.0140	mg/L	0.6991	ppm
1	Cr 267.716	3455.0	3614.8	0.0400	mg/L	1.999	ppm
1	Cu 324.754	40676.8	38389.9	0.1205	mg/L	6.026	ppm
1	Fe 273.955	1169231.3	1166241.4	23.42	mg/L	1171	ppm
1	Mg 279.079	1207712.4	1207116.3	38.01	mg/L	1900	ppm
1	Mn 257.610	2583951.8	2582831.1	1.627	mg/L	81.36	ppm
1	Mo 202.030	78.1	106.6	0.0056	mg/L	0.2824	ppm
1	Ni 231.604	2423.4	2148.2	0.0424	mg/L	2.122	ppm
1	Pb 220.353	703.3	518.4	0.0347	mg/L	1.734	ppm
1	Sb 206.833	87.3	26.7	0.0064	mg/L	0.3190	ppm
1	Se 196.026	83.2	-1.1	0.0056	mg/L	0.2788	ppm
1	Tl 190.800	225.5	37.0	0.0039	mg/L	0.1959	ppm
1	V 292.402	4942.2	4779.5	0.0429	mg/L	2.143	ppm
1	Zn 213.856	79655.4	80238.8	0.7567	mg/L	37.84	ppm
2	Ag 328.068	-1082.4	-8.4	0.0000	mg/L	-0.0021	ppm
2	Al 308.215	559800.3	555202.7	15.22	mg/L	760.9	ppm
2	As 188.979	95.3	25.9	0.0129	mg/L	0.6445	ppm
2	Ba 233.527	197767.6	198633.2	0.5623	mg/L	28.11	ppm
2	Be 313.107	-548.4	-134.2	0.0000	mg/L	-0.0024	ppm
2	Ca 227.547	30047.8	29764.3	113.8	mg/L	5692	ppm
2	Cd 228.802	358.7	269.0	0.0021	mg/L	0.1061	ppm
2	Co 228.616	1055.2	1471.9	0.0139	mg/L	0.6957	ppm
2	Cr 267.716	3458.8	3618.6	0.0400	mg/L	2.001	ppm
2	Cu 324.754	41679.6	39392.7	0.1237	mg/L	6.183	ppm
2	Fe 273.955	1183459.7	1180469.9	23.71	mg/L	1185	ppm
2	Mg 279.079	1227810.0	1227213.8	38.64	mg/L	1932	ppm
2	Mn 257.610	2617067.1	2615946.4	1.648	mg/L	82.41	ppm
2	Mo 202.030	86.1	114.6	0.0061	mg/L	0.3036	ppm
2	Ni 231.604	2413.9	2138.7	0.0423	mg/L	2.113	ppm
2	Pb 220.353	697.7	512.8	0.0343	mg/L	1.716	ppm
2	Sb 206.833	75.0	14.4	0.0034	mg/L	0.1722	ppm
2	Se 196.026	80.7	-3.6	0.0047	mg/L	0.2370	ppm
2	Tl 190.800	227.3	38.8	0.0043	mg/L	0.2168	ppm
2	V 292.402	5061.7	4898.9	0.0439	mg/L	2.197	ppm
2	Zn 213.856	81451.0	82034.4	0.7737	mg/L	38.68	ppm
3	Ag 328.068	-1060.6	13.3	0.0001	mg/L	0.0033	ppm
3	Al 308.215	556557.7	551960.1	15.13	mg/L	756.4	ppm
3	As 188.979	102.3	32.9	0.0155	mg/L	0.7770	ppm
3	Ba 233.527	193842.5	194708.1	0.5512	mg/L	27.56	ppm

3	Be 313.107	-593.5	-179.3	-0.0001	mg/L	-0.0032	ppm
3	Ca 227.547	29709.9	29426.5	112.5	mg/L	5627	ppm
3	Cd 228.802	367.5	277.7	0.0022	mg/L	0.1096	ppm
3	Co 228.616	1050.4	1467.1	0.0139	mg/L	0.6934	ppm
3	Cr 267.716	3450.6	3610.4	0.0399	mg/L	1.996	ppm
3	Cu 324.754	41081.6	38794.6	0.1218	mg/L	6.089	ppm
3	Fe 273.955	1174754.2	1171764.4	23.53	mg/L	1177	ppm
3	Mg 279.079	1221214.9	1220618.8	38.43	mg/L	1922	ppm
3	Mn 257.610	2612669.0	2611548.3	1.645	mg/L	82.27	ppm
3	Mo 202.030	72.3	100.8	0.0053	mg/L	0.2670	ppm
3	Ni 231.604	2414.7	2139.5	0.0423	mg/L	2.114	ppm
3	Pb 220.353	697.0	512.2	0.0343	mg/L	1.713	ppm
3	Sb 206.833	88.3	27.7	0.0066	mg/L	0.3310	ppm
3	Se 196.026	86.7	2.4	0.0069	mg/L	0.3432	ppm
3	Tl 190.800	223.9	35.4	0.0034	mg/L	0.1696	ppm
3	V 292.402	5019.9	4857.2	0.0436	mg/L	2.178	ppm
3	Zn 213.856	79876.6	80460.0	0.7588	mg/L	37.94	ppm

ean Data ----------

D: 6149-15 F=50 Seq. No.: 98 Sample No.: 72 A/S Pos: 80
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 4:31:42 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	31.9	0.0002	0.00026	mg/L	0.0079	0.01293	ppm	163.49%
l 308.215	551415.2	15.11	0.112	mg/L	755.7	5.60	ppm	0.74%
s 188.979	27.4	0.0134	0.00190	mg/L	0.6716	0.09486	ppm	14.12%
a 233.527	195821.2	0.5543	0.00694	mg/L	27.72	0.347	ppm	1.25%
e 313.107	-160.7	-0.0001	0.00001	mg/L	-0.0029	0.00043	ppm	14.66%
a 227.547	29362.1	112.3	1.67	mg/L	5615	83.7	ppm	1.49%
d 228.802	270.9	0.0021	0.00005	mg/L	0.1069	0.00240	ppm	2.25%
o 228.616	1472.7	0.0139	0.00006	mg/L	0.6961	0.00286	ppm	0.41%
r 267.716	3614.6	0.0400	0.00005	mg/L	1.998	0.0023	ppm	0.11%
u 324.754	38859.1	0.1220	0.00158	mg/L	6.099	0.0792	ppm	1.30%
e 273.955	1172825.2	23.55	0.144	mg/L	1178	7.2	ppm	0.61%
g 279.079	1218316.3	38.36	0.323	mg/L	1918	16.1	ppm	0.84%
n 257.610	2603441.9	1.640	0.0113	mg/L	82.01	0.567	ppm	0.69%
o 202.030	107.4	0.0057	0.00037	mg/L	0.2843	0.01836	ppm	6.46%
i 231.604	2142.1	0.0423	0.00010	mg/L	2.116	0.0052	ppm	0.25%
b 220.353	514.5	0.0344	0.00023	mg/L	1.721	0.0114	ppm	0.66%
b 206.833	22.9	0.0055	0.00177	mg/L	0.2740	0.08843	ppm	32.27%
e 196.026	-0.7	0.0057	0.00107	mg/L	0.2863	0.05348	ppm	18.68%
l 190.800	37.0	0.0039	0.00047	mg/L	0.1941	0.02366	ppm	12.19%
292.402	4845.2	0.0435	0.00054	mg/L	2.173	0.0272	ppm	1.25%
n 213.856	80911.0	0.7631	0.00923	mg/L	38.15	0.462	ppm	1.21%

eplicate Data ----------

D: 6149-16 F=50 Date: 11/21/02 4:35:12 PM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-1004.0	70.0	0.0003	mg/L	0.0173	ppm
1	Al 308.215	624457.7	619860.1	16.99	mg/L	849.5	ppm
1	As 188.979	95.8	26.3	0.0151	mg/L	0.7538	ppm
1	Ba 233.527	209021.8	209887.4	0.5941	mg/L	29.71	ppm
1	Be 313.107	-572.9	-158.7	-0.0001	mg/L	-0.0029	ppm
1	Ca 227.547	38878.8	38595.3	147.6	mg/L	7381	ppm
1	Cd 228.802	365.3	275.6	0.0022	mg/L	0.1088	ppm
1	Co 228.616	1167.6	1584.3	0.0150	mg/L	0.7488	ppm
1	Cr 267.716	3855.3	4015.1	0.0444	mg/L	2.220	ppm
1	Cu 324.754	44120.7	41833.8	0.1313	mg/L	6.566	ppm
1	Fe 273.955	1394628.1	1391638.3	27.95	mg/L	1397	ppm
1	Mg 279.079	1649318.4	1648722.3	51.91	mg/L	2596	ppm
1	Mn 257.610	2744010.2	2742889.5	1.728	mg/L	86.40	ppm
1	Mo 202.030	90.3	118.8	0.0063	mg/L	0.3146	ppm
1	Ni 231.604	2583.9	2308.6	0.0456	mg/L	2.281	ppm
1	Pb 220.353	740.8	555.9	0.0372	mg/L	1.860	ppm
1	Sb 206.833	89.3	28.6	0.0069	mg/L	0.3426	ppm
1	Se 196.026	81.2	-3.1	0.0061	mg/L	0.3028	ppm
1	Tl 190.800	229.3	40.7	0.0036	mg/L	0.1799	ppm

2	Mn 257.610	3311096.8	3309976.1	2.085	mg/L	2.085 ppm
2	Mo 202.030	39612.2	39640.7	2.100	mg/L	2.100 ppm
2	Ni 231.604	107765.1	107489.9	2.124	mg/L	2.124 ppm
2	Pb 220.353	7810.5	7625.6	0.5102	mg/L	0.5102 ppm
2	Sb 206.833	8698.2	8637.6	2.051	mg/L	2.051 ppm
2	Se 196.026	1501.2	1416.9	0.5162	mg/L	0.5162 ppm
2	Tl 190.800	1966.0	1777.5	0.5168	mg/L	0.5168 ppm
2	V 292.402	233600.0	233437.3	2.094	mg/L	2.094 ppm
2	Zn 213.856	221694.4	222277.8	2.096	mg/L	2.096 ppm
3	Ag 328.068	204274.2	205348.1	1.018	mg/L	1.018 ppm
3	Al 308.215	191013.0	186415.5	5.109	mg/L	5.109 ppm
3	As 188.979	1404.0	1334.5	0.5176	mg/L	0.5176 ppm
3	Ba 233.527	1820999.2	1821864.8	5.157	mg/L	5.157 ppm
3	Be 313.107	1412002.2	1412416.5	0.5097	mg/L	0.5097 ppm
3	Ca 227.547	13872.8	13589.4	51.97	mg/L	51.97 ppm
3	Cd 228.802	130917.1	130827.3	1.033	mg/L	1.033 ppm
3	Co 228.616	220011.5	220428.2	2.084	mg/L	2.084 ppm
3	Cr 267.716	45845.8	46005.6	0.5087	mg/L	0.5087 ppm
3	Cu 324.754	660419.9	658133.0	2.066	mg/L	2.066 ppm
3	Fe 273.955	258294.4	255304.5	5.127	mg/L	5.127 ppm
3	Mg 279.079	818634.1	818038.0	25.76	mg/L	25.76 ppm
3	Mn 257.610	3285470.9	3284350.2	2.069	mg/L	2.069 ppm
3	Mo 202.030	38937.2	38965.7	2.064	mg/L	2.064 ppm
3	Ni 231.604	105502.4	105227.1	2.079	mg/L	2.079 ppm
3	Pb 220.353	7827.0	7642.1	0.5113	mg/L	0.5113 ppm
3	Sb 206.833	8655.9	8595.2	2.041	mg/L	2.041 ppm
3	Se 196.026	1511.6	1427.3	0.5200	mg/L	0.5200 ppm
3	Tl 190.800	1961.9	1773.4	0.5156	mg/L	0.5156 ppm
3	V 292.402	226313.7	226150.9	2.028	mg/L	2.028 ppm
3	Zn 213.856	216194.0	216777.4	2.044	mg/L	2.044 ppm

ean Data ----------

D: CCV 1379B
ample Qty: 1.0000 mL

Seq. No.: 100 Sample No.: 1
Prep. Vol.: 1.0 mL
Data: Original

A/S Pos: 6
Dilution: 1.0: 1.0
Date: 11/21/02 4:43:00 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	209440.6	1.038	0.0177	mg/L	1.038	0.0177	ppm	1.70%
l 308.215	189722.5	5.200	0.0873	mg/L	5.200	0.0873	ppm	1.68%
s 188.979	1329.4	0.5157	0.00218	mg/L	0.5157	0.00218	ppm	0.42%
a 233.527	1825718.4	5.168	0.0127	mg/L	5.168	0.0127	ppm	0.25%
e 313.107	1413911.0	0.5103	0.00294	mg/L	0.5103	0.00294	ppm	0.58%
a 227.547	13848.1	52.96	1.025	mg/L	52.96	1.025	ppm	1.93%
d 228.802	133777.3	1.056	0.0203	mg/L	1.056	0.0203	ppm	1.92%
o 228.616	225340.0	2.130	0.0423	mg/L	2.130	0.0423	ppm	1.98%
r 267.716	47048.1	0.5202	0.01000	mg/L	0.5202	0.01000	ppm	1.92%
u 324.754	659287.6	2.070	0.0048	mg/L	2.070	0.0048	ppm	0.23%
e 273.955	260331.1	5.228	0.0995	mg/L	5.228	0.0995	ppm	1.90%
g 279.079	821073.8	25.85	0.127	mg/L	25.85	0.127	ppm	0.49%
n 257.610	3306743.6	2.083	0.0132	mg/L	2.083	0.0132	ppm	0.63%
o 202.030	39666.1	2.101	0.0378	mg/L	2.101	0.0378	ppm	1.80%
i 231.604	107396.6	2.122	0.0420	mg/L	2.122	0.0420	ppm	1.98%
o 220.353	7612.2	0.5093	0.00256	mg/L	0.5093	0.00256	ppm	0.50%
o 206.833	8587.7	2.039	0.0130	mg/L	2.039	0.0130	ppm	0.64%
e 196.026	1419.4	0.5171	0.00253	mg/L	0.5171	0.00253	ppm	0.49%
l 190.800	1772.5	0.5153	0.00160	mg/L	0.5153	0.00160	ppm	0.31%
292.402	231298.3	2.074	0.0402	mg/L	2.074	0.0402	ppm	1.94%
n 213.856	221117.8	2.085	0.0367	mg/L	2.085	0.0367	ppm	1.76%

eplicate Data ----------

D: CCB

Date: 11/21/02 4:46:29 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-983.0	91.0	0.0005	mg/L	0.0005	ppm
1	Al 308.215	4604.9	7.4	0.0002	mg/L	0.0002	ppm
1	As 188.979	68.4	-1.0	-0.0004	mg/L	-0.0004	ppm
1	Ba 233.527	-428.7	436.9	0.0012	mg/L	0.0012	ppm
1	Be 313.107	258.1	672.3	0.0002	mg/L	0.0002	ppm

1	Ca 227.547	202.8	-80.6	-0.3083	mg/L	-0.3083 ppm
1	Cd 228.802	115.2	25.5	0.0002	mg/L	0.0002 ppm
1	Co 228.616	-375.9	40.8	0.0004	mg/L	0.0004 ppm
1	Cr 267.716	-115.2	44.6	0.0005	mg/L	0.0005 ppm
1	Cu 324.754	2581.7	294.8	0.0009	mg/L	0.0009 ppm
1	Fe 273.955	3374.1	384.3	0.0077	mg/L	0.0077 ppm
1	Mg 279.079	-600.1	-1196.3	-0.0377	mg/L	-0.0377 ppm
1	Mn 257.610	2258.8	1138.1	0.0007	mg/L	0.0007 ppm
1	Mo 202.030	-11.2	17.3	0.0009	mg/L	0.0009 ppm
1	Ni 231.604	389.4	114.2	0.0023	mg/L	0.0023 ppm
1	Pb 220.353	174.9	-10.0	-0.0007	mg/L	-0.0007 ppm
1	Sb 206.833	73.0	12.4	0.0030	mg/L	0.0030 ppm
1	Se 196.026	69.2	-15.1	-0.0055	mg/L	-0.0055 ppm
1	Tl 190.800	189.5	1.0	0.0003	mg/L	0.0003 ppm
1	V 292.402	299.7	137.0	0.0012	mg/L	0.0012 ppm
1	Zn 213.856	-306.2	277.2	0.0026	mg/L	0.0026 ppm
2	Ag 328.068	-891.0	183.0	0.0009	mg/L	0.0009 ppm
2	Al 308.215	4570.3	-27.3	-0.0007	mg/L	-0.0007 ppm
2	As 188.979	67.1	-2.4	-0.0009	mg/L	-0.0009 ppm
2	Ba 233.527	-656.6	209.0	0.0006	mg/L	0.0006 ppm
2	Be 313.107	151.5	565.8	0.0002	mg/L	0.0002 ppm
2	Ca 227.547	282.1	-1.3	-0.0050	mg/L	-0.0050 ppm
2	Cd 228.802	104.2	14.5	0.0001	mg/L	0.0001 ppm
2	Co 228.616	-370.3	46.4	0.0004	mg/L	0.0004 ppm
2	Cr 267.716	-145.3	14.5	0.0002	mg/L	0.0002 ppm
2	Cu 324.754	2444.7	157.8	0.0005	mg/L	0.0005 ppm
2	Fe 273.955	3008.7	18.9	0.0004	mg/L	0.0004 ppm
2	Mg 279.079	-475.2	-1071.4	-0.0337	mg/L	-0.0337 ppm
2	Mn 257.610	2027.0	906.3	0.0006	mg/L	0.0006 ppm
2	Mo 202.030	-16.4	12.1	0.0006	mg/L	0.0006 ppm
2	Ni 231.604	362.8	87.6	0.0017	mg/L	0.0017 ppm
2	Pb 220.353	168.1	-16.8	-0.0011	mg/L	-0.0011 ppm
2	Sb 206.833	62.6	1.9	0.0005	mg/L	0.0005 ppm
2	Se 196.026	67.4	-16.8	-0.0061	mg/L	-0.0061 ppm
2	Tl 190.800	199.5	11.0	0.0032	mg/L	0.0032 ppm
2	V 292.402	282.7	120.0	0.0011	mg/L	0.0011 ppm
2	Zn 213.856	-376.3	207.1	0.0020	mg/L	0.0020 ppm
3	Ag 328.068	-1080.3	-6.4	0.0000	mg/L	0.0000 ppm
3	Al 308.215	4675.2	77.6	0.0021	mg/L	0.0021 ppm
3	As 188.979	66.4	-3.0	-0.0012	mg/L	-0.0012 ppm
3	Ba 233.527	-770.6	95.0	0.0003	mg/L	0.0003 ppm
3	Be 313.107	21.3	435.6	0.0002	mg/L	0.0002 ppm
3	Ca 227.547	218.2	-65.3	-0.2497	mg/L	-0.2497 ppm
3	Cd 228.802	101.3	11.5	0.0001	mg/L	0.0001 ppm
3	Co 228.616	-343.4	73.3	0.0007	mg/L	0.0007 ppm
3	Cr 267.716	-181.0	-21.2	-0.0002	mg/L	-0.0002 ppm
3	Cu 324.754	2325.1	38.2	0.0001	mg/L	0.0001 ppm
3	Fe 273.955	2913.5	-76.3	-0.0015	mg/L	-0.0015 ppm
3	Mg 279.079	-345.1	-941.2	-0.0296	mg/L	-0.0296 ppm
3	Mn 257.610	1809.3	688.6	0.0004	mg/L	0.0004 ppm
3	Mo 202.030	-22.9	5.6	0.0003	mg/L	0.0003 ppm
3	Ni 231.604	315.3	40.1	0.0008	mg/L	0.0008 ppm
3	Pb 220.353	183.9	-1.0	-0.0001	mg/L	-0.0001 ppm
3	Sb 206.833	63.2	2.6	0.0006	mg/L	0.0006 ppm
3	Se 196.026	76.9	-7.3	-0.0027	mg/L	-0.0027 ppm
3	Tl 190.800	197.0	8.5	0.0025	mg/L	0.0025 ppm
3	V 292.402	150.5	-12.2	-0.0001	mg/L	-0.0001 ppm
3	Zn 213.856	-419.9	163.5	0.0015	mg/L	0.0015 ppm

ean Data ----------

): CCB
mple Qty: 1.0000 mL

Seq. No.: 101 Sample No.: 1 A/S Pos: 1
Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 4:46:29 PM

ement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
328.068	89.2	0.0004	0.00047	mg/L	0.0004	0.00047	ppm	106.18%
308.215	19.2	0.0005	0.00147	mg/L	0.0005	0.00147	ppm	278.11%
188.979	-2.1	-0.0008	0.00040	mg/L	-0.0008	0.00040	ppm	48.35%
233.527	247.0	0.0007	0.00049	mg/L	0.0007	0.00049	ppm	70.48%

Level D Data Package Deliverables

Wet Chemistry

Applied P & Ch Laboratory

11912

Applied P & Ch Laboratory

Wet Analysis Results for Method ASTM-D2216

Client Name:	CDM Federal Programs Corp.	Project No:		Anal Method	ASTM-D2216
Project ID:	San Miguel Island	Service ID:	026141	Collected by:	Dave Lange

Component Name: MOISTURE
CAS No: 7732-18-5

Lab ID	Sample ID	Matrix	Coll Date	Rcv Date	Anal Date	Batch	Unit	RL	Result	Q
02-6141-1	SMI-001-RSS	Soil	11/13/02	11/14/02	11/15/02	02W5242	%Moisture	0.5	5.4	
02-6141-2	SMI-002-RSS	Soil	11/13/02	11/14/02	11/15/02	02W5242	%Moisture	0.5	5.4	
02-6141-3	SMI-302-RSS	Soil	11/13/02	11/14/02	11/15/02	02W5242	%Moisture	0.5	5.7	
02-6141-4	SMI-003-RSS	Soil	11/13/02	11/14/02	11/15/02	02W5242	%Moisture	0.5	4.5	
02-6141-5	SMI-004-RSS	Soil	11/13/02	11/14/02	11/15/02	02W5242	%Moisture	0.5	9.8	
02-6141-6	SMI-005-RSS	Soil	11/13/02	11/14/02	11/15/02	02W5242	%Moisture	0.5	4.1	
02-6141-7	SMI-006-DSS	Soil	11/13/02	11/14/02	11/15/02	02W5242	%Moisture	0.5	10.3	
02-6141-8	SMI-007-DSS	Soil	11/13/02	11/14/02	11/15/02	02W5242	%Moisture	0.5	1.6	
02-6141-9	SMI-008-DSS	Soil	11/13/02	11/14/02	11/15/02	02W5242	%Moisture	0.5	8.9	
02-6141-10	SMI-009-DSS	Soil	11/13/02	11/14/02	11/15/02	02W5242	%Moisture	0.5	10.2	
02-6141-11	SMI-010-DSS	Soil	11/13/02	11/14/02	11/15/02	02W5242	%Moisture	0.5	11.8	
02-6141-12	SMI-311-DSS	Soil	11/13/02	11/14/02	11/15/02	02W5242	%Moisture	0.5	9.8	
02-6141-13	SMI-012-DSS	Soil	11/13/02	11/14/02	11/15/02	02W5242	%Moisture	0.5	12.9	
02-6141-14	SMI-011-DSS	Soil	11/13/02	11/14/02	11/15/02	02W5242	%Moisture	0.5	9.1	
02-6141-15	SMI-013-ASS	Soil	11/13/02	11/14/02	11/15/02	02W5242	%Moisture	0.5	8.0	

Note: Q - Qualifier
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL

Wet Chemistry QC Report B
Duplicate Results

Matrix: Soil

APCL Service ID: 02-6141

Analysis	Batch ID	Analysis Date	Sample Name	Unit	Result	Duplicate Result	RPD %	RPD Control limit
Moisture	02W5242	11/15/2002	02-6121-2	% mositure	19.4	19.4	0	20

Note: N/A = Not applicable; NR: Not requested; NC= Not Calculated; ND: Not detected.

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Tel: (909) 590-1828 Fax: (909) 590-1498

Moisture (ASTM D2216) Worksheet

Batch # 02W5242 SOP: G-86
Date 11/15/02 Analyst SXL

Batch # 02W5243 SOP: G-86
Date 11/15/02 Analyst SXL

	Sample ID	Container Weight W_0, g	Before Drying W_1, g	After Drying W_2, g	Moisture $\frac{W_1-W_2}{W_1-W_0}$ ×100%		Sample ID	Container Weight W_0, g	Before Drying W_1, g	After Drying W_2, g	Moisture $\frac{W_1-W_2}{W_1-W_0}$ ×100%
H28 Smpl-1	6121-2	22.86	43.47	39.39	19.41	Y3 Smpl-1	6148-1	21.53	40.93	39.45	7.63
V Smpl-2	-3	21.25	40.85	38.44	12.30	G Smpl-2	-2	22.76	40.36	38.93	8.13
B14 Smpl-3	-4	22.31	45.58	43.95	7.01	O12 Smpl-3	-3	21.46	45.27	43.87	5.88
J Smpl-4	-5	21.71	42.33	38.42	18.96	44 Smpl-4	-4	22.96	46.93	45.47	6.09
N0 Smpl-5	-6	21.25	41.11	39.08	10.22	B Smpl-5	-5	23.45	41.53	40.64	4.92
Y16 Smpl-6	6141-1	20.80	40.84	39.75	5.44	H65 Smpl-6	-6	22.47	49.68	48.23	5.33
CX Smpl-7	-2	23.51	48.67	47.32	5.37	L0 Smpl-7	-7	21.88	38.30	37.37	5.66
T Smpl-8	-3	22.69	43.28	42.11	5.68	H62 Smpl-8	-8	22.47	44.69	43.99	3.15
H59 Smpl-9	-4	22.45	44.36	43.37	4.52	P Smpl-9	-9	22.18	43.89	43.16	3.76
T80 Smpl-10	-5	23.52	40.91	39.20	9.83	WW Smpl-10	-10	23.05	44.09	43.21	4.18
H9 Smpl-11	-6	23.85	47.52	46.55	4.10	H51 Smpl-11	-11	23.07	49.60	48.86	2.79
N0 Smpl-12	-7	22.66	39.56	37.82	10.30	O1 Smpl-12	-12	21.76	41.63	39.05	12.98
J10 Smpl-13	-8	24.02	43.72	43.40	1.62	101 Smpl-13	-13	21.89	43.02	42.22	3.79
M Smpl-14	-9	22.45	41.72	40.01	8.87	620 Smpl-14	-14	22.97	42.61	41.86	3.82
H68 Smpl-15	-10	22.64	43.23	41.14	10.15	7 Smpl-15	-15	22.75	46.87	46.18	2.86
O55 Smpl-16	-11	21.03	40.79	38.46	11.79	C Smpl-16	6151-1	20.69	43.98	41.07	12.50
S Smpl-17	-12	22.36	39.30	37.64	9.80	H1 Smpl-17	6154-1	23.58	48.30	47.10	4.85
Y Smpl-18	-13	21.45	40.34	37.91	12.86	56 Smpl-18	6111-1	22.15	43.19	40.37	13.40
H14 Smpl-19	-14	22.98	42.95	41.13	9.11	4X Smpl-19	-2	22.79	43.80	42.22	7.52
W Smpl-20	-15	22.74	40.98	39.53	7.95	Smpl-20					
[illegible]	6121-2	22.91	43.52	39.44	19.41	53	6148-1	23.01	45.50	43.87	7.25

Footnote/Anomaly:

Daily Calibration Worksheet

Weight Set S/N: 12006

Calib. Date	Lab Balance: Balance #	1 g ±0.05g	10 g ±0.1g	200 g ±0.5g	Note (C)	Digital Balance: Balance #	1 g ±0.02g	10 g ±0.05g	200 g ±0.10g	Note (D) (C) (AR)	Analytical Balance: Balance #	1 g ±0.0002g	10 g ±0.0005g	200 g ±0.0010g	Note (D) (C) (AR)	Calib. by
11/12/2	A-01	not in use			✓	B-01	1.00	10.00	200.00	✓ ✓ ✓	C-01	1.0000	10.0001	200.0003	✓ ✓ ✓	½
	A-02					B-5	1.00	10.00	199.97	✓ ✓ ✓	C-02	1.0000	10.0004	200.0007	✓ ✓ ✓	
	A-03	1.00	10.0	200.0	✓	B-6	1.00	10.00	200.01	✓ ✓ ✓	C-					
	A-04					B-7	1.00	10.02	200.00	✓ ✓ ✓	C-					
	A-		11/12/02			B-		11/12/02			C-		11/12/02			
	A-					B-					C-					
11/13/2	A-01	not in use			✓	B-01	1.00	10.00	200.01	✓ ✓ ✓	C-01	1.0000	10.0002	200.0004	✓ ✓ ✓	½
	A-02					B-5	1.00	10.00	200.00	✓ ✓ ✓	C-02	1.0000	10.0004	200.0007	✓ ✓ ✓	
	A-03	1.00	10.0	200.0	✓	B-6	1.00	10.01	200.03	✓ ✓ ✓	C-					
	A-04					B-7	1.00	9.99	200.00	✓ ✓ ✓	C-					
	A-		11/13/02			B-		11/13/02			C-		11/13/02			
	A-					B-					C-					
11/14/02	A-01	not in use			✓	B-01	1.00	10.00	200.01	✓ ✓ ✓	C-01	1.0000	10.0001	200.0004	✓ ✓ ✓	½
	A-02					B-5	1.00	10.00	200.00	✓ ✓ ✓	C-02	1.0002	10.0005	200.0007	✓ ✓ ✓	
	A-03	1.00	10.0	200.0	✓	B-6	1.00	10.01	200.03	✓ ✓ ✓	C-					
	A-04					B-7	1.00	9.99	200.00	✓ ✓ ✓	C-					
	A-		11/14/02			B-		11/14/02			C-		11/14/02			
	A-					B-					C-					
11/15/02	A-01	not in use			✓	B-01	1.00	10.00	200.01	✓ ✓ ✓	C-01	1.0000	10.0001	200.0003	✓ ✓ ✓	½
	A-02					B-5	1.00	10.00	199.99	✓ ✓ ✓	C-02	1.0002	10.0005	200.0007	✓ ✓ ✓	
	A-03	1.00	10.0	200.0	✓	B-6	1.00	10.01	200.02	✓ ✓ ✓	C-					
	A-04					B-7	1.00	10.00	200.00	✓ ✓ ✓	C-					
	A-		11/15/02			B-		11/15/02			C-		11/15/02			
	A-					B-					C-					

Notation: (C) – Cleanliness; (D) – Display; (AR) – Auto Rezeroing.

APCL

Applied Physics & Chemistry Laboratory

13760 Magnolia Ave. Chino CA 91710
Tel. (909) 590-1828 Fax (909) 590-1498

December 16, 2002

CDM Federal Programs Corp.
Attention: Matt Brookshire
3760 Convoy St., Ste 210
San Diego CA 92111

Dear Matt,

This package contains samples in our Service ID 02-6148 and your project San Miguel Island Job#2606. Enclosed please find:

(1) Original Analytical Report.
(2) One diskette containing EDD deliverable.
(3) One original and one compact disk of Level D of Data Package Deliverable.
(4) Original Chain of custody record.

If anything is missing or you have any questions, please feel free to contact me.

Respectfully submitted,

Regina Kirakozova
Associate QA/QC Director
Applied P & Ch Laboratory

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
CDM Federal Programs Corp.
Attention: Dave Lange
3760 Convoy St., Ste 210
San Diego CA 92111
Tel: (858)268-3383 Fax: (858)268-9677

Service ID #: 801-026148
Collected by: Dave Lange
Collected on: 11/13/02

Received: 11/14/02
Extracted: N/A
Tested: 11/15-22/02
Reported: 11/25/02

Sample Description: Soil
Project Description: San Miguel Island Job#2606

Analysis of Soil Samples

Component Analyzed	Method	Unit	PQL	Analysis Result SMI-014-ASS 02-06148-1	SMI-015-ASS 02-06148-2	SMI-017-ASS 02-06148-3	SMI-018-ASS 02-06148-4
MOISTURE	ASTM-D2216	%Moisture	0.5	7.6	8.1	5.9	6.1
PRIORITY POLLUTANT METALS (CWA) (13)							
Dilution Factor				1	1	1	1
ANTIMONY	6010B	mg/kg	1	<1.1	<1.1	<1.1	<1.1
ARSENIC	6010B	mg/kg	0.3	3.4	4.2	2.2	1.8
BERYLLIUM	6010B	mg/kg	0.2	0.18J	0.15J	0.031J	0.038J
CADMIUM	6010B	mg/kg	0.2	0.16J	0.095J	0.13J	0.13J
CHROMIUM	6010B	mg/kg	0.5	13.6	13.4	6.1	6.1
COPPER	6010B	mg/kg	0.5	5.4	7.7	1.8	1.4
LEAD	6010B	mg/kg	0.3	3.7	5.2	1.6	1.4
MERCURY	7471A	mg/kg	0.08	0.098	0.082J	0.030J	0.023J
NICKEL	6010B	mg/kg	0.3	8.5	10.4	3.2	2.8
SELENIUM	6010B	mg/kg	0.5	0.68	<0.54	<0.53	<0.53
SILVER	6010B	mg/kg	0.1	<0.11	<0.11	<0.11	<0.11
THALLIUM	6010B	mg/kg	0.5	0.24J	<0.54	0.46J	0.58
ZINC	6010B	mg/kg	1	109	98.2	25.6	7.6

Component Analyzed	Method	Unit	PQL	Analysis Result SMI-019-ASS 02-06148-5	SMI-020-ASS 02-06148-6	SMI-021-ASS 02-06148-7	SMI-022-ASS 02-06148-8
MOISTURE	ASTM-D2216	%Moisture	0.5	4.9	5.3	5.7	3.2
PRIORITY POLLUTANT METALS (CWA) (13)							
Dilution Factor				1	1	1	1
ANTIMONY	6010B	mg/kg	1	<1.1	<1.1	0.16J	0.15J
ARSENIC	6010B	mg/kg	0.3	2.0	1.9	2.0	2.2
BERYLLIUM	6010B	mg/kg	0.2	0.028J	0.037J	0.036J	0.023J
CADMIUM	6010B	mg/kg	0.2	0.13J	0.12J	0.14J	0.12J
CHROMIUM	6010B	mg/kg	0.5	4.8	4.4	4.5	4.3
COPPER	6010B	mg/kg	0.5	1.9	1.3	1.9	1.3
LEAD	6010B	mg/kg	0.3	2.1	1.2	1.8	1.7
MERCURY	7471A	mg/kg	0.08	0.041J	0.032J	0.022J	0.023J
NICKEL	6010B	mg/kg	0.3	3.0	2.2	2.4	2.4
SELENIUM	6010B	mg/kg	0.5	<0.53	<0.53	<0.53	<0.52
SILVER	6010B	mg/kg	0.1	<0.11	<0.11	<0.11	<0.10
THALLIUM	6010B	mg/kg	0.5	0.62	0.62	0.63	0.63
ZINC	6010B	mg/kg	1	10.1	8.8	10.8	22.3

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Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result SMI-023-CRS 02-06148-9	SMI-024-CRS 02-06148-10	SMI-026-BSS 02-06148-11	SMI-016-ASS 02-06148-12
MOISTURE	ASTM-D2216	%Moisture	0.5	3.4	4.2	2.8	13.0
PRIORITY POLLUTANT METALS (CWA) (13)							
Dilution Factor				1	1	1	1
ANTIMONY	6010B	mg/kg	1	0.25J	<1.0	<1.0	<1.1
ARSENIC	6010B	mg/kg	0.3	1.6	1.8	1.4	6.4
BERYLLIUM	6010B	mg/kg	0.2	0.028J	0.026J	<0.21	0.28
CADMIUM	6010B	mg/kg	0.2	0.12J	0.13J	0.048J	0.17J
CHROMIUM	6010B	mg/kg	0.5	3.3	5.3	1.5	18.2
COPPER	6010B	mg/kg	0.5	0.83	1.2	0.24J	11.2
LEAD	6010B	mg/kg	0.3	0.93	1.0	0.26J	8.9
MERCURY	7471A	mg/kg	0.08	0.018J	0.039J	0.024J	0.076J
NICKEL	6010B	mg/kg	0.3	1.6	2.7	0.73	15.8
SELENIUM	6010B	mg/kg	0.5	<0.52	<0.52	<0.51	<0.57
SILVER	6010B	mg/kg	0.1	<0.10	<0.10	0.038J	<0.11
THALLIUM	6010B	mg/kg	0.5	0.72	0.53	0.57	<0.57
ZINC	6010B	mg/kg	1	5.4	6.7	3.1	88.4

Component Analyzed	Method	Unit	PQL	Analysis Result SMI-319-ASS 02-06148-13	SMI-025-CRS 02-06148-14	SMI-326-BSS 02-06148-15
MOISTURE	ASTM-D2216	%Moisture	0.5	3.8	3.8	2.9
PRIORITY POLLUTANT METALS (CWA) (13)						
Dilution Factor				1	1	1
ANTIMONY	6010B	mg/kg	1	0.21J	0.19J	<1.0
ARSENIC	6010B	mg/kg	0.3	2.0	2.3	1.6
BERYLLIUM	6010B	mg/kg	0.2	0.018J	0.027J	<0.21
CADMIUM	6010B	mg/kg	0.2	0.12J	0.11J	0.045J
CHROMIUM	6010B	mg/kg	0.5	4.7	4.8	1.6
COPPER	6010B	mg/kg	0.5	1.8	1.2	0.25J
LEAD	6010B	mg/kg	0.3	2.0	1.0	0.28J
MERCURY	7471A	mg/kg	0.08	0.027J	0.033J	0.012J
NICKEL	6010B	mg/kg	0.3	2.4	2.7	0.75
SELENIUM	6010B	mg/kg	0.5	<0.52	<0.52	<0.51
SILVER	6010B	mg/kg	0.1	<0.10	<0.10	0.044J
THALLIUM	6010B	mg/kg	0.5	0.59	0.56	0.60
ZINC	6010B	mg/kg	1	9.6	7.7	2.9

PQL: Practical Quantitation Limit MDL: Method Detection Limit CRDL: Contract Required Detection Limit
N.D.: Not Detected or less than the practical quantitation limit "-": Analysis is not required
J: Reported between PQL and MDL.
† All results are reported on dry basis for soil samples.
Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & Ch Laboratory

Hsin-Yi Lee

From: Brookshire, Matthew [BrookshireMS@cdm.com]
Sent: Wednesday, November 20, 2002 11:23 AM
To: 'Hsin-Yi Lee'
Subject: RE: CLP Limits are in ( )

Hi Hsin Yi.

This message is in regard to the samples collected for the San Miguel project. Please perform the ICP method so that we can reach the original detection limits that were sent to you as Attachment 2 of the scope of work. Analysis by CLP method is NOT required.

Thank you.

Matt Brookshire

-----Original Message-----
From: Hsin-Yi Lee [mailto:HsinL@apclab.com]
Sent: Wednesday, November 20, 2002 10:51 AM
To: Brookshire, Matthew
Subject: CLP Limits are in ( )

<< File: ATTACHEMENT 2 reporting limits_CLP.doc >>

If you have any questions please feel free to contact me.

Hsin-Yi Lee
Project Manager
Applied Physics and Chemistry Laboratory
13760 Magnolia Ave.
Chino, CA 91710
(909)-590-1828 x113
HsinL@apclab.com

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Level D Data Package Deliverables

General Information

Project: San Miguel Island Job#2606

APCL Service ID: 02-6148

Applied P&Ch Laboratory
13760 Magnolia Ave. Chino, CA 91710
Telephone (909)590-1828
Fax (909)590-1498

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Case Narrative

Project: San Miguel Island

For CDM Federal Programs Corp.

APCL Service No: 02-6148

1. Sample Identification

The sample identifications are listed in the following table:

CDM Federal Programs Corp. Sample ID	APCL Sample ID
SMI-014-ASS	02-06148-1
SMI-015-ASS	02-06148-2
SMI-016-ASS	02-06148-12
SMI-017-ASS	02-06148-3
SMI-018-ASS	02-06148-4
SMI-019-ASS	02-06148-5
SMI-319-ASS	02-06148-13
SMI-020-ASS	02-06148-6
SMI-021-ASS	02-06148-7
SMI-022-ASS	02-06148-8
SMI-023-CRS	02-06148-9
SMI-024-CRS	02-06148-10
SMI-025-CRS	02-06148-14
SMI-026-BSS	02-06148-11
SMI-326-BSS	02-06148-15

2. Analytical Methodology

Samples are analyzed by EPA methods

ASTM-D2216 (Moisture, percent in soil),
6010B/7471A (Priority Pollutant Metals (CWA) (13)),

3. Holding Time

All samples were extracted, digested and analyzed within the holding times defined by the appropriate EPA methods of the analyses.

4. Preservation

All samples were preserved and stored according to the appropriate EPA methods.

5. Tele-log

One e-mail requesting ICP analyses instead of CLP.

6. Anomaly

None

"I certify that these data are technically accurate, complete, and in compliance with the terms and conditions of the contract, for other than the conditions detailed above. Release of the data contained in the hardcopy data package and its electronic data deliverable submitted on diskette had been authorized by the Laboratory Manager or her/his designee, as verified by the following signature."

Respectfully submitted,

Regina Kirakozova
Associate QA/QC Director
Applied P & Ch Laboratory

Applied P & Ch Laboratory

APCL

13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Chain of Custody

Please Print in pen

Client: CDM Contact: Dave Lange Tel #: 858-268-3383 Fax #: 858-268-9677

Address: 3760 Convoy St, Suite 210 City: San Diego State: CA Zip code: 92111

Bill to:

Project Name/Code San Miguel Island Job # 2606 P.O. #

Project Address APCL Quotation #

Due Date: ☒ regular ☐ rush: ___ days ___ hours Sampled by: Dave Lange

Analysis Items

White – With report
Yellow – Lab copy
Pink – Originator

Field Sample ID No.	Sample Description	Date Collected	Time Collected	Sample Matrix	Preservation	# of Containers	CLP Metals ILM 04.0											Remarks
SMI-014-ASS	Arroyo Samples	11/13/02	1325	SOIL	NONE	1	X											
SMI-015-ASS			1336				X											
SMI-016-ASS			1344				X											
SMI-017-ASS			1350				X											
SMI-018-ASS			1356				X											
SMI-019-ASS			1404				X											
SMI-319-ASS	Arroyo Duplicate		1411				X											
SMI-020-ASS	Arroyo Sample		1420				X											
SMI-021-ASS			1428				X											
SMI-022-ASS			1435				X											
SMI-023-CRS	Cross Channel Sample		1457				X											
SMI-024-CRS			1502				X											
SMI-025-CRS			1509				X											
SMI-026-BSS	Beach Sample		1428				X											
SMI-326-BSS	Beach Sample Dup		1429				X											

QC Requirement: ☐ Regular; ☐ QA/QC Report; ☐ WIP; ☒ Raw Data; ☐ Extended Raw Data ☐ CLP; ☐ ACE ☐ AFCEE ☐ NEESA ___ (E, C or D); ☐ Other _____ (Please specify)

Sample Disposal: ☐ Return ☐ Disposal by APCL ☐ Hold for _____ days after receiving date. **If not specified, samples will be discarded 45 days after samples are received.**

Sample Conditions: ☐ Intact; ☐ Broken. Cooler Seal: ☐ Intact; ☐ Broken; ☐ None. Tag # _____ Temperature: ☒ Room ☐ Cold (_____ °C).

Relinquished by [signature] Date/Time 11/14/02 / 1350 Received by Paul C Date/Time 11/14/02 / 1350

Relinquished by Date/Time / Received by Date/Time /

APCL USE ONLY Service # Note:

Clients understand that all terms described in the proposals, quotations for this project, and/or the general terms provided in the current APCL price schedules will be followed. APCL reserves the right to terminate its service or withhold delivery of any reports, if in APCL's sole discretion the terms of the project have been broken.

Applied P & Ch Laboratory
13760 Magnolia Ave., Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Sample Receiving Checklist

APCL ServiceID: 6148 **Client Name/Project:** CDM.

1. **Sample Arrival**

Date/Time Received 11/14/2 1350 Date/Time Opened 11/14/2 1350 By (name): Henry Lee
Custody Transfer: ☑ Client ☐ Golden State ☐ UPS ☐ US Mail ☐ FedEx ☐ APCL Empl: _____

2. **Chain-of-Custody (CoC)**

☑ With Samples? ☐ Faxed? ☐ Client has Copy? ☑ Signed, dated? By: _____
☑ Project ID? ☑ Analyses Clear? ☐ Hold Samples? #on Hold _____ # Received _____
☑ CoC/Docs Zip-Locked under lid? ☐ Compos #: _ ☑ #Samples OK? _____
☐ Discrepancies? ☐ Client notified? ☐ Response (attach docs): _____

3. **Shipping Container/Cooler**

☑ Cooler Used? # of 2 Cooled by: ☐ Ice ☐ Blue Ice ☐ Dry Ice ☑ None
Temp °C 21.3°C 20.9°C _____ _____ _____ _____
(Cooler temperature measured from temp blank if present otherwise measured from the cooler)
Cooler Custody Seal? ☐ Absent ☑ Intact ☐ Tampered?

4. **Sample Preservation**

☐ **pH <2** ☐ pH >12
If Not, pH = _____ Preserved by: ☐ Client ☐ APCL ☐ Third Party _____

5. **Holding-time Requirements**

☐ pH 24hr ☐ BACT 6/24hr ☐ Cr^{VI} 24hr ☐ NO_3^- 48hr ☐ BOD 48hr
☐ Cl_2 ASAP ☐ Turbidity 48hr ☐ DO ASAP ☐ Fe(II) ASAP
☐ HT Expired? ☐ Client notified?

6. **Sample Container Condition**

☑ Intact? ☐ Broken? ☐ Documented? Number: _____
Type: ☑ plastic ☐ glass ☐ Tube: brass/SS ☐ Tedlar Bag
☑ Quantity OK? ☐ Leaking? ☐ Anomaly?
☑ Caps tight? ☐ Air Bubbles? ☐ Anomaly?
Labels: ☑ Unique ID? ☑ Date/Time ☐ Preserved?

7. **Turn Around Time**

☑ RUSH TAT: _____ ☐ Std (7-10 days) ☐ Not Marked

8. **Sample Matrix**

☐ Drinking H_2O ☐ Other Liq ☑ Soil ☐ Wipe ☐ Polymer ☐ Air ☐ Other: _____
☐ Ground H_2O ☐ Sludge ☐ Filter ☐ Oil/Petro ☐ Paint ☐ W. Water ☐ Extract ☐ Unknown

9. **Pre-Login Check List Completed & OK?**

☑ All OK? (if not attach docs) ☐ Client Contact? (Name:_____)Date/Time:_____
Received/Checked by: Henry Lee Date: 14 Nov 2002 Time: 8:23 a.m.

*HT: Samples must be analyzed for results to reflect total concentrations Results generated outside required of holding times are considered minimal values and may be used to define waste as hazardous but not as non-hazardous

DocumentFile: [neal texfiles]smprcl tex

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Sample Login: Check List

02-06148 (0787_ 426) (2683383_ 426)

11/20/02

Part 1: General Information

☐	Company Information	Name:	*CDM Federal Programs Corp.*
		Address:	*3760 Convoy St., Ste 210 ,San Diego ,CA 92111*
☐	Project Information	Project Description:	*San Miguel Island*
		Project #:	
☐	Billing Information	P.O. #:	
		Bill Address:	*1526 Cole Blvd, 3., St 150 ,Golden ,CO 80401*
		Lab Project ID:	
		Client Database #:	*0*
☐	Receiving Information	Who Received Sample?	*Hsin-Yi Lee*
		Receiving Date/Time:	*11/14/02 1350*
		COC No.	
☐	Shipping Information	Shipping Company	*by Client*
		Packing Information:	*Others*
☐	Container Information	Container Provider:	*Client*
☐	Sampling Information	Sampling Person:	*Dave Lange*
		Sampling Company:	*Client*
☐	Turn-Around-Time Option:		*Rush 5 working day(s)*
☐	QC Option:		*NEESA D*
☐	Disposal Option:		*Not specify*

Part 2: Sample Information

Seq #	Sample ID (on COC)	Sample Sub-ID	APCL Sample ID	Matrix	Cont-tainer	Preser-vative	Vol, ml Am. g	# of Replica	Condition G, L, B	Collected mmddyy	Hold ?	Composite Group	TAT Days	
1	SMI-014-ASS		02-06148-1	S	P		300	1	G	111302	N	0	7	☐
2	SMI-015-ASS		02-06148-2	S	P		300	1	G	111302	N	0	7	☐
3	SMI-016-ASS		02-06148-12	S	P		300	1	G	111302	N	0	7	☐
4	SMI-017-ASS		02-06148-3	S	P		300	1	G	111302	N	0	7	☐
5	SMI-018-ASS		02-06148-4	S	P		300	1	G	111302	N	0	7	☐
6	SMI-019-ASS		02-06148-5	S	P		300	1	G	111302	N	0	7	☐
7	SMI-319-ASS		02-06148-13	S	P		300	1	G	111302	N	0	7	☐
8	SMI-020-ASS		02-06148-6	S	P		300	1	G	111302	N	0	7	☐
9	SMI-021-ASS		02-06148-7	S	P		300	1	G	111302	N	0	7	☐
10	SMI-022-ASS		02-06148-8	S	P		300	1	G	111302	N	0	7	☐
11	SMI-023-CRS		02-06148-9	S	P		300	1	G	111302	N	0	7	☐
12	SMI-024-CRS		02-06148-10	S	P		300	1	G	111302	N	0	7	☐
13	SMI-025-CRS		02-06148-14	S	P		300	1	G	111302	N	0	7	☐
14	SMI-026-BSS		02-06148-11	S	P		300	1	G	111302	N	0	7	☐
15	SMI-326-BSS		02-06148-15	S	P		300	1	G	111302	N	0	7	☐

Part 3: Analysis Information

Test Items:

☐ *ASTM-D2216* Moisture, percent in soil

☐ *6010B/7000A* Priority Pollutant Metals (CWA) (13)

☐ *200.7/6010B* Beryllium, Be, by ICP

Seq #	Client"s Sample ID (as given on COC)	Sample Sub-ID	APCL Sample ID	Matrix	MOISTURE	METALS	BE	
1	SMI-014-ASS		02-06148-1	S	X	X	X	☐
2	SMI-015-ASS		02-06148-2	S	X	X	X	☐
3	SMI-016-ASS		02-06148-12	S	X	X	X	☐
4	SMI-017-ASS		02-06148-3	S	X	X	X	☐
5	SMI-018-ASS		02-06148-4	S	X	X	X	☐
6	SMI-019-ASS		02-06148-5	S	X	X	X	☐
7	SMI-319-ASS		02-06148-13	S	X	X	X	☐
8	SMI-020-ASS		02-06148-6	S	X	X	X	☐
9	SMI-021-ASS		02-06148-7	S	X	X	X	☐
10	SMI-022-ASS		02-06148-8	S	X	X	X	☐
11	SMI-023-CRS		02-06148-9	S	X	X	X	☐
12	SMI-024-CRS		02-06148-10	S	X	X	X	☐
13	SMI-025-CRS		02-06148-14	S	X	X	X	☐
14	SMI-026-BSS		02-06148-11	S	X	X	X	☐
15	SMI-326-BSS		02-06148-15	S	X	X	X	☐

☐ Client"s Requirement: ~~GLP METALS BY ILF 4.0 (SEE ATTACHED LIST)~~ HC

11/20/02

012604

Level D Data Package Deliverables

Metals

Applied P & Ch Laboratory

012605

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp	Project No:		Collection Date:	11/21/2002
Project ID:	San Miguel Island	Service ID:	026148	Collected by:	
		Lab Sample ID:	02M2369MB01	Received Date:	11/21/2002
Sample ID:		Sample Matrix	Soil	Moisture %:	
Sample Type:	Method Blank				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1	<1	U	P		02M2369M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.3	<0.3	U	P		02M2369M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.2	<0.2	U	P		02M2369M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.2	<0.2	U	P		02M2369M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.5	0.046	B	P		02M2369M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.5	<0.5	U	P		02M2369M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.3	<0.3	U	P		02M2369M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.08	<0.08	U	CV		02M2386H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.3	0.11	B	P		02M2369M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.5	<0.5	U	P		02M2369M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.1	<0.1	U	P		02M2369M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.5	<0.5	U	P		02M2369M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1	<1	U	P		02M2369M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp.	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026148	Collected by:	Dave Lange
		Lab Sample ID:	02-6148-1	Received Date:	11/14/2002
Sample ID:	**SMI-014-ASS**	Sample Matrix	Soil	Moisture %:	7.6
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.1	<1.1	U	P		02M2369M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.32	3.4		P		02M2369M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.22	0.18	B	P		02M2369M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.22	0.16	B	P		02M2369M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.54	13.6		P		02M2369M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.54	5.4		P		02M2369M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.32	3.7		P		02M2369M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.087	0.098		CV		02M2386H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.32	8.5		P		02M2369M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.54	0.68		P		02M2369M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.11	<0.11	U	P		02M2369M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.54	0.24	B	P		02M2369M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.1	109		P		02M2369M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

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W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026148	Collected by:	Dave Lange
		Lab Sample ID:	02-6148-2	Received Date:	11/14/2002
Sample ID:	**SMI-015-ASS**	Sample Matrix	Soil	Moisture %:	8.1
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.1	<1.1	U	P		02M2369M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.33	4.2		P		02M2369M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.22	0.15	B	P		02M2369M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.22	0.095	B	P		02M2369M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.54	13.4		P		02M2369M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.54	7.7		P		02M2369M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.33	5.2		P		02M2369M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.087	0.082	B	CV		02M2386H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.33	10.4		P		02M2369M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.54	<0.54	U	P		02M2369M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.11	<0.11	U	P		02M2369M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.54	<0.54	U	P		02M2369M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.1	98.2		P		02M2369M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

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W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp.	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026148	Collected by:	Dave Lange
		Lab Sample ID:	02-6148-3	Received Date:	11/14/2002
Sample ID:	**SMI-017-ASS**	Sample Matrix	Soil	Moisture %:	5.9
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.1	<1.1	U	P		02M2369M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.32	2.2		P		02M2369M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.21	0.031	B	P		02M2369M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.21	0.13	B	P		02M2369M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.53	6.1		P		02M2369M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.53	1.8		P		02M2369M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.32	1.6		P		02M2369M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.085	0.030	B	CV		02M2386H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.32	3.2		P		02M2369M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.53	<0.53	U	P		02M2369M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.11	<0.11	U	P		02M2369M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.53	0.46	B	P		02M2369M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.1	25.6		P		02M2369M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

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W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp.	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026148	Collected by:	Dave Lange
		Lab Sample ID:	02-6148-4	Received Date:	11/14/2002
Sample ID:	**SMI-018-ASS**	Sample Matrix	Soil	Moisture %:	6.1
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.1	<1.1	U	P		02M2369M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.32	1.8		P		02M2369M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.21	0.038	B	P		02M2369M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.21	0.13	B	P		02M2369M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.53	6.1		P		02M2369M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.53	1.4		P		02M2369M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.32	1.4		P		02M2369M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.085	0.023	B	CV		02M2386H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.32	2.8		P		02M2369M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.53	<0.53	U	P		02M2369M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.11	<0.11	U	P		02M2369M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.53	0.58		P		02M2369M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.1	7.6		P		02M2369M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

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W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp.	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026148	Collected by:	Dave Lange
		Lab Sample ID:	02-6148-5	Received Date:	11/14/2002
Sample ID:	**SMI-019-ASS**	Sample Matrix	Soil	Moisture %:	4.9
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.1	<1.1	U	P		02M2369M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.32	2.0		P		02M2369M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.21	0.028	B	P		02M2369M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.21	0.13	B	P		02M2369M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.53	4.8		P		02M2369M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.53	1.9		P		02M2369M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.32	2.1		P		02M2369M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.084	0.041	B	CV		02M2386H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.32	3.0		P		02M2369M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.53	<0.53	U	P		02M2369M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.11	<0.11	U	P		02M2369M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.53	0.62		P		02M2369M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.1	10.1		P		02M2369M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026148	Collected by:	Dave Lange
		Lab Sample ID:	02-6148-6	Received Date:	11/14/2002
Sample ID:	**SMI-020-ASS**	Sample Matrix	Soil	Moisture %:	5.3
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.1	<1.1	U	P		02M2369M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.32	1.9		P		02M2369M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.21	0.037	B	P		02M2369M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.21	0.12	B	P		02M2369M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.53	4.4		P		02M2369M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.53	1.3		P		02M2369M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.32	1.2		P		02M2369M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.085	0.032	B	CV		02M2386H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.32	2.2		P		02M2369M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.53	<0.53	U	P		02M2369M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.11	<0.11	U	P		02M2369M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.53	0.62		P		02M2369M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.1	8.8		P		02M2369M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp.	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026148	Collected by:	Dave Lange
		Lab Sample ID:	02-6148-7	Received Date:	11/14/2002
Sample ID:	**SMI-021-ASS**	Sample Matrix	Soil	Moisture %:	5.7
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.1	0.16	B	P		02M2369M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.32	2.0		P		02M2369M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.21	0.036	B	P		02M2369M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.21	0.14	B	P		02M2369M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.53	4.5		P		02M2369M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.53	1.9		P		02M2369M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.32	1.8		P		02M2369M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.085	0.022	B	CV		02M2386H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.32	2.4		P		02M2369M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.53	<0.53	U	P		02M2369M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.11	<0.11	U	P		02M2369M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.53	0.63		P		02M2369M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.1	10.8		P		02M2369M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026148	Collected by:	Dave Lange
		Lab Sample ID:	02-6148-8	Received Date:	11/14/2002
Sample ID:	**SMI-022-ASS**	Sample Matrix	Soil	Moisture %:	3.2
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.0	0.15	B	P		02M2369M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.31	2.2		P		02M2369M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.21	0.023	B	P		02M2369M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.21	0.12	B	P		02M2369M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.52	4.3		P		02M2369M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.52	1.3		P		02M2369M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.31	1.7		P		02M2369M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.083	0.023	B	CV		02M2386H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.31	2.4		P		02M2369M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.52	<0.52	U	P		02M2369M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.10	<0.10	U	P		02M2369M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.52	0.63		P		02M2369M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.0	22.3		P		02M2369M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026148	Collected by:	Dave Lange
		Lab Sample ID:	02-6148-9	Received Date:	11/14/2002
Sample ID:	**SMI-023-CRS**	Sample Matrix	Soil	Moisture %:	3.4
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.0	0.25	B	P		02M2369M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.31	1.6		P		02M2369M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.21	0.028	B	P		02M2369M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.21	0.12	B	P		02M2369M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.52	3.3		P		02M2369M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.52	0.83		P		02M2369M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.31	0.93		P		02M2369M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.083	0.018	B	CV		02M2386H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.31	1.6		P		02M2369M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.52	<0.52	U	P		02M2369M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.10	<0.10	U	P		02M2369M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.52	0.72		P		02M2369M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.0	5.4		P		02M2369M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL; B - Less than RL (PQL, EQL or CRDL), but greater than IDL

Q Qualifier: N - Spike recovery out of control; * - Duplicate analysis out of control; W - Post digestion spike for GFAA out of control; E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp.	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026148	Collected by:	Dave Lange
		Lab Sample ID:	02-6148-10	Received Date:	11/14/2002
Sample ID:	**SMI-024-CRS**	Sample Matrix	Soil	Moisture %:	4 2
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.0	<1.0	U	P		02M2369M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.31	1.8		P		02M2369M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.21	0.026	B	P		02M2369M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.21	0.13	B	P		02M2369M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.52	5.3		P		02M2369M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.52	1.2		P		02M2369M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.31	1.0		P		02M2369M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.083	0.039	B	CV		02M2386H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.31	2.7		P		02M2369M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.52	<0.52	U	P		02M2369M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.10	<0.10	U	P		02M2369M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.52	0.53		P		02M2369M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.0	6.7		P		02M2369M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp.	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026148	Collected by:	Dave Lange
		Lab Sample ID:	02-6148-11	Received Date:	11/14/2002
Sample ID:	**SMI-026-BSS**	Sample Matrix	Soil	Moisture %:	2.8
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.0	<1.0	U	P		02M2369M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.31	1.4		P		02M2369M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.21	<0.21	U	P		02M2369M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.21	0.048	B	P		02M2369M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.51	1.5		P		02M2369M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.51	0.24	B	P		02M2369M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.31	0.26	B	P		02M2369M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.082	0.024	B	CV		02M2386H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.31	0.73		P		02M2369M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.51	<0.51	U	P		02M2369M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.10	0.038	B	P		02M2369M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.51	0.57		P		02M2369M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.0	3.1		P		02M2369M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026148	Collected by:	Dave Lange
		Lab Sample ID:	02-6148-12	Received Date:	11/14/2002
Sample ID:	**SMI-016-ASS**	Sample Matrix	Soil	Moisture %:	13.0
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.1	<1.1	U	P		02M2369M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.34	6.4		P		02M2369M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.23	0.28		P		02M2369M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.23	0.17	B	P		02M2369M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.57	18.2		P		02M2369M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.57	11.2		P		02M2369M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.34	8.9		P		02M2369M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.092	0.076	B	CV		02M2386H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.34	15.8		P		02M2369M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.57	<0.57	U	P		02M2369M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.11	<0.11	U	P		02M2369M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.57	<0.57	U	P		02M2369M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.1	88.4		P		02M2369M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026148	Collected by:	Dave Lange
		Lab Sample ID:	02-6148-13	Received Date:	11/14/2002
Sample ID:	**SMI-319-ASS**	Sample Matrix	Soil	Moisture %:	3.8
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.0	0.21	B	P		02M2369M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.31	2.0		P		02M2369M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.21	0.018	B	P		02M2369M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.21	0.12	B	P		02M2369M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.52	4.7		P		02M2369M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.52	1.8		P		02M2369M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.31	2.0		P		02M2369M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.083	0.027	B	CV		02M2386H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.31	2.4		P		02M2369M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.52	<0.52	U	P		02M2369M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.10	<0.10	U	P		02M2369M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.52	0.59		P		02M2369M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.0	9.6		P		02M2369M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026148	Collected by:	Dave Lange
		Lab Sample ID:	02-6148-14	Received Date:	11/14/2002
Sample ID:	**SMI-025-CRS**	Sample Matrix	Soil	Moisture %:	3.8
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.0	0.19	B	P		02M2369M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.31	2.3		P		02M2369M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.21	0.027	B	P		02M2369M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.21	0.11	B	P		02M2369M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.52	4.8		P		02M2369M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.52	1.2		P		02M2369M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.31	1.0		P		02M2369M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.083	0.033	B	CV		02M2386H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.31	2.7		P		02M2369M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.52	<0.52	U	P		02M2369M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.10	<0.10	U	P		02M2369M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.52	0.56		P		02M2369M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.0	7.7		P		02M2369M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp.	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026148	Collected by:	Dave Lange
		Lab Sample ID:	02-6148-15	Received Date:	11/14/2002
Sample ID:	**SMI-326-BSS**	Sample Matrix	Soil	Moisture %:	2.9
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.0	<1.0	U	P		02M2369M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.31	1.6		P		02M2369M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.21	<0.21	U	P		02M2369M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.21	0.045	B	P		02M2369M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.51	1.6		P		02M2369M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.51	0.25	B	P		02M2369M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.31	0.28	B	P		02M2369M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.082	0.012	B	CV		02M2386H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.31	0.75		P		02M2369M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.51	<0.51	U	P		02M2369M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.10	0.044	B	P		02M2369M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.51	0.60		P		02M2369M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.0	2.9		P		02M2369M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

FORM-2A Metal

Applied P & Ch Laboratory

Initial and Continuing Calibration Verification

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026148	Sequence No.:	02M2368M
		Instrument:	ICP -M	Method:	6010B

Batch No.(s): 02M2369

Analysis Date: **11/21/02** Concentration Units: **UG/L**

#	Analyte	ICV True	11:18 Result	%R	CCV True	11:38 Result	%R	CCV True	12:20 Result	%R	CCV True	12:55 Result	%R
1	Aluminum	10000.0	9973.22	99.7	5000.0	5136.08	102.7	5000.0	5109.74	102.2	5000.0	5076.71	101.5
2	Antimony	4000.0	3959.23	99.0	2000.0	2029.50	101.5	2000.0	2029.91	101.5	2000.0	2023.50	101.2
3	Arsenic	1000.0	1005.01	100.5	500.0	517.98	103.6	500.0	512.45	102.5	500.0	508.17	101.6
4	Barium	10000.0	9914.57	99.1	5000.0	5159.87	103.2	5000.0	5238.85	104.8	5000.0	5175.92	103.5
5	Beryllium	1000.0	996.84	99.7	500.0	507.65	101.5	500.0	514.78	103.0	500.0	507.92	101.6
6	Cadmium	2000.0	1991.51	99.6	1000.0	1030.16	103.0	1000.0	1041.33	104.1	1000.0	1034.24	103.4
7	Calcium	100000.0	99694.01	99.7	50000.0	50815.67	101.6	50000.0	51938.29	103.9	50000.0	51698.86	103.4
8	Chromium	1000.0	990.94	99.1	500.0	512.06	102.4	500.0	518.99	103.8	500.0	513.55	102.7
9	Cobalt	4000.0	3968.49	99.2	2000.0	2068.51	103.4	2000.0	2096.72	104.8	2000.0	2081.80	104.1
10	Copper	4000.0	3980.39	99.5	2000.0	2059.74	103.0	2000.0	2108.18	105.4	2000.0	2064.88	103.2
11	Iron	10000.0	9829.03	98.3	5000.0	5165.13	103.3	5000.0	5164.79	103.3	5000.0	5229.27	104.6
12	Lead	1000.0	992.37	99.2	500.0	510.85	102.2	500.0	507.70	101.5	500.0	506.40	101.3
13	Magnesium	50000.0	49514.18	99.0	25000.0	26044.82	104.2	25000.0	26175.39	104.7	25000.0	25854.37	103.4
14	Manganese	4000.0	3970.14	99.3	2000.0	2065.48	103.3	2000.0	2108.89	105.4	2000.0	2081.77	104.1
15	Nickel	4000.0	3965.79	99.1	2000.0	2067.35	103.4	2000.0	2080.47	104.0	2000.0	2064.06	103.2
16	Selenium	1000.0	991.68	99.2	500.0	519.62	103.9	500.0	516.62	103.3	500.0	516.12	103.2
17	Silver	2000.0	1989.26	99.5	1000.0	1020.44	102.0	1000.0	1030.01	103.0	1000.0	1021.95	102.2
18	Thallium	1000.0	986.60	98.7	500.0	518.52	103.7	500.0	515.91	103.2	500.0	513.54	102.7
19	Vanadium	4000.0	3968.69	99.2	2000.0	2039.20	102.0	2000.0	2062.04	103.1	2000.0	2045.48	102.3
20	Zinc	4000.0	3987.11	99.7	2000.0	2043.46	102.2	2000.0	2055.75	102.8	2000.0	2032.83	101.6
21	Molybdenum	4000.0	3966.46	99.2	2000.0	2048.77	102.4	2000.0	2058.34	102.9	2000.0	2042.60	102.1

(a) ICV Control Limit 95-105%; For Hg, 90-110%.

(b) CCV Control Limit 90-110%; For Hg, 80-120%.

FORM-2A Metal

Applied P & Ch Laboratory

Initial and Continuing Calibration Verification

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026148	Sequence No :	02M2368M
		Instrument:	ICP -M	Method:	6010B

Batch No.(s): 02M2369

Analysis Date: **11/21/02** Concentration Units: **UG/L**

#	Analyte	CCV True	13:17 Result	%R	CCV True	13:53 Result	%R	CCV True	14:32 Result	%R	CCV True	15:01 Result	%R
1	Aluminum	5000.0	5019.21	100.4	5000.0	5032.46	100.6	5000.0	4978.94	99.6	5000.0	5055.29	101.1
2	Antimony	2000.0	2042.62	102.1	2000.0	2057.80	102.9	2000.0	2056.87	102.8	2000.0	2071.83	103.6
3	Arsenic	500.0	512.73	102.5	500.0	516.09	103.2	500.0	519.29	103.9	500.0	524.15	104.8
4	Barium	5000.0	5149.48	103.0	5000.0	5143.38	102.9	5000.0	5017.65	100.4	5000.0	5107.28	102.1
5	Beryllium	500.0	511.87	102.4	500.0	516.05	103.2	500.0	508.82	101.8	500.0	520.80	104.2
6	Cadmium	1000.0	1033.13	103.3	1000.0	1044.39	104.4	1000.0	1044.87	104.5	1000.0	1063.20	106.3
7	Calcium	50000.0	51159.06	102.3	50000.0	51936.37	103.9	50000.0	52556.80	105.1	50000.0	52847.30	105.7
8	Chromium	500.0	503.01	100.6	500.0	502.57	100.5	500.0	495.18	99.0	500.0	499.19	99.8
9	Cobalt	2000.0	2073.27	103.7	2000.0	2098.14	104.9	2000.0	2097.32	104.9	2000.0	2135.46	106.8
10	Copper	2000.0	2067.03	103.4	2000.0	2087.57	104.4	2000.0	2044.22	102.2	2000.0	2087.77	104.4
11	Iron	5000.0	5180.71	103.6	5000.0	5090.05	101.8	5000.0	4949.67	99.0	5000.0	5033.59	100.7
12	Lead	500.0	509.48	101.9	500.0	510.21	102.0	500.0	506.62	101.3	500.0	507.48	101.5
13	Magnesium	25000.0	25815.90	103.3	25000.0	25918.22	103.7	25000.0	25422.37	101.7	25000.0	25892.31	103.6
14	Manganese	2000.0	2085.64	104.3	2000.0	2101.08	105.1	2000.0	2068.22	103.4	2000.0	2117.27	105.9
15	Nickel	2000.0	2072.18	103.6	2000.0	2105.58	105.3	2000.0	2107.68	105.4	2000.0	2151.52	107.6
16	Selenium	500.0	513.88	102.8	500.0	514.07	102.8	500.0	506.13	101.2	500.0	503.61	100.7
17	Silver	1000.0	1007.74	100.8	1000.0	1007.18	100.7	1000.0	995.43	99.5	1000.0	1007.38	100.7
18	Thallium	500.0	515.65	103.1	500.0	514.06	102.8	500.0	510.14	102.0	500.0	512.21	102.4
19	Vanadium	2000.0	2000.62	100.0	2000.0	1992.40	99.6	2000.0	1965.96	98.3	2000.0	1983.11	99.2
20	Zinc	2000.0	2035.17	101.8	2000.0	2065.29	103.3	2000.0	2049.08	102.5	2000.0	2077.77	103.9
21	Molybdenum	2000.0	2026.92	101.3	2000.0	2041.62	102.1	2000.0	2040.81	102.0	2000.0	2060.78	103.0

(a) ICV Control Limit 95-105%; For Hg, 90-110%

(b) CCV Control Limit 90-110%; For Hg, 80-120%

012623

FORM-2A Metal

Applied P & Ch Laboratory

Initial and Continuing Calibration Verification

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026148	Sequence No :	02M2368M
		Instrument:	ICP -M	Method:	6010B
Batch No.(s):	02M2369				

Analysis Date: **11/21/02**

Concentration Units: **UG/L**

#	Analyte	CCV 15:43 True	Result	%R	CCV 16:20 True	Result	%R	CCV 16:43 True	Result	%R	CCV 17:22 True	Result	%R
1	Aluminum	5000.0	5072.82	101.5	5000.0	5005.42	100.1	5000.0	5200.00	104.0	5000.0	5139.09	102.8
2	Antimony	2000.0	2064.61	103.2	2000.0	2038.87	101.9	2000.0	2038.84	101.9	2000.0	2034.37	101.7
3	Arsenic	500.0	523.94	104.8	500.0	513.16	102.6	500.0	515.71	103.1	500.0	514.54	102.9
4	Barium	5000.0	5144.60	102.9	5000.0	5133.76	102.7	5000.0	5168.05	103.4	5000.0	5173.60	103.5
5	Beryllium	500.0	520.80	104.2	500.0	508.03	101.6	500.0	510.28	102.1	500.0	511.14	102.2
6	Cadmium	1000.0	1059.48	105.9	1000.0	1028.51	102.9	1000.0	1055.83	105.6	1000.0	1045.18	104.5
7	Calcium	50000.0	52763.33	105.5	50000.0	50951.04	101.9	50000.0	52964.51	105.9	50000.0	52088.34	104.2
8	Chromium	500.0	505.49	101.1	500.0	503.45	100.7	500.0	520.24	104.0	500.0	514.35	102.9
9	Cobalt	2000.0	2124.94	106.2	2000.0	2065.47	103.3	2000.0	2130.11	106.5	2000.0	2106.62	105.3
10	Copper	2000.0	2097.00	104.8	2000.0	2062.94	103.1	2000.0	2069.59	103.5	2000.0	2068.02	103.4
11	Iron	5000.0	5030.69	100.6	5000.0	5090.12	101.8	5000.0	5228.01	104.6	5000.0	5239.46	104.8
12	Lead	500.0	508.62	101.7	500.0	506.52	101.3	500.0	509.34	101.9	500.0	508.13	101.6
13	Magnesium	25000.0	25983.36	103.9	25000.0	25720.14	102.9	25000.0	25851.86	103.4	25000.0	25864.11	103.5
14	Manganese	2000.0	2114.68	105.7	2000.0	2079.85	104.0	2000.0	2083.32	104.2	2000.0	2088.11	104.4
15	Nickel	2000.0	2130.58	106.5	2000.0	2055.64	102.8	2000.0	2122.17	106.1	2000.0	2103.88	105.2
16	Selenium	500.0	510.54	102.1	500.0	514.10	102.8	500.0	517.11	103.4	500.0	514.17	102.8
17	Silver	1000.0	1015.84	101.6	1000.0	1001.71	100.2	1000.0	1038.23	103.8	1000.0	1025.38	102.5
18	Thallium	500.0	512.90	102.6	500.0	517.10	103.4	500.0	515.33	103.1	500.0	516.24	103.2
19	Vanadium	2000.0	2006.83	100.3	2000.0	2004.28	100.2	2000.0	2074.43	103.7	2000.0	2047.00	102.4
20	Zinc	2000.0	2075.06	103.8	2000.0	2019.47	101.0	2000.0	2085.40	104.3	2000.0	2058.44	102.9
21	Molybdenum	2000.0	2064.44	103.2	2000.0	2021.42	101.1	2000.0	2101.20	105.1	2000.0	2073.80	103.7

(a) ICV Control Limit 95-105%; For Hg, 90-110%.

(b) CCV Control Limit 90-110%; For Hg, 80-120%.

012024

FORM-2A Metal

Applied P & Ch Laboratory

Initial and Continuing Calibration Verification

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026148	Sequence No.:	02M2368M
		Instrument:	ICP -M	Method:	6010B
Batch No.(s):	02M2369				

Analysis Date: **11/21/02** Concentration Units: **UG/L**

#	Analyte	CCV True	18:16 Result	%R	True	Result	%R	True	Result	%R	True	Result	%R
1	Aluminum	5000.0	4973.20	99.5									
2	Antimony	2000.0	1979.78	99.0									
3	Arsenic	500.0	499.98	100.0									
4	Barium	5000.0	5026.36	100.5									
5	Beryllium	500.0	493.51	98.7									
6	Cadmium	1000.0	1005.77	100.6									
7	Calcium	50000.0	50489.67	101.0									
8	Chromium	500.0	492.92	98.6									
9	Cobalt	2000.0	2034.94	101.7									
10	Copper	2000.0	2009.70	100.5									
11	Iron	5000.0	5011.84	100.2									
12	Lead	500.0	492.71	98.5									
13	Magnesium	25000.0	25364.15	101.5									
14	Manganese	2000.0	2027.01	101.4									
15	Nickel	2000.0	2031.44	101.6									
16	Selenium	500.0	503.49	100.7									
17	Silver	1000.0	992.91	99.3									
18	Thallium	500.0	502.37	100.5									
19	Vanadium	2000.0	1971.82	98.6									
20	Zinc	2000.0	2028.26	101.4									
21	Molybdenum	2000.0	2005.12	100.3									

(a) ICV Control Limit 95-105%; For Hg, 90-110%

(b) CCV Control Limit 90-110%; For Hg, 80-120%

012625

FORM-2A Metal

Applied P & Ch Laboratory

Initial and Continuing Calibration Verification

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026148	Sequence No :	02M2384H
		Instrument:	CV -H	Method:	7471A
Batch No (s):	02M2386				

Analysis Date: **11/22/02** Concentration Units: **UG/L**

#	Analyte	ICV 12:16 True	Result	%R	CCV 12:39 True	Result	%R	CCV 13:01 True	Result	%R	CCV 13:59 True	Result	%R
1	Mercury	7.5	7.65	102.0	5.0	5.13	102.6	5.0	5.19	103.8	5.0	5.22	104.4

(a) ICV Control Limit 95-105%; For Hg, 90-110%.

(b) CCV Control Limit 90-110%; For Hg, 80-120%.

012626

FORM-2A Metal

Applied P & Ch Laboratory

Initial and Continuing Calibration Verification

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026148	Sequence No.:	02M2384H
		Instrument:	CV -H	Method:	7471A

Batch No.(s): 02M2386

Analysis Date: **11/22/02** Concentration Units: **UG/L**

#	Analyte	CCV True	14:22 Result	%R	CCV True	14:44 Result	%R	CCV True	15:19 Result	%R	CCV True	15:42 Result	%R
1	Mercury	5.0	5.06	101.2	5.0	5.09	101.9	5.0	5.25	105.1	5.0	4.90	98.0

(a) ICV Control Limit 95-105%; For Hg, 90-110%.

(b) CCV Control Limit 90-110%; For Hg, 80-120%.

012627

FORM-2A Metal

Applied P & Ch Laboratory

Initial and Continuing Calibration Verification

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026148	Sequence No.:	02M2384H
		Instrument:	CV -H	Method:	7471A
Batch No.(s):	02M2386				

Analysis Date: **11/22/02** Concentration Units: **UG/L**

#	Analyte	CCV True	16:05 Result	%R	CCV True	16:24 Result	%R	True	Result	%R	True	Result	%R
1	Mercury	5.0	4.90	98.0	5.0	4.88	97.6						

(a) ICV Control Limit 95-105%; For Hg, 90-110%

(b) CCV Control Limit 90-110%; For Hg, 80-120%

012628

FORM-2B Metal

Applied P & Ch Laboratory

CRDL Standard For AA and ICP

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026148	Sequence No.:	02M2368M
		Instrument:	ICP -M	Method:	6010B

Batch No (s): 02M2369

Analysis Date: **11/21/02** Concentration Units: **UG/L**

#	Analyte	True	11:28 Found	R%	Time Found	R%
1	Aluminum	200.0	223.18	111.6		
2	Antimony	10.0	11.76	117.6		
3	Arsenic	10.0	11.91	119.1		
4	Barium	5.0	6.77	135.4		
5	Beryllium	2.0	2.23	111.5		
6	Cadmium	2.0	2.33	116.4		
7	Calcium	500.0	640.58	128.1		
8	Chromium	2.0	2.92	146.1		
9	Cobalt	20.0	26.14	130.7		
10	Copper	20.0	19.38	96.9		
11	Iron	50.0	26.70	53.4		
12	Lead	3.0	3.01	100.3		
13	Magnesium		7.65			
14	Manganese	10.0	11.06	110.6		
15	Nickel	40.0	48.68	121.7		
16	Selenium	5.0	4.42	88.4		
17	Silver	10.0	10.66	106.6		
18	Thallium	10.0	10.57	105.7		
19	Vanadium	10.0	11.82	118.2		
20	Zinc	20.0	23.45	117.2		
21	Molybdenum	20.0	23.06	115.3		

012629

FORM-3 Metal

Applied P & Ch Laboratory

Metal ICB/CCB Summary

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026148	Sequence No :	02M2368M
		Instrument:	ICP -M	Method:	6010B

Batch No (s): 02M2369

Analysis Date: **11/21/02** Concentration Units: **UG/L**

#	Analyte	ICB Result	11:25 C	CCB Result	11:43 C	CCB Result	12:25 C	CCB Result	13:00 C	CCB Result	13:22 C
1	Aluminum	5.60	U	5.60	U	5.60	U	5.60	U	8.12	B
2	Antimony	2.30	U	2.30	U	2.39	B	2.30	U	2.30	U
3	Arsenic	1.60	U	1.60	U	1.60	U	1.60	U	1.60	U
4	Barium	0.38	U	0.38	U	0.43	B	0.38	U	0.38	U
5	Beryllium	0.15	B	0.14	B	0.13	B	0.10	B	0.13	B
6	Cadmium	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U
7	Calcium	-427.32	B	173.00	U	-184.28	B	173.00	U	258.69	B
8	Chromium	0.64	B	0.66	B	0.59	B	0.88	B	0.41	U
9	Cobalt	1.57	B	0.68	B	1.30	B	0.99	B	0.77	B
10	Copper	0.80	U	0.80	U	0.82	B	0.80	U	0.80	U
11	Iron	-27.74	B	-14.96	B	-15.45	B	5.25	B	28.91	B
12	Lead	0.70	U	0.70	U	0.70	U	0.70	U	-0.89	B
13	Magnesium	17.00	U	86.78	B	17.00	U	17.00	U	17.00	U
14	Manganese	0.34	B	0.34	U	0.40	B	0.36	B	0.76	B
15	Nickel	2.27	B	3.06	B	3.20	B	2.25	B	2.52	B
16	Selenium	2.80	U	2.80	U	2.80	U	2.80	U	-2.85	B
17	Silver	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U
18	Thallium	1.50	U	1.91	B	1.50	U	1.50	U	1.50	U
19	Vanadium	0.60	B	0.90	B	0.68	B	0.89	B	1.26	B
20	Zinc	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U
21	Molybdenum	0.27	U	0.27	U	0.45	B	0.27	U	0.27	U

012630

FORM-3 Metal

Applied P & Ch Laboratory

Metal ICB/CCB Summary

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026148	Sequence No.:	02M2368M
		Instrument:	ICP -M	Method:	6010B

Batch No.(s): 02M2369

Analysis Date: **11/21/02** Concentration Units: **UG/L**

#	Analyte	CCB Result	13:57 C	CCB Result	14:35 C	CCB Result	15:05 C	CCB Result	15:47 C	CCB Result	16:23 C
1	Aluminum	12.31	B	15.41	B	14.55	B	10.97	B	6.53	B
2	Antimony	2.30	U	2.30	U	2.30	U	2.30	U	2.30	U
3	Arsenic	1.60	U	1.60	U	1.60	U	1.60	U	1.60	U
4	Barium	0.70	B	0.66	B	0.38	U	0.56	B	0.65	B
5	Beryllium	0.19	B	0.21	B	0.13	B	0.24	B	0.19	B
6	Cadmium	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U
7	Calcium	173.00	U	173.00	U	173.00	U	-176.92	B	173.00	U
8	Chromium	0.57	B	0.76	B	0.41	U	0.41	U	0.59	B
9	Cobalt	1.89	B	1.13	B	0.46	U	1.16	B	0.64	B
10	Copper	0.92	B	0.80	U	0.80	U	0.94	B	0.80	U
11	Iron	9.99	B	-6.57	B	4.80	U	-24.71	B	16.60	B
12	Lead	0.70	U	0.70	U	0.70	U	0.70	U	0.70	U
13	Magnesium	17.00	U	17.00	U	-27.73	B	-32.43	B	-36.78	B
14	Manganese	0.98	B	0.55	B	0.45	B	0.58	B	0.72	B
15	Nickel	3.40	B	1.49	B	0.79	U	1.68	B	1.92	B
16	Selenium	2.80	U	2.80	U	2.80	U	-5.34	B	-2.82	B
17	Silver	0.42	U	0.42	U	0.42	U	0.42	U	0.68	B
18	Thallium	1.50	U	1.50	U	1.50	U	1.54	B	1.76	B
19	Vanadium	0.71	B	1.19	B	1.22	B	1.42	B	1.03	B
20	Zinc	3.60	B	2.53	B	2.10	U	2.10	U	2.64	B
21	Molybdenum	0.90	B	0.84	B	0.29	B	0.76	B	0.66	B

012631

FORM-3 Metal

Applied P & Ch Laboratory

Metal ICB/CCB Summary

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026148	Sequence No.:	02M2368M
		Instrument:	ICP -M	Method:	6010B
Batch No.(s):	02M2369				

Analysis Date: **11/21/02** Concentration Units: **UG/L**

#	Analyte	CCB Result	16:47 C	CCB Result	17:25 C	CCB Result	18:21 C	CCB Result	Time C	CCB Result	Time C
1	Aluminum	5.60	U	5.60	U	6.91	B				
2	Antimony	2.30	U	2.30	U	2.30	U				
3	Arsenic	1.60	U	1.60	U	1.60	U				
4	Barium	0.70	B	0.92	B	0.38	U				
5	Beryllium	0.20	B	0.20	B	0.09	B				
6	Cadmium	0.21	U	0.21	U	0.21	U				
7	Calcium	-187.67	B	-196.72	B	-224.63	B				
8	Chromium	0.41	U	0.41	U	0.75	B				
9	Cobalt	0.51	B	1.05	B	0.46	U				
10	Copper	0.80	U	0.80	U	1.47	B				
11	Iron	4.80	U	18.85	B	-5.70	B				
12	Lead	0.70	U	0.70	U	0.70	U				
13	Magnesium	-33.68	B	-45.26	B	17.00	U				
14	Manganese	0.57	B	0.77	B	0.34	U				
15	Nickel	1.59	B	2.20	B	1.86	B				
16	Selenium	-4.75	B	-3.30	B	2.80	U				
17	Silver	0.44	B	0.42	U	0.42	U				
18	Thallium	1.98	B	2.45	B	1.83	B				
19	Vanadium	0.73	B	0.99	B	1.01	B				
20	Zinc	2.10	U	2.10	U	4.94	B				
21	Molybdenum	0.62	B	0.65	B	0.27	U				

012632

FORM-3 Metal

Applied P & Ch Laboratory

Metal ICB/CCB Summary

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026148	Sequence No.:	02M2384H
		Instrument:	CV -H	Method:	7471A
Batch No.(s):	02M2386				

Analysis Date: **11/22/02**

Concentration Units: **UG/L**

#	Analyte	ICB Result	12:17 C	CCB Result	12:40 C	CCB Result	13:03 C	CCB Result	14:01 C	CCB Result	14:24 C
1	Mercury	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U

012633

FORM-3 Metal

Applied P & Ch Laboratory

Metal ICB/CCB Summary

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026148	Sequence No :	02M2384H
		Instrument:	CV -H	Method:	7471A
Batch No.(s):	02M2386				

Analysis Date: **11/22/02**

Concentration Units: **UG/L**

#	Analyte	CCB Result	14:46 C	CCB Result	15:21 C	CCB Result	15:44 C	CCB Result	16:07 C	CCB Result	16:26 C
1	Mercury	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U

012634

FORM-4 Metal

Applied P & Ch Laboratory

ICP Interference Check Sample

Client Name: CDM Federal Programs Corp
Project Name: San Miguel Island
Batch No.(s): 02M2369

Project No:
Service ID: 026148
ICP ID Number: ICP -M

Lab Code: APCL
Sequence No.: 02M2368M

Analysis Date: **11/21/02**

Concentration Units: **UG/L**

#	Analyte	Expected Sol. A	Expected Sol. AB	Initial 11:31 Sol. A	Found 11:34 Sol. AB	%R	Final 18:09 Sol. A	Found 18:12 Sol. AB	%R
1	Aluminum	500000	500000	493587	481459.2	96.3	514101	487876.8	97.6
2	Antimony	0	1000	2	957.5	95.7	2	986.6	98.7
3	Arsenic	0	1000	1	949.0	94.9	-5	975.3	97.5
4	Barium	0	500	4	519.8	104.0	4	529.0	105.8
5	Beryllium	0	500	0	481.1	96.2	0	497.8	99.6
6	Cadmium	0	1000	0	967.6	96.8	-1	998.7	99.9
7	Calcium	500000	500000	522495	504931.5	101.0	544079	523150.5	104.6
8	Chromium	0	500	4	499.4	99.9	4	507.1	101.4
9	Cobalt	0	500	4	467.0	93.4	4	480.8	96.2
10	Copper	0	500	1	491.1	98.2	7	514.7	102.9
11	Iron	200000	200000	185078	181986.7	91.0	191047	183511.5	91.8
12	Lead	0	1000	2	918.2	91.8	4	950.5	95.0
13	Magnesium	500000	500000	485792	474032.8	94.8	504296	481002.4	96.2
14	Manganese	0	500	0	486.0	97.2	0	502.3	100.5
15	Nickel	0	1000	5	904.0	90.4	1	931.2	93.1
16	Selenium	0	1000	-6	945.5	94.6	8	981.4	98.1
17	Silver	0	1000	-2	1014.7	101.5	-3	1036.8	103.7
18	Thallium	0	1000	0	888.4	88.8	5	916.7	91.7
19	Vanadium	0	500	-3	482.5	96.5	-2	490.1	98.0
20	Zinc	0	1000	-4	953.2	95.3	9	1006.8	100.7
21	Molybdenum	0	1000	2	936.7	93.7	1	967.1	96.7

012635

FORM-5A Metal

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 6010B

Client Name:	CDM Federal Programs Corp.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	026148
Project ID:	San Miguel Island	Project No:		Sample Matrix:	Soil
		Batch No:	02M2369M		
MS Filename:	-	Date Analyzed:	112102	Time Analyzed:	13:44
MSD Filename:	-	Date Analyzed:	112102	Time Analyzed:	13:47
MS Sample No:	**SMI-014-ASS**	Sample Lab ID:	0261481	Moisture, %	7.6

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
ANTIMONY	mg/kg	27.1	0	23.7	87	75-125
ARSENIC	mg/kg	27.1	3.4	30.9	101	75-125
BERYLLIUM	mg/kg	10.8	0.18	10.7	97	75-125
CADMIUM	mg/kg	13.5	0.16	13.9	102	75-125
CHROMIUM	mg/kg	54.1	13.6	64.7	94	75-125
COPPER	mg/kg	54.1	5.4	55.5	93	75-125
LEAD	mg/kg	162	3.7	154	93	75-125
NICKEL	mg/kg	54.1	8.5	59.6	94	75-125
SELENIUM	mg/kg	27.1	0.68	26.6	96	75-125
SILVER	mg/kg	54.1	0	53.6	99	75-125
THALLIUM	mg/kg	27.1	0.24	24.8	91	75-125
ZINC	mg/kg	27.1	109	130	77	75-125
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
ANTIMONY	mg/kg	27.1	23.4	86	1	20	75-125
ARSENIC	mg/kg	27.1	30.5	100	1	20	75-125
BERYLLIUM	mg/kg	10.8	10.7	97	0	20	75-125
CADMIUM	mg/kg	13.5	13.6	100	2	20	75-125
CHROMIUM	mg/kg	54.1	64.1	93	1	20	75-125
COPPER	mg/kg	54.1	55.2	92	1	20	75-125
LEAD	mg/kg	162	153	92	1	20	75-125
NICKEL	mg/kg	54.1	59.3	94	0	20	75-125
SELENIUM	mg/kg	27.1	26.3	95	1	20	75-125
SILVER	mg/kg	54.1	53.0	98	1	20	75-125
THALLIUM	mg/kg	27.1	24.0	88	3	20	75-125
ZINC	mg/kg	27.1	129	74 *	4	20	75-125
# of Out-of-control				1	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

FORM-5A Metal

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 7471A

Client Name:	CDM Federal Programs Corp.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	026148
Project ID:	San Miguel Island	Project No:		Sample Matrix:	Soil
		Batch No:	02M2386H		
MS Filename:	-	Date Analyzed:	112202	Time Analyzed:	15:34
MSD Filename:	-	Date Analyzed:	112202	Time Analyzed:	15:36
MS Sample No:	**SMI-014-ASS**	Sample Lab ID:	0261481	Moisture, %	7.6

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
MERCURY	mg/kg	0.903	0.098	1.01	101	75-125
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
MERCURY	mg/kg	0.903	0.968	96	5	20	75-125
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

FORM-5B Metal

Applied P & Ch Laboratory

Post Digest Spike Sample Recovery

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026148	Sequence No :	02M2368M
		Batch No :	02M2369	Method:	6010B
Spike Sample No. :	02-6148-01	Matrix:	SOIL	Instrument:	ICP -M
Client Sample No :	**SMI-014-ASS**	Analysis Date:	11/21/02		

Concentration Units: **UG/L**

#	Analyte	Spiked Sample Result(SSR)	13:50 C	Sample Result(SR)	13:35 C	Spike Added(SA)	% Rec.	Control Limit	Q
1	Aluminum	129439.5313		134373.3906		2000.00	-246.7		
2	Antimony	489.4355		-4.8405	U	500.00	97.9	75-125	
3	Arsenic	585.1586		63.5056		500.00	104.3	75-125	
4	Barium	4521.5669		687.5070		4000.00	95.9	75-125	
5	Beryllium	201.8807		3.2551	B	200.00	99.3	75-125	
6	Cadmium	264.2502		3.0071	B	250.00	104.5	75-125	
7	Calcium	1581872.5000		1652912.6250		20000.00	-355.2		
8	Chromium	1203.2144		250.3791		1000.00	95.3	75-125	
9	Cobalt	1058.5759		76.9037		1000.00	98.2	75-125	
10	Copper	1048.1500		99.2803		1000.00	94.9	75-125	
11	Iron	173096.5938		183422.5625		1000.00	-1032.6		
12	Lead	2901.3608		67.9297		3000.00	94.4	75-125	
13	Magnesium	95629.8516		90343.7734		10000.00	52.9		
14	Manganese	3469.7312		2631.3931		1000.00	83.8	75-125	
15	Nickel	1115.2860		157.1276		1000.00	95.8	75-125	
16	Selenium	498.0782		12.4961		500.00	97.1	75-125	
17	Silver	1018.0098		-3.7580	U	1000.00	101.8	75-125	
18	Thallium	476.3909		4.3769	B	500.00	94.4	75-125	
19	Vanadium	2300.1921		360.2187		2000.00	97.0	75-125	
20	Zinc	2492.6482		2020.9091		500.00	94.3		
21	Molybdenum	1998.3458		-3.8397	U	2000.00	99.9	75-125	

012638

FORM-5B Metal

Applied P & Ch Laboratory

Post Digest Spike Sample Recovery

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026148	Sequence No.:	02M2384H
		Batch No.:	02M2386	Method:	7471A
Spike Sample No. :	02-6148-01	Matrix:	SOIL	Instrument:	CV -H
Client Sample No.:	**SMI-014-ASS**	Analysis Date:	11/22/02		

Concentration Units: **UG/L**

#	Analyte	Spiked Sample Result(SSR)	15:38 C	Sample Result(SR)	15:29 C	Spike Added(SA)	% Rec.	Control Limit	Q
1	Mercury	5.4408		0.5409		5.00	98.0	75-125	

012639

FORM-6 Metal

Applied P & Ch Laboratory

Duplicates Verification

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026148	Sequence No.:	02M2368M
		Batch No :	02M2369	Method:	6010B
Spike Sample No.	02-6148-01	Matrix:	SOIL	Instrument:	ICP -M
Client Sample No.	**SMI-014-ASS**	% Solid:	92.37	Analysis Date:	11/21/02

Concentration Unit: **mg/Kg**

#	Analyte	13:35 Sample(s)	C	13:38 Duplicate	C	RPD(%)	Q
1	Aluminum	7273.6489		7335.5088		0.8	
2	Antimony	-0.2620	U	0.1784	B	200.0	
3	Arsenic	3.4376		3.8048		10.1	
4	Barium	37.2148		36.6752		1.5	
5	Beryllium	0.1762	B	0.1654	B	6.4	
6	Cadmium	0.1628	B	0.1761	B	7.8	
7	Calcium	89472.3672		88053.4844		1.6	
8	Chromium	13.5531		13.7459		1.4	
9	Cobalt	4.1628		4.2536		2.2	
10	Copper	5.3741		5.2278		2.8	
11	Iron	9928.6865		9900.7021		0.3	
12	Lead	3.6770		3.5544		3.4	
13	Magnesium	4890.3198		4867.0845		0.5	
14	Manganese	142.4376		142.8909		0.3	
15	Nickel	8.5053		8.5205		0.2	
16	Selenium	0.6764		-0.4329	U	200.0	
17	Silver	-0.2034	U	-0.2466	U		
18	Thallium	0.2369	B	-0.1379	U	200.0	
19	Vanadium	19.4987		19.0312		2.4	
20	Zinc	109.3921		109.5652		0.2	
21	Molybdenum	-0.2078	U	-0.3591	U		

012640

FORM-6 Metal

Applied P & Ch Laboratory

Duplicates Verification

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026148	Sequence No.:	02M2384H
		Batch No :	02M2386	Method:	7471A
Spike Sample No.	02-6148-01	Matrix:	SOIL	Instrument:	CV -H
Client Sample No.	**SMI-014-ASS**	% Solid:	92.37	Analysis Date:	11/22/02

Concentration Unit: **mg/Kg**

#	Analyte	15:29 Sample(s)	C	15:31 Duplicate	C	RPD(%)	Q
1	Mercury	0.0976		0.1041		6.4	

012641

FORM-7 Metal

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 6010B

Client Name:	CDM Federal Programs Corp.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	026148
Project ID:	San Miguel Island	Project No:		Sample Matrix:	Soil
		Batch No:	02M2369M		
LCS Filename:	-	Date Analyzed:	112102	Time Analyzed:	13:29
LCSD Filename:	-	Date Analyzed:	112102	Time Analyzed:	13:33

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
ANTIMONY	mg/kg	25	0	24.3	97	80-120
ARSENIC	mg/kg	25	0	25.3	101	80-120
BERYLLIUM	mg/kg	10	0	9.91	99	80-120
CADMIUM	mg/kg	12.5	0	13.1	105	80-120
CHROMIUM	mg/kg	50	0	51.0	102	80-120
COPPER	mg/kg	50	0	50.1	100	80-120
LEAD	mg/kg	150	0	156	104	80-120
NICKEL	mg/kg	50	0	53.1	106	80-120
SELENIUM	mg/kg	25	0	25.1	100	80-120
SILVER	mg/kg	50	0	49.6	99	80-120
THALLIUM	mg/kg	25	0	26.4	106	80-120
ZINC	mg/kg	25	0	26.6	106	80-120
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
ANTIMONY	mg/kg	25	24.2	97	0	20	80-120
ARSENIC	mg/kg	25	25.5	102	1	20	80-120
BERYLLIUM	mg/kg	10	9.83	98	1	20	80-120
CADMIUM	mg/kg	12.5	13.0	104	1	20	80-120
CHROMIUM	mg/kg	50	51.0	102	0	20	80-120
COPPER	mg/kg	50	50.1	100	0	20	80-120
LEAD	mg/kg	150	156	104	0	20	80-120
NICKEL	mg/kg	50	52.5	105	1	20	80-120
SELENIUM	mg/kg	25	25.0	100	0	20	80-120
SILVER	mg/kg	50	49.5	99	0	20	80-120
THALLIUM	mg/kg	25	26.4	106	0	20	80-120
ZINC	mg/kg	25	26.5	106	0	20	80-120
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

FORM-7 Metal

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 7471A

Client Name:	CDM Federal Programs Corp.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	026148
Project ID:	San Miguel Island	Project No:		Sample Matrix:	Soil
		Batch No:	02M2386H		
LCS Filename:	-	Date Analyzed:	112202	Time Analyzed:	15:25
LCSD Filename:	-	Date Analyzed:	112202	Time Analyzed:	15:27

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
MERCURY	mg/kg	0.833	0	0.786	94	80-120
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
MERCURY	mg/kg	0.833	0.788	95	1	20	80-120
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

FORM-9 Metal

Applied P & Ch Laboratory

ICP Serial Dilutions

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026148	Sequence No.:	02M2368M
		Batch No :	02M2369	Method:	6010B
Dilution Sample No.:	02-6148-01	Matrix:	SOIL	Instrument:	ICP -M
Client Sample No.:	**SMI-014-ASS**	Analysis Date:	11/21/02		

Concentration Units: **UG/L**

#	Analyte	Initial Sample Results(I)	13:35 C	Serial Dilut Results(S)	13:41 C	% Diff.	Q
1	Aluminum	134373.39		140971.50		4.9	
2	Antimony	-4.84	U	14.59	B		
3	Arsenic	63.51		54.20		14.6	
4	Barium	687.51		745.30		8.4	
5	Beryllium	3.26	B	3.24	B	0.5	
6	Cadmium	3.01	B	2.70	B	10.2	
7	Calcium	1652912.63		1708161.63		3.3	
8	Chromium	250.38		274.12		9.5	
9	Cobalt	76.90		87.90		14.3	E
10	Copper	99.28		90.39		9.0	
11	Iron	183422.56		203279.11		10.8	E
12	Lead	67.93		72.88		7.3	
13	Magnesium	90343.77		99143.21		9.7	
14	Manganese	2631.39		2897.31		10.1	
15	Nickel	157.13		176.71		12.5	E
16	Selenium	12.50		-2.44	U	100.0	
17	Silver	-3.76	U	-2.64	U		
18	Thallium	4.38	B	-6.33	U	100.0	
19	Vanadium	360.22		376.88		4.6	
20	Zinc	2020.91		2236.43		10.7	E
21	Molybdenum	-3.84	U	1.99	B		

012644

FORM-9 Metal

Applied P & Ch Laboratory

ICP Serial Dilutions

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026148	Sequence No.:	02M2384H
		Batch No.:	02M2386	Method:	7471A
Dilution Sample No.:	02-6148-01	Matrix:	SOIL	Instrument:	CV -H
Client Sample No.:	**SMI-014-ASS**	Analysis Date:	11/22/02		

Concentration Units: **UG/L**

#	Analyte	Initial Sample Results(I)	15:29 C	Serial Dilut Results(S)	15:32 C	% Diff.	Q
1	Mercury	0.54		0.53	B	2.2	

012645

FORM-13 Metal

Applied P & Ch Laboratory

Preparation Log

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026148	Sequence No.:	02M2368M
		Batch No.:	02M2369	Method:	6010B
Preparation Matrix:	SOIL	Instrument:	ICP -M		

#	Client Sample No.	APCL Sample No.	Preparation Date	Weight (gram)	Volume (ml)
1	SMI-014-ASS	02-6148-01DM	11/21/02	2.0	100.0
2	SMI-015-ASS	02-6148-02	11/21/02	2.0	100.0
3	SMI-017-ASS	02-6148-03	11/21/02	2.0	100.0
4	SMI-018-ASS	02-6148-04	11/21/02	2.0	100.0
5	SMI-019-ASS	02-6148-05	11/21/02	2.0	100.0
6	SMI-020-ASS	02-6148-06	11/21/02	2.0	100.0
7	SMI-021-ASS	02-6148-07	11/21/02	2.0	100.0
8	SMI-022-ASS	02-6148-08	11/21/02	2.0	100.0
9	SMI-023-CRS	02-6148-09	11/21/02	2.0	100.0
10	SMI-024-CRS	02-6148-10	11/21/02	2.0	100.0
11	SMI-026-BSS	02-6148-11	11/21/02	2.0	100.0
12	SMI-016-ASS	02-6148-12	11/21/02	2.0	100.0
13	SMI-319-ASS	02-6148-13	11/21/02	2.0	100.0
14	SMI-025-CRS	02-6148-14	11/21/02	2.0	100.0
15	SMI-326-BSS	02-6148-15	11/21/02	2.0	100.0
16	06-S-143	02-6233-01	11/21/02	2.0	100.0
17	06-S-144	02-6233-02	11/21/02	2.0	100.0
18		02M2369MB	11/21/02	2.0	100.0
19		02M2369LCS	11/21/02	2.0	100.0
20		02M2369LCSD	11/21/02	2.0	100.0
21	SMI-014-ASS Dup.	02M2369MD	11/21/02	2.0	100.0
22	SMI-014-ASS MS	02M2369MS	11/21/02	2.0	100.0
23	SMI-014-ASS MSD	02M2369MSD	11/21/02	2.0	100.0

012646

FORM-13 Metal

Applied P & Ch Laboratory

Preparation Log

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026148	Sequence No.:	02M2384H
		Batch No.:	02M2386	Method:	7471A
Preparation Matrix:	SOIL	Instrument:	CV -H		

#	Client Sample No.	APCL Sample No.	Preparation Date	Weight (gram)	Volume (ml)
1	SMI-014-ASS	02-6148-01M	11/22/02	0.6	100.0
2	SMI-015-ASS	02-6148-02	11/22/02	0.6	100.0
3	SMI-017-ASS	02-6148-03	11/22/02	0.6	100.0
4	SMI-018-ASS	02-6148-04	11/22/02	0.6	100.0
5	SMI-019-ASS	02-6148-05	11/22/02	0.6	100.0
6	SMI-020-ASS	02-6148-06	11/22/02	0.6	100.0
7	SMI-021-ASS	02-6148-07	11/22/02	0.6	100.0
8	SMI-022-ASS	02-6148-08	11/22/02	0.6	100.0
9	SMI-023-CRS	02-6148-09	11/22/02	0.6	100.0
10	SMI-024-CRS	02-6148-10	11/22/02	0.6	100.0
11	SMI-026-BSS	02-6148-11	11/22/02	0.6	100.0
12	SMI-016-ASS	02-6148-12	11/22/02	0.6	100.0
13	SMI-319-ASS	02-6148-13	11/22/02	0.6	100.0
14	SMI-025-CRS	02-6148-14	11/22/02	0.6	100.0
15	SMI-326-BSS	02-6148-15	11/22/02	0.6	100.0
16	27375 Ethanal	02-6269-01	11/22/02	0.6	100.0
17	055SO013	02-6284-01	11/22/02	0.6	100.0
18	055SO014	02-6284-02	11/22/02	0.6	100.0
19	055SO015	02-6284-03	11/22/02	0.6	100.0
20	055SO016	02-6284-04	11/22/02	0.6	100.0
21		02M2386MB	11/22/02	0.6	100.0
22		02M2386LCS	11/22/02	0.6	100.0
23		02M2386LCSD	11/22/02	0.6	100.0
24	SMI-014-ASS Dup.	02M2386MD	11/22/02	0.6	100.0
25	SMI-014-ASS MS	02M2386MS	11/22/02	0.6	100.0
26	SMI-014-ASS MSD	02M2386MSD	11/22/02	0.6	100.0

012647

FORM-14 Metal

Applied P & Ch Laboratory

Analysis Run Log

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026148	Sequence No.:	02M2368M
		Instrument:	ICP -M	Method:	6010B
Batch No.(s):	02M2369	Start Date:	11/21/02	End Date:	11/21/02

#	APCL Sample No.	D/F	Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Mo	Sr	Ti	Sn	Li	B	Si
1	Calib Blank	1.00	11:04	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
2	STD1 1346A	1.00	11:07	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
3	STD2 1346B	1.00	11:11	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
4	STD3 1346C	1.00	11:14	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
5	ICV 1379A	1.00	11:18	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
6	ICB	1.00	11:25	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
7	CRI A1415	1.00	11:28	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
8	ICSA 1362	1.00	11:31	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
9	ICSAB 1364	1.00	11:34	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
10	CCV 1379B	1.00	11:38	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
11	CCB	1.00	11:43	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
12	M-BL 02M2368S	1.00	11:47	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
13	LCS-02M2368	1.00	11:51	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
14	LCSD-02M2368	1.00	11:54	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
15	6141-1 S F=50	1.00	11:58	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
16	6141-1 D F=50	1.00	12:02	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
17	6141-1 1/5 F=25	5.00	12:05	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
18	6141-1 MS F=50	1.00	12:09	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
19	6141-1 MSD F=50	1.00	12:12	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
20	6141-1 PS F=50	1.00	12:16	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
21	CCV 1379B	1.00	12:20	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
22	CCB	1.00	12:25	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
23	6141-2 F=50	1.00	12:28	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
24	6141-3 F=50	1.00	12:30	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
25	6141-4 F=50	1.00	12:33	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
26	6141-5 F=50	1.00	12:37	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
27	6141-6 F=50	1.00	12:40	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
28	6141-7 F=50	1.00	12:43	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
29	6141-8 F=50	1.00	12:46	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
30	6141-9 F=50	1.00	12:48	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
31	6141-10 F=50	1.00	12:51	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
32	CCV 1379B	1.00	12:55	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
33	CCB	1.00	13:00	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
34	6141-11 F=50	1.00	13:03	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
35	6141-12 F=50	1.00	13:05	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
36	6141-13 F=50	1.00	13:08	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
37	6141-14 F=50	1.00	13:11	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
38	6141-15 F=50	1.00	13:14	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
39	CCV 1379B	1.00	13:17	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
40	CCB	1.00	13:22	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						

FORM-14 Metal

Applied P & Ch Laboratory

Analysis Run Log

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026148	Sequence No.:	02M2368M
		Instrument:	ICP -M	Method:	6010B
Batch No.(s):	02M2369	Start Date:	11/21/02	End Date:	11/21/02

#	APCL Sample No.	D/F	Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Mo	Sr	Ti	Sn	Li	B	Si
41	M-BL 02M2369S	1.00	13:26	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
42	LCS-02M2369	1.00	13:29	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
43	LCSD-02M2369	1.00	13:33	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
44	6148-1 S F=50	1.00	13:35	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
45	6148-1 D F=50	1.00	13:38	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
46	6148-1 1/5 F=25	5.00	13:41	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
47	6148-1 MS F=50	1.00	13:44	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
48	6148-1 MSD F=50	1.00	13:47	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
49	6148-1 PS F=50	1.00	13:50	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
50	CCV 1379B	1.00	13:53	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
51	CCB	1.00	13:57	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
52	6148-2 F=50	1.00	13:59	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
53	6148-3 F=50	1.00	14:03	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
54	6148-4 F=50	1.00	14:07	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
55	6148-5 F=50	1.00	14:10	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
56	6148-6 F=50	1.00	14:14	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
57	6148-7 F=50	1.00	14:17	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
58	6148-8 F=50	1.00	14:21	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
59	6148-9 F=50	1.00	14:24	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
60	6148-10 F=50	1.00	14:28	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
61	CCV 1379B	1.00	14:32	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
62	CCB	1.00	14:35	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
63	6148-11 F=50	1.00	14:38	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
64	6148-12 F=50	1.00	14:41	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
65	6148-13 F=50	1.00	14:45	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
66	6148-14 F=50	1.00	14:48	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
67	6148-15 F=50	1.00	14:52	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
68	6233-1 F=50	1.00	14:54	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
69	6233-2 F=50	1.00	14:57	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
70	CCV 1379B	1.00	15:01	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
71	CCB	1.00	15:05	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
72	M-BL 02M2370S	1.00	15:08	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
73	LCS-02M2370	1.00	15:12	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
74	LCSD-02M2370	1.00	15:15	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
75	6149-1 S F=50	1.00	15:19	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
76	6149-1 D F=50	1.00	15:22	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
77	6149-1 1/5 F=25	5.00	15:26	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
78	6149-1 MS F=50	1.00	15:29	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
79	6149-1 MSD F=50	1.00	15:33	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
80	6149-1 PS F=50	1.00	15:36	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						

FORM-14 Metal

Applied P & Ch Laboratory

Analysis Run Log

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026148	Sequence No.:	02M2368M
		Instrument:	ICP -M	Method:	6010B
Batch No.(s):	02M2369	Start Date:	11/21/02	End Date:	11/21/02

#	APCL Sample No.	D/F	Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Mo	Sr	Ti	Sn	Li	B	Si
81	6149-2 F=50	1.00	15:40	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
82	CCV 1379B	1.00	15:43	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
83	CCB	1.00	15:47	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
84	6149-3 F=50	1.00	15:49	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
85	6149-4 F=50	1.00	15:52	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
86	6149-5 F=50	1.00	15:56	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
87	6149-6 F=50	1.00	15:59	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
88	6149-7 F=50	1.00	16:03	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
89	6149-8 F=50	1.00	16:05	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
90	6149-9 F=50	1.00	16:08	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
91	6149-10 F=50	1.00	16:11	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
92	6149-11 F=50	1.00	16:13	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
93	6149-12 F=50	1.00	16:16	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
94	CCV 1379B	1.00	16:20	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
95	CCB	1.00	16:23	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
96	6149-13 F=50	1.00	16:26	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
97	6149-14 F=50	1.00	16:29	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
98	6149-15 F=50	1.00	16:32	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
99	6149-16 F=50	1.00	16:36	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
100	CCV 1379B	1.00	16:43	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
101	CCB	1.00	16:47	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
102	M-BL 02M2376S	1.00	16:50	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
103	LCS-02M2376	1.00	16:54	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
104	LCSD-02M2376	1.00	16:57	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
105	6252-6 S F=50	1.00	17:00	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
106	6252-6 D F=50	1.00	17:03	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
107	6252-6 1/5 F=25	5.00	17:06	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
108	6252-6 MS F=50	1.00	17:09	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
109	6252-6 MSD F=50	1.00	17:12	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
110	6252-6 PS F=50	1.00	17:15	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
111	6252-5 F=50	1.00	17:18	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
112	CCV 1379B	1.00	17:22	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
113	CCB	1.00	17:25	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
114	6252-4 F=50	1.00	17:28	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
115	6252-3 F=50	1.00	17:31	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
116	6252-2 F=50	1.00	17:34	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
117	6252-1 F=50	1.00	17:37	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
118	6232-1 F=50	1.00	17:41	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
119	6225-1 F=50	1.00	17:43	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
120	6228-1 F=250	5.00	17:46	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						

FORM-14 Metal

Applied P & Ch Laboratory

Analysis Run Log

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026148	Sequence No.:	02M2368M
		Instrument:	ICP -M	Method:	6010B
Batch No.(s):	02M2369	Start Date:	11/21/02	End Date:	11/21/02

#	APCL Sample No.	D/F	Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Mo	Sr	Ti	Sn	Li	B	Si
121	6228-2 F=50	1.00	17:50	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
122	6228-1 F=25000	500.00	18:03	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
123	6228-2 F=25000	500.00	18:06	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
124	ICSA 1362	1.00	18:09	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
125	ICSAB 1364	1.00	18:12	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
126	CCV 1379B	1.00	18:16	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
127	CCB	1.00	18:21	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
128	DLC A1314	1.00	18:25	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						

FORM-14 Metal

Applied P & Ch Laboratory

Analysis Run Log

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026148	Sequence No.:	02M2384H
		Instrument:	CV -H	Method:	7471A
Batch No.(s):	02M2386	Start Date:	11/22/02	End Date:	11/22/02

#	APCL Sample No.	D/F	Time	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Hg Ni K Se Ag Na Tl V Zn Mo Sr Ti Sn Li B Si
1	Calib Blank	1.00	11:21	√
2	A1411 0.2PPB	1.00	11:23	√
3	A1411 1PPB	1.00	11:25	√
4	A1411 5PPB	1.00	11:27	√
5	A1411 7.5PPB	1.00	11:28	√
6	A1411 10PPB	1.00	11:30	√
7	ICV A1412	1.00	12:16	√
8	ICB	1.00	12:17	√
9	M-BL 02M2384S	1.00	12:19	√
10	LCS-02M2384	1.00	12:21	√
11	LCSD-02M2384	1.00	12:23	√
12	6141-1 S F=166.	1.00	12:25	√
13	6141-1 D F=166.	1.00	12:27	√
14	6141-1 1/5 F=83	5.00	12:29	√
15	6141-1 MS F=166	1.00	12:31	√
16	6141-1 MSD F=16	1.00	12:33	√
17	6141-1 PS F=166	1.00	12:35	√
18	6141-2 F=166.7	1.00	12:37	√
19	CCV A1413	1.00	12:39	√
20	CCB	1.00	12:40	√
21	6141-3 F=166.7	1.00	12:42	√
22	6141-4 F=166.7	1.00	12:44	√
23	6141-5 F=166.7	1.00	12:46	√
24	6141-6 F=166.7	1.00	12:48	√
25	6141-7 F=166.7	1.00	12:50	√
26	6141-8 F=166.7	1.00	12:52	√
27	6141-9 F=166.7	1.00	12:54	√
28	6141-10 F=166.7	1.00	12:56	√
29	6141-11 F=166.7	1.00	12:58	√
30	6141-12 F=166.7	1.00	13:00	√
31	CCV A1413	1.00	13:01	√
32	CCB	1.00	13:03	√
33	6141-13 F=166.7	1.00	13:05	√
34	6141-14 F=166.7	1.00	13:07	√
35	6141-15 F=166.7	1.00	13:09	√
36	6219-1 F=166.7	1.00	13:11	√
37	6252-5 F=166.7	1.00	13:13	√
38	6252-6 F=166.7	1.00	13:15	√
39	CCV A1413	1.00	13:59	√
40	CCB	1.00	14:01	√

FORM-14 Metal

Applied P & Ch Laboratory

Analysis Run Log

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026148	Sequence No.:	02M2384H
		Instrument:	CV -H	Method:	7471A
Batch No (s):	02M2386	Start Date:	11/22/02	End Date:	11/22/02

#	APCL Sample No.	D/F	Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Mo	Sr	Ti	Sn	Li	B	Si
41	M-BL 02M2385S	1.00	14:02															√															
42	LCS-02M2385	1.00	14:04															√															
43	LCSD-02M2385	1.00	14:06															√															
44	6149-1 S F=166.	1.00	14:08															√															
45	6149-1 D F=166.	1.00	14:10															√															
46	6149-1 1/5 F=83	5.00	14:12															√															
47	6149-1 MS F=166	1.00	14:14															√															
48	6149-1 MSD F=16	1.00	14:16															√															
49	6149-1 PS F=166	1.00	14:18															√															
50	6149-2 F=166.7	1.00	14:20															√															
51	CCV A1413	1.00	14:22															√															
52	CCB	1.00	14:24															√															
53	6149-3 F=166.7	1.00	14:25															√															
54	6149-4 F=166.7	1.00	14:27															√															
55	6149-5 F=166.7	1.00	14:29															√															
56	6149-6 F=166.7	1.00	14:31															√															
57	6149-7 F=166.7	1.00	14:33															√															
58	6149-8 F=166.7	1.00	14:35															√															
59	6149-9 F=166.7	1.00	14:37															√															
60	6149-10 F=166.7	1.00	14:39															√															
61	6149-11 F=166.7	1.00	14:41															√															
62	6149-12 F=166.7	1.00	14:43															√															
63	CCV A1413	1.00	14:44															√															
64	CCB	1.00	14:46															√															
65	6149-13 F=166.7	1.00	14:48															√															
66	6149-14 F=166.7	1.00	14:50															√															
67	6149-15 F=166.7	1.00	14:52															√															
68	6149-16 F=166.7	1.00	14:54															√															
69	6252-1 F=166.7	1.00	14:56															√															
70	6252-2 F=166.7	1.00	14:58															√															
71	6252-3 F=166.7	1.00	15:00															√															
72	6252-4 F=166.7	1.00	15:02															√															
73	CCV A1413	1.00	15:19															√															
74	CCB	1.00	15:21															√															
75	M-BL 02M2386S	1.00	15:23															√															
76	LCS-02M2386	1.00	15:25															√															
77	LCSD-02M2386	1.00	15:27															√															
78	6148-1 S F=166.	1.00	15:29															√															
79	6148-1 D F=166.	1.00	15:31															√															
80	6148-1 1/5 F=83	5.00	15:32															√															

FORM-14 Metal

Applied P & Ch Laboratory

Analysis Run Log

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026148	Sequence No :	02M2384H
		Instrument:	CV -H	Method:	7471A
Batch No (s):	02M2386	Start Date:	11/22/02	End Date:	11/22/02

#	APCL Sample No.	D/F	Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Mo	Sr	Ti	Sn	Li	B	Si
81	6148-1 MS F=166	1.00	15:34															√															
82	6148-1 MSD F=16	1.00	15:36															√															
83	6148-1 PS F=166	1.00	15:38															√															
84	6148-2 F=166.7	1.00	15:40															√															
85	CCV A1413	1.00	15:42															√															
86	CCB	1.00	15:44															√															
87	6148-3 F=166.7	1.00	15:46															√															
88	6148-4 F=166.7	1.00	15:48															√															
89	6148-5 F=166.7	1.00	15:50															√															
90	6148-6 F=166.7	1.00	15:52															√															
91	6148-7 F=166.7	1.00	15:54															√															
92	6148-8 F=166.7	1.00	15:55															√															
93	6148-9 F=166.7	1.00	15:57															√															
94	6148-10 F=166.7	1.00	15:59															√															
95	6148-11 F=166.7	1.00	16:01															√															
96	6148-12 F=166.7	1.00	16:03															√															
97	CCV A1413	1.00	16:05															√															
98	CCB	1.00	16:07															√															
99	6148-13 F=166.7	1.00	16:09															√															
100	6148-14 F=166.7	1.00	16:10															√															
101	6148-15 F=166.7	1.00	16:12															√															
102	6269-1 F=166.7	1.00	16:14															√															
103	6284-1 F=166.7	1.00	16:16															√															
104	6284-2 F=166.7	1.00	16:18															√															
105	6284-3 F=166.7	1.00	16:20															√															
106	6284-4 F=166.7	1.00	16:22															√															
107	CCV A1413	1.00	16:24															√															
108	CCB	1.00	16:26															√															

MERCURY RAW DATA

02M2384H
02M2385
02M2386

CALIBRATION REPORT FOR HG

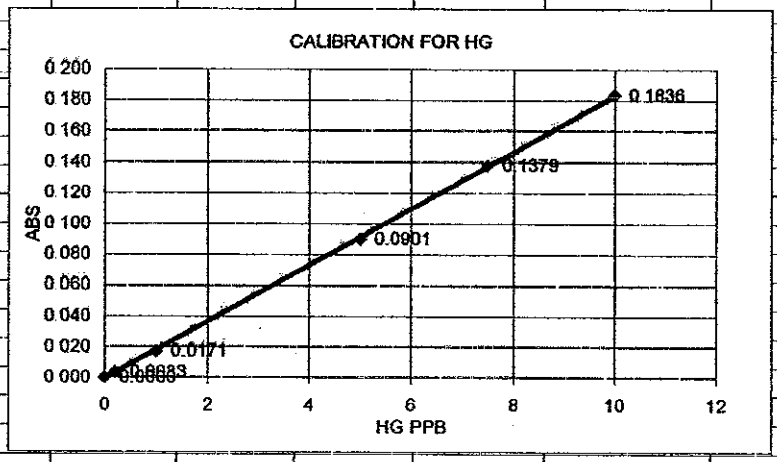
Add Hg

HG PPB	ABS	HG PPB	SLOPE	R
0	0.0000	0.000	*0.01831*	0.99991
0.2	0.0033	0.179		
1	0.0171	0.936		
5	0.0901	4.920		
7.5	0.1379	7.530		
10	0.1836	10.023		

Instrument: H

Method Description: 7470A/7471A/245.2

Analyst: Xi



Sample_ID	EL	Sam_Date	Sam_Time	ABS	HG PB	Sam-Hg PPB	F
Calib Blank	Hg	11/22/02	11:21:19	0			1
A1411 0.2PPB	Hg	11/22/02	11:23:12	0.003276			1
A1411 1PPB	Hg	11/22/02	11:25:06	0.017149			1
A1411 5PPB	Hg	11/22/02	11:27:00	0.090107			1
A1411 7.5PPB	Hg	11/22/02	11:28:57	0.137912			1
A1411 10PPB	Hg	11/22/02	11:30:53	0.183562			1
ICV A1412	Hg	11/22/02	12:16:03	0.14004	7.646472	7.64647201	1
ICB	Hg	11/22/02	12:17:58	-5.16E-05	-0.0028178	-0.0028178	1
M-BL 02M2384S	Hg	11/22/02	12:19:50	-6.52E-05	-0.0035641	-0.5941488	166.69
LCS-02M2384	Hg	11/22/02	12:21:44	0.09564	5.2221409	870.530864	166.69
LCSD-02M2384	Hg	11/22/02	12:23:38	0.095691	5.2248958	870.990115	166.69
6141-1 S F=166.7	Hg	11/22/02	12:25:32	0.003096	0.1690327	28.1777524	166.69
6141-1 D F=166.7	Hg	11/22/02	12:27:27	0.003031	0.1655053	27.589734	166.69
6141-1 1/5 F=833.5	Hg	11/22/02	12:29:24	0.00067	0.0366087	30.5133235	833.5
6141-1 MS F=166.7	Hg	11/22/02	12:31:22	0.089459	4.8846124	814.264877	166.69
6141-1 MSD F=166.7	Hg	11/22/02	12:33:21	0.090575	4.9455624	824.425236	166.69
6141-1 PS F=166.7	Hg	11/22/02	12:35:16	0.09238	5.0441115	840.853373	166.69
6141-2 F=166.7	Hg	11/22/02	12:37:08	0.002508	0.1369657	22.8321856	166.69
CCV A1413	Hg	11/22/02	12:39:03	0.093922	5.1283287	5.1283287	1
CCB	Hg	11/22/02	12:40:58	3.11E-05	0.0016971	0.00169707	1
6141-3 F=166.7	Hg	11/22/02	12:42:51	0.003003	0.163965	27.3329585	166.69
6141-4 F=166.7	Hg	11/22/02	12:44:44	0.002024	0.1105116	18.4222757	166.69
6141-5 F=166.7	Hg	11/22/02	12:46:37	0.001692	0.0924089	15.4045626	166.69
6141-6 F=166.7	Hg	11/22/02	12:48:30	0.001591	0.0868977	14.4858523	166.69
6141-7 F=166.7	Hg	11/22/02	12:50:24	0.003167	0.1729242	28.8264717	166.69
6141-8 F=166.7	Hg	11/22/02	12:52:19	0.003081	0.1682364	28.0450075	166.69
6141-9 F=166.7	Hg	11/22/02	12:54:14	0.002432	0.1327904	22.1361624	166.69
6141-10 F=166.7	Hg	11/22/02	12:56:08	0.003863	0.2109199	35.1603495	166.69

6141-11 F=166.7	Hg	11/22/02	12:58:03	0.002645	0.1444224	24.0752185	166.69	
6141-12 F=166.7	Hg	11/22/02	13:00:00	0.002991	0.1633011	27.2222867	166.69	
CCV A1413	Hg	11/22/02	13:01:59	0.095044	5.1896086	5.18960859	1	
CCB	Hg	11/22/02	13:03:54	-9.9E-06	-0.0005441	-0.0005441	1	
6141-13 F=166.7	Hg	11/22/02	13:05:49	0.00495	0.2702697	45.0539583	166.69	
6141-14 F=166.7	Hg	11/22/02	13:07:46	0.004345	0.2372569	39.5507177	166.69	
6141-15 F=166.7	Hg	11/22/02	13:09:44	0.004762	0.2600024	43.3424066	166.69	
6219-1 F=166.7	Hg	11/22/02	13:11:38	0.00094	0.0513463	8.55943434	166.69	
6252-5 F=166.7	Hg	11/22/02	13:13:29	0.003529	0.1927088	32.1245603	166.69	
6252-6 F=166.7	Hg	11/22/02	13:15:20	0.000898	0.0490288	8.17309707	166.69	
CCV A1413	Hg	11/22/02	13:59:11	0.09561	5.2205142	5.22051419	1	
CCB	Hg	11/22/02	14:01:06	2.77E-05	0.001512	0.00151199	1	
M-BL 02M2385S	Hg	11/22/02	14:02:58	-1.18E-05	-0.0006474	-0.1079238	166.69	
LCS-02M2385	Hg	11/22/02	14:04:51	0.090748	4.9550316	826.00376	166.69	
LCSD-02M2385	Hg	11/22/02	14:06:45	0.090365	4.9341107	822.516244	166.69	
6149-1 S F=166.7	Hg	11/22/02	14:08:38	0.003458	0.1888047	31.4737366	166.69	
6149-1 D F=166.7	Hg	11/22/02	14:10:31	0.003456	0.1886897	31.4545679	166.69	
6149-1 1/5 F=833.5	Hg	11/22/02	14:12:26	0.000712	0.0388624	32.3918444	833.5	
6149-1 MS F=166.7	Hg	11/22/02	14:14:21	0.096314	5.2589284	876.663347	166.69	
6149-1 MSD F=166.7	Hg	11/22/02	14:16:17	0.09253	5.0523235	842.222311	166.69	
6149-1 PS F=166.7	Hg	11/22/02	14:18:13	0.094463	5.1578731	859.817429	166.69	
6149-2 F=166.7	Hg	11/22/02	14:20:10	0.002273	0.1241103	20.6891861	166.69	
CCV A1413	Hg	11/22/02	14:22:08	0.092711	5.062203	5.06220301	1	
CCB	Hg	11/22/02	14:24:04	-1.52E-05	-0.0008317	-0.0008317	1	
6149-3 F=166.7	Hg	11/22/02	14:25:58	0.003901	0.2130102	35.5087956	166.69	
6149-4 F=166.7	Hg	11/22/02	14:27:56	0.001912	0.1044158	17.4061124	166.69	
6149-5 F=166.7	Hg	11/22/02	14:29:53	0.004373	0.2387891	39.806139	166.69	
6149-6 F=166.7	Hg	11/22/02	14:31:47	0.002624	0.1432524	23.8801664	166.69	
6149-7 F=166.7	Hg	11/22/02	14:33:38	0.001384	0.0755935	12.6014434	166.69	
6149-8 F=166.7	Hg	11/22/02	14:35:30	0.003737	0.2040581	34.0164819	166.69	
6149-9 F=166.7	Hg	11/22/02	14:37:21	0.002529	0.1380804	23.0180073	166.69	
6149-10 F=166.7	Hg	11/22/02	14:39:14	0.004003	0.2185516	36.4325477	166.69	
6149-11 F=166.7	Hg	11/22/02	14:41:07	0.002241	0.1223591	20.3972564	166.69	
6149-12 F=166.7	Hg	11/22/02	14:43:00	0.002421	0.1321859	22.0353907	166.69	
CCV A1413	Hg	11/22/02	14:44:57	0.093295	5.0940581	5.09405812	1	
CCB	Hg	11/22/02	14:46:52	3.71E-06	0.000203	0.00020298	1	
6149-13 F=166.7	Hg	11/22/02	14:48:44	0.005606	0.3061241	51.0308782	166.69	
6149-14 F=166.7	Hg	11/22/02	14:50:36	0.003331	0.1818675	30.317305	166.69	
6149-15 F=166.7	Hg	11/22/02	14:52:31	0.002279	0.1244454	20.745056	166.69	
6149-16 F=166.7	Hg	11/22/02	14:54:26	0.002777	0.1516134	25.2739515	166.69	
6252-1 F=166.7	Hg	11/22/02	14:56:22	0.004164	0.2273524	37.8996368	166.69	
6252-2 F=166.7	Hg	11/22/02	14:58:18	0.000842	0.0459786	7.66462626	166.69	
6252-3 F=166.7	Hg	11/22/02	15:00:15	0.006192	0.3380914	56.3598396	166.69	
6252-4 F=166.7	Hg	11/22/02	15:02:11	0.003494	0.1907794	31.8029175	166.69	
CCV A1413	Hg	11/22/02	15:19:58	0.096206	5.2530328	5.25303282	1	
CCB	Hg	11/22/02	15:21:53	5.69E-06	0.0003111	0.00031113	1	
M-BL 02M2386S	Hg	11/22/02	15:23:43	-3.93E-05	-0.0021462	-0.3577753	166.69	
LCS-02M2386	Hg	11/22/02	15:25:34	0.086361	4.7154706	786.068933	166.69	
LCSD-02M2386	Hg	11/22/02	15:27:26	0.086604	4.7287594	788.284183	166.69	
6148-1 S F=166.7	Hg	11/22/02	15:29:16	0.009906	0.5408683	90.1627511	166.69	
6148-1 D F=166.7	Hg	11/22/02	15:31:07	0.010562	0.5767322	96.1412625	166.69	
6148-1 1/5 F=833.5	Hg	11/22/02	15:32:59	0.001938	0.1058185	88.1997046	833.5	
6148-1 MS F=166.7	Hg	11/22/02	15:34:52	0.102421	5.5923559	932.245713	166.69	
6148-1 MSD F=166.7	Hg	11/22/02	15:36:46	0.098208	5.3623432	893.9026	166.69	
6148-1 PS F=166.7	Hg	11/22/02	15:38:39	0.099631	5.4400678	906.859293	166.69	
6148-2 F=166.7	Hg	11/22/02	15:40:33	0.008246	0.4502616	75.0586113	166.69	
CCV A1413	Hg	11/22/02	15:42:30	0.089702	4.8978946	4.89789456	1	
CCB	Hg	11/22/02	15:44:25	4.63E-06	0.0002531	0.00025312	1	
6148-3 F=166.7	Hg	11/22/02	15:46:19	0.00307	0.1676138	27.9412275	166.69	

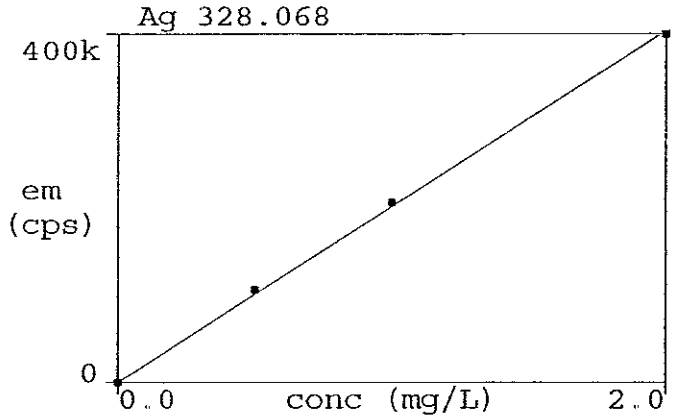
6148-4 F=166.7	Hg	11/22/02	15:48:15	0.002353	0.128457	21.41378	166.69	
6148-5 F=166.7	Hg	11/22/02	15:50:10	0.004326	0.236205	39.3753726	166.69	
6148-6 F=166.7	Hg	11/22/02	15:52:06	0.003311	0.1807641	30.1333821	166.69	
6148-7 F=166.7	Hg	11/22/02	15:54:03	0.002282	0.1245828	20.7679535	166.69	
6148-8 F=166.7	Hg	11/22/02	15:55:56	0.002433	0.1328324	22.1431602	166.69	
6148-9 F=166.7	Hg	11/22/02	15:57:47	0.001931	0.1054168	17.5729837	166.69	
6148-10 F=166.7	Hg	11/22/02	15:59:38	0.004119	0.2248897	37.4891199	166.69	
6148-11 F=166.7	Hg	11/22/02	16:01:29	0.002599	0.1419155	23.657317	166.69	
6148-12 F=166.7	Hg	11/22/02	16:03:20	0.007273	0.3970995	66.1964891	166.69	
CCV A1413	Hg	11/22/02	16:05:17	0.089775	4.9019084	4.9019084	1	
CCB	Hg	11/22/02	16:07:13	-4.4E-06	-0.0002418	-0.0002418	1	
6148-13 F=166.7	Hg	11/22/02	16:09:06	0.002855	0.1558967	25.9879809	166.69	
6148-14 F=166.7	Hg	11/22/02	16:10:59	0.003451	0.1884472	31.4141548	166.69	
6148-15 F=166.7	Hg	11/22/02	16:12:52	0.001282	0.0700156	11.6715995	166.69	
6269-1 F=166.7	Hg	11/22/02	16:14:47	0.001007	0.0549662	9.16287248	166.69	
6284-1 F=166.7	Hg	11/22/02	16:16:41	0.000734	0.0400815	6.68158373	166.69	
6284-2 F=166.7	Hg	11/22/02	16:18:35	0.004596	0.2509647	41.8358166	166.69	
6284-3 F=166.7	Hg	11/22/02	16:20:30	0.005582	0.3048027	50.8106027	166.69	
6284-4 F=166.7	Hg	11/22/02	16:22:25	0.001017	0.0555269	9.25633805	166.69	
CCV A1413	Hg	11/22/02	16:24:23	0.089369	4.879743	4.87974304	1	
CCB	Hg	11/22/02	16:26:18	-5E-07	-0.0000288	-0.0000288	1	

ICP RAW DATA

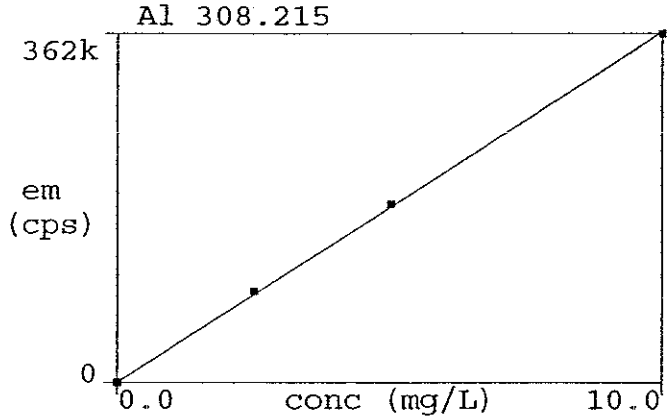
012659

Calibration

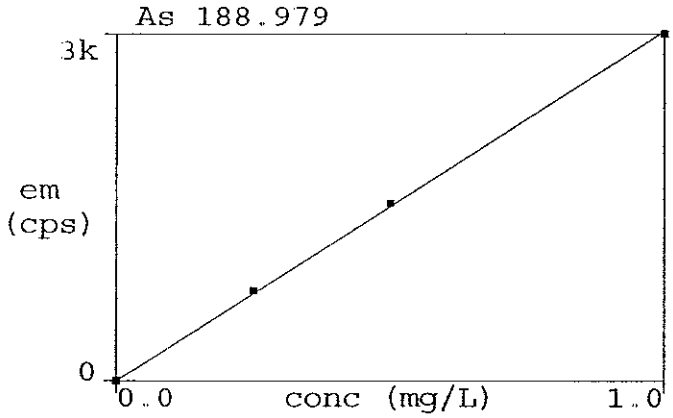
Method: TTLC
Result: 02M2368M



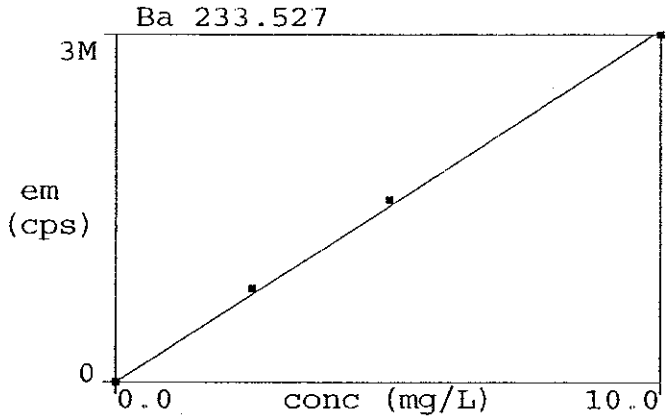
Calib.Eq'n: Linear-thru-Zero
1 Corr. Coeff.: 0.9996



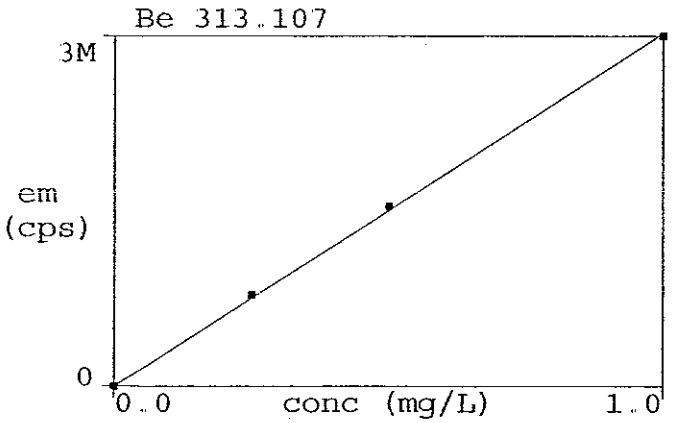
Calib.Eq'n: Linear-thru-Zero
2 Corr. Coeff.: 0.9998



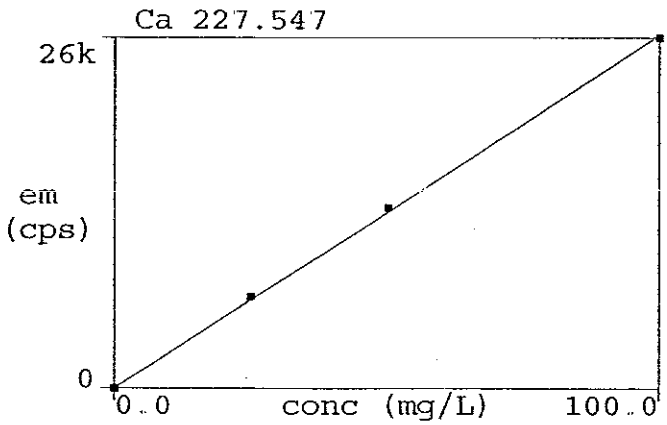
Calib.Eq'n: Linear-thru-Zero
3 Corr. Coeff.: 0.9998



Calib.Eq'n: Linear-thru-Zero
4 Corr. Coeff.: 0.9993



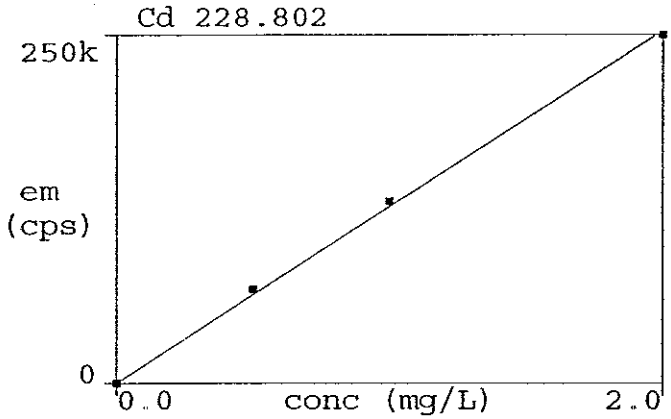
Calib.Eq'n: Linear-thru-Zero
5 Corr. Coeff.: 0.9998



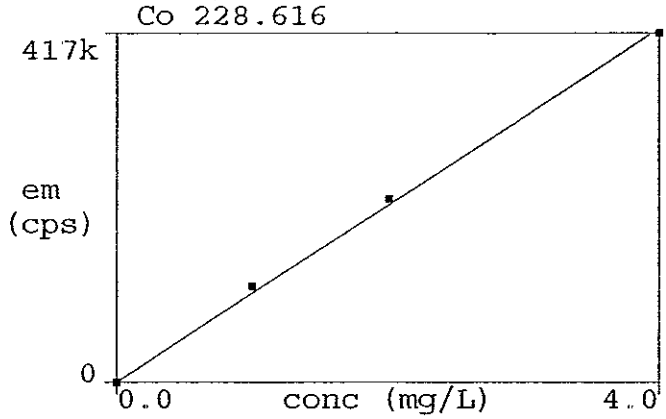
Calib.Eq'n: Linear-thru-Zero
6 Corr. Coeff.: 0.9997

Calibration

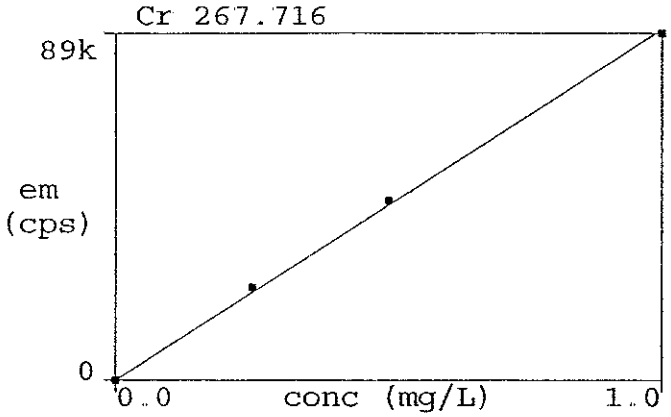
Method: TTLC
Result: 02M2368M



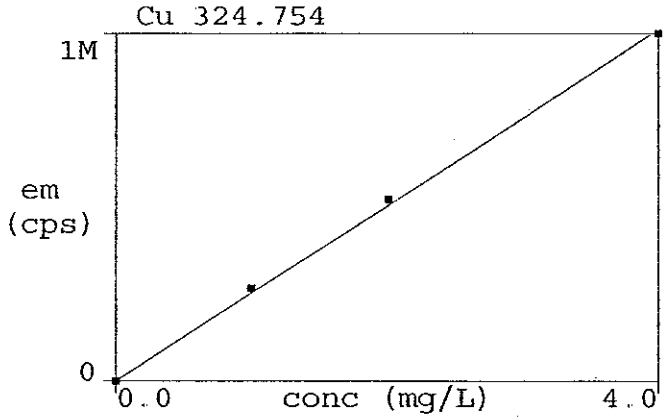
Calib.Eq'n: Linear-thru-Zero
7 Corr. Coeff.: 0.9994



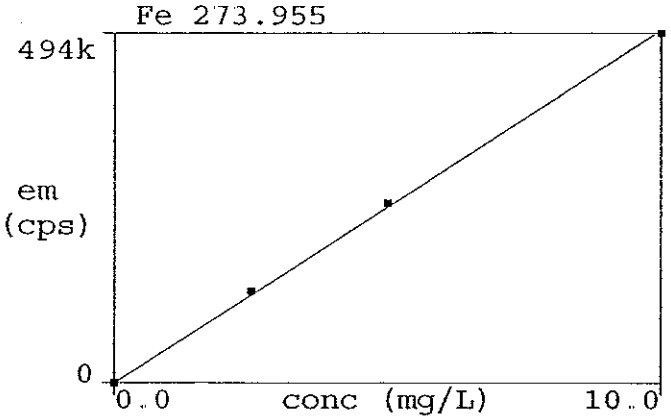
Calib.Eq'n: Linear-thru-Zero
8 Corr. Coeff.: 0.9992



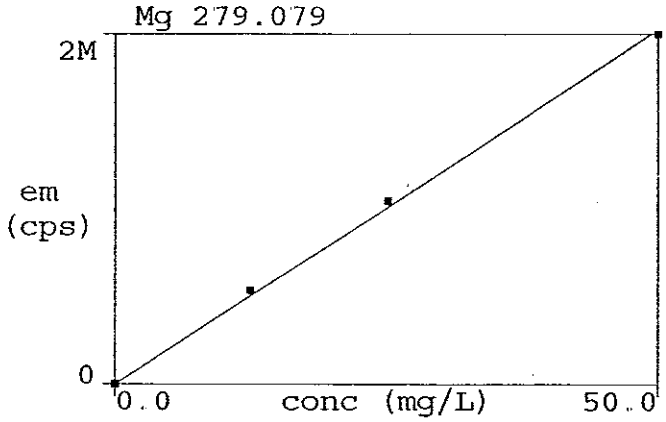
Calib.Eq'n: Linear-thru-Zero
9 Corr. Coeff.: 0.9995



Calib.Eq'n: Linear-thru-Zero
10 Corr. Coeff.: 0.9994



Calib.Eq'n: Linear-thru-Zero
11 Corr. Coeff.: 0.9997

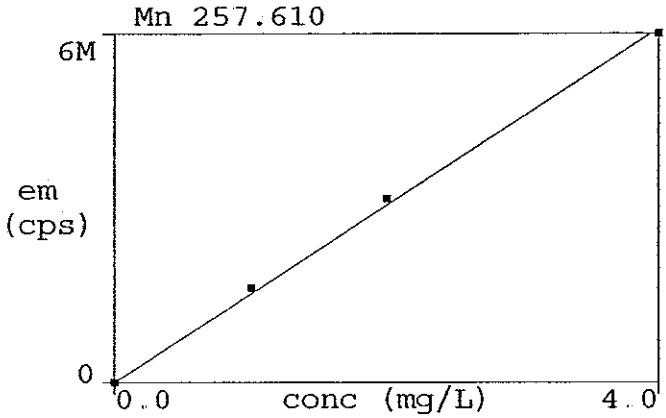


Calib.Eq'n: Linear-thru-Zero
12 Corr. Coeff.: 0.9993

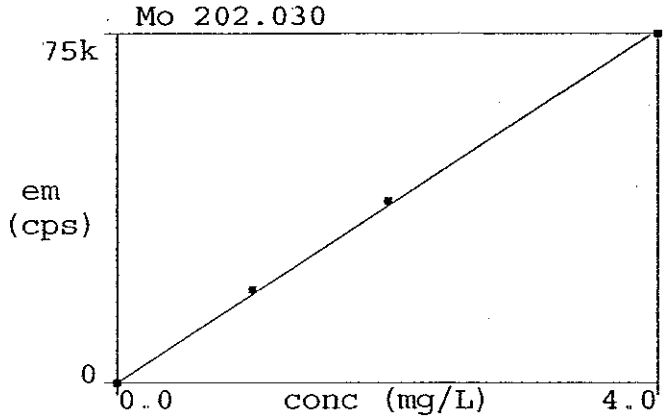
012661

Calibration

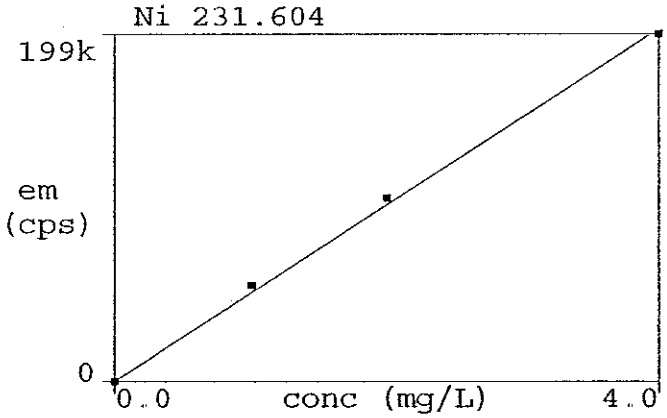
Method: TTLC
Result: 02M2368M



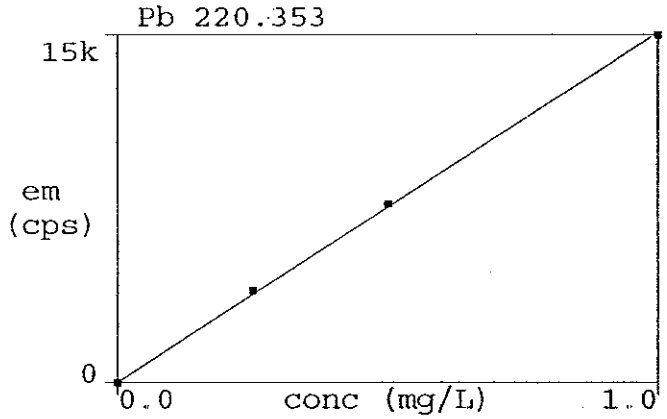
Calib.Eq'n: Linear-thru-Zero
13 Corr. Coeff.: 0.9992



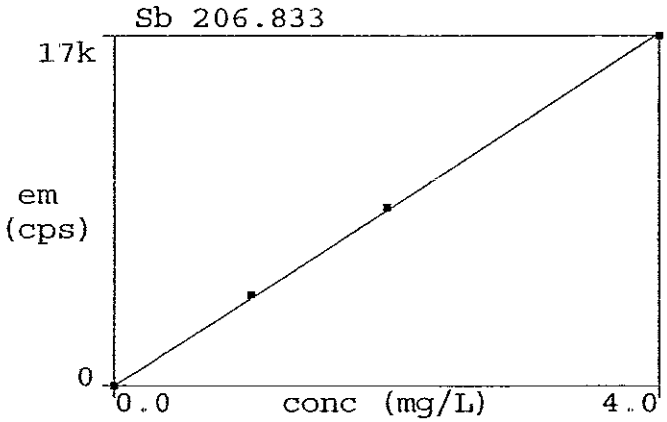
Calib.Eq'n: Linear-thru-Zero
14 Corr. Coeff.: 0.9995



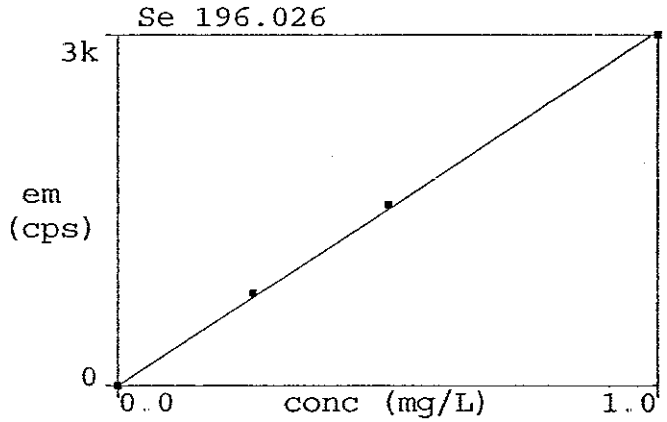
Calib.Eq'n: Linear-thru-Zero
15 Corr. Coeff.: 0.9991



Calib.Eq'n: Linear-thru-Zero
16 Corr. Coeff.: 0.9998



Calib.Eq'n: Linear-thru-Zero
17 Corr. Coeff.: 0.9998

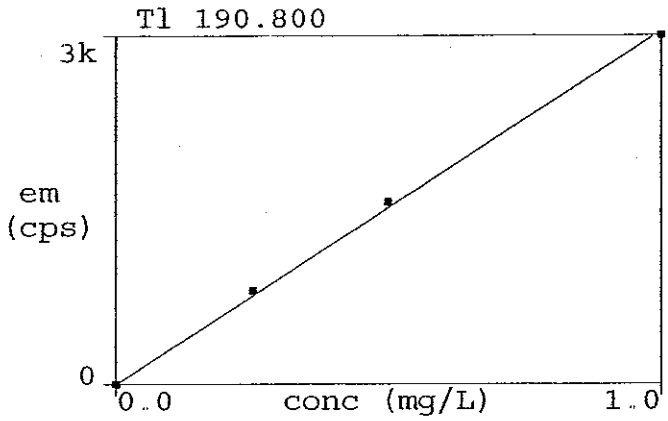


Calib.Eq'n: Linear-thru-Zero
18 Corr. Coeff.: 0.9996

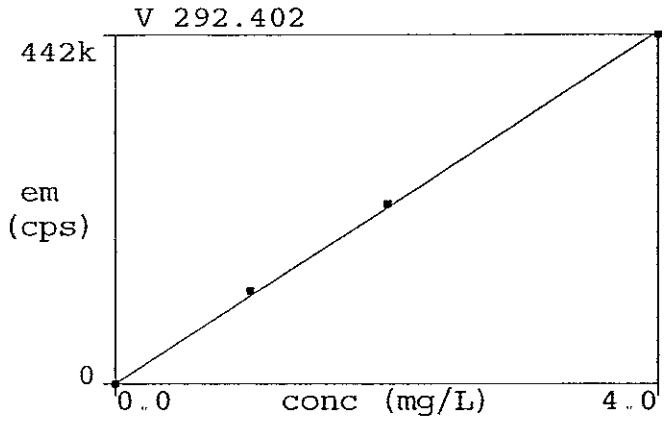
012662

Calibration

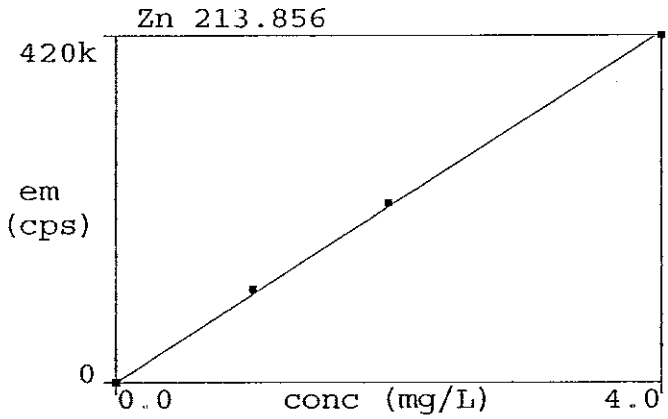
Method: TTLC
Result: 02M2368M



Calib.Eq'n: Linear-thru-Zero
19 Corr. Coeff.: 0.9994



Calib.Eq'n: Linear-thru-Zero
20 Corr. Coeff.: 0.9996



Calib.Eq'n: Linear-thru-Zero
21 Corr. Coeff.: 0.9996

012663

Method: TTLC IEC: 02miecm.iec MSF:
Results: 02M2368M Spectra Stored: Yes Method Stored: Yes
Sample Info: 02m2368m User: User1 Date: 11/21/02 11:01:58 AM
Method Description: 6010B/200.7--TTLC 11/20/02

Replicate Data
ID: Calib Blank Date: 11/21/02 11:03:18 AM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units
1	Ag 328.068	-1025.0	-1025.0	0	mg/L
1	Al 308.215	4540.7	4540.7	0	mg/L
1	As 188.979	69.8	69.8	0	mg/L
1	Ba 233.527	-811.1	-811.1	0	mg/L
1	Be 313.107	-400.2	-400.2	0	mg/L
1	Ca 227.547	270.3	270.3	0	mg/L
1	Cd 228.802	86.3	86.3	0	mg/L
1	Co 228.616	-411.4	-411.4	0	mg/L
1	Cr 267.716	-127.3	-127.3	0	mg/L
1	Cu 324.754	2313.7	2313.7	0	mg/L
1	Fe 273.955	3317.1	3317.1	0	mg/L
1	Mg 279.079	672.0	672.0	0	mg/L
1	Mn 257.610	1086.8	1086.8	0	mg/L
1	Mo 202.030	-30.6	-30.6	0	mg/L
1	Ni 231.604	297.7	297.7	0	mg/L
1	Pb 220.353	198.8	198.8	0	mg/L
1	Sb 206.833	67.0	67.0	0	mg/L
1	Se 196.026	85.8	85.8	0	mg/L
1	Tl 190.800	189.4	189.4	0	mg/L
1	V 292.402	184.7	184.7	0	mg/L
1	Zn 213.856	-575.8	-575.8	0	mg/L
2	Ag 328.068	-1163.1	-1163.1	0	mg/L
2	Al 308.215	4609.7	4609.7	0	mg/L
2	As 188.979	66.9	66.9	0	mg/L
2	Ba 233.527	-918.2	-918.2	0	mg/L
2	Be 313.107	-365.7	-365.7	0	mg/L
2	Ca 227.547	314.7	314.7	0	mg/L
2	Cd 228.802	93.2	93.2	0	mg/L
2	Co 228.616	-462.0	-462.0	0	mg/L
2	Cr 267.716	-151.0	-151.0	0	mg/L
2	Cu 324.754	2214.7	2214.7	0	mg/L
2	Fe 273.955	2850.1	2850.1	0	mg/L
2	Mg 279.079	583.5	583.5	0	mg/L
2	Mn 257.610	1046.9	1046.9	0	mg/L
2	Mo 202.030	-24.7	-24.7	0	mg/L
2	Ni 231.604	230.0	230.0	0	mg/L
2	Pb 220.353	183.2	183.2	0	mg/L
2	Sb 206.833	59.0	59.0	0	mg/L
2	Se 196.026	81.2	81.2	0	mg/L
2	Tl 190.800	193.8	193.8	0	mg/L
2	V 292.402	150.9	150.9	0	mg/L
2	Zn 213.856	-579.3	-579.3	0	mg/L
3	Ag 328.068	-1033.8	-1033.8	0	mg/L
3	Al 308.215	4642.4	4642.4	0	mg/L
3	As 188.979	71.7	71.7	0	mg/L
3	Ba 233.527	-867.5	-867.5	0	mg/L
3	Be 313.107	-476.7	-476.7	0	mg/L
3	Ca 227.547	265.3	265.3	0	mg/L
3	Cd 228.802	89.7	89.7	0	mg/L
3	Co 228.616	-376.7	-376.7	0	mg/L
3	Cr 267.716	-201.1	-201.1	0	mg/L
3	Cu 324.754	2332.4	2332.4	0	mg/L
3	Fe 273.955	2802.4	2802.4	0	mg/L
3	Mg 279.079	532.9	532.9	0	mg/L
3	Mn 257.610	1228.5	1228.5	0	mg/L
3	Mo 202.030	-30.3	-30.3	0	mg/L
3	Ni 231.604	297.9	297.9	0	mg/L

3 Pb 220.353	172.7	172.7	0	mg/L
3 Sb 206.833	55.9	55.9	0	mg/L
3 Se 196.026	85.9	85.9	0	mg/L
3 Tl 190.800	182.3	182.3	0	mg/L
3 V 292.402	152.6	152.6	0	mg/L
3 Zn 213.856	-595.1	-595.1	0	mg/L

Mean Data ----------

ID: Calib Blank Seq. No.: 1 A/S Pos: 1
Data: Original Date: 11/21/02 11:03:18 AM

Element	Mean Corr. Intensity	Std.Dev.	RSD	Conc.	Calib Units
328.068	-1074.0	77.29	7.20%	0	mg/L
308.215	4597.6	51.90	1.13%	0	mg/L
As 188.979	69.4	2.42	3.49%	0	mg/L
Ba 233.527	-865.6	53.60	6.19%	0	mg/L
313.107	-414.2	56.81	13.72%	0	mg/L
227.547	283.5	27.21	9.60%	0	mg/L
Cd 228.802	89.8	3.45	3.84%	0	mg/L
Co 228.616	-416.7	42.88	10.29%	0	mg/L
267.716	-159.8	37.69	23.59%	0	mg/L
324.754	2286.9	63.28	2.77%	0	mg/L
Fe 273.955	2989.8	284.38	9.51%	0	mg/L
Mg 279.079	596.1	70.41	11.81%	0	mg/L
Mn 257.610	1120.7	95.42	8.51%	0	mg/L
202.030	-28.5	3.31	11.60%	0	mg/L
Ni 231.604	275.2	39.13	14.22%	0	mg/L
Pb 220.353	184.9	13.14	7.11%	0	mg/L
Sb 206.833	60.6	5.74	9.47%	0	mg/L
196.026	84.3	2.70	3.20%	0	mg/L
190.800	188.5	5.81	3.08%	0	mg/L
V 292.402	162.7	19.06	11.71%	0	mg/L
Zn 213.856	-583.4	10.25	1.76%	0	mg/L

Replicate Data ----------

ID: STD1 1346A Date: 11/21/02 11:06:51 AM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units
1	Ag 328.068	400148.7	401222.6	2.0000	mg/L
1	Al 308.215	369295.5	364697.9	10.00	mg/L
1	As 188.979	2667.7	2598.3	1.000	mg/L
1	Ba 233.527	3481527.0	3482392.6	10.0000	mg/L
1	Be 313.107	2744519.1	2744933.3	1.00000	mg/L
1	Ca 227.547	26348.2	26064.7	100.0	mg/L
1	Cd 228.802	250748.1	250658.3	2.000	mg/L
1	Co 228.616	417241.8	417658.5	4.0000	mg/L
1	Cr 267.716	89862.7	90022.4	1.0000	mg/L
1	Cu 324.754	1260834.7	1258547.8	4.0000	mg/L
1	Fe 273.955	496564.6	493574.8	10.00	mg/L
1	Mg 279.079	1571948.2	1571352.1	50.00	mg/L
1	Mn 257.610	6226975.4	6225854.7	4.0000	mg/L
1	Mo 202.030	74748.5	74777.0	4.000	mg/L
1	Ni 231.604	199252.0	198976.8	4.0000	mg/L
1	Pb 220.353	15018.7	14833.8	1.000	mg/L
1	Sb 206.833	16667.7	16607.1	4.000	mg/L
1	Se 196.026	2792.3	2708.0	1.000	mg/L
1	Tl 190.800	3572.7	3384.2	1.000	mg/L
1	V 292.402	444467.0	444304.2	4.0000	mg/L
1	Zn 213.856	419061.5	419644.9	4.000	mg/L
2	Ag 328.068	396263.9	397337.9	2.0000	mg/L
2	Al 308.215	365080.7	360483.2	10.00	mg/L
2	As 188.979	2642.7	2573.2	1.000	mg/L
2	Ba 233.527	3546294.1	3547159.7	10.0000	mg/L
2	Be 313.107	2800716.3	2801130.5	1.00000	mg/L
2	Ca 227.547	25848.5	25565.0	100.0	mg/L
2	Cd 228.802	248235.9	248146.2	2.000	mg/L
2	Co 228.616	413705.7	414122.4	4.0000	mg/L
2	Cr 267.716	88706.5	88866.3	1.0000	mg/L

2	Cu 324.754	1252485.2	1250198.3	4.0000 mg/L
2	Fe 273.955	498376.6	495386.8	10.00 mg/L
2	Mg 279.079	1557508.6	1556912.5	50.00 mg/L
2	Mn 257.610	6368363.5	6367242.8	4.0000 mg/L
2	Mo 202.030	74134.4	74162.9	4.000 mg/L
2	Ni 231.604	198520.3	198245.1	4.0000 mg/L
2	Pb 220.353	15012.2	14827.3	1.000 mg/L
2	Sb 206.833	16657.5	16596.8	4.000 mg/L
2	Se 196.026	2812.1	2727.8	1.000 mg/L
2	Tl 190.800	3586.2	3397.7	1.000 mg/L
2	V 292.402	437862.8	437700.1	4.0000 mg/L
2	Zn 213.856	416624.0	417207.4	4.000 mg/L
3	Ag 328.068	399407.6	400481.5	2.0000 mg/L
3	Al 308.215	366860.2	362262.6	10.00 mg/L
3	As 188.979	2656.3	2586.8	1.000 mg/L
3	Ba 233.527	3425911.4	3426777.0	10.0000 mg/L
3	Be 313.107	2700522.7	2700936.9	1.00000 mg/L
3	Ca 227.547	26447.0	26163.5	100.0 mg/L
3	Cd 228.802	252733.4	252643.7	2.000 mg/L
3	Co 228.616	419806.3	420223.0	4.0000 mg/L
3	Cr 267.716	89368.8	89528.5	1.0000 mg/L
3	Cu 324.754	1269745.5	1267458.5	4.0000 mg/L
3	Fe 273.955	495024.7	492034.9	10.00 mg/L
3	Mg 279.079	1575121.7	1574525.6	50.00 mg/L
3	Mn 257.610	6193016.5	6191895.7	4.0000 mg/L
3	Mo 202.030	75186.2	75214.7	4.000 mg/L
3	Ni 231.604	201332.5	201057.3	4.0000 mg/L
3	Pb 220.353	15038.2	14853.4	1.000 mg/L
3	Sb 206.833	16670.2	16609.6	4.000 mg/L
3	Se 196.026	2823.3	2739.0	1.000 mg/L
3	Tl 190.800	3603.4	3414.9	1.000 mg/L
3	V 292.402	443993.9	443831.2	4.0000 mg/L
3	Zn 213.856	423034.4	423617.8	4.000 mg/L

Mean Data

ID: STD1 1346A Seq. No.: 2 A/S Pos: 2
Data: Original Date: 11/21/02 11:06:51 AM

Element	Mean Corr. Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	399680.7	2062.51	0.52%	2.0000	mg/L
Al 308.215	362481.2	2115.86	0.58%	10.00	mg/L
As 188.979	2586.1	12.56	0.49%	1.000	mg/L
Ba 233.527	3485443.1	60249.29	1.73%	10.0000	mg/L
Be 313.107	2749000.2	50220.48	1.83%	1.00000	mg/L
Ca 227.547	25931.1	320.82	1.24%	100.0	mg/L
Cd 228.802	250482.7	2253.88	0.90%	2.000	mg/L
Co 228.616	417334.6	3063.14	0.73%	4.0000	mg/L
Cr 267.716	89472.4	580.10	0.65%	1.0000	mg/L
Cu 324.754	1258734.9	8631.66	0.69%	4.0000	mg/L
Fe 273.955	493665.5	1677.78	0.34%	10.00	mg/L
Mg 279.079	1567596.7	9387.89	0.60%	50.00	mg/L
Mn 257.610	6261664.4	92996.78	1.49%	4.0000	mg/L
Mo 202.030	74718.2	528.36	0.71%	4.000	mg/L
Ni 231.604	199426.4	1459.02	0.73%	4.0000	mg/L
Pb 220.353	14838.1	13.57	0.09%	1.000	mg/L
Sb 206.833	16604.5	6.75	0.04%	4.000	mg/L
Se 196.026	2725.0	15.68	0.58%	1.000	mg/L
Tl 190.800	3398.9	15.39	0.45%	1.000	mg/L
V 292.402	441945.2	3683.95	0.83%	4.0000	mg/L
Zn 213.856	420156.7	3235.71	0.77%	4.000	mg/L

Replicate Data

ID: SID2 1346B Date: 11/21/02 11:10:27 AM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units
1	Ag 328.068	209176.9	210250.9	1.0000	mg/L
1	Al 308.215	193515.3	188917.8	5.000	mg/L
1	As 188.979	1393.1	1323.7	0.500	mg/L

1	Ba 233.527	1827558.3	1828423.9	5.0000	mg/L
1	Be 313.107	1415411.0	1415825.2	0.50000	mg/L
1	Ca 227.547	13944.8	13661.3	50.00	mg/L
1	Cd 228.802	133284.9	133195.2	1.000	mg/L
1	Co 228.616	223186.5	223603.2	2.0000	mg/L
1	Cr 267.716	47067.3	47227.1	0.5000	mg/L
1	Cu 324.754	659648.1	657361.2	2.0000	mg/L
1	Fe 273.955	262462.3	259472.4	5.000	mg/L
1	Mg 279.079	823762.7	823166.5	25.000	mg/L
1	Mn 257.610	3301186.3	3300065.6	2.0000	mg/L
1	Mo 202.030	39598.1	39626.6	2.000	mg/L
1	Ni 231.604	107704.7	107429.5	2.0000	mg/L
1	Pb 220.353	7805.4	7620.5	0.500	mg/L
1	Sb 206.833	8558.1	8497.5	2.000	mg/L
1	Se 196.026	1497.6	1413.3	0.5000	mg/L
1	Tl 190.800	1966.4	1777.9	0.500	mg/L
1	V 292.402	232061.5	231898.7	2.0000	mg/L
1	Zn 213.856	220891.3	221474.7	2.000	mg/L
2	Ag 328.068	205103.3	206177.2	1.0000	mg/L
2	Al 308.215	188915.7	184318.1	5.000	mg/L
2	As 188.979	1403.3	1333.8	0.500	mg/L
2	Ba 233.527	1809148.8	1810014.4	5.0000	mg/L
2	Be 313.107	1392048.5	1392462.7	0.50000	mg/L
2	Ca 227.547	13618.3	13334.8	50.00	mg/L
2	Cd 228.802	130296.4	130206.7	1.000	mg/L
2	Co 228.616	218244.5	218661.2	2.0000	mg/L
2	Cr 267.716	46391.3	46551.0	0.5000	mg/L
2	Cu 324.754	652818.3	650531.4	2.0000	mg/L
2	Fe 273.955	255860.1	252870.3	5.000	mg/L
2	Mg 279.079	813324.2	812728.1	25.000	mg/L
2	Mn 257.610	3261797.7	3260677.0	2.0000	mg/L
2	Mo 202.030	38591.3	38619.8	2.000	mg/L
2	Ni 231.604	104525.2	104250.0	2.0000	mg/L
2	Pb 220.353	7794.3	7609.4	0.500	mg/L
2	Sb 206.833	8591.7	8531.0	2.000	mg/L
2	Se 196.026	1506.2	1422.0	0.5000	mg/L
2	Tl 190.800	1955.8	1767.3	0.500	mg/L
2	V 292.402	228607.2	228444.4	2.0000	mg/L
2	Zn 213.856	215445.8	216029.2	2.000	mg/L
3	Ag 328.068	202502.6	203576.6	1.0000	mg/L
3	Al 308.215	187681.1	183083.5	5.000	mg/L
3	As 188.979	1398.4	1329.0	0.500	mg/L
3	Ba 233.527	1855163.3	1856028.9	5.0000	mg/L
3	Be 313.107	1442309.6	1442723.8	0.50000	mg/L
3	Ca 227.547	13450.5	13167.0	50.00	mg/L
3	Cd 228.802	128429.5	128339.8	1.000	mg/L
3	Co 228.616	214212.2	214628.9	2.0000	mg/L
3	Cr 267.716	45453.5	45613.3	0.5000	mg/L
3	Cu 324.754	672028.3	669741.4	2.0000	mg/L
3	Fe 273.955	254403.5	251413.7	5.000	mg/L
3	Mg 279.079	834150.9	833554.8	25.000	mg/L
3	Mn 257.610	3327908.6	3326787.9	2.0000	mg/L
3	Mo 202.030	38189.4	38217.9	2.000	mg/L
3	Ni 231.604	103847.3	103572.1	2.0000	mg/L
3	Pb 220.353	7780.4	7595.5	0.500	mg/L
3	Sb 206.833	8584.4	8523.8	2.000	mg/L
3	Se 196.026	1493.8	1409.5	0.5000	mg/L
3	Tl 190.800	1968.4	1779.8	0.500	mg/L
3	V 292.402	223691.9	223529.2	2.0000	mg/L
3	Zn 213.856	212776.3	213359.7	2.000	mg/L

ean Data ----------

D: STD2 1346B Seq. No.: 3 A/S Pos: 3
Data: Original Date: 11/21/02 11:10:27 AM

iement	Mean Corr. Intensity	Std.Dev.	RSD	Conc.	Calib Units
g 328.068	206668.2	3364.15	1.63%	1.0000	mg/L
l 308.215	185439.8	3074.62	1.66%	5.000	mg/L
s 188.979	1328.8	5.06	0.38%	0.500	mg/L

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Ba 233.527	1831489.1	23159.92	1.26%	5.0000 mg/L
Be 313.107	1417003.9	25151.23	1.77%	0.50000 mg/L
Ca 227.547	13387.7	251.36	1.88%	50.00 mg/L
Cd 228.802	130580.5	2449.18	1.88%	1.000 mg/L
Co 228.616	218964.4	4494.82	2.05%	2.0000 mg/L
Cr 267.716	46463.8	810.41	1.74%	0.5000 mg/L
Cu 324.754	659211.3	9737.70	1.48%	2.0000 mg/L
Fe 273.955	254585.5	4294.46	1.69%	5.000 mg/L
Mg 279.079	823149.8	10413.37	1.27%	25.000 mg/L
Mn 257.610	3295843.5	33257.08	1.01%	2.0000 mg/L
Mo 202.030	38821.4	725.64	1.87%	2.000 mg/L
Ni 231.604	105083.8	2059.48	1.96%	2.0000 mg/L
Pb 220.353	7608.5	12.49	0.16%	0.500 mg/L
Sb 206.833	8517.4	17.65	0.21%	2.000 mg/L
Se 196.026	1414.9	6.39	0.45%	0.5000 mg/L
Tl 190.800	1775.0	6.74	0.38%	0.500 mg/L
V 292.402	227957.4	4205.98	1.85%	2.0000 mg/L
Zn 213.856	216954.5	4135.85	1.91%	2.000 mg/L

Replicate Data ----------

ID: SID3 1346C Date: 11/21/02 11:14:00 AM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units
1	Ag 328.068	106381.1	107455.0	0.5000	mg/L
1	Al 308.215	100542.5	95944.9	2.500	mg/L
1	As 188.979	755.7	686.3	0.250	mg/L
1	Ba 233.527	954470.8	955336.4	2.5000	mg/L
1	Be 313.107	722920.2	723334.4	0.25000	mg/L
1	Ca 227.547	7085.6	6802.1	25.00	mg/L
1	Cd 228.802	68390.8	68301.1	0.500	mg/L
1	Co 228.616	115784.3	116201.0	1.0000	mg/L
1	Cr 267.716	24225.5	24385.3	0.2500	mg/L
1	Cu 324.754	343221.2	340934.3	1.0000	mg/L
1	Fe 273.955	135001.9	132012.1	2.500	mg/L
1	Mg 279.079	426284.1	425688.0	12.500	mg/L
1	Mn 257.610	1721541.1	1720420.3	1.0000	mg/L
1	Mo 202.030	19907.4	19935.9	1.000	mg/L
1	Ni 231.604	55647.9	55372.7	1.0000	mg/L
1	Pb 220.353	4098.8	3913.9	0.250	mg/L
1	Sb 206.833	4436.6	4376.0	1.000	mg/L
1	Se 196.026	806.4	722.1	0.250	mg/L
1	Tl 190.800	1104.8	916.3	0.250	mg/L
1	V 292.402	120595.1	120432.4	1.0000	mg/L
1	Zn 213.856	112474.2	113057.6	1.000	mg/L
2	Ag 328.068	102949.8	104023.7	0.5000	mg/L
2	Al 308.215	97600.9	93003.4	2.500	mg/L
2	As 188.979	740.3	670.8	0.250	mg/L
2	Ba 233.527	925363.6	926229.2	2.5000	mg/L
2	Be 313.107	707766.4	708180.6	0.25000	mg/L
2	Ca 227.547	6989.1	6705.6	25.00	mg/L
2	Cd 228.802	65839.4	65749.6	0.500	mg/L
2	Co 228.616	111440.9	111857.6	1.0000	mg/L
2	Cr 267.716	23338.2	23497.9	0.2500	mg/L
2	Cu 324.754	331966.2	329679.3	1.0000	mg/L
2	Fe 273.955	131601.8	128612.0	2.500	mg/L
2	Mg 279.079	414611.5	414015.4	12.500	mg/L
2	Mn 257.610	1659841.6	1658720.9	1.0000	mg/L
2	Mo 202.030	19744.3	19772.8	1.000	mg/L
2	Ni 231.604	54362.8	54087.6	1.0000	mg/L
2	Pb 220.353	4038.2	3853.3	0.250	mg/L
2	Sb 206.833	4372.6	4311.9	1.000	mg/L
2	Se 196.026	812.6	728.3	0.250	mg/L
2	Tl 190.800	1092.9	904.4	0.250	mg/L
2	V 292.402	114862.7	114700.0	1.0000	mg/L
2	Zn 213.856	109558.6	110142.0	1.000	mg/L
3	Ag 328.068	105718.3	106792.3	0.5000	mg/L
3	Al 308.215	99642.2	95044.6	2.500	mg/L
3	As 188.979	742.8	673.4	0.250	mg/L

3	Ba 233.527	943367.8	944233.4	2.5000 mg/L
3	Be 313.107	718683.2	719097.4	0.25000 mg/L
3	Ca 227.547	7076.4	6792.9	25.00 mg/L
3	Cd 228.802	67912.9	67823.2	0.500 mg/L
3	Co 228.616	114355.5	114772.2	1.0000 mg/L
3	Cr 267.716	23874.2	24034.0	0.2500 mg/L
3	Cu 324.754	340814.6	338527.7	1.0000 mg/L
3	Fe 273.955	133643.2	130653.4	2.500 mg/L
3	Mg 279.079	422404.6	421808.5	12.500 mg/L
3	Mn 257.610	1703410.9	1702290.2	1.0000 mg/L
3	Mo 202.030	20017.6	20046.1	1.000 mg/L
3	Ni 231.604	55442.3	55167.1	1.0000 mg/L
3	Pb 220.353	4096.7	3911.8	0.250 mg/L
3	Sb 206.833	4416.5	4355.9	1.000 mg/L
3	Se 196.026	807.7	723.4	0.250 mg/L
3	Tl 190.800	1103.1	914.6	0.250 mg/L
3	V 292.402	118408.3	118245.5	1.0000 mg/L
3	Zn 213.856	112579.9	113163.3	1.000 mg/L

Mean Data ----------

ID: STD3 1346C Seq. No.: 4 A/S Pos: 4
Data: Original Date: 11/21/02 11:14:00 AM

Element	Mean Corr. Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	106090.3	1820.17	1.72%	0.5000	mg/L
Al 308.215	94664.3	1507.20	1.59%	2.500	mg/L
As 188.979	676.8	8.29	1.22%	0.250	mg/L
Ba 233.527	941933.0	14689.30	1.56%	2.5000	mg/L
Be 313.107	716870.8	7818.43	1.09%	0.25000	mg/L
Ca 227.547	6766.9	53.27	0.79%	25.00	mg/L
Cd 228.802	67291.3	1356.34	2.02%	0.500	mg/L
Co 228.616	114277.0	2213.63	1.94%	1.0000	mg/L
Cr 267.716	23972.4	446.85	1.86%	0.2500	mg/L
Cu 324.754	336380.4	5926.81	1.76%	1.0000	mg/L
Fe 273.955	130425.8	1711.45	1.31%	2.500	mg/L
Mg 279.079	420504.0	5944.64	1.41%	12.500	mg/L
Mn 257.610	1693810.5	31711.73	1.87%	1.0000	mg/L
Mo 202.030	19918.3	137.51	0.69%	1.000	mg/L
Ni 231.604	54875.8	690.30	1.26%	1.0000	mg/L
Pb 220.353	3893.0	34.44	0.88%	0.250	mg/L
Sb 206.833	4347.9	32.76	0.75%	1.000	mg/L
Se 196.026	724.6	3.29	0.45%	0.250	mg/L
Tl 190.800	911.8	6.45	0.71%	0.250	mg/L
V 292.402	117792.6	2892.91	2.46%	1.0000	mg/L
Zn 213.856	112121.0	1714.68	1.53%	1.000	mg/L

Calibration Summary ----------

Method: TTLC Date: 11/21/02 11:14:59 AM

Element	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
Ag 328.068	3	Linear-thru-Zero	0.0	201728.5	0.00000	0.999629
Al 308.215	3	Linear-thru-Zero	0.0	36485.1	0.00000	0.999817
As 188.979	3	Linear-thru-Zero	0.0	2605.5	0.00000	0.999770
Ba 233.527	3	Linear-thru-Zero	0.0	353270.2	0.00000	0.999272
Be 313.107	3	Linear-thru-Zero	0.0	2770834.2	0.00000	0.999755
Ca 227.547	3	Linear-thru-Zero	0.0	261.5	0.00000	0.999735
Cd 228.802	3	Linear-thru-Zero	0.0	126703.2	0.00000	0.999443
Co 228.616	3	Linear-thru-Zero	0.0	105787.8	0.00000	0.999180
Cr 267.716	3	Linear-thru-Zero	0.0	90436.1	0.00000	0.999515
Cu 324.754	3	Linear-thru-Zero	0.0	318559.2	0.00000	0.999411
Fe 273.955	3	Linear-thru-Zero	0.0	49795.4	0.00000	0.999686
Mg 279.079	3	Linear-thru-Zero	0.0	31760.7	0.00000	0.999341
Mn 257.610	3	Linear-thru-Zero	0.0	1587245.5	0.00000	0.999235
Mo 202.030	3	Linear-thru-Zero	0.0	18877.8	0.00000	0.999543
Ni 231.604	3	Linear-thru-Zero	0.0	50607.1	0.00000	0.999058
Pb 220.353	3	Linear-thru-Zero	0.0	14945.2	0.00000	0.999777
Sb 206.833	3	Linear-thru-Zero	0.0	4181.0	0.00000	0.999783
Se 196.026	3	Linear-thru-Zero	0.0	2753.2	0.00000	0.999567
Tl 190.800	3	Linear-thru-Zero	0.0	3439.5	0.00000	0.999429

V 292.402	3	Linear-thru-Zero	0.0	111499.4	0.00000	0.999629
Zn 213.856	3	Linear-thru-Zero	0.0	106031.3	0.00000	0.999610

Replicate Data ----------

ID: ICV 1379A Date: 11/21/02 11:17:39 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	401722.2	402796.1	1.997	mg/L		
1	Al 308.215	368702.4	364104.8	9.980	mg/L		
1	As 188.979	2691.0	2621.6	1.017	mg/L		
1	Ba 233.527	3444801.6	3445667.2	9.754	mg/L		
1	Be 313.107	2712524.2	2712938.4	0.9791	mg/L		
1	Ca 227.547	26348.2	26064.7	99.69	mg/L		
1	Cd 228.802	252726.5	252636.8	1.994	mg/L		
1	Co 228.616	419525.5	419942.2	3.970	mg/L		
1	Cr 267.716	89989.8	90149.6	0.9968	mg/L		
1	Cu 324.754	1268126.1	1265839.2	3.974	mg/L		
1	Fe 273.955	493116.0	490126.1	9.843	mg/L		
1	Mg 279.079	1571204.3	1570608.2	49.45	mg/L		
1	Mn 257.610	6179472.5	6178351.8	3.892	mg/L		
1	Mo 202.030	74591.8	74620.3	3.953	mg/L		
1	Ni 231.604	199723.1	199447.9	3.941	mg/L		
1	Pb 220.353	15115.0	14930.1	0.9990	mg/L		
1	Sb 206.833	16910.2	16849.5	4.001	mg/L		
1	Se 196.026	2825.7	2741.4	0.9987	mg/L		
1	Tl 190.800	3603.1	3414.5	0.9883	mg/L		
1	V 292.402	444661.9	444499.2	3.987	mg/L		
1	Zn 213.856	420234.0	420817.4	3.969	mg/L		
2	Ag 328.068	398252.0	399325.9	1.980	mg/L		
2	Al 308.215	367921.9	363324.4	9.958	mg/L		
2	As 188.979	2652.8	2583.4	1.002	mg/L		
2	Ba 233.527	3483257.0	3484122.6	9.862	mg/L		
2	Be 313.107	2750715.0	2751129.2	0.9929	mg/L		
2	Ca 227.547	26100.4	25816.9	98.74	mg/L		
2	Cd 228.802	250783.2	250693.5	1.979	mg/L		
2	Co 228.616	417247.7	417664.4	3.948	mg/L		
2	Cr 267.716	88793.3	88953.1	0.9836	mg/L		
2	Cu 324.754	1265313.5	1263026.6	3.965	mg/L		
2	Fe 273.955	492071.4	489081.6	9.822	mg/L		
2	Mg 279.079	1570100.5	1569504.4	49.42	mg/L		
2	Mn 257.610	6265085.3	6263964.6	3.946	mg/L		
2	Mo 202.030	74725.9	74754.4	3.960	mg/L		
2	Ni 231.604	200676.8	200401.6	3.960	mg/L		
2	Pb 220.353	15002.7	14817.8	0.9915	mg/L		
2	Sb 206.833	16686.4	16625.8	3.948	mg/L		
2	Se 196.026	2799.8	2715.6	0.9893	mg/L		
2	Tl 190.800	3598.6	3410.1	0.9870	mg/L		
2	V 292.402	439130.9	438968.2	3.937	mg/L		
2	Zn 213.856	421154.9	421738.3	3.977	mg/L		
3	Ag 328.068	400676.2	401750.2	1.992	mg/L		
3	Al 308.215	368790.6	364193.0	9.982	mg/L		
3	As 188.979	2638.7	2569.2	0.9965	mg/L		
3	Ba 233.527	3576912.8	3577778.4	10.13	mg/L		
3	Be 313.107	2821782.6	2822196.8	1.019	mg/L		
3	Ca 227.547	26599.9	26316.4	100.7	mg/L		
3	Cd 228.802	253750.2	253660.5	2.002	mg/L		
3	Co 228.616	421429.3	421846.0	3.988	mg/L		
3	Cr 267.716	89586.9	89746.6	0.9924	mg/L		
3	Cu 324.754	1277388.7	1275101.7	4.003	mg/L		
3	Fe 273.955	492103.2	489113.4	9.822	mg/L		
3	Mg 279.079	1578302.4	1577706.3	49.67	mg/L		
3	Mn 257.610	6463567.3	6462446.6	4.071	mg/L		
3	Mo 202.030	75231.2	75259.7	3.987	mg/L		
3	Ni 231.604	202517.5	202242.2	3.996	mg/L		
3	Pb 220.353	14930.7	14745.8	0.9867	mg/L		
3	Sb 206.833	16607.5	16546.9	3.929	mg/L		
3	Se 196.026	2793.8	2709.5	0.9871	mg/L		
3	Tl 190.800	3589.8	3401.3	0.9845	mg/L		

3 V 292.402	444214.4	444051.7	3.983	mg/L
3 Zn 213.856	425136.7	425720.1	4.015	mg/L

lean Data

: ICV 1379A Seq. No.: 5 Sample No.: 1 A/S Pos: 5
mple Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 11:17:39 AM

ement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	401290.7	1.989	0.0088	mg/L				0.44%
l 308.215	363874.1	9.973	0.0131	mg/L				0.13%
188.979	2591.4	1.005	0.0104	mg/L				1.04%
233.527	3502522.8	9.915	0.1923	mg/L				1.94%
313.107	2762088.1	0.9968	0.02001	mg/L				2.01%
a 227.547	26066.0	99.69	0.955	mg/L				0.96%
d 228.802	252330.2	1.992	0.0119	mg/L				0.60%
228.616	419817.5	3.968	0.0198	mg/L				0.50%
267.716	89616.4	0.9909	0.00673	mg/L				0.68%
u 324.754	1267989.2	3.980	0.0198	mg/L				0.50%
e 273.955	489440.4	9.829	0.0119	mg/L				0.12%
279.079	1572606.3	49.51	0.140	mg/L				0.28%
257.610	6301587.6	3.970	0.0918	mg/L				2.31%
o 202.030	74878.1	3.966	0.0179	mg/L				0.45%
i 231.604	200697.3	3.966	0.0281	mg/L				0.71%
220.353	14831.2	0.9924	0.00621	mg/L				0.63%
206.833	16674.1	3.959	0.0374	mg/L				0.95%
e 196.026	2722.2	0.9917	0.00617	mg/L				0.62%
l 190.800	3408.7	0.9866	0.00196	mg/L				0.20%
292.402	442506.3	3.969	0.0276	mg/L				0.69%
213.856	422758.6	3.987	0.0246	mg/L				0.62%

eplicate Data

D: ICB Date: 11/21/02 11:24:44 AM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-1010.5	63.5	0.0003	mg/L		
1	Al 308.215	4607.4	9.8	0.0003	mg/L		
1	As 188.979	61.9	-7.6	-0.0029	mg/L		
1	Ba 233.527	-769.5	96.1	0.0003	mg/L		
1	Be 313.107	71.9	486.1	0.0002	mg/L		
1	Ca 227.547	214.8	-68.7	-0.2627	mg/L		
1	Cd 228.802	102.7	13.0	0.0001	mg/L		
1	Co 228.616	-188.0	228.7	0.0022	mg/L		
1	Cr 267.716	-50.4	109.3	0.0012	mg/L		
1	Cu 324.754	2189.2	-97.7	-0.0003	mg/L		
1	Fe 273.955	1767.4	-1222.4	-0.0245	mg/L		
1	Mg 279.079	503.7	-92.4	-0.0029	mg/L		
1	Mn 257.610	1663.0	542.3	0.0003	mg/L		
1	Mo 202.030	-23.9	4.6	0.0002	mg/L		
1	Ni 231.604	439.9	164.6	0.0033	mg/L		
1	Pb 220.353	166.4	-18.5	-0.0012	mg/L		
1	Sb 206.833	67.7	7.1	0.0017	mg/L		
1	Se 196.026	78.7	-5.6	-0.0020	mg/L		
1	Tl 190.800	187.0	-1.6	-0.0005	mg/L		
1	V 292.402	187.8	25.1	0.0002	mg/L		
1	Zn 213.856	-501.8	81.6	0.0008	mg/L		
2	Ag 328.068	-1090.6	-16.6	-0.0001	mg/L		
2	Al 308.215	4450.2	-147.3	-0.0040	mg/L		
2	As 188.979	66.7	-2.8	-0.0011	mg/L		
2	Ba 233.527	-716.3	149.3	0.0004	mg/L		
2	Be 313.107	-90.7	323.5	0.0001	mg/L		
2	Ca 227.547	184.3	-99.2	-0.3794	mg/L		
2	Cd 228.802	109.0	19.3	0.0002	mg/L		
2	Co 228.616	-289.2	127.5	0.0012	mg/L		
2	Cr 267.716	-138.7	21.1	0.0002	mg/L		
2	Cu 324.754	2348.4	61.4	0.0002	mg/L		
2	Fe 273.955	1592.9	-1397.0	-0.0281	mg/L		
2	Mg 279.079	562.9	-33.3	-0.0010	mg/L		

2 Mn 257.610	1695.0	574.3	0.0004	mg/L
2 Mo 202.030	-32.9	-4.4	-0.0002	mg/L
2 Ni 231.604	341.7	66.5	0.0013	mg/L
2 Pb 220.353	191.5	6.6	0.0004	mg/L
2 Sb 206.833	52.5	-8.1	-0.0019	mg/L
2 Se 196.026	74.9	-9.4	-0.0034	mg/L
2 Tl 190.800	190.6	2.1	0.0006	mg/L
2 V 292.402	164.2	1.5	0.0000	mg/L
2 Zn 213.856	-522.5	60.9	0.0006	mg/L
3 Ag 328.068	-961.3	112.6	0.0006	mg/L
3 Al 308.215	4494.8	-102.7	-0.0028	mg/L
3 As 188.979	73.2	3.7	0.0014	mg/L
3 Ba 233.527	-808.2	57.4	0.0002	mg/L
3 Be 313.107	-1.1	413.2	0.0001	mg/L
3 Ca 227.547	116.2	-167.3	-0.6398	mg/L
3 Cd 228.802	98.8	9.0	0.0001	mg/L
3 Co 228.616	-274.3	142.4	0.0013	mg/L
3 Cr 267.716	-117.8	42.0	0.0005	mg/L
3 Cu 324.754	2383.7	96.8	0.0003	mg/L
3 Fe 273.955	1465.6	-1524.2	-0.0306	mg/L
3 Mg 279.079	428.7	-167.5	-0.0053	mg/L
3 Mn 257.610	1633.2	512.5	0.0003	mg/L
3 Mo 202.030	-33.5	-4.9	-0.0003	mg/L
3 Ni 231.604	388.4	113.2	0.0022	mg/L
3 Pb 220.353	181.7	-3.2	-0.0002	mg/L
3 Sb 206.833	57.1	-3.5	-0.0008	mg/L
3 Se 196.026	81.1	-3.2	-0.0012	mg/L
3 Tl 190.800	190.4	1.9	0.0006	mg/L
3 V 292.402	337.8	175.0	0.0016	mg/L
3 Zn 213.856	-528.5	54.8	0.0005	mg/L

Mean Data ----------

ID: ICB Seq. No.: 6 Sample No.: 2 A/S Pos: 1

Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0

Data: Original Date: 11/21/02 11:24:44 AM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	53.2	0.0003	0.00032	mg/L				122.72%
Al 308.215	-80.1	-0.0022	0.00222	mg/L				101.09%
As 188.979	-2.2	-0.0008	0.00218	mg/L				257.54%
Ba 233.527	100.9	0.0003	0.00013	mg/L				45.70%
Be 313.107	407.6	0.0001	0.00003	mg/L				19.98%
Ca 227.547	-111.7	-0.4273	0.19308	mg/L				45.18%
Cd 228.802	13.8	0.0001	0.00004	mg/L				37.41%
Co 228.616	166.2	0.0016	0.00052	mg/L				32.88%
Cr 267.716	57.5	0.0006	0.00051	mg/L				80.21%
Cu 324.754	20.2	0.0001	0.00033	mg/L				513.50%
Fe 273.955	-1381.2	-0.0277	0.00304	mg/L				10.97%
Mg 279.079	-97.7	-0.0031	0.00212	mg/L				68.80%
Mn 257.610	543.0	0.0003	0.00002	mg/L				5.69%
Mo 202.030	-1.6	-0.0001	0.00029	mg/L				345.50%
Ni 231.604	114.8	0.0023	0.00097	mg/L				42.76%
Pb 220.353	-5.0	-0.0003	0.00085	mg/L				251.20%
Sb 206.833	-1.5	-0.0004	0.00187	mg/L				517.95%
Se 196.026	-6.1	-0.0022	0.00114	mg/L				51.58%
Tl 190.800	0.8	0.0002	0.00060	mg/L				252.32%
V 292.402	67.2	0.0006	0.00084	mg/L				140.05%
Zn 213.856	65.8	0.0006	0.00013	mg/L				21.32%

Replicate Data ----------

ID: CRI A1415 Date: 11/21/02 11:28:04 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	1053.8	2127.8	0.0105	mg/L	0.0105	ppm
1	Al 308.215	12757.6	8160.0	0.2237	mg/L	0.2237	ppm
1	As 188.979	102.2	32.8	0.0126	mg/L	0.0126	ppm
1	Ba 233.527	1591.1	2456.7	0.0070	mg/L	0.0070	ppm
1	Be 313.107	5893.8	6308.0	0.0023	mg/L	0.0023	ppm

1	Ca	227.547	462.9	179.4	0.6863	mg/L	0.6863 ppm
1	Cd	228.802	458.5	368.7	0.0029	mg/L	0.0029 ppm
1	Co	228.616	2428.9	2845.6	0.0269	mg/L	0.0269 ppm
1	Cr	267.716	150.6	310.4	0.0034	mg/L	0.0034 ppm
1	Cu	324.754	8574.6	6287.7	0.0197	mg/L	0.0197 ppm
1	Fe	273.955	4435.0	1445.2	0.0290	mg/L	0.0290 ppm
1	Mg	279.079	846.8	250.7	0.0079	mg/L	0.0079 ppm
1	Mn	257.610	19190.6	18069.9	0.0114	mg/L	0.0114 ppm
1	Mo	202.030	405.7	434.2	0.0230	mg/L	0.0230 ppm
1	Ni	231.604	2787.4	2512.1	0.0496	mg/L	0.0496 ppm
1	Pb	220.353	235.0	50.1	0.0034	mg/L	0.0034 ppm
1	Sb	206.833	117.9	57.2	0.0137	mg/L	0.0137 ppm
1	Se	196.026	97.7	13.4	0.0049	mg/L	0.0049 ppm
1	Tl	190.800	221.3	32.7	0.0095	mg/L	0.0095 ppm
1	V	292.402	1529.4	1366.6	0.0123	mg/L	0.0123 ppm
1	Zn	213.856	1906.6	2490.0	0.0235	mg/L	0.0235 ppm
2	Ag	328.068	975.3	2049.3	0.0102	mg/L	0.0102 ppm
2	Al	308.215	12720.3	8122.8	0.2226	mg/L	0.2226 ppm
2	As	188.979	96.9	27.4	0.0105	mg/L	0.0105 ppm
2	Ba	233.527	1456.4	2322.0	0.0066	mg/L	0.0066 ppm
2	Be	313.107	5583.8	5998.0	0.0022	mg/L	0.0022 ppm
2	Ca	227.547	404.0	120.5	0.4609	mg/L	0.4609 ppm
2	Cd	228.802	355.5	265.8	0.0021	mg/L	0.0021 ppm
2	Co	228.616	2278.4	2695.1	0.0255	mg/L	0.0255 ppm
2	Cr	267.716	121.0	280.8	0.0031	mg/L	0.0031 ppm
2	Cu	324.754	8462.1	6175.1	0.0194	mg/L	0.0194 ppm
2	Fe	273.955	4348.5	1358.7	0.0273	mg/L	0.0273 ppm
2	Mg	279.079	861.9	265.8	0.0084	mg/L	0.0084 ppm
2	Mn	257.610	18438.5	17317.8	0.0109	mg/L	0.0109 ppm
2	Mo	202.030	412.1	440.6	0.0233	mg/L	0.0233 ppm
2	Ni	231.604	2722.9	2447.7	0.0484	mg/L	0.0484 ppm
2	Pb	220.353	233.4	48.5	0.0032	mg/L	0.0032 ppm
2	Sb	206.833	106.8	46.1	0.0110	mg/L	0.0110 ppm
2	Se	196.026	97.3	13.0	0.0047	mg/L	0.0047 ppm
2	Tl	190.800	223.3	34.8	0.0101	mg/L	0.0101 ppm
2	V	292.402	1448.9	1286.1	0.0115	mg/L	0.0115 ppm
2	Zn	213.856	1896.3	2479.7	0.0234	mg/L	0.0234 ppm
3	Ag	328.068	1199.9	2273.8	0.0113	mg/L	0.0113 ppm
3	Al	308.215	12742.9	8145.4	0.2233	mg/L	0.2233 ppm
3	As	188.979	102.3	32.9	0.0126	mg/L	0.0126 ppm
3	Ba	233.527	1531.6	2397.2	0.0068	mg/L	0.0068 ppm
3	Be	313.107	5818.4	6232.6	0.0022	mg/L	0.0022 ppm
3	Ca	227.547	486.0	202.5	0.7746	mg/L	0.7746 ppm
3	Cd	228.802	339.9	250.1	0.0020	mg/L	0.0020 ppm
3	Co	228.616	2337.5	2754.2	0.0260	mg/L	0.0260 ppm
3	Cr	267.716	41.9	201.7	0.0022	mg/L	0.0022 ppm
3	Cu	324.754	8349.6	6062.7	0.0190	mg/L	0.0190 ppm
3	Fe	273.955	4173.9	1184.1	0.0238	mg/L	0.0238 ppm
3	Mg	279.079	808.6	212.4	0.0067	mg/L	0.0067 ppm
3	Mn	257.610	18377.3	17256.6	0.0109	mg/L	0.0109 ppm
3	Mo	202.030	402.6	431.2	0.0228	mg/L	0.0228 ppm
3	Ni	231.604	2705.6	2430.4	0.0480	mg/L	0.0480 ppm
3	Pb	220.353	221.2	36.3	0.0024	mg/L	0.0024 ppm
3	Sb	206.833	104.7	44.1	0.0105	mg/L	0.0105 ppm
3	Se	196.026	94.3	10.0	0.0036	mg/L	0.0036 ppm
3	Tl	190.800	230.0	41.5	0.0121	mg/L	0.0121 ppm
3	V	292.402	1463.3	1300.5	0.0117	mg/L	0.0117 ppm
3	Zn	213.856	1905.5	2488.9	0.0235	mg/L	0.0235 ppm

ean Data ----------

ID: CRI A1415 Seq. No.: 7 Sample No.: 1 A/S Pos: 9

ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0

Data: Original Date: 11/21/02 11:28:04 AM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
328.068	2150.3	0.0107	0.00056	mg/L	0.0107	0.00056	ppm	5.30%
308.215	8142.7	0.2232	0.00051	mg/L	0.2232	0.00051	ppm	0.23%
ıs 188.979	31.0	0.0119	0.00119	mg/L	0.0119	0.00119	ppm	10.02%
ıa 233.527	2392.0	0.0068	0.00019	mg/L	0.0068	0.00019	ppm	2.82%

Be 313.107	6179.6	0.0022	0.00006 mg/L	0.0022	0.00006 ppm	2.62%
Ca 227.547	167.5	0.6406	0.16179 mg/L	0.6406	0.16179 ppm	25.26%
Cd 228.802	294.9	0.0023	0.00051 mg/L	0.0023	0.00051 ppm	21.85%
Co 228.616	2765.0	0.0261	0.00072 mg/L	0.0261	0.00072 ppm	2.74%
Cr 267.716	264.3	0.0029	0.00062 mg/L	0.0029	0.00062 ppm	21.27%
Cu 324.754	6175.1	0.0194	0.00035 mg/L	0.0194	0.00035 ppm	1.82%
Fe 273.955	1329.3	0.0267	0.00267 mg/L	0.0267	0.00267 ppm	10.01%
Mg 279.079	243.0	0.0077	0.00087 mg/L	0.0077	0.00087 ppm	11.32%
Mn 257.610	17548.1	0.0111	0.00029 mg/L	0.0111	0.00029 ppm	2.58%
Mo 202.030	435.3	0.0231	0.00025 mg/L	0.0231	0.00025 ppm	1.10%
Ni 231.604	2463.4	0.0487	0.00085 mg/L	0.0487	0.00085 ppm	1.75%
Pb 220.353	45.0	0.0030	0.00051 mg/L	0.0030	0.00051 ppm	16.83%
Sb 206.833	49.2	0.0118	0.00169 mg/L	0.0118	0.00169 ppm	14.39%
Se 196.026	12.2	0.0044	0.00067 mg/L	0.0044	0.00067 ppm	15.26%
Tl 190.800	36.3	0.0106	0.00133 mg/L	0.0106	0.00133 ppm	12.62%
V 292.402	1317.8	0.0118	0.00039 mg/L	0.0118	0.00039 ppm	3.26%
Zn 213.856	2486.2	0.0234	0.00005 mg/L	0.0234	0.00005 ppm	0.23%

Replicate Data ----------

ID: ICSA 1362 Date: 11/21/02 11:31:13 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1528.7	-454.7	-0.0023	mg/L		
1	Al 308.215	18122829.2	18118231.6	496.6	mg/L		
1	As 188.979	81.5	12.1	-0.0025	mg/L		
1	Ba 233.527	574.0	1439.6	0.0041	mg/L		
1	Be 313.107	-267.4	146.9	0.0001	mg/L		
1	Ca 227.547	135535.6	135252.2	521.4	mg/L		
1	Cd 228.802	-7.2	-96.9	-0.0008	mg/L		
1	Co 228.616	37.0	453.7	0.0043	mg/L		
1	Cr 267.716	633.1	792.9	0.0042	mg/L		
1	Cu 324.754	139.6	-2147.4	0.0018	mg/L		
1	Fe 273.955	9285027.4	9282037.6	186.4	mg/L		
1	Mg 279.079	15586446.1	15585850.0	490.7	mg/L		
1	Mn 257.610	11728.4	10607.6	-0.0006	mg/L		
1	Mo 202.030	195.6	224.1	0.0046	mg/L		
1	Ni 231.604	545.1	269.9	0.0053	mg/L		
1	Pb 220.353	-148.8	-333.7	0.0055	mg/L		
1	Sb 206.833	158.6	98.0	0.0002	mg/L		
1	Se 196.026	27.6	-56.7	-0.0004	mg/L		
1	Tl 190.800	579.3	390.7	0.0010	mg/L		
1	V 292.402	-205.2	-367.9	-0.0033	mg/L		
1	Zn 213.856	2600.0	3183.4	-0.0039	mg/L		
2	Ag 328.068	-1695.7	-621.7	-0.0031	mg/L		
2	Al 308.215	17918596.8	17913999.2	491.0	mg/L		
2	As 188.979	111.8	42.3	0.0095	mg/L		
2	Ba 233.527	463.9	1329.5	0.0038	mg/L		
2	Be 313.107	-56.9	357.3	0.0001	mg/L		
2	Ca 227.547	137285.0	137001.6	528.1	mg/L		
2	Cd 228.802	45.9	-43.9	-0.0003	mg/L		
2	Co 228.616	-57.2	359.5	0.0034	mg/L		
2	Cr 267.716	560.2	720.0	0.0034	mg/L		
2	Cu 324.754	-45.0	-2331.9	0.0011	mg/L		
2	Fe 273.955	9185091.0	9182101.2	184.4	mg/L		
2	Mg 279.079	15331884.2	15331288.0	482.7	mg/L		
2	Mn 257.610	11861.2	10740.5	-0.0004	mg/L		
2	Mo 202.030	135.1	163.7	0.0015	mg/L		
2	Ni 231.604	556.5	281.3	0.0056	mg/L		
2	Pb 220.353	-170.5	-355.4	0.0038	mg/L		
2	Sb 206.833	168.0	107.3	0.0027	mg/L		
2	Se 196.026	51.5	-32.8	0.0081	mg/L		
2	Tl 190.800	555.4	366.8	-0.0046	mg/L		
2	V 292.402	-27.6	-190.3	-0.0017	mg/L		
2	Zn 213.856	2470.7	3054.1	-0.0047	mg/L		
3	Ag 328.068	-1392.2	-318.2	-0.0016	mg/L		
3	Al 308.215	17998057.6	17993460.0	493.2	mg/L		
3	As 188.979	77.9	8.4	-0.0039	mg/L		
3	Ba 233.527	569.0	1434.6	0.0041	mg/L		

3	Be 313.107	-311.1	103.1	0.0000	mg/L
3	Ca 227.547	134656.7	134373.3	518.0	mg/L
3	Cd 228.802	101.4	11.7	0.0001	mg/L
3	Co 228.616	65.7	482.4	0.0046	mg/L
3	Cr 267.716	767.4	927.2	0.0057	mg/L
3	Cu 324.754	93.4	-2193.6	0.0016	mg/L
3	Fe 273.955	9186986.8	9183996.9	184.4	mg/L
3	Mg 279.079	15370733.8	15370137.6	483.9	mg/L
3	Mn 257.610	11721.6	10600.8	-0.0005	mg/L
3	Mo 202.030	95.9	124.4	-0.0006	mg/L
3	Ni 231.604	471.2	196.0	0.0039	mg/L
3	Pb 220.353	-274.3	-459.2	-0.0030	mg/L
3	Sb 206.833	164.4	103.8	0.0017	mg/L
3	Se 196.026	-39.3	-123.6	-0.0250	mg/L
3	Tl 190.800	582.1	393.6	0.0028	mg/L
3	V 292.402	-283.9	-446.6	-0.0040	mg/L
3	Zn 213.856	2621.3	3204.7	-0.0033	mg/L

an Data

D: ICSA 1362 Seq. No.: 8 Sample No.: 3 A/S Pos: 7
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 11:31:13 AM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	-464.9	-0.0023	0.00075	mg/L				32.70%
308.215	18008563.6	493.6	2.82	mg/L				0.57%
188.979	21.0	0.0010	0.00737	mg/L				723.26%
Ba 233.527	1401.2	0.0040	0.00018	mg/L				4.44%
Be 313.107	202.4	0.0001	0.00005	mg/L				67.15%
227.547	135542.3	522.5	5.11	mg/L				0.98%
228.802	-43.0	-0.0003	0.00043	mg/L				126.20%
Co 228.616	431.9	0.0041	0.00061	mg/L				14.89%
Cr 267.716	813.4	0.0044	0.00117	mg/L				26.46%
324.754	-2224.3	0.0015	0.00034	mg/L				22.80%
273.955	9216045.2	185.1	1.15	mg/L				0.62%
g 279.079	15429091.9	485.8	4.32	mg/L				0.89%
Mn 257.610	10649.6	-0.0005	0.00010	mg/L				22.28%
202.030	170.7	0.0019	0.00262	mg/L				140.96%
231.604	249.1	0.0049	0.00091	mg/L				18.59%
220.353	-382.7	0.0021	0.00454	mg/L				215.38%
Sb 206.833	103.0	0.0015	0.00126	mg/L				83.12%
e 196.026	-71.0	-0.0057	0.01720	mg/L				299.13%
190.800	383.7	-0.0003	0.00387	mg/L				>999.9%
292.402	-335.0	-0.0030	0.00118	mg/L				39.20%
Zn 213.856	3147.4	-0.0040	0.00069	mg/L				17.31%

plicate Data

D: ICSAB 1364 Date: 11/21/02 11:34:01 AM

pl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	206395.5	207469.4	1.028	mg/L		
1	Al 308.215	17458776.5	17454179.0	478.4	mg/L		
1	As 188.979	2488.1	2418.6	0.9257	mg/L		
1	Ba 233.527	185123.2	185988.8	0.5265	mg/L		
1	Be 313.107	1359653.8	1360068.1	0.4909	mg/L		
1	Ca 227.547	133262.7	132979.3	512.6	mg/L		
1	Cd 228.802	124205.3	124115.5	0.9796	mg/L		
1	Co 228.616	49466.5	49883.2	0.4715	mg/L		
1	Cr 267.716	45916.1	46075.9	0.5050	mg/L		
1	Cu 324.754	157908.3	155621.4	0.4968	mg/L		
1	Fe 273.955	9037811.6	9034821.8	181.4	mg/L		
1	Mg 279.079	15006542.1	15005946.0	472.5	mg/L		
1	Mn 257.610	792510.7	791390.0	0.4916	mg/L		
1	Mo 202.030	17959.1	17987.6	0.9458	mg/L		
1	Ni 231.604	46767.7	46492.5	0.9187	mg/L		
1	Pb 220.353	13567.0	13382.1	0.9223	mg/L		
1	Sb 206.833	4301.1	4240.4	0.9769	mg/L		
1	Se 196.026	2620.6	2536.3	0.9413	mg/L		
1	Tl 190.800	3632.4	3443.9	0.8925	mg/L		

1	V 292.402	54441.4	54278.7	0.4868 mg/L
1	Zn 213.856	105061.7	105645.1	0.9675 mg/L
2	Ag 328.068	201188.5	202262.5	1.003 mg/L
2	Al 308.215	17806562.4	17801964.9	487.9 mg/L
2	As 188.979	2596.8	2527.4	0.9665 mg/L
2	Ba 233.527	180750.5	181616.1	0.5141 mg/L
2	Be 313.107	1310946.7	1311360.9	0.4733 mg/L
2	Ca 227.547	129243.2	128959.7	497.3 mg/L
2	Cd 228.802	121046.5	120956.8	0.9546 mg/L
2	Co 228.616	48347.5	48764.2	0.4610 mg/L
2	Cr 267.716	44931.2	45091.0	0.4940 mg/L
2	Cu 324.754	153995.1	151708.2	0.4847 mg/L
2	Fe 273.955	9168541.7	9165551.8	184.1 mg/L
2	Mg 279.079	15192272.1	15191675.9	478.3 mg/L
2	Mn 257.610	774439.3	773318.6	0.4802 mg/L
2	Mo 202.030	17923.8	17952.3	0.9438 mg/L
2	Ni 231.604	45231.1	44955.9	0.8883 mg/L
2	Pb 220.353	13539.4	13354.5	0.9209 mg/L
2	Sb 206.833	4230.4	4169.8	0.9599 mg/L
2	Se 196.026	2695.4	2611.1	0.9685 mg/L
2	Tl 190.800	3667.4	3478.9	0.9008 mg/L
2	V 292.402	53543.3	53380.6	0.4788 mg/L
2	Zn 213.856	102063.5	102646.9	0.9347 mg/L
3	Ag 328.068	203284.5	204358.5	1.013 mg/L
3	Al 308.215	17446743.8	17442146.2	478.1 mg/L
3	As 188.979	2564.4	2495.0	0.9548 mg/L
3	Ba 233.527	182436.1	183301.7	0.5189 mg/L
3	Be 313.107	1326920.6	1327334.8	0.4790 mg/L
3	Ca 227.547	131248.6	130965.1	504.9 mg/L
3	Cd 228.802	122806.9	122717.2	0.9685 mg/L
3	Co 228.616	49141.1	49557.8	0.4685 mg/L
3	Cr 267.716	45399.4	45559.2	0.4993 mg/L
3	Cu 324.754	156292.0	154005.1	0.4917 mg/L
3	Fe 273.955	8988912.1	8985922.3	180.5 mg/L
3	Mg 279.079	14969854.6	14969258.5	471.3 mg/L
3	Mn 257.610	783976.9	782856.2	0.4863 mg/L
3	Mo 202.030	17482.9	17511.4	0.9206 mg/L
3	Ni 231.604	46071.2	45796.0	0.9049 mg/L
3	Pb 220.353	13404.3	13219.4	0.9114 mg/L
3	Sb 206.833	4127.6	4066.9	0.9356 mg/L
3	Se 196.026	2581.4	2497.1	0.9268 mg/L
3	Tl 190.800	3560.9	3372.3	0.8719 mg/L
3	V 292.402	53885.7	53723.0	0.4818 mg/L
3	Zn 213.856	103966.4	104549.8	0.9573 mg/L

Mean Data ----------

ID: ICSAB 1364 Seq. No.: 9 Sample No.: 4 A/S Pos: 8

Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0

Data: Original Date: 11/21/02 11:34:01 AM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	204696.8	1.015	0.0130	mg/L				1.28%
Al 308.215	17566096.7	481.5	5.60	mg/L				1.16%
As 188.979	2480.3	0.9490	0.02101	mg/L				2.21%
Ba 233.527	183635.5	0.5198	0.00624	mg/L				1.20%
Be 313.107	1332921.3	0.4811	0.00896	mg/L				1.86%
Ca 227.547	130968.1	504.9	7.66	mg/L				1.52%
Cd 228.802	122596.5	0.9676	0.01249	mg/L				1.29%
Co 228.616	49401.7	0.4670	0.00544	mg/L				1.17%
Cr 267.716	45575.4	0.4994	0.00548	mg/L				1.10%
Cu 324.754	153778.2	0.4911	0.00611	mg/L				1.24%
Fe 273.955	9062098.6	182.0	1.87	mg/L				1.02%
Mg 279.079	15055626.8	474.0	3.75	mg/L				0.79%
Mn 257.610	782521.6	0.4860	0.00574	mg/L				1.18%
Mo 202.030	17817.1	0.9367	0.01401	mg/L				1.50%
Ni 231.604	45748.1	0.9040	0.01520	mg/L				1.68%
Pb 220.353	13318.7	0.9182	0.00594	mg/L				0.65%
Sb 206.833	4159.0	0.9575	0.02075	mg/L				2.17%
Se 196.026	2548.2	0.9455	0.02120	mg/L				2.24%

190.800	3431.7	0.8884	0.01485 mg/L	1.67%
292.402	53794.1	0.4825	0.00407 mg/L	0.84%
213.856	104280.6	0.9532	0.01676 mg/L	1.76%

Replicate Data

: CCV 1379B Date: 11/21/02 11:37:08 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	209213.4	210287.4	1.042	mg/L		
1	Al 308.215	197145.4	192547.8	5.277	mg/L		
1	As 188.979	1419.7	1350.3	0.5237	mg/L		
1	Ba 233.527	1831112.3	1831977.9	5.186	mg/L		
1	Be 313.107	1406709.2	1407123.4	0.5078	mg/L		
1	Ca 227.547	13773.5	13490.0	51.59	mg/L		
1	Cd 228.802	133417.4	133327.6	1.052	mg/L		
1	Co 228.616	222703.8	223120.5	2.109	mg/L		
1	Cr 267.716	47391.0	47550.8	0.5258	mg/L		
1	Cu 324.754	659478.4	657191.4	2.063	mg/L		
1	Fe 273.955	266505.8	263516.0	5.292	mg/L		
1	Mg 279.079	832180.6	831584.5	26.18	mg/L		
1	Mn 257.610	3292861.3	3291740.6	2.074	mg/L		
1	Mo 202.030	39219.5	39248.0	2.079	mg/L		
1	Ni 231.604	106178.8	105903.6	2.093	mg/L		
1	Pb 220.353	7884.1	7699.2	0.5152	mg/L		
1	Sb 206.833	8683.5	8622.9	2.047	mg/L		
1	Se 196.026	1527.4	1443.1	0.5258	mg/L		
1	Tl 190.800	1984.4	1795.9	0.5221	mg/L		
1	V 292.402	233167.9	233005.2	2.090	mg/L		
1	Zn 213.856	219350.6	219934.0	2.074	mg/L		
2	Ag 328.068	203779.2	204853.2	1.015	mg/L		
2	Al 308.215	191946.8	187349.2	5.135	mg/L		
2	As 188.979	1395.5	1326.1	0.5143	mg/L		
2	Ba 233.527	1826183.4	1827049.0	5.172	mg/L		
2	Be 313.107	1416197.9	1416612.1	0.5113	mg/L		
2	Ca 227.547	13533.2	13249.8	50.68	mg/L		
2	Cd 228.802	129652.0	129562.3	1.023	mg/L		
2	Co 228.616	217194.9	217611.6	2.057	mg/L		
2	Cr 267.716	45670.1	45829.9	0.5068	mg/L		
2	Cu 324.754	658880.3	656593.4	2.061	mg/L		
2	Fe 273.955	260527.1	257537.3	5.172	mg/L		
2	Mg 279.079	829536.8	828940.7	26.10	mg/L		
2	Mn 257.610	3274606.2	3273485.5	2.062	mg/L		
2	Mo 202.030	38572.7	38601.2	2.045	mg/L		
2	Ni 231.604	104809.7	104534.5	2.066	mg/L		
2	Pb 220.353	7787.5	7602.6	0.5087	mg/L		
2	Sb 206.833	8582.4	8521.8	2.023	mg/L		
2	Se 196.026	1509.0	1424.8	0.5190	mg/L		
2	Tl 190.800	1968.5	1779.9	0.5175	mg/L		
2	V 292.402	225498.9	225336.1	2.021	mg/L		
2	Zn 213.856	215700.5	216283.9	2.040	mg/L		
3	Ag 328.068	201339.0	202412.9	1.003	mg/L		
3	Al 308.215	186872.4	182274.8	4.996	mg/L		
3	As 188.979	1399.9	1330.5	0.5159	mg/L		
3	Ba 233.527	1808591.4	1809457.0	5.122	mg/L		
3	Be 313.107	1395689.8	1396104.0	0.5039	mg/L		
3	Ca 227.547	13402.5	13119.0	50.18	mg/L		
3	Cd 228.802	128774.1	128684.3	1.016	mg/L		
3	Co 228.616	215321.1	215737.8	2.039	mg/L		
3	Cr 267.716	45386.5	45546.3	0.5036	mg/L		
3	Cu 324.754	656953.2	654666.2	2.055	mg/L		
3	Fe 273.955	253536.1	250546.3	5.032	mg/L		
3	Mg 279.079	821678.0	821081.9	25.85	mg/L		
3	Mn 257.610	3271172.6	3270051.9	2.060	mg/L		
3	Mo 202.030	38151.4	38179.9	2.022	mg/L		
3	Ni 231.604	103705.2	103430.0	2.044	mg/L		
3	Pb 220.353	7787.6	7602.7	0.5087	mg/L		
3	Sb 206.833	8558.9	8498.3	2.018	mg/L		
3	Se 196.026	1495.5	1411.2	0.5141	mg/L		

3	Il 190.800	1963.1	1774.6	0.5159 mg/L
3	V 292.402	223928.9	223766.1	2.007 mg/L
3	Zn 213.856	213211.7	213795.1	2.016 mg/L

Mean Data ----------

ID: CCV 1379B Seq. No.: 10 Sample No.: 5 A/S Pos: 6
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 11:37:08 AM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	205851.2	1.020	0.0200	mg/L				1.96%
Al 308.215	187390.6	5.136	0.1408	mg/L				2.74%
As 188.979	1335.6	0.5180	0.00506	mg/L				0.98%
Ba 233.527	1822828.0	5.160	0.0335	mg/L				0.65%
Be 313.107	1406613.2	0.5076	0.00370	mg/L				0.73%
Ca 227.547	13286.3	50.82	0.720	mg/L				1.42%
Cd 228.802	130524.7	1.030	0.0195	mg/L				1.89%
Co 228.616	218823.3	2.069	0.0363	mg/L				1.75%
Cr 267.716	46309.0	0.5121	0.01199	mg/L				2.34%
Cu 324.754	656150.3	2.060	0.0041	mg/L				0.20%
Fe 273.955	257199.9	5.165	0.1304	mg/L				2.52%
Mg 279.079	827202.3	26.04	0.172	mg/L				0.66%
Mn 257.610	3278426.0	2.065	0.0073	mg/L				0.36%
Mo 202.030	38676.4	2.049	0.0285	mg/L				1.39%
Ni 231.604	104622.7	2.067	0.0245	mg/L				1.18%
Pb 220.353	7634.8	0.5109	0.00373	mg/L				0.73%
Sb 206.833	8547.6	2.030	0.0155	mg/L				0.76%
Se 196.026	1426.4	0.5196	0.00586	mg/L				1.13%
Tl 190.800	1783.4	0.5185	0.00322	mg/L				0.62%
V 292.402	227369.2	2.039	0.0443	mg/L				2.17%
Zn 213.856	216671.0	2.043	0.0291	mg/L				1.43%

Replicate Data ----------

ID: CCB Date: 11/21/02 11:42:58 AM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-1126.9	-52.9	-0.0003	mg/L		
1	Al 308.215	4611.1	13.6	0.0004	mg/L		
1	As 188.979	60.3	-9.2	-0.0035	mg/L		
1	Ba 233.527	-736.9	128.7	0.0004	mg/L		
1	Be 313.107	-35.5	378.7	0.0001	mg/L		
1	Ca 227.547	367.1	83.6	0.3198	mg/L		
1	Cd 228.802	96.5	6.8	0.0001	mg/L		
1	Co 228.616	-326.9	89.8	0.0008	mg/L		
1	Cr 267.716	-135.9	23.9	0.0003	mg/L		
1	Cu 324.754	2294.3	7.4	0.0000	mg/L		
1	Fe 273.955	2474.5	-515.3	-0.0103	mg/L		
1	Mg 279.079	3479.1	2883.0	0.0908	mg/L		
1	Mn 257.610	1136.3	15.6	0.0000	mg/L		
1	Mo 202.030	-26.7	1.8	0.0001	mg/L		
1	Ni 231.604	384.1	108.9	0.0022	mg/L		
1	Pb 220.353	198.8	13.9	0.0009	mg/L		
1	Sb 206.833	60.5	-0.1	0.0000	mg/L		
1	Se 196.026	76.1	-8.2	-0.0030	mg/L		
1	Tl 190.800	202.0	13.4	0.0039	mg/L		
1	V 292.402	313.9	151.2	0.0014	mg/L		
1	Zn 213.856	-553.2	30.2	0.0003	mg/L		
2	Ag 328.068	-1159.0	-85.0	-0.0004	mg/L		
2	Al 308.215	4585.5	-12.1	-0.0003	mg/L		
2	As 188.979	69.0	-0.4	-0.0002	mg/L		
2	Ba 233.527	-770.9	94.7	0.0003	mg/L		
2	Be 313.107	-30.2	384.0	0.0001	mg/L		
2	Ca 227.547	209.3	-74.1	-0.2836	mg/L		
2	Cd 228.802	91.8	2.1	0.0000	mg/L		
2	Co 228.616	-350.4	66.3	0.0006	mg/L		
2	Cr 267.716	-92.4	67.4	0.0007	mg/L		
2	Cu 324.754	2293.3	6.4	0.0000	mg/L		
2	Fe 273.955	2282.0	-707.8	-0.0142	mg/L		

2 Mg 279.079	3389.7	2793.5	0.0880	mg/L
2 Mn 257.610	913.9	-206.8	-0.0001	mg/L
2 Mo 202.030	-24.2	4.3	0.0002	mg/L
2 Ni 231.604	444.3	169.0	0.0033	mg/L
2 Pb 220.353	181.9	-3.0	-0.0002	mg/L
2 Sb 206.833	69.1	8.4	0.0020	mg/L
2 Se 196.026	80.9	-3.4	-0.0012	mg/L
2 Tl 190.800	192.7	4.2	0.0012	mg/L
2 V 292.402	254.0	91.3	0.0008	mg/L
2 Zn 213.856	-554.5	28.9	0.0003	mg/L
3 Ag 328.068	-1069.3	4.7	0.0000	mg/L
3 Al 308.215	4698.5	100.9	0.0028	mg/L
3 As 188.979	67.9	-1.6	-0.0006	mg/L
3 Ba 233.527	-806.2	59.4	0.0002	mg/L
3 Be 313.107	11.1	425.3	0.0002	mg/L
3 Ca 227.547	315.5	32.0	0.1225	mg/L
3 Cd 228.802	103.4	13.6	0.0001	mg/L
3 Co 228.616	-357.2	59.5	0.0006	mg/L
3 Cr 267.716	-72.2	87.6	0.0010	mg/L
3 Cu 324.754	2266.0	-21.0	-0.0001	mg/L
3 Fe 273.955	1978.5	-1011.3	-0.0203	mg/L
3 Mg 279.079	3188.5	2592.4	0.0816	mg/L
3 Mn 257.610	924.1	-196.6	-0.0001	mg/L
3 Mo 202.030	-29.5	-1.0	-0.0001	mg/L
3 Ni 231.604	461.6	186.4	0.0037	mg/L
3 Pb 220.353	178.5	-6.4	-0.0004	mg/L
3 Sb 206.833	57.3	-3.3	-0.0008	mg/L
3 Se 196.026	85.8	1.6	0.0006	mg/L
3 Tl 190.800	190.6	2.1	0.0006	mg/L
3 V 292.402	222.1	59.4	0.0005	mg/L
3 Zn 213.856	-582.5	0.9	0.0000	mg/L

Mean Data

: CCB Seq. No.: 11 Sample No.: 6 A/S Pos: 1
mple Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 11:42:58 AM

ement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-44.4	-0.0002	0.00023	mg/L				102.29%
l 308.215	34.1	0.0009	0.00162	mg/L				173.48%
188.979	-3.7	-0.0014	0.00182	mg/L				128.08%
233.527	94.3	0.0003	0.00010	mg/L				36.75%
e 313.107	396.0	0.0001	0.00001	mg/L				6.45%
a 227.547	13.8	0.0529	0.30765	mg/L				581.43%
d 228.802	7.5	0.0001	0.00005	mg/L				77.66%
228.616	71.9	0.0007	0.00015	mg/L				22.10%
267.716	59.6	0.0007	0.00036	mg/L				54.65%
u 324.754	-2.4	0.0000	0.00005	mg/L				673.43%
e 273.955	-744.8	-0.0150	0.00502	mg/L				33.58%
279.079	2756.3	0.0868	0.00469	mg/L				5.40%
257.610	-129.3	-0.0001	0.00008	mg/L				97.11%
o 202.030	1.7	0.0001	0.00014	mg/L				152.77%
i 231.604	154.8	0.0031	0.00080	mg/L				26.26%
220.353	1.5	0.0001	0.00073	mg/L				713.22%
206.833	1.7	0.0004	0.00145	mg/L				363.37%
e 196.026	-3.3	-0.0012	0.00177	mg/L				145.85%
l 190.800	6.6	0.0019	0.00176	mg/L				92.15%
292.402	100.6	0.0009	0.00042	mg/L				46.31%
213.856	20.0	0.0002	0.00016	mg/L				82.69%

Replicate Data

D: M-BL 02M2368S Date: 11/21/02 11:47:05 AM

Repl# Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1 Ag 328.068	-965.2	108.7	0.0005	mg/L	0.0270	ppm
1 Al 308.215	4492.7	-104.8	-0.0029	mg/L	-0.1437	ppm
1 As 188.979	71.1	1.6	0.0006	mg/L	0.0311	ppm
1 Ba 233.527	-841.8	23.8	0.0001	mg/L	0.0034	ppm

1	Be 313.107	-109.5	304.7	0.0001	mg/L	0.0055 ppm
1	Ca 227.547	222.4	-61.0	-0.2334	mg/L	-11.67 ppm
1	Cd 228.802	101.7	12.0	0.0001	mg/L	0.0047 ppm
1	Co 228.616	-266.7	150.0	0.0014	mg/L	0.0709 ppm
1	Cr 267.716	-241.6	-81.8	-0.0009	mg/L	-0.0452 ppm
1	Cu 324.754	2409.4	122.5	0.0004	mg/L	0.0192 ppm
1	Fe 273.955	1827.4	-1162.4	-0.0233	mg/L	-1.167 ppm
1	Mg 279.079	2311.6	1715.5	0.0540	mg/L	2.701 ppm
1	Mn 257.610	862.9	-257.8	-0.0002	mg/L	-0.0081 ppm
1	Mo 202.030	-33.2	-4.7	-0.0003	mg/L	-0.0126 ppm
1	Ni 231.604	433.9	158.7	0.0031	mg/L	0.1568 ppm
1	Pb 220.353	161.9	-23.0	-0.0015	mg/L	-0.0770 ppm
1	Sb 206.833	60.7	0.0	0.0000	mg/L	0.0004 ppm
1	Se 196.026	81.6	-2.7	-0.0010	mg/L	-0.0488 ppm
1	Tl 190.800	196.0	7.5	0.0022	mg/L	0.1086 ppm
1	V 292.402	241.4	78.7	0.0007	mg/L	0.0353 ppm
1	Zn 213.856	-522.4	61.0	0.0006	mg/L	0.0287 ppm
2	Ag 328.068	-1191.2	-117.2	-0.0006	mg/L	-0.0291 ppm
2	Al 308.215	4530.2	-67.4	-0.0018	mg/L	-0.0924 ppm
2	As 188.979	72.5	3.1	0.0012	mg/L	0.0595 ppm
2	Ba 233.527	-817.1	48.5	0.0001	mg/L	0.0069 ppm
2	Be 313.107	-111.2	303.0	0.0001	mg/L	0.0055 ppm
2	Ca 227.547	183.0	-100.4	-0.3841	mg/L	-19.20 ppm
2	Cd 228.802	98.2	8.4	0.0001	mg/L	0.0033 ppm
2	Co 228.616	-403.4	13.3	0.0001	mg/L	0.0063 ppm
2	Cr 267.716	-210.8	-51.0	-0.0006	mg/L	-0.0282 ppm
2	Cu 324.754	2322.9	35.9	0.0001	mg/L	0.0056 ppm
2	Fe 273.955	1745.1	-1244.8	-0.0250	mg/L	-1.250 ppm
2	Mg 279.079	2186.3	1590.2	0.0501	mg/L	2.503 ppm
2	Mn 257.610	825.9	-294.9	-0.0002	mg/L	-0.0093 ppm
2	Mo 202.030	-30.5	-2.0	-0.0001	mg/L	-0.0053 ppm
2	Ni 231.604	354.5	79.3	0.0016	mg/L	0.0783 ppm
2	Pb 220.353	185.1	0.2	0.0000	mg/L	0.0006 ppm
2	Sb 206.833	66.6	6.0	0.0014	mg/L	0.0716 ppm
2	Se 196.026	86.7	2.4	0.0009	mg/L	0.0435 ppm
2	Tl 190.800	190.3	1.7	0.0005	mg/L	0.0251 ppm
2	V 292.402	231.2	68.5	0.0006	mg/L	0.0307 ppm
2	Zn 213.856	-518.3	65.1	0.0006	mg/L	0.0307 ppm
3	Ag 328.068	-1175.3	-101.3	-0.0005	mg/L	-0.0251 ppm
3	Al 308.215	4586.7	-10.9	-0.0003	mg/L	-0.0149 ppm
3	As 188.979	67.8	-1.7	-0.0006	mg/L	-0.0318 ppm
3	Ba 233.527	-837.9	27.7	0.0001	mg/L	0.0039 ppm
3	Be 313.107	-483.3	-69.1	0.0000	mg/L	-0.0012 ppm
3	Ca 227.547	279.7	-3.7	-0.0142	mg/L	-0.7098 ppm
3	Cd 228.802	102.0	12.2	0.0001	mg/L	0.0048 ppm
3	Co 228.616	-305.5	111.2	0.0011	mg/L	0.0526 ppm
3	Cr 267.716	-142.7	17.1	0.0002	mg/L	0.0094 ppm
3	Cu 324.754	2156.0	-130.9	-0.0004	mg/L	-0.0205 ppm
3	Fe 273.955	1680.9	-1308.9	-0.0263	mg/L	-1.314 ppm
3	Mg 279.079	2283.9	1687.7	0.0531	mg/L	2.657 ppm
3	Mn 257.610	967.2	-153.6	-0.0001	mg/L	-0.0048 ppm
3	Mo 202.030	-32.3	-3.8	-0.0002	mg/L	-0.0101 ppm
3	Ni 231.604	271.5	-3.7	-0.0001	mg/L	-0.0037 ppm
3	Pb 220.353	175.9	-9.0	-0.0006	mg/L	-0.0302 ppm
3	Sb 206.833	65.8	5.2	0.0012	mg/L	0.0621 ppm
3	Se 196.026	79.4	-4.9	-0.0018	mg/L	-0.0887 ppm
3	Tl 190.800	193.3	4.7	0.0014	mg/L	0.0688 ppm
3	V 292.402	292.0	129.2	0.0012	mg/L	0.0579 ppm
3	Zn 213.856	-526.6	56.8	0.0005	mg/L	0.0268 ppm

Mean Data ----------

ID: M-BL 02M2368S Seq. No.: 12 Sample No.: 2 A/S Pos: 10

Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 11:47:05 AM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
Ag 328.068	-36.6	-0.0002	0.00063	mg/L	-0.0091	0.03126	ppm	344.55%
Al 308.215	-61.0	-0.0017	0.00130	mg/L	-0.0837	0.06484	ppm	77.50%
As 188.979	1.0	0.0004	0.00093	mg/L	0.0196	0.04672	ppm	238.59%

	233.527	33.3	0.0001	0.00004	mg/L	0.0047	0.00188	ppm	39.80%
	313.107	179.5	0.0001	0.00008	mg/L	0.0032	0.00389	ppm	119.92%
a	227.547	-55.1	-0.2106	0.18599	mg/L	-10.53	9.299	ppm	88.33%
d	228.802	10.9	0.0001	0.00002	mg/L	0.0043	0.00083	ppm	19.44%
	228.616	91.5	0.0009	0.00067	mg/L	0.0432	0.03329	ppm	76.98%
	267.716	-38.6	-0.0004	0.00056	mg/L	-0.0213	0.02798	ppm	131.21%
	324.754	9.2	0.0000	0.00040	mg/L	0.0014	0.02021	ppm	>999.9%
e	273.955	-1238.7	-0.0249	0.00147	mg/L	-1.244	0.0737	ppm	5.93%
	279.079	1664.4	0.0524	0.00207	mg/L	2.620	0.1036	ppm	3.95%
	257.610	-235.4	-0.0001	0.00005	mg/L	-0.0074	0.00231	ppm	31.12%
	202.030	-3.5	-0.0002	0.00007	mg/L	-0.0093	0.00368	ppm	39.53%
i	231.604	78.1	0.0015	0.00160	mg/L	0.0772	0.08023	ppm	103.98%
b	220.353	-10.6	-0.0007	0.00078	mg/L	-0.0356	0.03910	ppm	109.97%
	206.833	3.7	0.0009	0.00077	mg/L	0.0447	0.03864	ppm	86.44%
	196.026	-1.7	-0.0006	0.00136	mg/L	-0.0313	0.06777	ppm	216.23%
l	190.800	4.6	0.0013	0.00084	mg/L	0.0675	0.04179	ppm	61.94%
	292.402	92.1	0.0008	0.00029	mg/L	0.0413	0.01459	ppm	35.30%
	213.856	60.9	0.0006	0.00004	mg/L	0.0287	0.00196	ppm	6.81%

eplicate Data ----------

D: LCS-02M2368 Date: 11/21/02 11:50:33 AM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	203142.1	204216.1	1.012	mg/L	50.62	ppm
1	Al 308.215	80131.7	75534.1	2.070	mg/L	103.5	ppm
1	As 188.979	1349.4	1279.9	0.4995	mg/L	24.97	ppm
1	Ba 233.527	1495779.1	1496644.7	4.237	mg/L	211.8	ppm
1	Be 313.107	545753.6	546167.8	0.1971	mg/L	9.856	ppm
1	Ca 227.547	5583.4	5299.9	20.27	mg/L	1014	ppm
1	Cd 228.802	33310.6	33220.9	0.2622	mg/L	13.11	ppm
1	Co 228.616	112772.6	113189.3	1.070	mg/L	53.50	ppm
1	Cr 267.716	94225.2	94385.0	1.044	mg/L	52.18	ppm
1	Cu 324.754	323878.4	321591.5	1.010	mg/L	50.48	ppm
1	Fe 273.955	51131.0	48141.1	0.9668	mg/L	48.34	ppm
1	Mg 279.079	321604.4	321008.2	10.11	mg/L	505.4	ppm
1	Mn 257.610	1608949.7	1607829.0	1.013	mg/L	50.65	ppm
1	Mo 202.030	39125.7	39154.2	2.074	mg/L	103.7	ppm
1	Ni 231.604	53642.4	53367.2	1.055	mg/L	52.73	ppm
1	Pb 220.353	46986.6	46801.7	3.132	mg/L	156.6	ppm
1	Sb 206.833	2171.8	2111.2	0.4746	mg/L	23.73	ppm
1	Se 196.026	1461.0	1376.8	0.5001	mg/L	25.00	ppm
1	Tl 190.800	1999.6	1811.1	0.5266	mg/L	26.33	ppm
1	V 292.402	229833.2	229670.5	2.060	mg/L	103.0	ppm
1	Zn 213.856	56543.0	57126.4	0.5388	mg/L	26.94	ppm
2	Ag 328.068	200704.5	201778.4	1.000	mg/L	50.01	ppm
2	Al 308.215	79558.5	74960.9	2.055	mg/L	102.7	ppm
2	As 188.979	1345.0	1275.5	0.4977	mg/L	24.88	ppm
2	Ba 233.527	1484577.9	1485443.5	4.205	mg/L	210.2	ppm
2	Be 313.107	542165.4	542579.6	0.1958	mg/L	9.791	ppm
2	Ca 227.547	5542.9	5259.5	20.12	mg/L	1006	ppm
2	Cd 228.802	32565.5	32475.8	0.2563	mg/L	12.82	ppm
2	Co 228.616	110692.3	111109.0	1.050	mg/L	52.52	ppm
2	Cr 267.716	93113.8	93273.6	1.031	mg/L	51.57	ppm
2	Cu 324.754	318873.8	316586.8	0.9938	mg/L	49.69	ppm
2	Fe 273.955	50966.9	47977.1	0.9635	mg/L	48.17	ppm
2	Mg 279.079	318007.6	317411.5	9.994	mg/L	499.7	ppm
2	Mn 257.610	1585003.0	1583882.3	0.9979	mg/L	49.89	ppm
2	Mo 202.030	38700.5	38729.0	2.052	mg/L	102.6	ppm
2	Ni 231.604	52761.0	52485.7	1.037	mg/L	51.86	ppm
2	Pb 220.353	46431.7	46246.8	3.094	mg/L	154.7	ppm
2	Sb 206.833	2159.4	2098.8	0.4720	mg/L	23.60	ppm
2	Se 196.026	1448.5	1364.2	0.4955	mg/L	24.78	ppm
2	Tl 190.800	1979.4	1790.9	0.5207	mg/L	26.03	ppm
2	V 292.402	226970.3	226807.5	2.034	mg/L	101.7	ppm
2	Zn 213.856	55117.9	55701.3	0.5253	mg/L	26.27	ppm
3	Ag 328.068	201076.6	202150.6	1.002	mg/L	50.10	ppm
3	Al 308.215	79716.1	75118.5	2.059	mg/L	102.9	ppm
3	As 188.979	1354.9	1285.4	0.5016	mg/L	25.08	ppm

3 Ba 233.527	1488209.8	1489075.4	4.215	mg/L	210.8 ppm
3 Be 313.107	542770.8	543185.0	0.1960	mg/L	9.802 ppm
3 Ca 227.547	5585.1	5301.7	20.28	mg/L	1014 ppm
3 Cd 228.802	32938.2	32848.4	0.2593	mg/L	12.96 ppm
3 Co 228.616	111832.7	112249.4	1.061	mg/L	53.05 ppm
3 Cr 267.716	93905.1	94064.8	1.040	mg/L	52.01 ppm
3 Cu 324.754	321596.9	319310.0	1.002	mg/L	50.12 ppm
3 Fe 273.955	50518.5	47528.7	0.9545	mg/L	47.72 ppm
3 Mg 279.079	320020.7	319424.6	10.06	mg/L	502.9 ppm
3 Mn 257.610	1599303.3	1598182.5	1.007	mg/L	50.34 ppm
3 Mo 202.030	39155.7	39184.2	2.076	mg/L	103.8 ppm
3 Ni 231.604	53418.8	53143.6	1.050	mg/L	52.51 ppm
3 Pb 220.353	46837.8	46652.9	3.122	mg/L	156.1 ppm
3 Sb 206.833	2170.5	2109.9	0.4744	mg/L	23.72 ppm
3 Se 196.026	1465.4	1381.1	0.5016	mg/L	25.08 ppm
3 Tl 190.800	1990.6	1802.0	0.5239	mg/L	26.20 ppm
3 V 292.402	228810.6	228647.8	2.051	mg/L	102.5 ppm
3 Zn 213.856	56117.7	56701.1	0.5348	mg/L	26.74 ppm

lean Data ----------

D: LCS-02M2368 Seq. No.: 13 Sample No.: 3 A/S Pos: 11
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 11:50:33 AM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	202715.0	1.005	0.0065	mg/L	50.24	0.325	ppm	0.65%
l 308.215	75204.5	2.061	0.0081	mg/L	103.1	0.41	ppm	0.39%
s 188.979	1280.3	0.4996	0.00194	mg/L	24.98	0.097	ppm	0.39%
a 233.527	1490387.9	4.219	0.0162	mg/L	210.9	0.81	ppm	0.38%
e 313.107	543977.5	0.1963	0.00069	mg/L	9.816	0.0347	ppm	0.35%
a 227.547	5287.0	20.22	0.091	mg/L	1011	4.6	ppm	0.45%
d 228.802	32848.4	0.2593	0.00294	mg/L	12.96	0.147	ppm	1.13%
o 228.616	112182.6	1.060	0.0098	mg/L	53.02	0.492	ppm	0.93%
r 267.716	93907.8	1.038	0.0063	mg/L	51.92	0.316	ppm	0.61%
u 324.754	319162.8	1.002	0.0079	mg/L	50.09	0.393	ppm	0.79%
e 273.955	47882.3	0.9616	0.00637	mg/L	48.08	0.318	ppm	0.66%
g 279.079	319281.4	10.05	0.057	mg/L	502.6	2.84	ppm	0.56%
n 257.610	1596631.3	1.006	0.0076	mg/L	50.30	0.380	ppm	0.75%
o 202.030	39022.4	2.067	0.0135	mg/L	103.4	0.67	ppm	0.65%
i 231.604	52998.8	1.047	0.0091	mg/L	52.36	0.453	ppm	0.86%
b 220.353	46567.1	3.116	0.0192	mg/L	155.8	0.96	ppm	0.62%
b 206.833	2106.6	0.4736	0.00145	mg/L	23.68	0.072	ppm	0.31%
e 196.026	1374.0	0.4991	0.00318	mg/L	24.95	0.159	ppm	0.64%
l 190.800	1801.3	0.5237	0.00294	mg/L	26.19	0.147	ppm	0.56%
292.402	228375.3	2.048	0.0130	mg/L	102.4	0.65	ppm	0.64%
n 213.856	56509.6	0.5330	0.00690	mg/L	26.65	0.345	ppm	1.29%

atrix Check Sample: LCS-02M2368

lement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
g 328.068	0.9998	1.005	0.007	mg/L	100.507
l 308.215	1.998	2.061	0.008	mg/L	103.146
s 188.979	0.5004	0.4996	0.002	mg/L	99.839
a 233.527	4.000	4.219	0.016	mg/L	105.468
e 313.107	0.2001	0.1963	0.001	mg/L	98.129
a 227.547	19.79	20.22	0.091	mg/L	102.159
d 228.802	0.2501	0.2593	0.003	mg/L	103.667
o 228.616	1.001	1.060	0.010	mg/L	105.958
r 267.716	0.9996	1.038	0.006	mg/L	103.881
u 324.754	1.000	1.002	0.008	mg/L	100.187
e 273.955	0.9751	0.9616	0.006	mg/L	98.646
g 279.079	10.05	10.05	0.057	mg/L	100.003
n 257.610	0.9999	1.006	0.008	mg/L	100.606
o 202.030	2.000	2.067	0.013	mg/L	103.365
i 231.604	1.002	1.047	0.009	mg/L	104.572
b 220.353	2.999	3.116	0.019	mg/L	103.885
b 206.833	0.5009	0.4736	0.001	mg/L	94.548
e 196.026	0.4994	0.4991	0.003	mg/L	99.938
l 190.800	0.5013	0.5237	0.003	mg/L	104.475

292.402	2.001	2.048	0.013	mg/L	102.370
213.856	0.5006	0.5330	0.007	mg/L	106.476

Replicate Data

ID: LCSD-02M2368 Date: 11/21/02 11:54:05 AM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	201046.9	202120.8	1.002	mg/L	50.10	ppm
1	Al 308.215	79608.9	75011.3	2.056	mg/L	102.8	ppm
1	As 188.979	1356.6	1287.1	0.5022	mg/L	25.11	ppm
1	Ba 233.527	1492189.7	1493055.3	4.226	mg/L	211.3	ppm
1	Be 313.107	544634.5	545048.8	0.1967	mg/L	9.835	ppm
1	Ca 227.547	5621.0	5337.6	20.41	mg/L	1021	ppm
1	Cd 228.802	32609.9	32520.2	0.2567	mg/L	12.83	ppm
1	Co 228.616	111443.2	111859.9	1.057	mg/L	52.87	ppm
1	Cr 267.716	93620.6	93780.4	1.037	mg/L	51.85	ppm
1	Cu 324.754	319505.0	317218.0	0.9958	mg/L	49.79	ppm
1	Fe 273.955	50752.3	47762.4	0.9592	mg/L	47.96	ppm
1	Mg 279.079	319258.4	318662.2	10.03	mg/L	501.7	ppm
1	Mn 257.610	1592507.0	1591386.3	1.003	mg/L	50.13	ppm
1	Mo 202.030	38885.7	38914.2	2.061	mg/L	103.1	ppm
1	Ni 231.604	53184.4	52909.2	1.045	mg/L	52.27	ppm
1	Pb 220.353	46503.4	46318.5	3.099	mg/L	155.0	ppm
1	Sb 206.833	2191.0	2130.3	0.4793	mg/L	23.97	ppm
1	Se 196.026	1473.9	1389.6	0.5047	mg/L	25.24	ppm
1	Tl 190.800	1984.0	1795.4	0.5220	mg/L	26.10	ppm
1	V 292.402	227660.6	227497.9	2.040	mg/L	102.0	ppm
1	Zn 213.856	55361.0	55944.4	0.5276	mg/L	26.38	ppm
2	Ag 328.068	205646.7	206720.7	1.025	mg/L	51.24	ppm
2	Al 308.215	81494.5	76896.9	2.108	mg/L	105.4	ppm
2	As 188.979	1356.4	1287.0	0.5023	mg/L	25.12	ppm
2	Ba 233.527	1522192.9	1523058.5	4.311	mg/L	215.6	ppm
2	Be 313.107	556183.7	556597.9	0.2009	mg/L	10.04	ppm
2	Ca 227.547	5621.0	5337.6	20.41	mg/L	1021	ppm
2	Cd 228.802	33657.4	33567.7	0.2649	mg/L	13.25	ppm
2	Co 228.616	114294.4	114711.1	1.084	mg/L	54.22	ppm
2	Cr 267.716	95742.3	95902.1	1.060	mg/L	53.02	ppm
2	Cu 324.754	329378.2	327091.2	1.027	mg/L	51.34	ppm
2	Fe 273.955	51387.4	48397.5	0.9719	mg/L	48.60	ppm
2	Mg 279.079	326323.6	325727.5	10.26	mg/L	512.8	ppm
2	Mn 257.610	1634998.8	1633878.1	1.029	mg/L	51.47	ppm
2	Mo 202.030	39926.0	39954.5	2.116	mg/L	105.8	ppm
2	Ni 231.604	54467.7	54192.5	1.071	mg/L	53.54	ppm
2	Pb 220.353	47809.1	47624.2	3.187	mg/L	159.3	ppm
2	Sb 206.833	2194.5	2133.9	0.4795	mg/L	23.98	ppm
2	Se 196.026	1480.0	1395.8	0.5070	mg/L	25.35	ppm
2	Tl 190.800	2014.0	1825.5	0.5307	mg/L	26.54	ppm
2	V 292.402	233310.1	233147.3	2.091	mg/L	104.6	ppm
2	Zn 213.856	57299.3	57882.7	0.5459	mg/L	27.30	ppm
3	Ag 328.068	206907.2	207981.2	1.031	mg/L	51.55	ppm
3	Al 308.215	81917.4	77319.8	2.119	mg/L	106.0	ppm
3	As 188.979	1375.0	1305.6	0.5095	mg/L	25.48	ppm
3	Ba 233.527	1524679.0	1525544.6	4.318	mg/L	215.9	ppm
3	Be 313.107	553238.3	553652.5	0.1998	mg/L	9.991	ppm
3	Ca 227.547	5644.0	5360.5	20.50	mg/L	1025	ppm
3	Cd 228.802	33534.4	33444.6	0.2640	mg/L	13.20	ppm
3	Co 228.616	114152.4	114569.1	1.083	mg/L	54.15	ppm
3	Cr 267.716	96239.2	96398.9	1.066	mg/L	53.30	ppm
3	Cu 324.754	330098.8	327811.8	1.029	mg/L	51.45	ppm
3	Fe 273.955	51574.6	48584.8	0.9757	mg/L	48.78	ppm
3	Mg 279.079	325691.4	325095.2	10.24	mg/L	511.8	ppm
3	Mn 257.610	1631257.2	1630136.5	1.027	mg/L	51.35	ppm
3	Mo 202.030	39849.4	39877.9	2.112	mg/L	105.6	ppm
3	Ni 231.604	54164.3	53889.1	1.065	mg/L	53.24	ppm
3	Pb 220.353	47765.6	47580.7	3.184	mg/L	159.2	ppm
3	Sb 206.833	2211.4	2150.8	0.4834	mg/L	24.17	ppm
3	Se 196.026	1467.3	1383.1	0.5023	mg/L	25.12	ppm
3	Tl 190.800	2016.5	1828.0	0.5315	mg/L	26.57	ppm

3 V 292.402	234575.9	234413.2	2.102 mg/L	105.1 ppm
3 Zn 213.856	56971.6	57555.0	0.5428 mg/L	27.14 ppm

Mean Data

ID: LCSD-02M2368 Seq. No.: 14 Sample No.: 4 A/S Pos: 12
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 11:54:05 AM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	205607.6	1.019	0.0153	mg/L	50.96	0.765	ppm	1.50%
Al 308.215	76409.4	2.094	0.0337	mg/L	104.7	1.68	ppm	1.61%
As 188.979	1293.2	0.5047	0.00419	mg/L	25.23	0.209	ppm	0.83%
Ba 233.527	1513886.1	4.285	0.0512	mg/L	214.3	2.56	ppm	1.19%
Be 313.107	551766.4	0.1991	0.00217	mg/L	9.957	0.1083	ppm	1.09%
Ca 227.547	5345.2	20.44	0.051	mg/L	1022	2.5	ppm	0.25%
Cd 228.802	33177.5	0.2619	0.00452	mg/L	13.09	0.226	ppm	1.73%
Co 228.616	113713.4	1.075	0.0152	mg/L	53.75	0.759	ppm	1.41%
Cr 267.716	95360.5	1.054	0.0154	mg/L	52.72	0.769	ppm	1.46%
Cu 324.754	324040.4	1.017	0.0186	mg/L	50.86	0.929	ppm	1.83%
Fe 273.955	48248.2	0.9689	0.00866	mg/L	48.45	0.433	ppm	0.89%
Mg 279.079	323161.6	10.17	0.123	mg/L	508.7	6.15	ppm	1.21%
Mn 257.610	1618467.0	1.020	0.0148	mg/L	50.98	0.741	ppm	1.45%
Mo 202.030	39582.2	2.097	0.0307	mg/L	104.8	1.54	ppm	1.46%
Ni 231.604	53663.6	1.060	0.0133	mg/L	53.02	0.663	ppm	1.25%
Pb 220.353	47174.5	3.156	0.0496	mg/L	157.8	2.48	ppm	1.57%
Sb 206.833	2138.3	0.4808	0.00229	mg/L	24.04	0.115	ppm	0.48%
Se 196.026	1389.5	0.5047	0.00231	mg/L	25.23	0.115	ppm	0.46%
Tl 190.800	1816.3	0.5281	0.00527	mg/L	26.40	0.263	ppm	1.00%
V 292.402	231686.1	2.078	0.0330	mg/L	103.9	1.65	ppm	1.59%
Zn 213.856	57127.4	0.5388	0.00978	mg/L	26.94	0.489	ppm	1.82%

Matrix Check Sample: LCSD-02M2368

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
Ag 328.068	0.9998	1.019	0.015	mg/L	101.941
Al 308.215	1.998	2.094	0.034	mg/L	104.797
As 188.979	0.5004	0.5047	0.004	mg/L	100.859
Ba 233.527	4.000	4.285	0.051	mg/L	107.131
Be 313.107	0.2001	0.1991	0.002	mg/L	99.534
Ca 227.547	19.79	20.44	0.051	mg/L	103.271
Cd 228.802	0.2501	0.2619	0.005	mg/L	104.706
Co 228.616	1.001	1.075	0.015	mg/L	107.405
Cr 267.716	0.9996	1.054	0.015	mg/L	105.488
Cu 324.754	1.000	1.017	0.019	mg/L	101.718
Fe 273.955	0.9751	0.9689	0.009	mg/L	99.381
Mg 279.079	10.05	10.17	0.123	mg/L	101.225
Mn 257.610	0.9999	1.020	0.015	mg/L	101.982
Mo 202.030	2.000	2.097	0.031	mg/L	104.847
Ni 231.604	1.002	1.060	0.013	mg/L	105.885
Pb 220.353	2.999	3.156	0.050	mg/L	105.240
Sb 206.833	0.5009	0.4808	0.002	mg/L	95.972
Se 196.026	0.4994	0.5047	0.002	mg/L	101.060
Tl 190.800	0.5013	0.5281	0.005	mg/L	105.344
V 292.402	2.001	2.078	0.033	mg/L	103.854
Zn 213.856	0.5006	0.5388	0.010	mg/L	107.641

Replicate Data

ID: 6141-1 S F=50 Date: 11/21/02 11:57:37 AM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-1283.3	-209.4	-0.0010	mg/L	-0.0519	ppm
1	Al 308.215	2091761.5	2087163.9	57.21	mg/L	2860	ppm
1	As 188.979	-2.0	-71.4	0.0407	mg/L	2.037	ppm
1	Ba 233.527	171924.8	172790.4	0.4891	mg/L	24.46	ppm
1	Be 313.107	1418.2	1832.5	0.0007	mg/L	0.0331	ppm
1	Ca 227.547	682550.2	682266.8	2609	mg/L	130500	ppm
1	Cd 228.802	405.7	316.0	0.0025	mg/L	0.1247	ppm

1	Co	228.616	2586.7	3003.4	0.0284	mg/L	1.420 ppm
1	Cr	267.716	11348.1	11507.9	0.1272	mg/L	6.362 ppm
1	Cu	324.754	13168.4	10881.4	0.0342	mg/L	1.708 ppm
1	Fe	273.955	3151959.8	3148969.9	63.24	mg/L	3162 ppm
1	Mg	279.079	2008328.2	2007732.1	63.21	mg/L	3161 ppm
1	Mn	257.610	2309696.9	2308576.2	1.454	mg/L	72.72 ppm
1	Mo	202.030	-57.9	-29.4	-0.0016	mg/L	-0.0779 ppm
1	Ni	231.604	3207.6	2932.4	0.0579	mg/L	2.897 ppm
1	Pb	220.353	628.9	444.0	0.0422	mg/L	2.109 ppm
1	Sb	206.833	94.4	33.7	0.0018	mg/L	0.0925 ppm
1	Se	196.026	52.0	-32.2	0.0032	mg/L	0.1590 ppm
1	Tl	190.800	280.0	91.5	0.0120	mg/L	0.5987 ppm
1	V	292.402	13924.4	13761.6	0.1234	mg/L	6.171 ppm
1	Zn	213.856	14974.2	15557.6	0.1400	mg/L	7.002 ppm
2	Ag	328.068	-1236.5	-162.5	-0.0008	mg/L	-0.0403 ppm
2	Al	308.215	2145464.7	2140867.1	58.68	mg/L	2934 ppm
2	As	188.979	-11.1	-80.6	0.0376	mg/L	1.879 ppm
2	Ba	233.527	168942.4	169808.0	0.4807	mg/L	24.03 ppm
2	Be	313.107	1318.3	1732.5	0.0006	mg/L	0.0313 ppm
2	Ca	227.547	696423.0	696139.5	2663	mg/L	133100 ppm
2	Cd	228.802	396.3	306.6	0.0024	mg/L	0.1210 ppm
2	Co	228.616	2525.4	2942.1	0.0278	mg/L	1.391 ppm
2	Cr	267.716	11248.2	11408.0	0.1261	mg/L	6.307 ppm
2	Cu	324.754	13050.3	10763.4	0.0338	mg/L	1.689 ppm
2	Fe	273.955	3213882.3	3210892.5	64.48	mg/L	3224 ppm
2	Mg	279.079	2038193.8	2037597.7	64.15	mg/L	3208 ppm
2	Mn	257.610	2354374.5	2353253.8	1.483	mg/L	74.13 ppm
2	Mo	202.030	-62.1	-33.6	-0.0018	mg/L	-0.0891 ppm
2	Ni	231.604	3158.0	2882.8	0.0570	mg/L	2.848 ppm
2	Pb	220.353	629.7	444.8	0.0425	mg/L	2.125 ppm
2	Sb	206.833	87.8	27.1	0.0003	mg/L	0.0128 ppm
2	Se	196.026	42.9	-41.4	0.0001	mg/L	0.0061 ppm
2	Tl	190.800	281.6	93.1	0.0121	mg/L	0.6056 ppm
2	V	292.402	14037.2	13874.5	0.1244	mg/L	6.222 ppm
2	Zn	213.856	15175.8	15759.2	0.1418	mg/L	7.091 ppm
3	Ag	328.068	-992.7	81.2	0.0004	mg/L	0.0201 ppm
3	Al	308.215	2135395.4	2130797.9	58.40	mg/L	2920 ppm
3	As	188.979	-12.2	-81.7	0.0374	mg/L	1.870 ppm
3	Ba	233.527	168747.6	169613.2	0.4801	mg/L	24.01 ppm
3	Be	313.107	1282.1	1696.3	0.0006	mg/L	0.0306 ppm
3	Ca	227.547	688678.2	688394.8	2633	mg/L	131600 ppm
3	Cd	228.802	384.5	294.7	0.0023	mg/L	0.1163 ppm
3	Co	228.616	2526.0	2942.7	0.0278	mg/L	1.391 ppm
3	Cr	267.716	11299.9	11459.7	0.1267	mg/L	6.336 ppm
3	Cu	324.754	13110.6	10823.6	0.0340	mg/L	1.699 ppm
3	Fe	273.955	3209218.4	3206228.5	64.39	mg/L	3219 ppm
3	Mg	279.079	2031117.8	2030521.6	63.93	mg/L	3197 ppm
3	Mn	257.610	2328255.7	2327135.0	1.466	mg/L	73.31 ppm
3	Mo	202.030	-57.4	-28.9	-0.0015	mg/L	-0.0766 ppm
3	Ni	231.604	3112.2	2837.0	0.0561	mg/L	2.803 ppm
3	Pb	220.353	633.5	448.7	0.0426	mg/L	2.132 ppm
3	Sb	206.833	92.3	31.6	0.0013	mg/L	0.0660 ppm
3	Se	196.026	47.9	-36.4	0.0019	mg/L	0.0965 ppm
3	Tl	190.800	279.9	91.4	0.0116	mg/L	0.5811 ppm
3	V	292.402	13883.8	13721.0	0.1231	mg/L	6.153 ppm
3	Zn	213.856	15101.9	15685.3	0.1411	mg/L	7.056 ppm

an Data ----------

: 6141-1 S F=50 Seq. No.: 15 Sample No.: 5 A/S Pos: 13
mple Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 11:57:37 AM

ement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-96.9	-0.0005	0.00077	mg/L	-0.0240	0.03867	ppm	161.04%
l 308.215	2119609.6	58.10	0.782	mg/L	2905	39.1	ppm	1.35%
188.979	-77.9	0.0386	0.00188	mg/L	1.929	0.0939	ppm	4.87%
233.527	170737.2	0.4833	0.00504	mg/L	24.17	0.252	ppm	1.04%
e 313.107	1753.7	0.0006	0.00003	mg/L	0.0316	0.00127	ppm	4.02%
a 227.547	688933.7	2635	26.6	mg/L	131700	1329.5	ppm	1.01%

Cd 228.802	305.8	0.0024	0.00008	mg/L	0.1207	0.00420	ppm	3.48%
Co 228.616	2962.7	0.0280	0.00033	mg/L	1.400	0.0167	ppm	1.19%
Cr 267.716	11458.5	0.1267	0.00055	mg/L	6.335	0.0276	ppm	0.44%
Cu 324.754	10822.8	0.0340	0.00019	mg/L	1.699	0.0093	ppm	0.55%
Fe 273.955	3188697.0	64.04	0.693	mg/L	3202	34.6	ppm	1.08%
Mg 279.079	2025283.8	63.77	0.491	mg/L	3188	24.6	ppm	0.77%
Mn 257.610	2329655.0	1.468	0.0141	mg/L	73.39	0.707	ppm	0.96%
Mo 202.030	-30.7	-0.0016	0.00014	mg/L	-0.0812	0.00683	ppm	8.41%
Ni 231.604	2884.1	0.0570	0.00094	mg/L	2.849	0.0471	ppm	1.65%
Pb 220.353	445.8	0.0424	0.00024	mg/L	2.122	0.0118	ppm	0.56%
Sb 206.833	30.8	0.0011	0.00081	mg/L	0.0571	0.04060	ppm	71.10%
Se 196.026	-36.7	0.0017	0.00154	mg/L	0.0872	0.07687	ppm	88.17%
Tl 190.800	92.0	0.0119	0.00025	mg/L	0.5951	0.01265	ppm	2.13%
V 292.402	13785.7	0.1236	0.00071	mg/L	6.182	0.0357	ppm	0.58%
Zn 213.856	15667.4	0.1410	0.00089	mg/L	7.050	0.0446	ppm	0.63%

Replicate Data ----------

ID: 6141-1 D F=50 Date: 11/21/02 12:01:14 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1261.7	-187.7	-0.0009	mg/L	-0.0465	ppm
1	Al 308.215	2165345.0	2160747.4	59.22	mg/L	2961	ppm
1	As 188.979	-7.5	-76.9	0.0412	mg/L	2.061	ppm
1	Ba 233.527	171532.9	172398.5	0.4880	mg/L	24.40	ppm
1	Be 313.107	1217.2	1631.4	0.0006	mg/L	0.0294	ppm
1	Ca 227.547	708970.9	708687.5	2710	mg/L	135500	ppm
1	Cd 228.802	378.1	288.4	0.0023	mg/L	0.1138	ppm
1	Co 228.616	2509.9	2926.6	0.0277	mg/L	1.383	ppm
1	Cr 267.716	11313.7	11473.5	0.1269	mg/L	6.343	ppm
1	Cu 324.754	12831.2	10544.2	0.0331	mg/L	1.655	ppm
1	Fe 273.955	3244775.2	3241785.3	65.10	mg/L	3255	ppm
1	Mg 279.079	2070910.3	2070314.2	65.18	mg/L	3259	ppm
1	Mn 257.610	2393039.5	2391918.8	1.507	mg/L	75.35	ppm
1	Mo 202.030	-90.7	-62.2	-0.0033	mg/L	-0.1647	ppm
1	Ni 231.604	3124.7	2849.5	0.0563	mg/L	2.815	ppm
1	Pb 220.353	624.8	439.9	0.0424	mg/L	2.119	ppm
1	Sb 206.833	95.6	35.0	0.0021	mg/L	0.1044	ppm
1	Se 196.026	54.5	-29.8	0.0045	mg/L	0.2245	ppm
1	Tl 190.800	276.1	87.5	0.0104	mg/L	0.5196	ppm
1	V 292.402	13993.9	13831.1	0.1240	mg/L	6.202	ppm
1	Zn 213.856	15132.9	15716.3	0.1413	mg/L	7.067	ppm
2	Ag 328.068	-1393.2	-319.2	-0.0016	mg/L	-0.0791	ppm
2	Al 308.215	2104020.0	2099422.4	57.54	mg/L	2877	ppm
2	As 188.979	-8.9	-78.3	0.0368	mg/L	1.839	ppm
2	Ba 233.527	163076.3	163941.9	0.4641	mg/L	23.20	ppm
2	Be 313.107	1020.0	1434.2	0.0005	mg/L	0.0259	ppm
2	Ca 227.547	679304.9	679021.4	2597	mg/L	129900	ppm
2	Cd 228.802	392.4	302.7	0.0024	mg/L	0.1194	ppm
2	Co 228.616	2488.4	2905.1	0.0275	mg/L	1.373	ppm
2	Cr 267.716	10879.0	11038.8	0.1221	mg/L	6.103	ppm
2	Cu 324.754	12513.9	10227.0	0.0321	mg/L	1.605	ppm
2	Fe 273.955	3174839.3	3171849.5	63.70	mg/L	3185	ppm
2	Mg 279.079	2005632.1	2005036.0	63.13	mg/L	3156	ppm
2	Mn 257.610	2305664.3	2304543.5	1.452	mg/L	72.60	ppm
2	Mo 202.030	-91.7	-63.2	-0.0033	mg/L	-0.1673	ppm
2	Ni 231.604	3078.1	2802.9	0.0554	mg/L	2.769	ppm
2	Pb 220.353	625.3	440.4	0.0419	mg/L	2.096	ppm
2	Sb 206.833	96.2	35.6	0.0024	mg/L	0.1217	ppm
2	Se 196.026	36.8	-47.5	-0.0023	mg/L	-0.1128	ppm
2	Tl 190.800	284.5	96.0	0.0131	mg/L	0.6568	ppm
2	V 292.402	13224.9	13062.2	0.1172	mg/L	5.858	ppm
2	Zn 213.856	15157.5	15740.9	0.1417	mg/L	7.086	ppm
3	Ag 328.068	-1263.3	-189.3	-0.0009	mg/L	-0.0469	ppm
3	Al 308.215	2053215.6	2048618.0	56.15	mg/L	2807	ppm
3	As 188.979	-16.5	-86.0	0.0341	mg/L	1.703	ppm
3	Ba 233.527	172587.5	173453.1	0.4910	mg/L	24.55	ppm
3	Be 313.107	1168.2	1582.4	0.0006	mg/L	0.0286	ppm
3	Ca 227.547	671145.2	670861.7	2566	mg/L	128300	ppm

3	Cd 228.802	394.0	304.2	0.0024	mg/L	0.1201 ppm
3	Co 228.616	2476.0	2892.7	0.0273	mg/L	1.367 ppm
3	Cr 267.716	11412.8	11572.6	0.1280	mg/L	6.398 ppm
3	Cu 324.754	13299.3	11012.4	0.0346	mg/L	1.728 ppm
3	Fe 273.955	3101193.3	3098203.5	62.22	mg/L	3111 ppm
3	Mg 279.079	1977608.4	1977012.2	62.25	mg/L	3112 ppm
3	Mn 257.610	2274694.4	2273573.7	1.432	mg/L	71.62 ppm
3	Mo 202.030	-88.0	-59.5	-0.0032	mg/L	-0.1576 ppm
3	Ni 231.604	3061.7	2786.5	0.0551	mg/L	2.753 ppm
3	Pb 220.353	634.3	449.4	0.0423	mg/L	2.117 ppm
3	Sb 206.833	87.4	26.8	0.0002	mg/L	0.0104 ppm
3	Se 196.026	53.5	-30.8	0.0035	mg/L	0.1733 ppm
3	Tl 190.800	283.3	94.8	0.0132	mg/L	0.6593 ppm
3	V 292.402	14022.8	13860.1	0.1243	mg/L	6.215 ppm
3	Zn 213.856	15245.8	15829.2	0.1427	mg/L	7.136 ppm

lean Data ----------

): 6141-1 D F=50 Seq. No.: 16 Sample No.: 6 A/S Pos: 14
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 12:01:14 PM

	Mean Corr.	Mean	Calib		Mean	Sample		
lement	Intensity	Conc.	Std.Dev.	Units	Conc.	Std.Dev.	Units	RSD
g 328.068	-232.1	-0.0012	0.00037	mg/L	-0.0575	0.01870	ppm	32.52%
l 308.215	2102929.3	57.64	1.539	mg/L	2882	76.9	ppm	2.67%
s 188.979	-80.4	0.0374	0.00361	mg/L	1.868	0.1806	ppm	9.67%
233.527	169931.2	0.4810	0.01476	mg/L	24.05	0.738	ppm	3.07%
313.107	1549.3	0.0006	0.00004	mg/L	0.0280	0.00185	ppm	6.63%
a 227.547	686190.2	2624	76.1	mg/L	131200	3806.7	ppm	2.90%
d 228.802	298.4	0.0024	0.00007	mg/L	0.1178	0.00345	ppm	2.93%
228.616	2908.1	0.0275	0.00016	mg/L	1.375	0.0081	ppm	0.59%
267.716	11361.6	0.1256	0.00314	mg/L	6.282	0.1570	ppm	2.50%
u 324.754	10594.5	0.0333	0.00124	mg/L	1.663	0.0620	ppm	3.73%
e 273.955	3170612.8	63.67	1.442	mg/L	3184	72.1	ppm	2.26%
279.079	2017454.1	63.52	1.507	mg/L	3176	75.4	ppm	2.37%
257.610	2323345.4	1.464	0.0387	mg/L	73.19	1.933	ppm	2.64%
o 202.030	-61.6	-0.0033	0.00010	mg/L	-0.1632	0.00502	ppm	3.07%
i 231.604	2813.0	0.0556	0.00065	mg/L	2.779	0.0323	ppm	1.16%
220.353	443.2	0.0422	0.00025	mg/L	2.110	0.0127	ppm	0.60%
206.833	32.5	0.0016	0.00120	mg/L	0.0788	0.05986	ppm	75.92%
196.026	-36.0	0.0019	0.00364	mg/L	0.0950	0.18178	ppm	191.38%
l 190.800	92.8	0.0122	0.00160	mg/L	0.6119	0.07995	ppm	13.07%
292.402	13584.4	0.1218	0.00406	mg/L	6.092	0.2029	ppm	3.33%
213.856	15762.1	0.1419	0.00071	mg/L	7.096	0.0353	ppm	0.50%

atrix Check Sample: 6141-1 D F=50

	Expected	Measured		Calib	Relative
lement	Conc.	Conc.	Std.Dev.	Units	% Diff.
g 328.068	-0.0005	-0.0012	0.000	mg/L	-82.189
308.215	58.10	57.64	1.539	mg/L	0.790
188.979	0.0386	0.0374	0.004	mg/L	3.230
a 233.527	0.4833	0.4810	0.015	mg/L	0.473
e 313.107	0.0006	0.0006	0.000	mg/L	12.377
227.547	2635	2624	76.133	mg/L	0.399
228.802	0.0024	0.0024	0.000	mg/L	2.428
o 228.616	0.0280	0.0275	0.000	mg/L	1.860
r 267.716	0.1267	0.1256	0.003	mg/L	0.849
324.754	0.0340	0.0333	0.001	mg/L	2.132
273.955	64.04	63.67	1.442	mg/L	0.569
g 279.079	63.77	63.52	1.507	mg/L	0.387
n 257.610	1.468	1.464	0.039	mg/L	0.271
o 202.030	-0.0016	-0.0033	0.000	mg/L	-67.089
231.604	0.0570	0.0556	0.001	mg/L	2.496
220.353	0.0424	0.0422	0.000	mg/L	0.555
b 206.833	0.0011	0.0016	0.001	mg/L	31.980
e 196.026	0.0017	0.0019	0.004	mg/L	8.574
190.800	0.0119	0.0122	0.002	mg/L	2.779
292.402	0.1236	0.1218	0.004	mg/L	1.471
n 213.856	0.1410	0.1419	0.001	mg/L	0.659

Replicate Data

ID: 6141-1 1/5 F=250 Date: 11/21/02 12:04:47 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1033.0	41.0	0.0002	mg/L	0.0508	ppm
1	Al 308.215	453345.0	448747.4	12.30	mg/L	3075	ppm
1	As 188.979	45.0	-24.4	0.0050	mg/L	1.259	ppm
1	Ba 233.527	37394.0	38259.6	0.1083	mg/L	27.08	ppm
1	Be 313.107	31.8	446.0	0.0002	mg/L	0.0402	ppm
1	Ca 227.547	145136.9	144853.4	554.0	mg/L	138500	ppm
1	Cd 228.802	147.9	58.2	0.0005	mg/L	0.1148	ppm
1	Co 228.616	353.3	770.0	0.0073	mg/L	1.820	ppm
1	Cr 267.716	2329.1	2488.9	0.0275	mg/L	6.880	ppm
1	Cu 324.754	4605.3	2318.4	0.0073	mg/L	1.819	ppm
1	Fe 273.955	728782.8	725792.9	14.58	mg/L	3644	ppm
1	Mg 279.079	457048.0	456451.9	14.37	mg/L	3593	ppm
1	Mn 257.610	524195.4	523074.7	0.3295	mg/L	82.39	ppm
1	Mo 202.030	-37.3	-8.8	-0.0005	mg/L	-0.1170	ppm
1	Ni 231.604	1029.1	753.9	0.0149	mg/L	3.724	ppm
1	Pb 220.353	286.3	101.4	0.0088	mg/L	2.192	ppm
1	Sb 206.833	69.2	8.6	0.0021	mg/L	0.5127	ppm
1	Se 196.026	75.7	-8.6	0.0013	mg/L	0.3151	ppm
1	Tl 190.800	212.4	23.9	0.0041	mg/L	1.014	ppm
1	V 292.402	2975.8	2813.1	0.0252	mg/L	6.307	ppm
1	Zn 213.856	2569.1	3152.5	0.0297	mg/L	7.433	ppm
2	Ag 328.068	-1253.5	-179.5	-0.0009	mg/L	-0.2225	ppm
2	Al 308.215	425400.6	420803.0	11.53	mg/L	2883	ppm
2	As 188.979	43.5	-25.9	0.0038	mg/L	0.9446	ppm
2	Ba 233.527	35249.2	36114.8	0.1022	mg/L	25.56	ppm
2	Be 313.107	43.6	457.9	0.0002	mg/L	0.0413	ppm
2	Ca 227.547	138225.6	137942.2	527.6	mg/L	131900	ppm
2	Cd 228.802	146.0	56.3	0.0004	mg/L	0.1110	ppm
2	Co 228.616	334.0	750.7	0.0071	mg/L	1.774	ppm
2	Cr 267.716	2260.7	2420.5	0.0268	mg/L	6.691	ppm
2	Cu 324.754	4546.7	2259.8	0.0071	mg/L	1.773	ppm
2	Fe 273.955	683977.8	680987.9	13.68	mg/L	3419	ppm
2	Mg 279.079	433228.2	432632.1	13.62	mg/L	3405	ppm
2	Mn 257.610	496523.0	495402.3	0.3121	mg/L	78.03	ppm
2	Mo 202.030	-37.0	-8.5	-0.0004	mg/L	-0.1124	ppm
2	Ni 231.604	1034.8	759.5	0.0150	mg/L	3.752	ppm
2	Pb 220.353	256.0	71.1	0.0066	mg/L	1.662	ppm
2	Sb 206.833	75.8	15.2	0.0036	mg/L	0.9070	ppm
2	Se 196.026	58.3	-26.0	-0.0053	mg/L	-1.329	ppm
2	Tl 190.800	202.2	13.6	0.0003	mg/L	0.0699	ppm
2	V 292.402	2972.3	2809.6	0.0252	mg/L	6.299	ppm
2	Zn 213.856	2580.7	3164.1	0.0298	mg/L	7.460	ppm
3	Ag 328.068	-1164.9	-91.0	-0.0005	mg/L	-0.1127	ppm
3	Al 308.215	420035.0	415437.4	11.39	mg/L	2847	ppm
3	As 188.979	44.9	-24.5	0.0040	mg/L	1.008	ppm
3	Ba 233.527	34496.8	35362.5	0.1001	mg/L	25.03	ppm
3	Be 313.107	-186.3	227.9	0.0001	mg/L	0.0206	ppm
3	Ca 227.547	135514.5	135231.1	517.2	mg/L	129300	ppm
3	Cd 228.802	137.0	47.3	0.0004	mg/L	0.0933	ppm
3	Co 228.616	308.8	725.5	0.0069	mg/L	1.714	ppm
3	Cr 267.716	2279.9	2439.6	0.0270	mg/L	6.744	ppm
3	Cu 324.754	4649.4	2362.5	0.0074	mg/L	1.854	ppm
3	Fe 273.955	678668.6	675678.8	13.57	mg/L	3392	ppm
3	Mg 279.079	427607.7	427011.6	13.44	mg/L	3361	ppm
3	Mn 257.610	489567.3	488446.5	0.3077	mg/L	76.93	ppm
3	Mo 202.030	-45.2	-16.7	-0.0009	mg/L	-0.2217	ppm
3	Ni 231.604	1007.2	731.9	0.0145	mg/L	3.616	ppm
3	Pb 220.353	268.0	83.1	0.0074	mg/L	1.853	ppm
3	Sb 206.833	60.8	0.1	0.0000	mg/L	0.0074	ppm
3	Se 196.026	69.6	-14.7	-0.0012	mg/L	-0.3108	ppm
3	Tl 190.800	206.2	17.7	0.0015	mg/L	0.3707	ppm
3	V 292.402	2979.4	2816.6	0.0253	mg/L	6.315	ppm
3	Zn 213.856	2579.4	3162.8	0.0298	mg/L	7.457	ppm

an Data

: 6141-1 1/5 F=250 Seq. No.: 17 Sample No.: 7 A/S Pos: 15
mple Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 250.0
Data: Original Date: 11/21/02 12:04:47 PM

ement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	-76.5	-0.0004	0.00055	mg/L	-0.0948	0.13750	ppm	145.01%
Al 308.215	428329.3	11.74	0.490	mg/L	2935	122.5	ppm	4.18%
188.979	-24.9	0.0043	0.00067	mg/L	1.070	0.1663	ppm	15.54%
233.527	36578.9	0.1035	0.00426	mg/L	25.89	1.064	ppm	4.11%
Be 313.107	377.3	0.0001	0.00005	mg/L	0.0340	0.01168	ppm	34.33%
Ca 227.547	139342.2	532.9	18.98	mg/L	133200	4744.1	ppm	3.56%
228.802	53.9	0.0004	0.00005	mg/L	0.1064	0.01148	ppm	10.79%
228.616	748.7	0.0071	0.00021	mg/L	1.769	0.0528	ppm	2.98%
r 267.716	2449.7	0.0271	0.00039	mg/L	6.772	0.0975	ppm	1.44%
Cu 324.754	2313.6	0.0073	0.00016	mg/L	1.816	0.0404	ppm	2.23%
273.955	694153.2	13.94	0.553	mg/L	3485	138.2	ppm	3.97%
279.079	438698.5	13.81	0.492	mg/L	3453	123.0	ppm	3.56%
257.610	502307.8	0.3165	0.01154	mg/L	79.12	2.885	ppm	3.65%
Mo 202.030	-11.4	-0.0006	0.00025	mg/L	-0.1504	0.06181	ppm	41.10%
Ni 231.604	748.5	0.0148	0.00029	mg/L	3.697	0.0721	ppm	1.95%
220.353	85.2	0.0076	0.00107	mg/L	1.902	0.2684	ppm	14.11%
206.833	8.0	0.0019	0.00180	mg/L	0.4757	0.45091	ppm	94.79%
Se 196.026	-16.4	-0.0018	0.00332	mg/L	-0.4416	0.82986	ppm	187.93%
Tl 190.800	18.4	0.0019	0.00193	mg/L	0.4848	0.48217	ppm	99.46%
292.402	2813.1	0.0252	0.00003	mg/L	6.307	0.0079	ppm	0.13%
213.856	3159.8	0.0298	0.00006	mg/L	7.450	0.0149	ppm	0.20%

Replicate Data

: 6141-1 MS F=50 Date: 11/21/02 12:08:24 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	203997.7	205071.6	1.017	mg/L	50.83	ppm
1	Al 308.215	2071112.6	2066515.0	56.64	mg/L	2832	ppm
1	As 188.979	1230.7	1161.3	0.5189	mg/L	25.94	ppm
1	Ba 233.527	1495153.0	1496018.6	4.235	mg/L	211.7	ppm
1	Be 313.107	522622.9	523037.1	0.1888	mg/L	9.438	ppm
1	Ca 227.547	658407.3	658123.9	2517	mg/L	125900	ppm
1	Cd 228.802	31434.1	31344.3	0.2474	mg/L	12.37	ppm
1	Co 228.616	100543.6	100960.3	0.9544	mg/L	47.72	ppm
1	Cr 267.716	96800.9	96960.7	1.072	mg/L	53.61	ppm
1	Cu 324.754	308293.0	306006.1	0.9606	mg/L	48.03	ppm
1	Fe 273.955	3053109.4	3050119.6	61.25	mg/L	3063	ppm
1	Mg 279.079	2208564.7	2207968.5	69.52	mg/L	3476	ppm
1	Mn 257.610	3645920.2	3644799.5	2.296	mg/L	114.8	ppm
1	Mo 202.030	36124.4	36152.9	1.915	mg/L	95.76	ppm
1	Ni 231.604	48959.5	48684.3	0.9620	mg/L	48.10	ppm
1	Pb 220.353	41123.1	40938.2	2.751	mg/L	137.6	ppm
1	Sb 206.833	2084.3	2023.7	0.4504	mg/L	22.52	ppm
1	Se 196.026	1413.7	1329.4	0.4972	mg/L	24.86	ppm
1	Tl 190.800	1794.1	1605.5	0.4522	mg/L	22.61	ppm
1	V 292.402	230896.0	230733.2	2.069	mg/L	103.5	ppm
1	Zn 213.856	64563.5	65146.9	0.6079	mg/L	30.40	ppm
2	Ag 328.068	204001.3	205075.3	1.017	mg/L	50.83	ppm
2	Al 308.215	2046404.4	2041806.8	55.96	mg/L	2798	ppm
2	As 188.979	1248.4	1179.0	0.5247	mg/L	26.23	ppm
2	Ba 233.527	1475179.8	1476045.4	4.178	mg/L	208.9	ppm
2	Be 313.107	509420.1	509834.3	0.1840	mg/L	9.200	ppm
2	Ca 227.547	648222.5	647939.1	2478	mg/L	123900	ppm
2	Cd 228.802	31475.3	31385.5	0.2477	mg/L	12.39	ppm
2	Co 228.616	100328.3	100745.0	0.9523	mg/L	47.62	ppm
2	Cr 267.716	96998.9	97158.7	1.074	mg/L	53.72	ppm
2	Cu 324.754	311560.3	309273.4	0.9709	mg/L	48.54	ppm
2	Fe 273.955	3012055.0	3009065.1	60.43	mg/L	3021	ppm
2	Mg 279.079	2170858.4	2170262.3	68.33	mg/L	3417	ppm
2	Mn 257.610	3598854.9	3597734.2	2.267	mg/L	113.3	ppm
2	Mo 202.030	35662.0	35690.5	1.891	mg/L	94.53	ppm
2	Ni 231.604	48217.9	47942.7	0.9474	mg/L	47.37	ppm

2 Pb 220.353	40991.8	40806.9	2.742	mg/L	137.1 ppm
2 Sb 206.833	2090.7	2030.0	0.4519	mg/L	22.59 ppm
2 Se 196.026	1402.5	1318.2	0.4929	mg/L	24.65 ppm
2 Tl 190.800	1799.6	1611.0	0.4540	mg/L	22.70 ppm
2 V 292.402	232647.2	232484.5	2.085	mg/L	104.3 ppm
2 Zn 213.856	64617.1	65200.5	0.6085	mg/L	30.43 ppm
3 Ag 328.068	202495.1	203569.1	1.009	mg/L	50.46 ppm
3 Al 308.215	2060921.3	2056323.7	56.36	mg/L	2818 ppm
3 As 188.979	1245.9	1176.4	0.5240	mg/L	26.20 ppm
3 Ba 233.527	1484417.0	1485282.6	4.204	mg/L	210.2 ppm
3 Be 313.107	516441.1	516855.3	0.1865	mg/L	9.327 ppm
3 Ca 227.547	652190.7	651907.2	2493	mg/L	124700 ppm
3 Cd 228.802	31027.8	30938.0	0.2442	mg/L	12.21 ppm
3 Co 228.616	99877.4	100294.1	0.9481	mg/L	47.40 ppm
3 Cr 267.716	96149.5	96309.3	1.065	mg/L	53.25 ppm
3 Cu 324.754	311736.3	309449.4	0.9714	mg/L	48.57 ppm
3 Fe 273.955	3034061.2	3031071.4	60.87	mg/L	3044 ppm
3 Mg 279.079	2188729.9	2188133.7	68.89	mg/L	3445 ppm
3 Mn 257.610	3608435.7	3607315.0	2.273	mg/L	113.6 ppm
3 Mo 202.030	35852.6	35881.1	1.901	mg/L	95.04 ppm
3 Ni 231.604	48234.7	47959.5	0.9477	mg/L	47.38 ppm
3 Pb 220.353	40986.1	40801.2	2.742	mg/L	137.1 ppm
3 Sb 206.833	2070.3	2009.7	0.4473	mg/L	22.36 ppm
3 Se 196.026	1410.7	1326.4	0.4960	mg/L	24.80 ppm
3 Tl 190.800	1804.5	1616.0	0.4553	mg/L	22.76 ppm
3 V 292.402	229535.6	229372.8	2.057	mg/L	102.9 ppm
3 Zn 213.856	64533.5	65116.9	0.6077	mg/L	30.38 ppm

Mean Data ----------

ID: 6141-1 MS F=50 Seq. No.: 18 Sample No.: 8 A/S Pos: 16
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 12:08:24 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	204572.0	1.014	0.0043	mg/L	50.70	0.215	ppm	0.42%
Al 308.215	2054881.8	56.32	0.340	mg/L	2816	17.0	ppm	0.60%
As 188.979	1172.2	0.5225	0.00317	mg/L	26.13	0.159	ppm	0.61%
Ba 233.527	1485782.2	4.206	0.0283	mg/L	210.3	1.41	ppm	0.67%
Be 313.107	516575.6	0.1864	0.00238	mg/L	9.322	0.1192	ppm	1.28%
Ca 227.547	652656.7	2496	19.6	mg/L	124800	981.7	ppm	0.79%
Cd 228.802	31222.6	0.2464	0.00195	mg/L	12.32	0.098	ppm	0.79%
Co 228.616	100666.5	0.9516	0.00321	mg/L	47.58	0.161	ppm	0.34%
Cr 267.716	96809.6	1.070	0.0049	mg/L	53.52	0.246	ppm	0.46%
Cu 324.754	308243.0	0.9676	0.00609	mg/L	48.38	0.304	ppm	0.63%
Fe 273.955	3030085.4	60.85	0.413	mg/L	3043	20.6	ppm	0.68%
Mg 279.079	2188788.2	68.91	0.594	mg/L	3446	29.7	ppm	0.86%
Mn 257.610	3616616.2	2.279	0.0157	mg/L	113.9	0.78	ppm	0.69%
Mo 202.030	35908.2	1.902	0.0123	mg/L	95.11	0.615	ppm	0.65%
Ni 231.604	48195.5	0.9523	0.00837	mg/L	47.62	0.418	ppm	0.88%
Pb 220.353	40848.8	2.745	0.0053	mg/L	137.3	0.26	ppm	0.19%
Sb 206.833	2021.1	0.4498	0.00235	mg/L	22.49	0.118	ppm	0.52%
Se 196.026	1324.7	0.4954	0.00221	mg/L	24.77	0.110	ppm	0.45%
Tl 190.800	1610.8	0.4538	0.00156	mg/L	22.69	0.078	ppm	0.34%
V 292.402	230863.5	2.071	0.0140	mg/L	103.5	0.70	ppm	0.68%
Zn 213.856	65154.8	0.6081	0.00043	mg/L	30.40	0.021	ppm	0.07%

Matrix Check Sample: 6141-1 MS F=50

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
Ag 328.068	0.9995	1.014	0.004	mg/L	101.458
Al 308.215	60.10	56.32	0.340	mg/L	-88.704
As 188.979	0.5386	0.5225	0.003	mg/L	96.790
Ba 233.527	4.483	4.206	0.028	mg/L	93.062
Be 313.107	0.2006	0.1864	0.002	mg/L	92.900
Ca 227.547	2655	2496	19.634	mg/L	-693.738
Cd 228.802	0.2524	0.2464	0.002	mg/L	97.604
Co 228.616	1.028	0.9516	0.003	mg/L	92.358
Cr 267.716	1.127	1.070	0.005	mg/L	94.377

Cu	324.754	1.034	0.9676	0.006	mg/L	93.364
Fe	273.955	65.04	60.85	0.413	mg/L	-318.527
Mg	279.079	73.77	68.91	0.594	mg/L	51.480
Mn	257.610	2.468	2.279	0.016	mg/L	81.081
Mo	202.030	1.998	1.902	0.012	mg/L	95.188
Ni	231.604	1.057	0.9523	0.008	mg/L	89.536
Pb	220.353	3.042	2.745	0.005	mg/L	90.093
Sb	206.833	0.5011	0.4498	0.002	mg/L	89.739
Se	196.026	0.5017	0.4954	0.002	mg/L	98.727
Tl	190.800	0.5119	0.4538	0.002	mg/L	88.380
V	292.402	2.124	2.071	0.014	mg/L	97.345
Zn	213.856	0.6410	0.6081	0.000	mg/L	93.412

Replicate Data

ID: 6141-1 MSD F=50 Date: 11/21/02 12:12:05 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	203622.7	204696.6	1.015	mg/L	50.74	ppm
1	Al 308.215	2088909.6	2084312.0	57.13	mg/L	2856	ppm
1	As 188.979	1240.8	1171.3	0.5232	mg/L	26.16	ppm
1	Ba 233.527	1506393.1	1507258.7	4.267	mg/L	213.3	ppm
1	Be 313.107	522659.5	523073.7	0.1888	mg/L	9.439	ppm
1	Ca 227.547	663402.0	663118.5	2536	mg/L	126800	ppm
1	Cd 228.802	31611.9	31522.2	0.2488	mg/L	12.44	ppm
1	Co 228.616	100366.4	100783.1	0.9527	mg/L	47.63	ppm
1	Cr 267.716	96605.3	96765.1	1.070	mg/L	53.50	ppm
1	Cu 324.754	310401.2	308114.3	0.9672	mg/L	48.36	ppm
1	Fe 273.955	3075912.7	3072922.8	61.71	mg/L	3086	ppm
1	Mg 279.079	2221128.2	2220532.1	69.91	mg/L	3496	ppm
1	Mn 257.610	3678322.0	3677201.3	2.317	mg/L	115.8	ppm
1	Mo 202.030	35736.3	35764.8	1.895	mg/L	94.73	ppm
1	Ni 231.604	48530.5	48255.3	0.9535	mg/L	47.68	ppm
1	Pb 220.353	41009.1	40824.2	2.744	mg/L	137.2	ppm
1	Sb 206.833	2098.6	2038.0	0.4539	mg/L	22.69	ppm
1	Se 196.026	1406.3	1322.0	0.4946	mg/L	24.73	ppm
1	Tl 190.800	1785.8	1597.2	0.4496	mg/L	22.48	ppm
1	V 292.402	231854.9	231692.1	2.078	mg/L	103.9	ppm
1	Zn 213.856	64444.5	65027.9	0.6068	mg/L	30.34	ppm
2	Ag 328.068	203194.1	204268.0	1.013	mg/L	50.63	ppm
2	Al 308.215	2140799.2	2136201.6	58.55	mg/L	2927	ppm
2	As 188.979	1225.0	1155.5	0.5180	mg/L	25.90	ppm
2	Ba 233.527	1530605.2	1531470.8	4.335	mg/L	216.8	ppm
2	Be 313.107	535316.3	535730.5	0.1933	mg/L	9.667	ppm
2	Ca 227.547	672670.3	672386.9	2572	mg/L	128600	ppm
2	Cd 228.802	31024.8	30935.0	0.2442	mg/L	12.21	ppm
2	Co 228.616	99731.9	100148.6	0.9467	mg/L	47.33	ppm
2	Cr 267.716	96157.5	96317.2	1.065	mg/L	53.25	ppm
2	Cu 324.754	311424.5	309137.6	0.9704	mg/L	48.52	ppm
2	Fe 273.955	3141699.0	3138709.1	63.03	mg/L	3152	ppm
2	Mg 279.079	2248831.1	2248235.0	70.79	mg/L	3539	ppm
2	Mn 257.610	3710932.6	3709811.9	2.337	mg/L	116.9	ppm
2	Mo 202.030	35823.1	35851.6	1.899	mg/L	94.96	ppm
2	Ni 231.604	48162.9	47887.7	0.9463	mg/L	47.31	ppm
2	Pb 220.353	40886.6	40701.7	2.736	mg/L	136.8	ppm
2	Sb 206.833	2080.2	2019.6	0.4495	mg/L	22.48	ppm
2	Se 196.026	1385.7	1301.4	0.4874	mg/L	24.37	ppm
2	Tl 190.800	1797.2	1608.6	0.4526	mg/L	22.63	ppm
2	V 292.402	229814.6	229651.9	2.060	mg/L	103.0	ppm
2	Zn 213.856	63879.8	64463.2	0.6013	mg/L	30.07	ppm
3	Ag 328.068	197805.5	198879.5	0.9859	mg/L	49.29	ppm
3	Al 308.215	2075996.0	2071398.4	56.77	mg/L	2839	ppm
3	As 188.979	1217.2	1147.7	0.5137	mg/L	25.68	ppm
3	Ba 233.527	1494609.7	1495475.3	4.233	mg/L	211.7	ppm
3	Be 313.107	521774.1	522188.3	0.1885	mg/L	9.423	ppm
3	Ca 227.547	661352.7	661069.3	2528	mg/L	126400	ppm
3	Cd 228.802	30627.0	30537.3	0.2410	mg/L	12.05	ppm
3	Co 228.616	98233.6	98650.3	0.9325	mg/L	46.63	ppm
3	Cr 267.716	93800.8	93960.6	1.039	mg/L	51.95	ppm

3 Cu 324.754	308766.0	306479.1	0.9621 mg/L	48.10 ppm
3 Fe 273.955	3047407.2	3044417.3	61.14 mg/L	3057 ppm
3 Mg 279.079	2205365.3	2204769.2	69.42 mg/L	3471 ppm
3 Mn 257.610	3654476.6	3653355.9	2.302 mg/L	115.1 ppm
3 Mo 202.030	34994.2	35022.7	1.855 mg/L	92.76 ppm
3 Ni 231.604	47845.2	47570.0	0.9400 mg/L	47.00 ppm
3 Pb 220.353	40383.2	40198.4	2.702 mg/L	135.1 ppm
3 Sb 206.833	2057.5	1996.9	0.4449 mg/L	22.25 ppm
3 Se 196.026	1395.8	1311.5	0.4906 mg/L	24.53 ppm
3 Tl 190.800	1795.1	1606.6	0.4525 mg/L	22.63 ppm
3 V 292.402	224400.7	224238.0	2.011 mg/L	100.6 ppm
3 Zn 213.856	63927.3	64510.7	0.6020 mg/L	30.10 ppm

Mean Data ----------

ID: 6141-1 MSD F=50 Seq. No.: 19 Sample No.: 9 A/S Pos: 17
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 12:12:05 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	202614.7	1.004	0.0161	mg/L	50.22	0.804	ppm	1.60%
Al 308.215	2097304.0	57.48	0.940	mg/L	2874	47.0	ppm	1.64%
As 188.979	1158.2	0.5183	0.00477	mg/L	25.92	0.238	ppm	0.92%
Ba 233.527	1511401.6	4.278	0.0519	mg/L	213.9	2.60	ppm	1.21%
Be 313.107	526997.5	0.1902	0.00273	mg/L	9.510	0.1367	ppm	1.44%
Ca 227.547	665524.9	2545	23.1	mg/L	127300	1153.2	ppm	0.91%
Cd 228.802	30998.2	0.2447	0.00391	mg/L	12.23	0.196	ppm	1.60%
Co 228.616	99860.7	0.9440	0.01035	mg/L	47.20	0.518	ppm	1.10%
Cr 267.716	95681.0	1.058	0.0167	mg/L	52.90	0.833	ppm	1.57%
Cu 324.754	307910.3	0.9666	0.00421	mg/L	48.33	0.210	ppm	0.44%
Fe 273.955	3085349.8	61.96	0.971	mg/L	3098	48.6	ppm	1.57%
Mg 279.079	2224512.1	70.04	0.693	mg/L	3502	34.6	ppm	0.99%
Mn 257.610	3680123.0	2.319	0.0179	mg/L	115.9	0.89	ppm	0.77%
Mo 202.030	35546.4	1.883	0.0241	mg/L	94.15	1.207	ppm	1.28%
Ni 231.604	47904.3	0.9466	0.00678	mg/L	47.33	0.339	ppm	0.72%
Pb 220.353	40574.8	2.727	0.0223	mg/L	136.4	1.11	ppm	0.82%
Sb 206.833	2018.2	0.4494	0.00445	mg/L	22.47	0.223	ppm	0.99%
Se 196.026	1311.6	0.4909	0.00360	mg/L	24.54	0.180	ppm	0.73%
Tl 190.800	1604.2	0.4516	0.00168	mg/L	22.58	0.084	ppm	0.37%
V 292.402	228527.3	2.050	0.0345	mg/L	102.5	1.73	ppm	1.69%
Zn 213.856	64667.2	0.6033	0.00299	mg/L	30.17	0.149	ppm	0.49%

Matrix Check Sample: 6141-1 MSD F=50

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
Ag 328.068	0.9995	1.004	0.016	mg/L	100.487
Al 308.215	60.10	57.48	0.940	mg/L	-30.568
As 188.979	0.5386	0.5183	0.005	mg/L	95.945
Ba 233.527	4.483	4.278	0.052	mg/L	94.875
Be 313.107	0.2006	0.1902	0.003	mg/L	94.781
Ca 227.547	2655	2545	23.064	mg/L	-447.655
Cd 228.802	0.2524	0.2447	0.004	mg/L	96.896
Co 228.616	1.028	0.9440	0.010	mg/L	91.597
Cr 267.716	1.127	1.058	0.017	mg/L	93.129
Cu 324.754	1.034	0.9666	0.004	mg/L	93.260
Fe 273.955	65.04	61.96	0.971	mg/L	-207.544
Mg 279.079	73.77	70.04	0.693	mg/L	62.728
Mn 257.610	2.468	2.319	0.018	mg/L	85.082
Mo 202.030	1.998	1.883	0.024	mg/L	94.230
Ni 231.604	1.057	0.9466	0.007	mg/L	88.960
Pb 220.353	3.042	2.727	0.022	mg/L	89.490
Sb 206.833	0.5011	0.4494	0.004	mg/L	89.661
Se 196.026	0.5017	0.4909	0.004	mg/L	97.830
Tl 190.800	0.5119	0.4516	0.002	mg/L	87.937
V 292.402	2.124	2.050	0.035	mg/L	96.297
Zn 213.856	0.6410	0.6033	0.003	mg/L	92.469

Replicate Data ----------

ID: 6141-1 PS F=50 Date: 11/21/02 12:15:42 PM

pl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	197021.8	198095.7	0.9820	mg/L	49.10	ppm
1	Al 308.215	2085064.7	2080467.1	57.02	mg/L	2851	ppm
1	As 188.979	1257.1	1187.6	0.5287	mg/L	26.43	ppm
1	Ba 233.527	1501462.6	1502328.3	4.253	mg/L	212.6	ppm
1	Be 313.107	525708.9	526123.1	0.1899	mg/L	9.494	ppm
1	Ca 227.547	658201.1	657917.7	2516	mg/L	125800	ppm
1	Cd 228.802	30392.9	30303.1	0.2392	mg/L	11.96	ppm
1	Co 228.616	97345.9	97762.6	0.9241	mg/L	46.21	ppm
1	Cr 267.716	93284.3	93444.1	1.033	mg/L	51.66	ppm
1	Cu 324.754	300767.6	298480.7	0.9370	mg/L	46.85	ppm
1	Fe 273.955	3076493.4	3073503.5	61.72	mg/L	3086	ppm
1	Mg 279.079	2210329.9	2209733.8	69.57	mg/L	3479	ppm
1	Mn 257.610	3664438.5	3663317.8	2.308	mg/L	115.4	ppm
1	Mo 202.030	34792.3	34820.8	1.845	mg/L	92.23	ppm
1	Ni 231.604	47383.1	47107.9	0.9309	mg/L	46.54	ppm
1	Pb 220.353	39790.3	39605.4	2.662	mg/L	133.1	ppm
1	Sb 206.833	2158.8	2098.2	0.4693	mg/L	23.47	ppm
1	Se 196.026	1408.1	1323.8	0.4953	mg/L	24.76	ppm
1	Tl 190.800	1817.7	1629.2	0.4589	mg/L	22.95	ppm
1	V 292.402	222244.7	222082.0	1.992	mg/L	99.59	ppm
1	Zn 213.856	62384.9	62968.3	0.5873	mg/L	29.37	ppm
2	Ag 328.068	202180.7	203254.6	1.008	mg/L	50.38	ppm
2	Al 308.215	2057112.9	2052515.3	56.26	mg/L	2813	ppm
2	As 188.979	1244.5	1175.1	0.5239	mg/L	26.20	ppm
2	Ba 233.527	1484691.5	1485557.1	4.205	mg/L	210.3	ppm
2	Be 313.107	519183.0	519597.2	0.1875	mg/L	9.376	ppm
2	Ca 227.547	656771.4	656488.0	2511	mg/L	125500	ppm
2	Cd 228.802	31257.0	31167.2	0.2460	mg/L	12.30	ppm
2	Co 228.616	99918.9	100335.6	0.9485	mg/L	47.42	ppm
2	Cr 267.716	95612.3	95772.1	1.059	mg/L	52.95	ppm
2	Cu 324.754	314403.9	312116.9	0.9798	mg/L	48.99	ppm
2	Fe 273.955	3028557.8	3025568.0	60.76	mg/L	3038	ppm
2	Mg 279.079	2194557.1	2193961.0	69.08	mg/L	3454	ppm
2	Mn 257.610	3657217.0	3656096.3	2.303	mg/L	115.2	ppm
2	Mo 202.030	35971.9	36000.5	1.907	mg/L	95.35	ppm
2	Ni 231.604	48619.1	48343.9	0.9553	mg/L	47.76	ppm
2	Pb 220.353	41065.1	40880.2	2.747	mg/L	137.4	ppm
2	Sb 206.833	2162.1	2101.5	0.4694	mg/L	23.47	ppm
2	Se 196.026	1408.7	1324.4	0.4953	mg/L	24.76	ppm
2	Tl 190.800	1835.4	1646.9	0.4643	mg/L	23.22	ppm
2	V 292.402	229107.1	228944.4	2.053	mg/L	102.7	ppm
2	Zn 213.856	64547.7	65131.1	0.6078	mg/L	30.39	ppm
3	Ag 328.068	197187.3	198261.2	0.9828	mg/L	49.14	ppm
3	Al 308.215	2126140.6	2121543.0	58.15	mg/L	2907	ppm
3	As 188.979	1252.7	1183.3	0.5283	mg/L	26.42	ppm
3	Ba 233.527	1523878.4	1524744.0	4.316	mg/L	215.8	ppm
3	Be 313.107	532839.3	533253.5	0.1925	mg/L	9.623	ppm
3	Ca 227.547	671248.7	670965.2	2566	mg/L	128300	ppm
3	Cd 228.802	30516.8	30427.0	0.2401	mg/L	12.01	ppm
3	Co 228.616	97671.3	98088.0	0.9272	mg/L	46.36	ppm
3	Cr 267.716	93666.1	93825.8	1.037	mg/L	51.87	ppm
3	Cu 324.754	306133.6	303846.7	0.9538	mg/L	47.69	ppm
3	Fe 273.955	3119948.1	3116958.3	62.60	mg/L	3130	ppm
3	Mg 279.079	2247537.1	2246940.9	70.75	mg/L	3537	ppm
3	Mn 257.610	3736776.0	3735655.3	2.354	mg/L	117.7	ppm
3	Mo 202.030	35207.0	35235.5	1.867	mg/L	93.33	ppm
3	Ni 231.604	47094.6	46819.4	0.9252	mg/L	46.26	ppm
3	Pb 220.353	39951.0	39766.1	2.673	mg/L	133.7	ppm
3	Sb 206.833	2149.8	2089.1	0.4670	mg/L	23.35	ppm
3	Se 196.026	1414.9	1330.6	0.4979	mg/L	24.90	ppm
3	Tl 190.800	1814.9	1626.4	0.4579	mg/L	22.89	ppm
3	V 292.402	224594.4	224431.7	2.013	mg/L	100.6	ppm
3	Zn 213.856	62735.0	63318.4	0.5906	mg/L	29.53	ppm

Clean Data ----------

ID: 6141-1 PS F=50 Seq. No.: 20 Sample No.: 10 A/S Pos: 18

Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 12:15:42 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	199870.5	0.9908	0.01453	mg/L	49.54	0.727	ppm	1.47%
Al 308.215	2084841.8	57.14	0.952	mg/L	2857	47.6	ppm	1.67%
As 188.979	1182.0	0.5270	0.00265	mg/L	26.35	0.132	ppm	0.50%
Ba 233.527	1504209.8	4.258	0.0557	mg/L	212.9	2.78	ppm	1.31%
Be 313.107	526324.6	0.1900	0.00247	mg/L	9.498	0.1233	ppm	1.30%
Ca 227.547	661790.3	2531	30.5	mg/L	126600	1525.6	ppm	1.21%
Cd 228.802	30632.5	0.2418	0.00369	mg/L	12.09	0.184	ppm	1.53%
Co 228.616	98728.7	0.9333	0.01324	mg/L	46.66	0.662	ppm	1.42%
Cr 267.716	94347.4	1.043	0.0138	mg/L	52.16	0.690	ppm	1.32%
Cu 324.754	304814.8	0.9569	0.02156	mg/L	47.84	1.078	ppm	2.25%
Fe 273.955	3072009.9	61.69	0.918	mg/L	3085	45.9	ppm	1.49%
Mg 279.079	2216878.5	69.80	0.856	mg/L	3490	42.8	ppm	1.23%
Mn 257.610	3685023.1	2.322	0.0277	mg/L	116.1	1.39	ppm	1.19%
Mo 202.030	35352.3	1.873	0.0317	mg/L	93.63	1.585	ppm	1.69%
Ni 231.604	47423.7	0.9371	0.01600	mg/L	46.85	0.800	ppm	1.71%
Pb 220.353	40083.9	2.694	0.0464	mg/L	134.7	2.32	ppm	1.72%
Sb 206.833	2096.3	0.4686	0.00136	mg/L	23.43	0.068	ppm	0.29%
Se 196.026	1326.3	0.4962	0.00154	mg/L	24.81	0.077	ppm	0.31%
Tl 190.800	1634.1	0.4604	0.00346	mg/L	23.02	0.173	ppm	0.75%
V 292.402	225152.7	2.019	0.0313	mg/L	101.0	1.56	ppm	1.55%
Zn 213.856	63805.9	0.5952	0.01103	mg/L	29.76	0.551	ppm	1.85%

Matrix Check Sample: 6141-1 PS F=50

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
Ag 328.068	0.9995	0.9908	0.015	mg/L	99.127
Al 308.215	60.10	57.14	0.952	mg/L	-47.647
As 188.979	0.5386	0.5270	0.003	mg/L	97.677
Ba 233.527	4.483	4.258	0.056	mg/L	94.366
Be 313.107	0.2006	0.1900	0.002	mg/L	94.659
Ca 227.547	2655	2531	30.513	mg/L	-519.073
Cd 228.802	0.2524	0.2418	0.004	mg/L	95.741
Co 228.616	1.028	0.9333	0.013	mg/L	90.526
Cr 267.716	1.127	1.043	0.014	mg/L	91.655
Cu 324.754	1.034	0.9569	0.022	mg/L	92.288
Fe 273.955	65.04	61.69	0.918	mg/L	-234.333
Mg 279.079	73.77	69.80	0.856	mg/L	60.324
Mn 257.610	2.468	2.322	0.028	mg/L	85.391
Mo 202.030	1.998	1.873	0.032	mg/L	93.716
Ni 231.604	1.057	0.9371	0.016	mg/L	88.011
Pb 220.353	3.042	2.694	0.046	mg/L	88.393
Sb 206.833	0.5011	0.4686	0.001	mg/L	93.485
Se 196.026	0.5017	0.4962	0.002	mg/L	98.883
Tl 190.800	0.5119	0.4604	0.003	mg/L	89.694
V 292.402	2.124	2.019	0.031	mg/L	94.784
Zn 213.856	0.6410	0.5952	0.011	mg/L	90.850

Replicate Data
ID: CCV 1379B Date: 11/21/02 12:19:20 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	207244.0	208318.0	1.033	mg/L		
1	Al 308.215	191455.9	186858.4	5.121	mg/L		
1	As 188.979	1399.3	1329.9	0.5159	mg/L		
1	Ba 233.527	1805819.5	1806685.1	5.114	mg/L		
1	Be 313.107	1388243.5	1388657.7	0.5012	mg/L		
1	Ca 227.547	13903.8	13620.3	52.09	mg/L		
1	Cd 228.802	132799.4	132709.7	1.047	mg/L		
1	Co 228.616	223152.4	223569.1	2.113	mg/L		
1	Cr 267.716	46968.5	47128.3	0.5211	mg/L		
1	Cu 324.754	655846.8	653559.9	2.052	mg/L		
1	Fe 273.955	261827.7	258837.9	5.198	mg/L		
1	Mg 279.079	811803.2	811207.1	25.54	mg/L		
1	Mn 257.610	3272006.5	3270885.8	2.061	mg/L		

1	Mo 202.030	39056.3	39084.8	2.070 mg/L
1	Ni 231.604	106240.6	105965.4	2.094 mg/L
1	Pb 220.353	7819.0	7634.1	0.5108 mg/L
1	Sb 206.833	8654.8	8594.2	2.040 mg/L
1	Se 196.026	1507.9	1423.6	0.5186 mg/L
1	Tl 190.800	1960.0	1771.4	0.5150 mg/L
1	V 292.402	231048.8	230886.0	2.071 mg/L
1	Zn 213.856	217945.3	218528.7	2.061 mg/L
2	Ag 328.068	203242.3	204316.3	1.013 mg/L
2	Al 308.215	187692.6	183095.1	5.018 mg/L
2	As 188.979	1389.7	1320.3	0.5121 mg/L
2	Ba 233.527	1905660.3	1906525.9	5.397 mg/L
2	Be 313.107	1472915.1	1473329.3	0.5317 mg/L
2	Ca 227.547	13610.9	13327.4	50.97 mg/L
2	Cd 228.802	129901.9	129812.1	1.025 mg/L
2	Co 228.616	217079.8	217496.5	2.056 mg/L
2	Cr 267.716	46010.5	46170.3	0.5105 mg/L
2	Cu 324.754	694449.7	692162.7	2.173 mg/L
2	Fe 273.955	255809.4	252819.5	5.077 mg/L
2	Mg 279.079	856930.1	856333.9	26.96 mg/L
2	Mn 257.610	3440988.6	3439867.9	2.167 mg/L
2	Mo 202.030	38047.5	38076.0	2.017 mg/L
2	Ni 231.604	103594.0	103318.8	2.042 mg/L
2	Pb 220.353	7763.8	7579.0	0.5071 mg/L
2	Sb 206.833	8614.7	8554.1	2.031 mg/L
2	Se 196.026	1509.8	1425.5	0.5193 mg/L
2	Tl 190.800	1973.6	1785.0	0.5190 mg/L
2	V 292.402	225295.8	225133.0	2.019 mg/L
2	Zn 213.856	213246.0	213829.4	2.017 mg/L
3	Ag 328.068	209638.9	210712.8	1.045 mg/L
3	Al 308.215	193932.1	189334.5	5.189 mg/L
3	As 188.979	1382.2	1312.8	0.5094 mg/L
3	Ba 233.527	1838112.2	1838977.8	5.206 mg/L
3	Be 313.107	1416718.6	1417132.8	0.5114 mg/L
3	Ca 227.547	14075.1	13791.6	52.75 mg/L
3	Cd 228.802	133388.7	133299.0	1.052 mg/L
3	Co 228.616	223938.9	224355.6	2.121 mg/L
3	Cr 267.716	47348.4	47508.2	0.5253 mg/L
3	Cu 324.754	671308.9	669021.9	2.100 mg/L
3	Fe 273.955	262881.0	259891.2	5.219 mg/L
3	Mg 279.079	827103.3	826507.2	26.02 mg/L
3	Mn 257.610	3332340.8	3331220.1	2.099 mg/L
3	Mo 202.030	39381.5	39410.0	2.088 mg/L
3	Ni 231.604	106850.6	106575.4	2.106 mg/L
3	Pb 220.353	7734.9	7550.0	0.5052 mg/L
3	Sb 206.833	8562.9	8502.3	2.018 mg/L
3	Se 196.026	1489.5	1405.2	0.5119 mg/L
3	Tl 190.800	1955.5	1766.9	0.5137 mg/L
3	V 292.402	233894.2	233731.5	2.096 mg/L
3	Zn 213.856	220980.6	221564.0	2.090 mg/L

ean Data ----------

D: CCV 1379B Seq. No.: 21 Sample No.: 5 A/S Pos: 6
mple Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 12:19:20 PM

ement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
328.068	207782.4	1.030	0.0160	mg/L				1.56%
308.215	186429.3	5.110	0.0861	mg/L				1.69%
s 188.979	1321.0	0.5124	0.00328	mg/L				0.64%
233.527	1850729.6	5.239	0.1442	mg/L				2.75%
313.107	1426373.2	0.5148	0.01555	mg/L				3.02%
a 227.547	13579.8	51.94	0.898	mg/L				1.73%
d 228.802	131940.3	1.041	0.0147	mg/L				1.41%
228.616	221807.1	2.097	0.0355	mg/L				1.69%
267.716	46935.6	0.5190	0.00762	mg/L				1.47%
324.754	671581.5	2.108	0.0610	mg/L				2.89%
e 273.955	257182.9	5.165	0.0766	mg/L				1.48%
279.079	831349.4	26.18	0.723	mg/L				2.76%

012695

Mn 257.610	3347324.6	2.109	0.0540 mg/L	2.56%
Mo 202.030	38856.9	2.058	0.0368 mg/L	1.79%
Ni 231.604	105286.5	2.080	0.0342 mg/L	1.64%
Pb 220.353	7587.7	0.5077	0.00286 mg/L	0.56%
Sb 206.833	8550.2	2.030	0.0111 mg/L	0.55%
Se 196.026	1418.1	0.5166	0.00406 mg/L	0.79%
Tl 190.800	1774.5	0.5159	0.00274 mg/L	0.53%
V 292.402	229916.8	2.062	0.0393 mg/L	1.91%
Zn 213.856	217974.1	2.056	0.0368 mg/L	1.79%

Replicate Data ----------

ID: CCB Date: 11/21/02 12:24:52 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-954.4	119.6	0.0006	mg/L		
1	Al 308.215	4967.4	369.8	0.0101	mg/L		
1	As 188.979	65.6	-3.9	-0.0015	mg/L		
1	Ba 233.527	-660.0	205.6	0.0006	mg/L		
1	Be 313.107	77.4	491.6	0.0002	mg/L		
1	Ca 227.547	253.7	-29.7	-0.1137	mg/L		
1	Cd 228.802	112.4	22.7	0.0002	mg/L		
1	Co 228.616	-290.7	126.0	0.0012	mg/L		
1	Cr 267.716	-113.1	46.7	0.0005	mg/L		
1	Cu 324.754	2380.0	93.1	0.0003	mg/L		
1	Fe 273.955	2526.0	-463.9	-0.0093	mg/L		
1	Mg 279.079	464.4	-131.8	-0.0041	mg/L		
1	Mn 257.610	1941.2	820.5	0.0005	mg/L		
1	Mo 202.030	-14.9	13.6	0.0007	mg/L		
1	Ni 231.604	460.4	185.2	0.0037	mg/L		
1	Pb 220.353	192.2	7.3	0.0005	mg/L		
1	Sb 206.833	72.6	12.0	0.0029	mg/L		
1	Se 196.026	85.9	1.6	0.0006	mg/L		
1	Tl 190.800	186.7	-1.9	-0.0005	mg/L		
1	V 292.402	192.0	29.3	0.0003	mg/L		
1	Zn 213.856	-493.2	90.2	0.0009	mg/L		
2	Ag 328.068	-1041.9	32.1	0.0002	mg/L		
2	Al 308.215	4657.5	59.9	0.0016	mg/L		
2	As 188.979	66.3	-3.1	-0.0012	mg/L		
2	Ba 233.527	-740.1	125.5	0.0004	mg/L		
2	Be 313.107	-23.9	390.3	0.0001	mg/L		
2	Ca 227.547	233.4	-50.1	-0.1915	mg/L		
2	Cd 228.802	117.4	27.6	0.0002	mg/L		
2	Co 228.616	-224.1	192.6	0.0018	mg/L		
2	Cr 267.716	-87.9	71.8	0.0008	mg/L		
2	Cu 324.754	2731.4	444.5	0.0014	mg/L		
2	Fe 273.955	2088.7	-901.1	-0.0181	mg/L		
2	Mg 279.079	577.1	-19.1	-0.0006	mg/L		
2	Mn 257.610	1745.0	624.3	0.0004	mg/L		
2	Mo 202.030	-16.1	12.4	0.0007	mg/L		
2	Ni 231.604	460.8	185.6	0.0037	mg/L		
2	Pb 220.353	195.9	11.0	0.0007	mg/L		
2	Sb 206.833	61.2	0.6	0.0001	mg/L		
2	Se 196.026	89.5	5.2	0.0019	mg/L		
2	Tl 190.800	188.6	0.1	0.0000	mg/L		
2	V 292.402	320.3	157.5	0.0014	mg/L		
2	Zn 213.856	-506.0	77.4	0.0007	mg/L		
3	Ag 328.068	-1141.1	-67.2	-0.0003	mg/L		
3	Al 308.215	4772.5	174.9	0.0048	mg/L		
3	As 188.979	64.2	-5.2	-0.0020	mg/L		
3	Ba 233.527	-741.4	124.2	0.0004	mg/L		
3	Be 313.107	-200.8	213.4	0.0001	mg/L		
3	Ca 227.547	218.7	-64.8	-0.2477	mg/L		
3	Cd 228.802	81.3	-8.4	-0.0001	mg/L		
3	Co 228.616	-323.6	93.1	0.0009	mg/L		
3	Cr 267.716	-119.0	40.7	0.0005	mg/L		
3	Cu 324.754	2528.8	241.8	0.0008	mg/L		
3	Fe 273.955	2047.0	-942.9	-0.0189	mg/L		
3	Mg 279.079	773.7	177.5	0.0056	mg/L		

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3 Mn 257.610	1563.5	442.8	0.0003	mg/L
3 Mo 202.030	-29.1	-0.6	0.0000	mg/L
3 Ni 231.604	390.7	115.5	0.0023	mg/L
3 Pb 220.353	187.9	3.0	0.0002	mg/L
3 Sb 206.833	78.0	17.4	0.0042	mg/L
3 Se 196.026	90.8	6.5	0.0024	mg/L
3 Tl 190.800	196.4	7.9	0.0023	mg/L
3 V 292.402	202.0	39.2	0.0004	mg/L
3 Zn 213.856	-518.5	64.9	0.0006	mg/L

Scan Data

ID: CCB Seq. No.: 22 Sample No.: 6 A/S Pos: 1
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 12:24:52 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
328.068	28.2	0.0001	0.00046	mg/L				331.89%
308.215	201.6	0.0055	0.00429	mg/L				77.72%
As 188.979	-4.1	-0.0016	0.00040	mg/L				25.50%
Ba 233.527	151.8	0.0004	0.00013	mg/L				30.73%
313.107	365.1	0.0001	0.00005	mg/L				38.57%
227.547	-48.2	-0.1843	0.06728	mg/L				36.51%
Cd 228.802	13.9	0.0001	0.00015	mg/L				140.19%
Co 228.616	137.3	0.0013	0.00048	mg/L				36.92%
267.716	53.1	0.0006	0.00018	mg/L				31.10%
324.754	259.8	0.0008	0.00055	mg/L				67.90%
Fe 273.955	-769.3	-0.0154	0.00533	mg/L				34.49%
Mg 279.079	8.9	0.0003	0.00493	mg/L				>999.9%
257.610	629.2	0.0004	0.00012	mg/L				30.02%
202.030	8.5	0.0004	0.00042	mg/L				92.68%
231.604	162.1	0.0032	0.00080	mg/L				24.88%
Pb 220.353	7.1	0.0005	0.00027	mg/L				56.13%
Sb 206.833	10.0	0.0024	0.00206	mg/L				86.06%
196.026	4.4	0.0016	0.00093	mg/L				57.51%
190.800	2.1	0.0006	0.00150	mg/L				251.90%
V 292.402	75.4	0.0007	0.00064	mg/L				94.69%
Zn 213.856	77.5	0.0007	0.00012	mg/L				16.33%

Replicate Data

ID: 6141-2 F=50 Date: 11/21/02 12:28:01 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-1782.3	-708.3	-0.0035	mg/L	-0.1756	ppm
1	Al 308.215	3510721.5	3506124.0	96.10	mg/L	4805	ppm
1	As 188.979	47.0	-22.5	0.0377	mg/L	1.887	ppm
1	Ba 233.527	195615.8	196481.4	0.5562	mg/L	27.81	ppm
1	Be 313.107	2435.8	2850.0	0.0010	mg/L	0.0514	ppm
1	Ca 227.547	455376.8	455093.3	1743	mg/L	87170	ppm
1	Cd 228.802	342.0	252.2	0.0020	mg/L	0.0995	ppm
1	Co 228.616	4831.3	5248.0	0.0496	mg/L	2.480	ppm
1	Cr 267.716	17195.7	17355.4	0.1919	mg/L	9.595	ppm
1	Cu 324.754	19808.3	17521.4	0.0607	mg/L	3.036	ppm
1	Fe 273.955	6210946.7	6207956.8	124.7	mg/L	6233	ppm
1	Mg 279.079	2331521.8	2330925.6	73.39	mg/L	3670	ppm
1	Mn 257.610	2930628.4	2929507.7	1.846	mg/L	92.28	ppm
1	Mo 202.030	-51.1	-22.6	-0.0060	mg/L	-0.3017	ppm
1	Ni 231.604	4854.4	4579.1	0.0905	mg/L	4.524	ppm
1	Pb 220.353	720.6	535.7	0.0473	mg/L	2.367	ppm
1	Sb 206.833	65.1	4.5	-0.0125	mg/L	-0.6270	ppm
1	Se 196.026	12.6	-71.7	0.0045	mg/L	0.2256	ppm
1	Tl 190.800	328.3	139.7	0.0093	mg/L	0.4633	ppm
1	V 292.402	26236.5	26073.8	0.2338	mg/L	11.69	ppm
1	Zn 213.856	27500.5	28083.9	0.2517	mg/L	12.58	ppm
2	Ag 328.068	-1689.3	-615.3	-0.0031	mg/L	-0.1525	ppm
2	Al 308.215	3449177.5	3444580.0	94.41	mg/L	4721	ppm
2	As 188.979	60.7	-8.8	0.0458	mg/L	2.291	ppm
2	Ba 233.527	205609.3	206474.9	0.5845	mg/L	29.22	ppm
2	Be 313.107	2966.7	3380.9	0.0012	mg/L	0.0610	ppm

2 Ca 227.547	483536.7	483253.3	1851	mg/L	92550	ppm
2 Cd 228.802	457.0	367.3	0.0029	mg/L	0.1449	ppm
2 Co 228.616	4997.1	5413.8	0.0512	mg/L	2.559	ppm
2 Cr 267.716	17391.5	17551.3	0.1941	mg/L	9.704	ppm
2 Cu 324.754	20863.4	18576.5	0.0639	mg/L	3.196	ppm
2 Fe 273.955	6101926.4	6098936.5	122.5	mg/L	6124	ppm
2 Mg 279.079	2292984.3	2292388.1	72.18	mg/L	3609	ppm
2 Mn 257.610	2882343.3	2881222.6	1.815	mg/L	90.76	ppm
2 Mo 202.030	-49.6	-21.1	-0.0059	mg/L	-0.2937	ppm
2 Ni 231.604	5025.1	4749.9	0.0939	mg/L	4.693	ppm
2 Pb 220.353	773.9	589.0	0.0512	mg/L	2.560	ppm
2 Sb 206.833	113.6	52.9	-0.0009	mg/L	-0.0434	ppm
2 Se 196.026	2.3	-82.0	0.0002	mg/L	0.0118	ppm
2 Tl 190.800	298.2	109.7	0.0013	mg/L	0.0664	ppm
2 V 292.402	27700.4	27537.6	0.2470	mg/L	12.35	ppm
2 Zn 213.856	27646.0	28229.3	0.2533	mg/L	12.66	ppm
3 Ag 328.068	-1585.2	-511.2	-0.0025	mg/L	-0.1267	ppm
3 Al 308.215	3557872.8	3553275.2	97.39	mg/L	4869	ppm
3 As 188.979	75.3	5.9	0.0507	mg/L	2.536	ppm
3 Ba 233.527	203044.1	203909.7	0.5772	mg/L	28.86	ppm
3 Be 313.107	2787.4	3201.6	0.0012	mg/L	0.0578	ppm
3 Ca 227.547	476736.4	476452.9	1825	mg/L	91250	ppm
3 Cd 228.802	420.7	331.0	0.0026	mg/L	0.1306	ppm
3 Co 228.616	5109.2	5525.9	0.0522	mg/L	2.612	ppm
3 Cr 267.716	17380.2	17540.0	0.1939	mg/L	9.697	ppm
3 Cu 324.754	20548.8	18261.9	0.0631	mg/L	3.154	ppm
3 Fe 273.955	6263811.9	6260822.1	125.7	mg/L	6287	ppm
3 Mg 279.079	2346289.0	2345692.8	73.86	mg/L	3693	ppm
3 Mn 257.610	2948374.9	2947254.2	1.857	mg/L	92.84	ppm
3 Mo 202.030	-80.6	-52.1	-0.0076	mg/L	-0.3820	ppm
3 Ni 231.604	4898.9	4623.7	0.0914	mg/L	4.568	ppm
3 Pb 220.353	770.5	585.6	0.0510	mg/L	2.552	ppm
3 Sb 206.833	115.4	54.8	-0.0006	mg/L	-0.0322	ppm
3 Se 196.026	30.8	-53.5	0.0114	mg/L	0.5681	ppm
3 Tl 190.800	324.6	136.1	0.0080	mg/L	0.4005	ppm
3 V 292.402	27388.8	27226.1	0.2442	mg/L	12.21	ppm
3 Zn 213.856	27890.7	28474.1	0.2553	mg/L	12.76	ppm

lean Data ----------

:D: 6141-2 F=50 Seq. No.: 23 Sample No.: 11 A/S Pos: 19

ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 12:28:01 PM

:lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-611.6	-0.0030	0.00049	mg/L	-0.1516	0.02444	ppm	16.12%
l 308.215	3501326.4	95.97	1.494	mg/L	4798	74.7	ppm	1.56%
s 188.979	-8.5	0.0448	0.00656	mg/L	2.238	0.3278	ppm	14.64%
a 233.527	202288.7	0.5726	0.01469	mg/L	28.63	0.735	ppm	2.57%
e 313.107	3144.2	0.0011	0.00010	mg/L	0.0567	0.00487	ppm	8.59%
a 227.547	471599.8	1806	56.2	mg/L	90320	2809.2	ppm	3.11%
d 228.802	316.8	0.0025	0.00046	mg/L	0.1250	0.02322	ppm	18.57%
o 228.616	5395.9	0.0510	0.00132	mg/L	2.550	0.0661	ppm	2.59%
r 267.716	17482.2	0.1933	0.00122	mg/L	9.666	0.0608	ppm	0.63%
u 324.754	18119.9	0.0626	0.00167	mg/L	3.129	0.0833	ppm	2.66%
e 273.955	6189238.5	124.3	1.66	mg/L	6215	82.9	ppm	1.33%
g 279.079	2323002.2	73.14	0.867	mg/L	3657	43.3	ppm	1.18%
n 257.610	2919328.1	1.839	0.0215	mg/L	91.96	1.076	ppm	1.17%
o 202.030	-31.9	-0.0065	0.00098	mg/L	-0.3258	0.04882	ppm	14.98%
i 231.604	4650.9	0.0919	0.00175	mg/L	4.595	0.0875	ppm	1.90%
b 220.353	570.1	0.0499	0.00218	mg/L	2.493	0.1092	ppm	4.38%
b 206.833	37.4	-0.0047	0.00680	mg/L	-0.2342	0.34019	ppm	145.27%
e 196.026	-69.1	0.0054	0.00561	mg/L	0.2685	0.28064	ppm	104.53%
l 190.800	128.5	0.0062	0.00427	mg/L	0.3101	0.21336	ppm	68.81%
292.402	26945.8	0.2417	0.00692	mg/L	12.08	0.346	ppm	2.86%
n 213.856	28262.5	0.2534	0.00179	mg/L	12.67	0.089	ppm	0.71%

eplicate Data ----------

D: 6141-3 F=50 Date: 11/21/02 12:30:37 PM

Net Corrected Calib Sample

012698

pl#	Element	Intensity	Intensity	Conc.	Units	Conc.	Units
1	Ag 328.068	-1550.7	-476.8	-0.0024	mg/L	-0.1182	ppm
1	Al 308.215	3507890.8	3503293.2	96.02	mg/L	4801	ppm
1	As 188.979	79.5	10.0	0.0526	mg/L	2.630	ppm
1	Ba 233.527	214660.5	215526.2	0.6101	mg/L	30.50	ppm
1	Be 313.107	3375.3	3789.5	0.0014	mg/L	0.0684	ppm
1	Ca 227.547	478226.7	477943.2	1831	mg/L	91540	ppm
1	Cd 228.802	313.8	224.0	0.0018	mg/L	0.0884	ppm
1	Co 228.616	5351.0	5767.7	0.0545	mg/L	2.726	ppm
1	Cr 267.716	17762.4	17922.2	0.1982	mg/L	9.909	ppm
1	Cu 324.754	21178.9	18892.0	0.0651	mg/L	3.255	ppm
1	Fe 273.955	6298466.1	6295476.2	126.4	mg/L	6321	ppm
1	Mg 279.079	2364957.7	2364361.5	74.44	mg/L	3722	ppm
1	Mn 257.610	3067496.6	3066375.9	1.932	mg/L	96.59	ppm
1	Mo 202.030	4.6	33.1	-0.0032	mg/L	-0.1577	ppm
1	Ni 231.604	5149.0	4873.8	0.0963	mg/L	4.815	ppm
1	Pb 220.353	775.0	590.1	0.0513	mg/L	2.565	ppm
1	Sb 206.833	114.3	53.6	-0.0010	mg/L	-0.0515	ppm
1	Se 196.026	49.4	-34.9	0.0184	mg/L	0.9207	ppm
1	Tl 190.800	351.2	162.6	0.0158	mg/L	0.7897	ppm
1	V 292.402	27908.5	27745.8	0.2488	mg/L	12.44	ppm
1	Zn 213.856	28145.9	28729.3	0.2576	mg/L	12.88	ppm
2	Ag 328.068	-1484.0	-410.0	-0.0020	mg/L	-0.1016	ppm
2	Al 308.215	3577834.2	3573236.6	97.94	mg/L	4897	ppm
2	As 188.979	102.4	33.0	0.0596	mg/L	2.978	ppm
2	Ba 233.527	207357.1	208222.7	0.5894	mg/L	29.47	ppm
2	Be 313.107	3015.1	3429.3	0.0012	mg/L	0.0619	ppm
2	Ca 227.547	460470.5	460187.1	1763	mg/L	88150	ppm
2	Cd 228.802	427.4	337.6	0.0027	mg/L	0.1332	ppm
2	Co 228.616	5047.8	5464.5	0.0517	mg/L	2.583	ppm
2	Cr 267.716	17191.3	17351.1	0.1919	mg/L	9.593	ppm
2	Cu 324.754	20566.8	18279.9	0.0633	mg/L	3.163	ppm
2	Fe 273.955	6394391.4	6391401.5	128.4	mg/L	6418	ppm
2	Mg 279.079	2400909.0	2400312.8	75.57	mg/L	3779	ppm
2	Mn 257.610	3108493.5	3107372.8	1.958	mg/L	97.89	ppm
2	Mo 202.030	-77.6	-49.0	-0.0076	mg/L	-0.3790	ppm
2	Ni 231.604	5062.8	4787.6	0.0946	mg/L	4.730	ppm
2	Pb 220.353	758.8	573.9	0.0501	mg/L	2.504	ppm
2	Sb 206.833	122.7	62.1	0.0010	mg/L	0.0523	ppm
2	Se 196.026	20.5	-63.8	0.0084	mg/L	0.4185	ppm
2	Tl 190.800	302.9	114.3	0.0010	mg/L	0.0516	ppm
2	V 292.402	26907.4	26744.6	0.2399	mg/L	11.99	ppm
2	Zn 213.856	26970.1	27553.5	0.2463	mg/L	12.31	ppm
3	Ag 328.068	-1715.8	-641.8	-0.0032	mg/L	-0.1591	ppm
3	Al 308.215	3530761.3	3526163.7	96.65	mg/L	4832	ppm
3	As 188.979	25.4	-44.0	0.0307	mg/L	1.536	ppm
3	Ba 233.527	210446.7	211312.4	0.5982	mg/L	29.91	ppm
3	Be 313.107	3033.8	3448.0	0.0012	mg/L	0.0622	ppm
3	Ca 227.547	467058.4	466774.9	1788	mg/L	89400	ppm
3	Cd 228.802	402.9	313.1	0.0025	mg/L	0.1236	ppm
3	Co 228.616	5180.8	5597.5	0.0529	mg/L	2.646	ppm
3	Cr 267.716	17484.6	17644.3	0.1951	mg/L	9.755	ppm
3	Cu 324.754	21247.2	18960.3	0.0653	mg/L	3.267	ppm
3	Fe 273.955	6339676.5	6336686.6	127.3	mg/L	6363	ppm
3	Mg 279.079	2369909.2	2369313.0	74.60	mg/L	3730	ppm
3	Mn 257.610	3065744.6	3064623.9	1.931	mg/L	96.54	ppm
3	Mo 202.030	-55.1	-26.6	-0.0063	mg/L	-0.3173	ppm
3	Ni 231.604	5076.9	4801.7	0.0949	mg/L	4.744	ppm
3	Pb 220.353	665.5	480.6	0.0438	mg/L	2.192	ppm
3	Sb 206.833	74.4	13.8	-0.0105	mg/L	-0.5262	ppm
3	Se 196.026	-33.6	-117.8	-0.0115	mg/L	-0.5753	ppm
3	Tl 190.800	298.7	110.2	0.0002	mg/L	0.0123	ppm
3	V 292.402	27166.3	27003.6	0.2422	mg/L	12.11	ppm
3	Zn 213.856	27591.6	28174.9	0.2523	mg/L	12.61	ppm

an Data ----------

D: 6141-3 F=50 Seq. No.: 24 Sample No.: 12 A/S Pos: 20
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 12:30:37 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	-509.5	-0.0025	0.00059	mg/L	-0.1263	0.02958	ppm	23.42%
l 308.215	3534231.2	96.87	0.977	mg/L	4843	48.9	ppm	1.01%
s 188.979	-0.3	0.0476	0.01505	mg/L	2.382	0.7523	ppm	31.59%
a 233.527	211687.1	0.5992	0.01038	mg/L	29.96	0.519	ppm	1.73%
e 313.107	3555.6	0.0013	0.00007	mg/L	0.0642	0.00366	ppm	5.70%
a 227.547	468301.7	1794	34.3	mg/L	89700	1715.5	ppm	1.91%
d 228.802	291.6	0.0023	0.00047	mg/L	0.1151	0.02359	ppm	20.50%
o 228.616	5609.9	0.0530	0.00144	mg/L	2.651	0.0718	ppm	2.71%
r 267.716	17639.2	0.1950	0.00316	mg/L	9.752	0.1579	ppm	1.62%
u 324.754	18710.7	0.0646	0.00114	mg/L	3.228	0.0569	ppm	1.76%
e 273.955	6341188.1	127.3	0.97	mg/L	6367	48.3	ppm	0.76%
g 279.079	2377995.8	74.87	0.613	mg/L	3744	30.7	ppm	0.82%
n 257.610	3079457.6	1.940	0.0152	mg/L	97.01	0.762	ppm	0.79%
o 202.030	-14.2	-0.0057	0.00228	mg/L	-0.2847	0.11421	ppm	40.12%
i 231.604	4821.0	0.0953	0.00091	mg/L	4.763	0.0457	ppm	0.96%
b 220.353	548.2	0.0484	0.00399	mg/L	2.420	0.1996	ppm	8.25%
b 206.833	43.2	-0.0035	0.00617	mg/L	-0.1752	0.30843	ppm	176.08%
e 196.026	-72.2	0.0051	0.01523	mg/L	0.2546	0.76133	ppm	299.01%
l 190.800	129.0	0.0057	0.00876	mg/L	0.2846	0.43793	ppm	153.90%
292.402	27164.6	0.2436	0.00466	mg/L	12.18	0.233	ppm	1.91%
n 213.856	28152.6	0.2521	0.00565	mg/L	12.60	0.282	ppm	2.24%

eplicate Data

D: 6141-4 F=50 Date: 11/21/02 12:33:14 PM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-1653.3	-579.3	-0.0029	mg/L	-0.1436	ppm
1	Al 308.215	3169490.6	3164893.1	86.74	mg/L	4337	ppm
1	As 188.979	-12.4	-81.8	0.0213	mg/L	1.064	ppm
1	Ba 233.527	168083.9	168949.5	0.4782	mg/L	23.91	ppm
1	Be 313.107	1038.5	1452.7	0.0005	mg/L	0.0262	ppm
1	Ca 227.547	520446.0	520162.5	1992	mg/L	99600	ppm
1	Cd 228.802	482.4	392.7	0.0031	mg/L	0.1549	ppm
1	Co 228.616	4309.2	4725.9	0.0447	mg/L	2.234	ppm
1	Cr 267.716	14772.2	14932.0	0.1651	mg/L	8.256	ppm
1	Cu 324.754	18419.6	16132.6	0.0558	mg/L	2.792	ppm
1	Fe 273.955	5643407.8	5640417.9	113.3	mg/L	5664	ppm
1	Mg 279.079	2358877.1	2358280.9	74.25	mg/L	3713	ppm
1	Mn 257.610	2543063.1	2541942.4	1.601	mg/L	80.07	ppm
1	Mo 202.030	-77.3	-48.8	-0.0070	mg/L	-0.3490	ppm
1	Ni 231.604	4192.9	3917.7	0.0774	mg/L	3.871	ppm
1	Pb 220.353	613.3	428.4	0.0405	mg/L	2.027	ppm
1	Sb 206.833	80.3	19.6	-0.0074	mg/L	-0.3692	ppm
1	Se 196.026	6.5	-77.8	-0.0005	mg/L	-0.0229	ppm
1	Tl 190.800	279.5	91.0	-0.0014	mg/L	-0.0712	ppm
1	V 292.402	24798.4	24635.6	0.2209	mg/L	11.05	ppm
1	Zn 213.856	25515.0	26098.4	0.2342	mg/L	11.71	ppm
2	Ag 328.068	-1394.9	-320.9	-0.0016	mg/L	-0.0795	ppm
2	Al 308.215	3043302.9	3038705.3	83.29	mg/L	4164	ppm
2	As 188.979	53.6	-15.8	0.0451	mg/L	2.255	ppm
2	Ba 233.527	164136.2	165001.8	0.4671	mg/L	23.35	ppm
2	Be 313.107	827.3	1241.6	0.0004	mg/L	0.0224	ppm
2	Ca 227.547	505210.4	504927.0	1934	mg/L	96680	ppm
2	Cd 228.802	356.4	266.7	0.0021	mg/L	0.1052	ppm
2	Co 228.616	4167.7	4584.4	0.0433	mg/L	2.167	ppm
2	Cr 267.716	14439.3	14599.1	0.1614	mg/L	8.071	ppm
2	Cu 324.754	17984.6	15697.7	0.0543	mg/L	2.715	ppm
2	Fe 273.955	5454011.0	5451021.1	109.5	mg/L	5473	ppm
2	Mg 279.079	2294663.6	2294067.4	72.23	mg/L	3611	ppm
2	Mn 257.610	2473028.0	2471907.3	1.557	mg/L	77.87	ppm
2	Mo 202.030	-36.0	-7.5	-0.0046	mg/L	-0.2323	ppm
2	Ni 231.604	3990.4	3715.2	0.0734	mg/L	3.671	ppm
2	Pb 220.353	586.8	401.9	0.0384	mg/L	1.919	ppm
2	Sb 206.833	171.2	110.6	0.0147	mg/L	0.7370	ppm
2	Se 196.026	23.0	-61.3	0.0046	mg/L	0.2319	ppm
2	Tl 190.800	244.6	56.0	-0.0106	mg/L	-0.5290	ppm

2	V 292.402	24254.9	24092.2	0.2161	mg/L	10.80 ppm
2	Zn 213.856	24791.9	25375.3	0.2278	mg/L	11.39 ppm
3	Ag 328.068	-1604.4	-530.5	-0.0026	mg/L	-0.1315 ppm
3	Al 308.215	3093761.8	3089164.2	84.67	mg/L	4233 ppm
3	As 188.979	32.3	-37.2	0.0388	mg/L	1.941 ppm
3	Ba 233.527	168547.9	169413.6	0.4796	mg/L	23.98 ppm
3	Be 313.107	953.3	1367.5	0.0005	mg/L	0.0247 ppm
3	Ca 227.547	523838.1	523554.7	2005	mg/L	100200 ppm
3	Cd 228.802	292.9	203.1	0.0016	mg/L	0.0802 ppm
3	Co 228.616	4509.7	4926.4	0.0466	mg/L	2.328 ppm
3	Cr 267.716	15303.2	15463.0	0.1710	mg/L	8.549 ppm
3	Cu 324.754	18414.9	16128.0	0.0557	mg/L	2.785 ppm
3	Fe 273.955	5519882.9	5516893.0	110.8	mg/L	5540 ppm
3	Mg 279.079	2365948.7	2365352.5	74.47	mg/L	3724 ppm
3	Mn 257.610	2557837.0	2556716.3	1.611	mg/L	80.54 ppm
3	Mo 202.030	-87.5	-59.0	-0.0074	mg/L	-0.3713 ppm
3	Ni 231.604	4376.7	4101.5	0.0810	mg/L	4.052 ppm
3	Pb 220.353	657.8	472.9	0.0435	mg/L	2.173 ppm
3	Sb 206.833	126.1	65.5	0.0036	mg/L	0.1791 ppm
3	Se 196.026	34.9	-49.4	0.0093	mg/L	0.4635 ppm
3	Tl 190.800	262.1	73.6	-0.0058	mg/L	-0.2903 ppm
3	V 292.402	25133.0	24970.3	0.2239	mg/L	11.20 ppm
3	Zn 213.856	26672.1	27255.5	0.2453	mg/L	12.27 ppm

Mean Data ----------

ID: 6141-4 F=50 Seq. No.: 25 Sample No.: 13 A/S Pos: 21
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 12:33:14 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-476.9	-0.0024	0.00068	mg/L	-0.1182	0.03402	ppm	28.78%
Al 308.215	3097587.5	84.90	1.741	mg/L	4245	87.0	ppm	2.05%
As 188.979	-44.9	0.0351	0.01235	mg/L	1.754	0.6173	ppm	35.20%
Ba 233.527	167788.3	0.4750	0.00686	mg/L	23.75	0.343	ppm	1.44%
Be 313.107	1353.9	0.0005	0.00004	mg/L	0.0244	0.00192	ppm	7.85%
Ca 227.547	516214.7	1977	38.0	mg/L	98840	1898.7	ppm	1.92%
Cd 228.802	287.5	0.0023	0.00076	mg/L	0.1134	0.03806	ppm	33.55%
Co 228.616	4745.6	0.0449	0.00162	mg/L	2.243	0.0812	ppm	3.62%
Cr 267.716	14998.0	0.1658	0.00482	mg/L	8.292	0.2409	ppm	2.91%
Cu 324.754	15986.1	0.0553	0.00085	mg/L	2.764	0.0427	ppm	1.55%
Fe 273.955	5536110.7	111.2	1.93	mg/L	5559	96.5	ppm	1.74%
Mg 279.079	2339233.6	73.65	1.237	mg/L	3683	61.8	ppm	1.68%
Mn 257.610	2523522.0	1.590	0.0285	mg/L	79.49	1.427	ppm	1.80%
Mo 202.030	-38.4	-0.0064	0.00149	mg/L	-0.3175	0.07462	ppm	23.50%
Ni 231.604	3911.4	0.0773	0.00382	mg/L	3.865	0.1909	ppm	4.94%
Pb 220.353	434.4	0.0408	0.00255	mg/L	2.039	0.1275	ppm	6.25%
Sb 206.833	65.2	0.0036	0.01106	mg/L	0.1823	0.55314	ppm	303.38%
Se 196.026	-62.8	0.0045	0.00487	mg/L	0.2242	0.24331	ppm	108.54%
Tl 190.800	73.5	-0.0059	0.00458	mg/L	-0.2968	0.22898	ppm	77.14%
V 292.402	24566.0	0.2203	0.00397	mg/L	11.02	0.199	ppm	1.80%
Zn 213.856	26243.1	0.2358	0.00890	mg/L	11.79	0.445	ppm	3.78%

Replicate Data ----------

ID: 6141-5 F=50 Date: 11/21/02 12:36:12 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1701.0	-627.0	-0.0031	mg/L	-0.1554	ppm
1	Al 308.215	2395195.6	2390598.0	65.52	mg/L	3276	ppm
1	As 188.979	73.8	4.4	0.0333	mg/L	1.663	ppm
1	Ba 233.527	156924.1	157789.7	0.4467	mg/L	22.33	ppm
1	Be 313.107	3254.8	3669.0	0.0013	mg/L	0.0662	ppm
1	Ca 227.547	309730.1	309446.6	1186	mg/L	59300	ppm
1	Cd 228.802	289.9	200.1	0.0016	mg/L	0.0790	ppm
1	Co 228.616	5059.4	5476.1	0.0518	mg/L	2.588	ppm
1	Cr 267.716	11200.9	11360.7	0.1256	mg/L	6.281	ppm
1	Cu 324.754	21493.8	19206.9	0.0654	mg/L	3.271	ppm
1	Fe 273.955	5580592.6	5577602.8	112.0	mg/L	5601	ppm
1	Mg 279.079	2106703.4	2106107.2	66.31	mg/L	3316	ppm

1	Mn 257.610	2946174.4	2945053.7	1.855	mg/L	92.77 ppm
1	Mo 202.030	-41.1	-12.6	-0.0050	mg/L	-0.2507 ppm
1	Ni 231.604	4399.1	4123.9	0.0815	mg/L	4.074 ppm
1	Pb 220.353	931.5	746.6	0.0578	mg/L	2.889 ppm
1	Sb 206.833	98.8	38.1	-0.0011	mg/L	-0.0539 ppm
1	Se 196.026	-1.7	-86.0	-0.0023	mg/L	-0.1137 ppm
1	Tl 190.800	282.2	93.6	0.0012	mg/L	0.0601 ppm
1	V 292.402	26128.4	25965.7	0.2329	mg/L	11.64 ppm
1	Zn 213.856	31429.0	32012.4	0.2901	mg/L	14.50 ppm
2	Ag 328.068	-1554.6	-480.7	-0.0024	mg/L	-0.1191 ppm
2	Al 308.215	2413426.8	2408829.2	66.02	mg/L	3301 ppm
2	As 188.979	66.8	-2.6	0.0307	mg/L	1.533 ppm
2	Ba 233.527	156000.7	156866.3	0.4440	mg/L	22.20 ppm
2	Be 313.107	3190.1	3604.3	0.0013	mg/L	0.0650 ppm
2	Ca 227.547	310742.6	310459.2	1190	mg/L	59490 ppm
2	Cd 228.802	287.3	197.5	0.0016	mg/L	0.0779 ppm
2	Co 228.616	5057.3	5474.0	0.0517	mg/L	2.587 ppm
2	Cr 267.716	11115.3	11275.1	0.1247	mg/L	6.234 ppm
2	Cu 324.754	21807.3	19520.4	0.0664	mg/L	3.320 ppm
2	Fe 273.955	5581076.8	5578086.9	112.0	mg/L	5601 ppm
2	Mg 279.079	2100012.9	2099416.8	66.10	mg/L	3305 ppm
2	Mn 257.610	2981264.0	2980143.3	1.878	mg/L	93.88 ppm
2	Mo 202.030	-42.9	-14.4	-0.0051	mg/L	-0.2556 ppm
2	Ni 231.604	4399.5	4124.3	0.0815	mg/L	4.075 ppm
2	Pb 220.353	922.5	737.6	0.0572	mg/L	2.861 ppm
2	Sb 206.833	106.4	45.7	0.0008	mg/L	0.0376 ppm
2	Se 196.026	7.8	-76.5	0.0011	mg/L	0.0564 ppm
2	Tl 190.800	289.9	101.4	0.0034	mg/L	0.1701 ppm
2	V 292.402	26121.6	25958.8	0.2328	mg/L	11.64 ppm
2	Zn 213.856	31734.4	32317.8	0.2930	mg/L	14.65 ppm
3	Ag 328.068	-1660.8	-586.9	-0.0029	mg/L	-0.1455 ppm
3	Al 308.215	2391624.3	2387026.7	65.42	mg/L	3271 ppm
3	As 188.979	72.3	2.8	0.0330	mg/L	1.652 ppm
3	Ba 233.527	157887.7	158753.3	0.4494	mg/L	22.47 ppm
3	Be 313.107	3500.5	3914.7	0.0014	mg/L	0.0706 ppm
3	Ca 227.547	313538.8	313255.3	1201	mg/L	60030 ppm
3	Cd 228.802	292.2	202.4	0.0016	mg/L	0.0799 ppm
3	Co 228.616	5054.6	5471.3	0.0517	mg/L	2.586 ppm
3	Cr 267.716	11182.7	11342.5	0.1254	mg/L	6.271 ppm
3	Cu 324.754	21854.9	19568.0	0.0665	mg/L	3.326 ppm
3	Fe 273.955	5551808.2	5548818.4	111.4	mg/L	5572 ppm
3	Mg 279.079	2119930.4	2119334.3	66.73	mg/L	3336 ppm
3	Mn 257.610	2933821.0	2932700.3	1.848	mg/L	92.38 ppm
3	Mo 202.030	-49.2	-20.7	-0.0054	mg/L	-0.2711 ppm
3	Ni 231.604	4356.5	4081.3	0.0806	mg/L	4.032 ppm
3	Pb 220.353	935.0	750.1	0.0581	mg/L	2.903 ppm
3	Sb 206.833	89.6	29.0	-0.0032	mg/L	-0.1619 ppm
3	Se 196.026	10.8	-73.5	0.0021	mg/L	0.1048 ppm
3	Tl 190.800	278.0	89.4	0.0001	mg/L	0.0047 ppm
3	V 292.402	26453.8	26291.0	0.2358	mg/L	11.79 ppm
3	Zn 213.856	31984.4	32567.8	0.2954	mg/L	14.77 ppm

Mean Data

ID: 6141-5 F=50 Seq. No.: 26 Sample No.: 14 A/S Pos: 22
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 12:36:12 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-564.9	-0.0028	0.00037	mg/L	-0.1400	0.01875	ppm	13.39%
Al 308.215	2395484.7	65.66	0.321	mg/L	3283	16.0	ppm	0.49%
As 188.979	1.5	0.0323	0.00144	mg/L	1.616	0.0722	ppm	4.47%
Ba 233.527	157803.1	0.4467	0.00267	mg/L	22.33	0.134	ppm	0.60%
Be 313.107	3729.4	0.0013	0.00006	mg/L	0.0673	0.00296	ppm	4.39%
Ca 227.547	311053.7	1192	7.5	mg/L	59610	376.9	ppm	0.63%
Cd 228.802	200.0	0.0016	0.00002	mg/L	0.0789	0.00097	ppm	1.23%
Co 228.616	5473.8	0.0517	0.00002	mg/L	2.587	0.0011	ppm	0.04%
Cr 267.716	11326.1	0.1252	0.00050	mg/L	6.262	0.0249	ppm	0.40%
Cu 324.754	19431.8	0.0661	0.00061	mg/L	3.306	0.0303	ppm	0.92%
Fe 273.955	5568169.4	111.8	0.34	mg/L	5591	16.8	ppm	0.30%

279.079	2108286.1	66.38	0.319 mg/L	3319	16.0 ppm	0.48%
257.610	2952632.4	1.860	0.0155 mg/L	93.01	0.775 ppm	0.83%
202.030	-15.9	-0.0052	0.00021 mg/L	-0.2592	0.01065 ppm	4.11%
Ni 231.604	4109.8	0.0812	0.00049 mg/L	4.061	0.0244 ppm	0.60%
220.353	744.8	0.0577	0.00043 mg/L	2.885	0.0215 ppm	0.74%
206.833	37.6	-0.0012	0.00200 mg/L	-0.0594	0.09988 ppm	168.12%
196.026	-78.7	0.0003	0.00229 mg/L	0.0158	0.11473 ppm	724.08%
Tl 190.800	94.8	0.0016	0.00168 mg/L	0.0783	0.08420 ppm	107.48%
V 292.402	26071.8	0.2338	0.00170 mg/L	11.69	0.085 ppm	0.73%
213.856	32299.3	0.2928	0.00265 mg/L	14.64	0.133 ppm	0.91%

Replicate Data ----------

ID: 6141-6 F=50 Date: 11/21/02 12:39:48 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-1172.6	-98.6	-0.0005	mg/L	-0.0244	ppm
1	Al 308.215	1596368.0	1591770.4	43.63	mg/L	2181	ppm
1	As 188.979	33.7	-35.8	0.0486	mg/L	2.430	ppm
1	Ba 233.527	137318.0	138183.6	0.3912	mg/L	19.56	ppm
1	Be 313.107	240.8	655.0	0.0002	mg/L	0.0118	ppm
1	Ca 227.547	631923.8	631640.3	2416	mg/L	120800	ppm
1	Cd 228.802	387.4	297.7	0.0023	mg/L	0.1175	ppm
1	Co 228.616	1911.5	2328.2	0.0220	mg/L	1.100	ppm
1	Cr 267.716	9996.7	10156.4	0.1123	mg/L	5.615	ppm
1	Cu 324.754	9005.0	6718.1	0.0211	mg/L	1.054	ppm
1	Fe 273.955	2467900.7	2464910.9	49.50	mg/L	2475	ppm
1	Mg 279.079	1976069.6	1975473.5	62.20	mg/L	3110	ppm
1	Mn 257.610	1854512.3	1853391.6	1.168	mg/L	58.38	ppm
1	Mo 202.030	-104.9	-76.4	-0.0040	mg/L	-0.2024	ppm
1	Ni 231.604	2487.7	2212.5	0.0437	mg/L	2.186	ppm
1	Pb 220.353	296.2	111.3	0.0185	mg/L	0.9241	ppm
1	Sb 206.833	85.0	24.4	0.0026	mg/L	0.1282	ppm
1	Se 196.026	51.9	-32.4	0.0000	mg/L	-0.0013	ppm
1	Tl 190.800	276.7	88.1	0.0146	mg/L	0.7323	ppm
1	V 292.402	11985.0	11822.2	0.1060	mg/L	5.301	ppm
1	Zn 213.856	12199.9	12783.2	0.1153	mg/L	5.767	ppm
2	Ag 328.068	-1347.6	-273.7	-0.0014	mg/L	-0.0678	ppm
2	Al 308.215	1656457.9	1651860.3	45.27	mg/L	2264	ppm
2	As 188.979	29.6	-39.9	0.0497	mg/L	2.483	ppm
2	Ba 233.527	134380.6	135246.2	0.3828	mg/L	19.14	ppm
2	Be 313.107	272.4	686.6	0.0002	mg/L	0.0124	ppm
2	Ca 227.547	658807.7	658524.3	2519	mg/L	125900	ppm
2	Cd 228.802	371.6	281.9	0.0022	mg/L	0.1112	ppm
2	Co 228.616	1914.9	2331.6	0.0220	mg/L	1.102	ppm
2	Cr 267.716	9540.8	9700.6	0.1073	mg/L	5.363	ppm
2	Cu 324.754	9125.6	6838.6	0.0215	mg/L	1.073	ppm
2	Fe 273.955	2537101.7	2534111.9	50.89	mg/L	2545	ppm
2	Mg 279.079	2037320.6	2036724.4	64.13	mg/L	3206	ppm
2	Mn 257.610	1911830.6	1910709.9	1.204	mg/L	60.19	ppm
2	Mo 202.030	-97.1	-68.6	-0.0036	mg/L	-0.1817	ppm
2	Ni 231.604	2498.6	2223.4	0.0439	mg/L	2.197	ppm
2	Pb 220.353	296.3	111.5	0.0190	mg/L	0.9477	ppm
2	Sb 206.833	86.6	26.0	0.0011	mg/L	0.0534	ppm
2	Se 196.026	42.7	-41.6	-0.0031	mg/L	-0.1529	ppm
2	Tl 190.800	271.6	83.0	0.0129	mg/L	0.6426	ppm
2	V 292.402	11525.3	11362.6	0.1019	mg/L	5.095	ppm
2	Zn 213.856	12346.4	12929.8	0.1166	mg/L	5.828	ppm
3	Ag 328.068	-1293.1	-219.1	-0.0011	mg/L	-0.0543	ppm
3	Al 308.215	1654763.0	1650165.4	45.23	mg/L	2261	ppm
3	As 188.979	20.2	-49.3	0.0459	mg/L	2.294	ppm
3	Ba 233.527	133318.4	134184.0	0.3798	mg/L	18.99	ppm
3	Be 313.107	189.7	603.9	0.0002	mg/L	0.0109	ppm
3	Ca 227.547	656978.6	656695.1	2512	mg/L	125600	ppm
3	Cd 228.802	371.2	281.5	0.0022	mg/L	0.1111	ppm
3	Co 228.616	1938.4	2355.1	0.0223	mg/L	1.113	ppm
3	Cr 267.716	9741.1	9900.8	0.1095	mg/L	5.474	ppm
3	Cu 324.754	9097.9	6811.0	0.0214	mg/L	1.069	ppm
3	Fe 273.955	2532705.8	2529715.9	50.80	mg/L	2540	ppm

3	Mg 279.079	2034200.4	2033604.2	64.03	mg/L	3201 ppm
3	Mn 257.610	1918058.6	1916937.9	1.208	mg/L	60.39 ppm
3	Mo 202.030	-112.2	-83.7	-0.0044	mg/L	-0.2216 ppm
3	Ni 231.604	2491.3	2216.1	0.0438	mg/L	2.190 ppm
3	Pb 220.353	298.5	113.6	0.0191	mg/L	0.9536 ppm
3	Sb 206.833	80.6	19.9	-0.0004	mg/L	-0.0217 ppm
3	Se 196.026	53.8	-30.5	0.0009	mg/L	0.0472 ppm
3	Tl 190.800	255.8	67.2	0.0083	mg/L	0.4134 ppm
3	V 292.402	11845.6	11682.9	0.1048	mg/L	5.239 ppm
3	Zn 213.856	12439.6	13023.0	0.1175	mg/L	5.873 ppm

Mean Data ----------

ID: 6141-6 F=50 Seq. No.: 27 Sample No.: 15 A/S Pos: 23
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 12:39:48 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-197.2	-0.0010	0.00044	mg/L	-0.0489	0.02220	ppm	45.43%
Al 308.215	1631265.4	44.71	0.938	mg/L	2236	46.9	ppm	2.10%
As 188.979	-41.6	0.0481	0.00195	mg/L	2.403	0.0976	ppm	4.06%
Ba 233.527	135871.3	0.3846	0.00586	mg/L	19.23	0.293	ppm	1.52%
Be 313.107	648.5	0.0002	0.00002	mg/L	0.0117	0.00075	ppm	6.44%
Ca 227.547	648953.2	2482	57.5	mg/L	124100	2872.6	ppm	2.31%
Cd 228.802	287.0	0.0023	0.00007	mg/L	0.1133	0.00364	ppm	3.21%
Co 228.616	2338.3	0.0221	0.00014	mg/L	1.105	0.0069	ppm	0.63%
Cr 267.716	9919.3	0.1097	0.00253	mg/L	5.484	0.1263	ppm	2.30%
Cu 324.754	6789.2	0.0213	0.00020	mg/L	1.066	0.0099	ppm	0.93%
Fe 273.955	2509579.6	50.40	0.778	mg/L	2520	38.9	ppm	1.54%
Mg 279.079	2015267.4	63.45	1.086	mg/L	3173	54.3	ppm	1.71%
Mn 257.610	1893679.8	1.193	0.0221	mg/L	59.65	1.103	ppm	1.85%
Mo 202.030	-76.2	-0.0040	0.00040	mg/L	-0.2019	0.01994	ppm	9.87%
Ni 231.604	2217.3	0.0438	0.00011	mg/L	2.191	0.0055	ppm	0.25%
Pb 220.353	112.1	0.0188	0.00031	mg/L	0.9418	0.01560	ppm	1.66%
Sb 206.833	23.4	0.0011	0.00150	mg/L	0.0533	0.07494	ppm	140.62%
Se 196.026	-34.8	-0.0007	0.00209	mg/L	-0.0357	0.10440	ppm	292.59%
Tl 190.800	79.5	0.0119	0.00329	mg/L	0.5961	0.16449	ppm	27.59%
V 292.402	11622.6	0.1042	0.00211	mg/L	5.212	0.1057	ppm	2.03%
Zn 213.856	12912.0	0.1164	0.00107	mg/L	5.822	0.0533	ppm	0.92%

Replicate Data ----------

ID: 6141-7 F=50 Date: 11/21/02 12:43:07 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-2468.8	-1394.8	-0.0069	mg/L	-0.3457	ppm
1	Al 308.215	5189659.3	5185061.7	142.1	mg/L	7106	ppm
1	As 188.979	225.3	155.8	0.1015	mg/L	5.077	ppm
1	Ba 233.527	241952.1	242817.7	0.6873	mg/L	34.37	ppm
1	Be 313.107	13159.1	13573.3	0.0049	mg/L	0.2449	ppm
1	Ca 227.547	387960.3	387676.9	1488	mg/L	74380	ppm
1	Cd 228.802	408.3	318.6	0.0025	mg/L	0.1257	ppm
1	Co 228.616	12235.3	12652.0	0.1196	mg/L	5.980	ppm
1	Cr 267.716	24990.0	25149.8	0.2726	mg/L	13.63	ppm
1	Cu 324.754	40794.1	38507.2	0.1311	mg/L	6.556	ppm
1	Fe 273.955	11148633.4	11145643.6	223.8	mg/L	11190	ppm
1	Mg 279.079	2938430.0	2937833.9	92.50	mg/L	4625	ppm
1	Mn 257.610	4651993.3	4650872.6	2.930	mg/L	146.5	ppm
1	Mo 202.030	28.2	56.7	-0.0057	mg/L	-0.2844	ppm
1	Ni 231.604	13277.0	13001.8	0.2569	mg/L	12.85	ppm
1	Pb 220.353	1982.2	1797.3	0.1319	mg/L	6.595	ppm
1	Sb 206.833	146.6	85.9	-0.0010	mg/L	-0.0485	ppm
1	Se 196.026	-41.2	-125.5	0.0115	mg/L	0.5739	ppm
1	Tl 190.800	359.0	170.5	-0.0044	mg/L	-0.2198	ppm
1	V 292.402	54320.5	54157.8	0.4857	mg/L	24.29	ppm
1	Zn 213.856	58483.0	59066.4	0.5334	mg/L	26.67	ppm
2	Ag 328.068	-2808.2	-1734.2	-0.0086	mg/L	-0.4298	ppm
2	Al 308.215	5309226.4	5304628.9	145.4	mg/L	7270	ppm
2	As 188.979	244.9	175.5	0.1087	mg/L	5.435	ppm
2	Ba 233.527	240791.3	241656.9	0.6841	mg/L	34.20	ppm

2 Be 313.107	12849.1	13263.3	0.0048	mg/L	0.2393 ppm
2 Ca 227.547	384520.6	384237.2	1475	mg/L	73730 ppm
2 Cd 228.802	348.8	259.0	0.0020	mg/L	0.1022 ppm
2 Co 228.616	11927.4	12344.1	0.1167	mg/L	5.834 ppm
2 Cr 267.716	24990.2	25149.9	0.2725	mg/L	13.62 ppm
2 Cu 324.754	40312.3	38025.3	0.1298	mg/L	6.490 ppm
2 Fe 273.955	11337704.5	11334714.7	227.6	mg/L	11380 ppm
2 Mg 279.079	2916675.6	2916079.4	91.81	mg/L	4591 ppm
2 Mn 257.610	4610443.5	4609322.7	2.904	mg/L	145.2 ppm
2 Mo 202.030	113.0	141.5	-0.0013	mg/L	-0.0670 ppm
2 Ni 231.604	13279.0	13003.8	0.2570	mg/L	12.85 ppm
2 Pb 220.353	1979.5	1794.7	0.1318	mg/L	6.591 ppm
2 Sb 206.833	200.0	139.3	0.0115	mg/L	0.5770 ppm
2 Se 196.026	-37.0	-121.3	0.0139	mg/L	0.6951 ppm
2 Tl 190.800	331.2	142.7	-0.0135	mg/L	-0.6759 ppm
2 V 292.402	54173.4	54010.6	0.4844	mg/L	24.22 ppm
2 Zn 213.856	57974.9	58558.3	0.5282	mg/L	26.41 ppm
3 Ag 328.068	-2321.0	-1247.1	-0.0062	mg/L	-0.3091 ppm
3 Al 308.215	5263281.0	5258683.4	144.1	mg/L	7207 ppm
3 As 188.979	207.1	137.7	0.0949	mg/L	4.744 ppm
3 Ba 233.527	244467.8	245333.4	0.6945	mg/L	34.72 ppm
3 Be 313.107	13206.2	13620.4	0.0049	mg/L	0.2458 ppm
3 Ca 227.547	391498.8	391215.3	1501	mg/L	75060 ppm
3 Cd 228.802	349.9	260.2	0.0021	mg/L	0.1027 ppm
3 Co 228.616	11983.2	12399.9	0.1172	mg/L	5.861 ppm
3 Cr 267.716	24690.7	24850.5	0.2692	mg/L	13.46 ppm
3 Cu 324.754	41076.3	38789.4	0.1321	mg/L	6.606 ppm
3 Fe 273.955	11254747.3	11251757.5	226.0	mg/L	11300 ppm
3 Mg 279.079	2962750.6	2962154.5	93.26	mg/L	4663 ppm
3 Mn 257.610	4677940.3	4676819.5	2.947	mg/L	147.3 ppm
3 Mo 202.030	105.2	133.7	-0.0017	mg/L	-0.0844 ppm
3 Ni 231.604	13205.9	12930.7	0.2555	mg/L	12.78 ppm
3 Pb 220.353	1943.2	1758.3	0.1294	mg/L	6.471 ppm
3 Sb 206.833	145.3	84.6	-0.0013	mg/L	-0.0668 ppm
3 Se 196.026	-96.1	-180.3	-0.0079	mg/L	-0.3973 ppm
3 Tl 190.800	348.9	160.4	-0.0080	mg/L	-0.3975 ppm
3 V 292.402	54922.2	54759.4	0.4911	mg/L	24.56 ppm
3 Zn 213.856	59075.8	59659.2	0.5388	mg/L	26.94 ppm

ean Data ----------

D: 6141-7 F=50 Seq. No.: 28 Sample No.: 16 A/S Pos: 24

mple Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 12:43:07 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
328.068	-1458.7	-0.0072	0.00124	mg/L	-0.3616	0.06191	ppm	17.12%
308.215	5249458.0	143.9	1.65	mg/L	7194	82.7	ppm	1.15%
s 188.979	156.3	0.1017	0.00691	mg/L	5.085	0.3456	ppm	6.80%
a 233.527	243269.3	0.6886	0.00532	mg/L	34.43	0.266	ppm	0.77%
313.107	13485.7	0.0049	0.00007	mg/L	0.2434	0.00350	ppm	1.44%
227.547	387709.8	1488	13.3	mg/L	74390	666.3	ppm	0.90%
d 228.802	279.3	0.0022	0.00027	mg/L	0.1102	0.01343	ppm	12.19%
228.616	12465.3	0.1178	0.00155	mg/L	5.892	0.0775	ppm	1.32%
267.716	25050.1	0.2714	0.00192	mg/L	13.57	0.096	ppm	0.71%
324.754	38440.6	0.1310	0.00117	mg/L	6.551	0.0583	ppm	0.89%
e 273.955	11244038.6	225.8	1.90	mg/L	11290	95.2	ppm	0.84%
g 279.079	2938689.3	92.53	0.726	mg/L	4626	36.3	ppm	0.78%
257.610	4645671.6	2.927	0.0215	mg/L	146.3	1.07	ppm	0.73%
202.030	110.6	-0.0029	0.00242	mg/L	-0.1452	0.12079	ppm	83.16%
i 231.604	12978.8	0.2565	0.00082	mg/L	12.82	0.041	ppm	0.32%
b 220.353	1783.4	0.1310	0.00140	mg/L	6.552	0.0702	ppm	1.07%
206.833	103.3	0.0031	0.00733	mg/L	0.1539	0.36655	ppm	238.14%
196.026	-142.4	0.0058	0.01198	mg/L	0.2906	0.59875	ppm	206.07%
190.800	157.9	-0.0086	0.00460	mg/L	-0.4311	0.22993	ppm	53.34%
292.402	54309.3	0.4871	0.00356	mg/L	24.35	0.178	ppm	0.73%
213.856	59094.6	0.5335	0.00528	mg/L	26.67	0.264	ppm	0.99%

plicate Data ----------

D: 6141-8 F=50 Date: 11/21/02 12:45:49 PM

2	Tl 190.800	383.4	194.8	-0.0110	mg/L	-0.5516 ppm
2	V 292.402	61997.6	61834.8	0.5546	mg/L	27.73 ppm
2	Zn 213.856	85771.0	86354.4	0.7819	mg/L	39.10 ppm
3	Ag 328.068	-2953.9	-1880.0	-0.0093	mg/L	-0.4660 ppm
3	Al 308.215	4842333.7	4837736.1	132.6	mg/L	6630 ppm
3	As 188.979	289.6	220.2	0.1015	mg/L	5.074 ppm
3	Ba 233.527	266396.9	267262.5	0.7565	mg/L	37.83 ppm
3	Be 313.107	7054.1	7468.3	0.0027	mg/L	0.1348 ppm
3	Ca 227.547	100941.5	100658.0	391.8	mg/L	19590 ppm
3	Cd 228.802	360.7	271.0	0.0021	mg/L	0.1069 ppm
3	Co 228.616	13029.6	13446.3	0.1271	mg/L	6.355 ppm
3	Cr 267.716	22888.0	23047.7	0.2472	mg/L	12.36 ppm
3	Cu 324.754	62425.2	60138.2	0.2029	mg/L	10.15 ppm
3	Fe 273.955	15375935.5	15372945.6	308.7	mg/L	15440 ppm
3	Mg 279.079	2369211.9	2368615.8	74.58	mg/L	3729 ppm
3	Mn 257.610	5283677.4	5282556.7	3.328	mg/L	166.4 ppm
3	Mo 202.030	233.9	262.4	0.0019	mg/L	0.0959 ppm
3	Ni 231.604	12794.0	12518.8	0.2474	mg/L	12.37 ppm
3	Pb 220.353	2154.3	1969.4	0.1384	mg/L	6.920 ppm
3	Sb 206.833	82.5	21.9	-0.0187	mg/L	-0.9338 ppm
3	Se 196.026	-86.9	-171.1	0.0211	mg/L	1.056 ppm
3	Tl 190.800	340.0	151.5	-0.0238	mg/L	-1.191 ppm
3	V 292.402	58860.0	58697.2	0.5264	mg/L	26.32 ppm
3	Zn 213.856	81823.6	82407.0	0.7446	mg/L	37.23 ppm

ean Data ----------

D: 6141-9 F=50 Seq. No.: 30 Sample No.: 18 A/S Pos: 26
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 12:48:32 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-1890.2	-0.0094	0.00007	mg/L	-0.4685	0.00356	ppm	0.76%
l 308.215	4786530.9	131.2	1.79	mg/L	6560	89.5	ppm	1.36%
s 188.979	234.8	0.1074	0.00571	mg/L	5.369	0.2855	ppm	5.32%
a 233.527	275308.8	0.7793	0.02128	mg/L	38.97	1.064	ppm	2.73%
e 313.107	7773.6	0.0028	0.00012	mg/L	0.1403	0.00612	ppm	4.36%
a 227.547	103733.5	403.5	11.16	mg/L	20180	557.9	ppm	2.77%
d 228.802	326.1	0.0026	0.00038	mg/L	0.1287	0.01887	ppm	14.66%
o 228.616	13446.3	0.1271	0.00105	mg/L	6.355	0.0523	ppm	0.82%
r 267.716	23038.9	0.2472	0.00458	mg/L	12.36	0.229	ppm	1.85%
u 324.754	62141.2	0.2091	0.00575	mg/L	10.45	0.287	ppm	2.75%
e 273.955	15251675.5	306.3	3.14	mg/L	15310	156.8	ppm	1.02%
g 279.079	2439043.9	76.79	2.049	mg/L	3840	102.4	ppm	2.67%
n 257.610	5239177.0	3.301	0.0345	mg/L	165.0	1.73	ppm	1.05%
o 202.030	250.2	0.0014	0.00242	mg/L	0.0681	0.12109	ppm	177.75%
i 231.604	12527.4	0.2475	0.00343	mg/L	12.38	0.171	ppm	1.38%
b 220.353	1998.1	0.1403	0.00294	mg/L	7.015	0.1468	ppm	2.09%
b 206.833	86.2	-0.0032	0.01526	mg/L	-0.1581	0.76307	ppm	482.66%
e 196.026	-168.3	0.0215	0.00080	mg/L	1.075	0.0400	ppm	3.72%
l 190.800	160.7	-0.0206	0.00849	mg/L	-1.032	0.4245	ppm	41.11%
292.402	60434.1	0.5420	0.01431	mg/L	27.10	0.716	ppm	2.64%
n 213.856	84554.9	0.7651	0.01895	mg/L	38.25	0.948	ppm	2.48%

eplicate Data ----------

D: 6141-10 F=50 Date: 11/21/02 12:51:18 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-3250.5	-2176.5	-0.0108	mg/L	-0.5395	ppm
1	Al 308.215	6496713.2	6492115.6	177.9	mg/L	8897	ppm
1	As 188.979	311.8	242.4	0.1075	mg/L	5.374	ppm
1	Ba 233.527	261807.4	262673.0	0.7435	mg/L	37.18	ppm
1	Be 313.107	13292.9	13707.1	0.0049	mg/L	0.2473	ppm
1	Ca 227.547	86394.4	86110.9	336.6	mg/L	16830	ppm
1	Cd 228.802	380.2	290.5	0.0023	mg/L	0.1146	ppm
1	Co 228.616	15534.4	15951.1	0.1508	mg/L	7.539	ppm
1	Cr 267.716	30503.3	30663.0	0.3309	mg/L	16.55	ppm
1	Cu 324.754	61276.1	58989.2	0.2002	mg/L	10.01	ppm
1	Fe 273.955	16381162.4	16378172.5	328.9	mg/L	16450	ppm

1	Mg 279.079	2877567.6	2876971.4	90.58	mg/L	4529 ppm
1	Mn 257.610	4882165.0	4881044.2	3.075	mg/L	153.8 ppm
1	Mo 202.030	136.1	164.6	-0.0040	mg/L	-0.2025 ppm
1	Ni 231.604	14772.4	14497.2	0.2865	mg/L	14.32 ppm
1	Pb 220.353	2627.8	2442.9	0.1722	mg/L	8.612 ppm
1	Sb 206.833	163.0	102.4	-0.0041	mg/L	-0.2064 ppm
1	Se 196.026	-104.3	-188.6	0.0176	mg/L	0.8796 ppm
1	Tl 190.800	391.1	202.6	-0.0188	mg/L	-0.9421 ppm
1	V 292.402	76365.9	76203.1	0.6834	mg/L	34.17 ppm
1	Zn 213.856	86669.0	87252.4	0.7881	mg/L	39.41 ppm
2	Ag 328.068	-3137.9	-2063.9	-0.0102	mg/L	-0.5116 ppm
2	Al 308.215	6529268.8	6524671.2	178.8	mg/L	8942 ppm
2	As 188.979	310.7	241.3	0.1071	mg/L	5.356 ppm
2	Ba 233.527	262876.6	263742.2	0.7466	mg/L	37.33 ppm
2	Be 313.107	13342.3	13756.5	0.0050	mg/L	0.2482 ppm
2	Ca 227.547	87099.2	86815.7	339.3	mg/L	16970 ppm
2	Cd 228.802	383.4	293.6	0.0023	mg/L	0.1159 ppm
2	Co 228.616	15938.7	16355.4	0.1546	mg/L	7.730 ppm
2	Cr 267.716	30873.9	31033.7	0.3350	mg/L	16.75 ppm
2	Cu 324.754	62115.1	59828.2	0.2029	mg/L	10.14 ppm
2	Fe 273.955	16392360.6	16389370.8	329.1	mg/L	16460 ppm
2	Mg 279.079	2888958.1	2888361.9	90.94	mg/L	4547 ppm
2	Mn 257.610	4919069.3	4917948.6	3.098	mg/L	154.9 ppm
2	Mo 202.030	137.6	166.1	-0.0040	mg/L	-0.1989 ppm
2	Ni 231.604	15089.5	14814.3	0.2927	mg/L	14.64 ppm
2	Pb 220.353	2655.9	2471.0	0.1742	mg/L	8.709 ppm
2	Sb 206.833	178.7	118.1	-0.0005	mg/L	-0.0264 ppm
2	Se 196.026	-170.6	-254.9	-0.0065	mg/L	-0.3248 ppm
2	Tl 190.800	353.6	165.1	-0.0299	mg/L	-1.495 ppm
2	V 292.402	76843.6	76680.8	0.6877	mg/L	34.39 ppm
2	Zn 213.856	87613.3	88196.7	0.7970	mg/L	39.85 ppm
3	Ag 328.068	-3304.8	-2230.8	-0.0111	mg/L	-0.5529 ppm
3	Al 308.215	6568127.1	6563529.5	179.9	mg/L	8995 ppm
3	As 188.979	332.4	263.0	0.1155	mg/L	5.777 ppm
3	Ba 233.527	265065.9	265931.6	0.7528	mg/L	37.64 ppm
3	Be 313.107	13491.8	13906.0	0.0050	mg/L	0.2509 ppm
3	Ca 227.547	88405.7	88122.3	344.3	mg/L	17220 ppm
3	Cd 228.802	334.6	244.9	0.0019	mg/L	0.0966 ppm
3	Co 228.616	15116.8	15533.5	0.1468	mg/L	7.342 ppm
3	Cr 267.716	30891.1	31050.8	0.3352	mg/L	16.76 ppm
3	Cu 324.754	62905.2	60618.2	0.2054	mg/L	10.27 ppm
3	Fe 273.955	16422377.7	16419387.9	329.7	mg/L	16490 ppm
3	Mg 279.079	2910524.0	2909927.9	91.62	mg/L	4581 ppm
3	Mn 257.610	4965622.8	4964502.1	3.128	mg/L	156.4 ppm
3	Mo 202.030	111.8	140.3	-0.0054	mg/L	-0.2685 ppm
3	Ni 231.604	14383.8	14108.6	0.2788	mg/L	13.94 ppm
3	Pb 220.353	2618.5	2433.6	0.1717	mg/L	8.587 ppm
3	Sb 206.833	204.0	143.4	0.0055	mg/L	0.2730 ppm
3	Se 196.026	-216.2	-300.5	-0.0229	mg/L	-1.147 ppm
3	Tl 190.800	363.6	175.1	-0.0273	mg/L	-1.363 ppm
3	V 292.402	77688.6	77525.8	0.6953	mg/L	34.77 ppm
3	Zn 213.856	88507.4	89090.7	0.8054	mg/L	40.27 ppm

an Data ----------

: 6141-10 F=50 Seq. No.: 31 Sample No.: 19 A/S Pos: 27
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 12:51:18 PM

	Mean Corr.	Mean	Calib		Mean	Sample		
lement	Intensity	Conc.	Std.Dev.	Units	Conc.	Std.Dev.	Units	RSD
g 328.068	-2157.1	-0.0107	0.00042	mg/L	-0.5346	0.02110	ppm	3.95%
308.215	6526772.1	178.9	0.98	mg/L	8944	49.0	ppm	0.55%
188.979	248.9	0.1100	0.00476	mg/L	5.502	0.2382	ppm	4.33%
233.527	264115.6	0.7476	0.00470	mg/L	37.38	0.235	ppm	0.63%
e 313.107	13789.9	0.0050	0.00004	mg/L	0.2488	0.00187	ppm	0.75%
227.547	87016.3	340.1	3.91	mg/L	17000	195.6	ppm	1.15%
228.802	276.3	0.0022	0.00022	mg/L	0.1090	0.01077	ppm	9.88%
228.616	15946.7	0.1507	0.00388	mg/L	7.537	0.1942	ppm	2.58%
r 267.716	30915.9	0.3337	0.00242	mg/L	16.68	0.121	ppm	0.72%
324.754	59811.9	0.2028	0.00258	mg/L	10.14	0.129	ppm	1.27%

2 Ba 233.527	-748.9	116.7	0.0003 mg/L
2 Be 313.107	-166.6	247.6	0.0001 mg/L
2 Ca 227.547	284.4	0.9	0.0036 mg/L
2 Cd 228.802	93.3	3.5	0.0000 mg/L
2 Co 228.616	-350.8	65.9	0.0006 mg/L
2 Cr 267.716	-56.7	103.0	0.0011 mg/L
2 Cu 324.754	2272.4	-14.5	0.0000 mg/L
2 Fe 273.955	3190.6	200.8	0.0040 mg/L
2 Mg 279.079	508.8	-87.3	-0.0027 mg/L
2 Mn 257.610	1726.8	606.1	0.0004 mg/L
2 Mo 202.030	-23.4	5.1	0.0003 mg/L
2 Ni 231.604	333.1	57.9	0.0011 mg/L
2 Pb 220.353	185.4	0.6	0.0000 mg/L
2 Sb 206.833	66.8	6.2	0.0015 mg/L
2 Se 196.026	84.5	0.2	0.0001 mg/L
2 Tl 190.800	191.0	2.5	0.0007 mg/L
2 V 292.402	317.1	154.4	0.0014 mg/L
2 Zn 213.856	-507.6	75.8	0.0007 mg/L
3 Ag 328.068	-1026.2	47.7	0.0002 mg/L
3 Al 308.215	4450.7	-146.9	-0.0040 mg/L
3 As 188.979	67.8	-1.6	-0.0006 mg/L
3 Ba 233.527	-849.8	15.9	0.0000 mg/L
3 Be 313.107	-130.2	284.0	0.0001 mg/L
3 Ca 227.547	182.1	-101.3	-0.3876 mg/L
3 Cd 228.802	98.9	9.1	0.0001 mg/L
3 Co 228.616	-323.4	93.3	0.0009 mg/L
3 Cr 267.716	-76.7	83.1	0.0009 mg/L
3 Cu 324.754	2197.8	-89.1	-0.0003 mg/L
3 Fe 273.955	3000.6	10.8	0.0002 mg/L
3 Mg 279.079	729.5	133.4	0.0042 mg/L
3 Mn 257.610	1551.1	430.4	0.0003 mg/L
3 Mo 202.030	-23.0	5.5	0.0003 mg/L
3 Ni 231.604	394.0	118.8	0.0023 mg/L
3 Pb 220.353	176.9	-8.0	-0.0005 mg/L
3 Sb 206.833	65.4	4.7	0.0011 mg/L
3 Se 196.026	85.7	1.4	0.0005 mg/L
3 Tl 190.800	195.1	6.5	0.0019 mg/L
3 V 292.402	202.0	39.2	0.0004 mg/L
3 Zn 213.856	-536.4	47.0	0.0004 mg/L

ean Data ----------

D: CCB
ample Qty: 1.0000 g

Seq. No.: 33 Sample No.: 6 A/S Pos: 1
Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 12:59:35 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	21.9	0.0001	0.00036	mg/L				330.69%
l 308.215	3.9	0.0001	0.00458	mg/L				>999.9%
s 188.979	0.1	0.0001	0.00102	mg/L				>999.9%
a 233.527	55.1	0.0002	0.00015	mg/L				98.14%
e 313.107	287.2	0.0001	0.00001	mg/L				14.37%
a 227.547	-23.6	-0.0903	0.26325	mg/L				291.57%
d 228.802	8.8	0.0001	0.00004	mg/L				58.15%
o 228.616	105.2	0.0010	0.00044	mg/L				44.03%
r 267.716	79.9	0.0009	0.00028	mg/L				31.25%
u 324.754	14.9	0.0000	0.00038	mg/L				816.98%
e 273.955	261.3	0.0052	0.00574	mg/L				109.30%
g 279.079	25.8	0.0008	0.00348	mg/L				428.19%
n 257.610	574.1	0.0004	0.00008	mg/L				22.77%
o 202.030	2.4	0.0001	0.00027	mg/L				216.93%
i 231.604	114.1	0.0023	0.00107	mg/L				47.30%
b 220.353	-2.2	-0.0001	0.00034	mg/L				236.75%
b 206.833	6.0	0.0014	0.00027	mg/L				19.13%
e 196.026	-1.3	-0.0005	0.00132	mg/L				282.81%
l 190.800	1.4	0.0004	0.00165	mg/L				390.68%
292.402	99.3	0.0009	0.00052	mg/L				58.14%
n 213.856	72.9	0.0007	0.00023	mg/L				33.66%

eplicate Data ----------

D: 6141-11 F=50 Date: 11/21/02 1:02:46 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-2644.8	-1570.9	-0.0078	mg/L	-0.3894	ppm
1	Al 308.215	5143146.1	5138548.6	140.8	mg/L	7042	ppm
1	As 188.979	226.2	156.7	0.0753	mg/L	3.766	ppm
1	Ba 233.527	206762.4	207628.0	0.5877	mg/L	29.39	ppm
1	Be 313.107	7814.7	8229.0	0.0030	mg/L	0.1485	ppm
1	Ca 227.547	91910.9	91627.4	357.0	mg/L	17850	ppm
1	Cd 228.802	212.7	123.0	0.0010	mg/L	0.0485	ppm
1	Co 228.616	10155.0	10571.7	0.0999	mg/L	4.997	ppm
1	Cr 267.716	22926.0	23085.8	0.2479	mg/L	12.40	ppm
1	Cu 324.754	38730.8	36443.9	0.1280	mg/L	6.401	ppm
1	Fe 273.955	14810044.6	14807054.8	297.4	mg/L	14870	ppm
1	Mg 279.079	2500341.1	2499744.9	78.71	mg/L	3935	ppm
1	Mn 257.610	3604251.9	3603131.1	2.270	mg/L	113.5	ppm
1	Mo 202.030	100.3	128.9	-0.0047	mg/L	-0.2359	ppm
1	Ni 231.604	8431.2	8156.0	0.1612	mg/L	8.058	ppm
1	Pb 220.353	1826.1	1641.2	0.1168	mg/L	5.842	ppm
1	Sb 206.833	200.5	139.9	0.0097	mg/L	0.4859	ppm
1	Se 196.026	-118.4	-202.7	0.0056	mg/L	0.2824	ppm
1	Tl 190.800	369.2	180.7	-0.0149	mg/L	-0.7431	ppm
1	V 292.402	66295.5	66132.8	0.5931	mg/L	29.66	ppm
1	Zn 213.856	69490.4	70073.8	0.6295	mg/L	31.47	ppm
2	Ag 328.068	-2841.8	-1767.8	-0.0088	mg/L	-0.4382	ppm
2	Al 308.215	5163731.4	5159133.9	141.4	mg/L	7070	ppm
2	As 188.979	168.0	98.6	0.0532	mg/L	2.660	ppm
2	Ba 233.527	211278.3	212143.9	0.6005	mg/L	30.03	ppm
2	Be 313.107	7777.3	8191.5	0.0030	mg/L	0.1478	ppm
2	Ca 227.547	93413.1	93129.6	362.8	mg/L	18140	ppm
2	Cd 228.802	223.0	133.2	0.0011	mg/L	0.0526	ppm
2	Co 228.616	10202.1	10618.8	0.1004	mg/L	5.019	ppm
2	Cr 267.716	23252.5	23412.3	0.2515	mg/L	12.57	ppm
2	Cu 324.754	39738.4	37451.4	0.1312	mg/L	6.562	ppm
2	Fe 273.955	14872717.9	14869728.1	298.6	mg/L	14930	ppm
2	Mg 279.079	2541939.4	2541343.3	80.02	mg/L	4001	ppm
2	Mn 257.610	3658157.8	3657037.1	2.304	mg/L	115.2	ppm
2	Mo 202.030	38.6	67.1	-0.0080	mg/L	-0.4018	ppm
2	Ni 231.604	8581.9	8306.7	0.1641	mg/L	8.207	ppm
2	Pb 220.353	1822.8	1637.9	0.1167	mg/L	5.833	ppm
2	Sb 206.833	132.4	71.8	-0.0067	mg/L	-0.3369	ppm
2	Se 196.026	-97.9	-182.2	0.0134	mg/L	0.6717	ppm
2	Tl 190.800	343.5	155.0	-0.0227	mg/L	-1.133	ppm
2	V 292.402	67818.6	67655.8	0.6068	mg/L	30.34	ppm
2	Zn 213.856	70394.3	70977.7	0.6378	mg/L	31.89	ppm
3	Ag 328.068	-3036.8	-1962.9	-0.0097	mg/L	-0.4865	ppm
3	Al 308.215	5096969.9	5092372.3	139.6	mg/L	6979	ppm
3	As 188.979	178.6	109.1	0.0567	mg/L	2.837	ppm
3	Ba 233.527	200613.4	201479.0	0.5703	mg/L	28.52	ppm
3	Be 313.107	7380.6	7794.8	0.0028	mg/L	0.1407	ppm
3	Ca 227.547	88500.5	88217.0	343.9	mg/L	17200	ppm
3	Cd 228.802	216.8	127.1	0.0010	mg/L	0.0501	ppm
3	Co 228.616	10605.8	11022.5	0.1042	mg/L	5.210	ppm
3	Cr 267.716	24037.1	24196.9	0.2603	mg/L	13.01	ppm
3	Cu 324.754	37557.0	35270.1	0.1242	mg/L	6.210	ppm
3	Fe 273.955	14657653.9	14654664.1	294.3	mg/L	14710	ppm
3	Mg 279.079	2423311.2	2422715.0	76.28	mg/L	3814	ppm
3	Mn 257.610	3500381.9	3499261.2	2.205	mg/L	110.2	ppm
3	Mo 202.030	39.3	67.8	-0.0078	mg/L	-0.3915	ppm
3	Ni 231.604	8618.1	8342.9	0.1649	mg/L	8.243	ppm
3	Pb 220.353	1841.8	1656.9	0.1178	mg/L	5.890	ppm
3	Sb 206.833	120.4	59.8	-0.0096	mg/L	-0.4821	ppm
3	Se 196.026	-191.2	-275.5	-0.0216	mg/L	-1.081	ppm
3	Tl 190.800	407.7	219.2	-0.0030	mg/L	-0.1476	ppm
3	V 292.402	64983.2	64820.5	0.5814	mg/L	29.07	ppm
3	Zn 213.856	66997.6	67581.0	0.6063	mg/L	30.31	ppm

Mean Data

ID: 6141-11 F=50 Seq. No.: 34 Sample No.: 20 A/S Pos: 28

Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 1:02:46 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-1767.2	-0.0088	0.00097	mg/L	-0.4380	0.04858	ppm	11.09%
Al 308.215	5130018.2	140.6	0.94	mg/L	7030	46.9	ppm	0.67%
As 188.979	121.5	0.0618	0.01188	mg/L	3.088	0.5940	ppm	19.24%
Ba 233.527	207083.6	0.5862	0.01515	mg/L	29.31	0.758	ppm	2.59%
Be 313.107	8071.7	0.0029	0.00009	mg/L	0.1457	0.00434	ppm	2.98%
Ca 227.547	90991.3	354.6	9.68	mg/L	17730	483.8	ppm	2.73%
Cd 228.802	127.8	0.0010	0.00004	mg/L	0.0504	0.00204	ppm	4.06%
Co 228.616	10737.7	0.1015	0.00234	mg/L	5.075	0.1171	ppm	2.31%
Cr 267.716	23565.0	0.2532	0.00636	mg/L	12.66	0.318	ppm	2.51%
Cu 324.754	36388.5	0.1278	0.00353	mg/L	6.391	0.1764	ppm	2.76%
Fe 273.955	14777149.0	296.8	2.22	mg/L	14840	111.1	ppm	0.75%
Mg 279.079	2487934.4	78.33	1.895	mg/L	3917	94.8	ppm	2.42%
Mn 257.610	3586476.5	2.260	0.0505	mg/L	113.0	2.53	ppm	2.24%
Mo 202.030	87.9	-0.0069	0.00186	mg/L	-0.3430	0.09296	ppm	27.10%
Ni 231.604	8268.5	0.1634	0.00196	mg/L	8.169	0.0980	ppm	1.20%
Pb 220.353	1645.3	0.1171	0.00061	mg/L	5.855	0.0304	ppm	0.52%
Sb 206.833	90.5	-0.0022	0.01044	mg/L	-0.1110	0.52203	ppm	470.13%
Se 196.026	-220.1	-0.0008	0.01840	mg/L	-0.0422	0.92018	ppm	>999.9%
Tl 190.800	185.0	-0.0135	0.00992	mg/L	-0.6744	0.49605	ppm	73.56%
V 292.402	66203.0	0.5938	0.01273	mg/L	29.69	0.636	ppm	2.14%
Zn 213.856	69544.1	0.6245	0.01636	mg/L	31.23	0.818	ppm	2.62%

Replicate Data

ID: 6141-12 F=50 Date: 11/21/02 1:05:31 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-3293.4	-2219.4	-0.0110	mg/L	-0.5501	ppm
1	Al 308.215	4375634.0	4371036.4	119.8	mg/L	5990	ppm
1	As 188.979	284.8	215.3	0.1016	mg/L	5.079	ppm
1	Ba 233.527	215496.4	216362.0	0.6125	mg/L	30.62	ppm
1	Be 313.107	10028.4	10442.6	0.0038	mg/L	0.1884	ppm
1	Ca 227.547	119012.2	118728.7	460.7	mg/L	23030	ppm
1	Cd 228.802	348.5	258.8	0.0020	mg/L	0.1021	ppm
1	Co 228.616	13499.0	13915.7	0.1315	mg/L	6.577	ppm
1	Cr 267.716	21146.3	21306.1	0.2282	mg/L	11.41	ppm
1	Cu 324.754	57609.6	55322.7	0.1873	mg/L	9.367	ppm
1	Fe 273.955	14867746.5	14864756.7	298.5	mg/L	14930	ppm
1	Mg 279.079	2332746.3	2332150.2	73.43	mg/L	3671	ppm
1	Mn 257.610	6013358.6	6012237.9	3.788	mg/L	189.4	ppm
1	Mo 202.030	247.5	276.0	0.0030	mg/L	0.1517	ppm
1	Ni 231.604	13505.1	13229.9	0.2614	mg/L	13.07	ppm
1	Pb 220.353	2112.7	1927.8	0.1352	mg/L	6.761	ppm
1	Sb 206.833	182.6	122.0	0.0066	mg/L	0.3318	ppm
1	Se 196.026	-69.9	-154.2	0.0251	mg/L	1.257	ppm
1	Tl 190.800	315.9	127.4	-0.0275	mg/L	-1.373	ppm
1	V 292.402	55096.6	54933.8	0.4927	mg/L	24.63	ppm
1	Zn 213.856	81571.8	82155.2	0.7433	mg/L	37.16	ppm
2	Ag 328.068	-3428.2	-2354.2	-0.0117	mg/L	-0.5835	ppm
2	Al 308.215	4445960.8	4441363.2	121.7	mg/L	6087	ppm
2	As 188.979	294.6	225.1	0.1049	mg/L	5.246	ppm
2	Ba 233.527	218069.7	218935.3	0.6197	mg/L	30.99	ppm
2	Be 313.107	9979.2	10393.4	0.0038	mg/L	0.1875	ppm
2	Ca 227.547	120013.5	119730.0	464.3	mg/L	23220	ppm
2	Cd 228.802	304.9	215.1	0.0017	mg/L	0.0849	ppm
2	Co 228.616	12913.0	13329.7	0.1260	mg/L	6.300	ppm
2	Cr 267.716	20584.7	20744.4	0.2222	mg/L	11.11	ppm
2	Cu 324.754	58726.4	56439.5	0.1904	mg/L	9.522	ppm
2	Fe 273.955	14426728.3	14423738.4	289.7	mg/L	14480	ppm
2	Mg 279.079	2358271.7	2357675.5	74.23	mg/L	3712	ppm
2	Mn 257.610	5780495.1	5779374.4	3.641	mg/L	182.1	ppm
2	Mo 202.030	256.6	285.1	0.0039	mg/L	0.1930	ppm
2	Ni 231.604	13373.9	13098.7	0.2588	mg/L	12.94	ppm
2	Pb 220.353	2127.9	1943.0	0.1364	mg/L	6.821	ppm
2	Sb 206.833	201.7	141.1	0.0117	mg/L	0.5835	ppm

2 Se 196.026	-141.6	-225.8	-0.0037	mg/L	-0.1849 ppm
2 Tl 190.800	319.9	131.3	-0.0253	mg/L	-1.263 ppm
2 V 292.402	55552.7	55390.0	0.4968	mg/L	24.84 ppm
2 Zn 213.856	82815.7	83399.1	0.7559	mg/L	37.80 ppm
3 Ag 328.068	-3399.9	-2325.9	-0.0115	mg/L	-0.5765 ppm
3 Al 308.215	4426977.5	4422379.9	121.2	mg/L	6061 ppm
3 As 188.979	309.2	239.8	0.1111	mg/L	5.555 ppm
3 Ba 233.527	216482.1	217347.7	0.6152	mg/L	30.76 ppm
3 Be 313.107	9918.8	10333.0	0.0037	mg/L	0.1865 ppm
3 Ca 227.547	119202.0	118918.6	461.5	mg/L	23070 ppm
3 Cd 228.802	205.1	115.3	0.0009	mg/L	0.0455 ppm
3 Co 228.616	13589.0	14005.7	0.1324	mg/L	6.620 ppm
3 Cr 267.716	21897.8	22057.5	0.2364	mg/L	11.82 ppm
3 Cu 324.754	58400.3	56113.3	0.1900	mg/L	9.498 ppm
3 Fe 273.955	15025518.0	15022528.2	301.7	mg/L	15080 ppm
3 Mg 279.079	2341757.8	2341161.7	73.71	mg/L	3686 ppm
3 Mn 257.610	5980207.7	5979086.9	3.767	mg/L	188.3 ppm
3 Mo 202.030	192.7	221.2	0.0000	mg/L	0.0004 ppm
3 Ni 231.604	13593.7	13318.5	0.2632	mg/L	13.16 ppm
3 Pb 220.353	2320.9	2136.0	0.1492	mg/L	7.461 ppm
3 Sb 206.833	173.7	113.1	0.0041	mg/L	0.2050 ppm
3 Se 196.026	-115.7	-200.0	0.0093	mg/L	0.4671 ppm
3 Tl 190.800	340.0	151.5	-0.0211	mg/L	-1.057 ppm
3 V 292.402	55704.9	55542.2	0.4981	mg/L	24.91 ppm
3 Zn 213.856	81930.0	82513.4	0.7463	mg/L	37.32 ppm

ean Data ----------

ID: 6141-12 F=50 Seq. No.: 35 Sample No.: 21 A/S Pos: 29

ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 1:05:31 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-2299.9	-0.0114	0.00035	mg/L	-0.5700	0.01762	ppm	3.09%
l 308.215	4411593.2	120.9	1.00	mg/L	6046	49.9	ppm	0.82%
s 188.979	226.8	0.1059	0.00483	mg/L	5.293	0.2417	ppm	4.57%
a 233.527	217548.3	0.6158	0.00368	mg/L	30.79	0.184	ppm	0.60%
e 313.107	10389.6	0.0037	0.00002	mg/L	0.1875	0.00099	ppm	0.53%
a 227.547	119125.8	462.2	1.91	mg/L	23110	95.5	ppm	0.41%
d 228.802	196.4	0.0016	0.00058	mg/L	0.0775	0.02902	ppm	37.44%
o 228.616	13750.4	0.1300	0.00347	mg/L	6.499	0.1735	ppm	2.67%
r 267.716	21369.4	0.2289	0.00714	mg/L	11.45	0.357	ppm	3.12%
u 324.754	55958.5	0.1892	0.00167	mg/L	9.462	0.0835	ppm	0.88%
e 273.955	14770341.1	296.6	6.23	mg/L	14830	311.6	ppm	2.10%
g 279.079	2343662.4	73.79	0.408	mg/L	3690	20.4	ppm	0.55%
n 257.610	5923566.4	3.732	0.0794	mg/L	186.6	3.97	ppm	2.13%
o 202.030	260.8	0.0023	0.00203	mg/L	0.1150	0.10140	ppm	88.15%
i 231.604	13215.7	0.2611	0.00219	mg/L	13.06	0.109	ppm	0.84%
b 220.353	2002.3	0.1403	0.00775	mg/L	7.015	0.3877	ppm	5.53%
b 206.833	125.4	0.0075	0.00385	mg/L	0.3735	0.19268	ppm	51.59%
e 196.026	-193.3	0.0103	0.01444	mg/L	0.5130	0.72194	ppm	140.73%
l 190.800	136.8	-0.0246	0.00321	mg/L	-1.231	0.1604	ppm	13.03%
292.402	55288.7	0.4959	0.00284	mg/L	24.79	0.142	ppm	0.57%
n 213.856	82689.2	0.7485	0.00661	mg/L	37.43	0.331	ppm	0.88%

plicate Data ----------

D: 6141-13 F=50 Date: 11/21/02 1:08:19 PM

pl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1 Ag 328.068	-3978.5	-2904.6	-0.0144	mg/L	-0.7199	ppm
1 Al 308.215	5238519.0	5233921.4	143.5	mg/L	7173	ppm
1 As 188.979	460.0	390.6	0.1877	mg/L	9.386	ppm
1 Ba 233.527	559581.4	560447.0	1.586	mg/L	79.32	ppm
1 Be 313.107	20022.5	20436.7	0.0074	mg/L	0.3688	ppm
1 Ca 227.547	260994.0	260710.5	1006	mg/L	50320	ppm
1 Cd 228.802	1409.4	1319.6	0.0104	mg/L	0.5208	ppm
1 Co 228.616	15671.6	16088.3	0.1521	mg/L	7.604	ppm
1 Cr 267.716	37001.9	37161.7	0.4006	mg/L	20.03	ppm
1 Cu 324.754	127761.6	125474.7	0.4129	mg/L	20.65	ppm

1	Fe 273.955	20684383.1	20681393.3	415.3	mg/L	20770 ppm
1	Mg 279.079	3124500.9	3123904.7	98.36	mg/L	4918 ppm
1	Mn 257.610	13512928.3	13511807.6	8.513	mg/L	425.6 ppm
1	Mo 202.030	763.1	791.6	0.0258	mg/L	1.291 ppm
1	Ni 231.604	29403.9	29128.7	0.5756	mg/L	28.78 ppm
1	Pb 220.353	3069.2	2884.3	0.2017	mg/L	10.09 ppm
1	Sb 206.833	272.7	212.1	0.0177	mg/L	0.8841 ppm
1	Se 196.026	-88.2	-172.5	0.0519	mg/L	2.596 ppm
1	Tl 190.800	513.1	324.6	0.0099	mg/L	0.4932 ppm
1	V 292.402	101006.1	100843.4	0.9044	mg/L	45.22 ppm
1	Zn 213.856	141847.6	142431.0	1.299	mg/L	64.97 ppm
2	Ag 328.068	-3851.4	-2777.4	-0.0138	mg/L	-0.6884 ppm
2	Al 308.215	5203376.8	5198779.2	142.5	mg/L	7125 ppm
2	As 188.979	413.9	344.4	0.1692	mg/L	8.461 ppm
2	Ba 233.527	547163.6	548029.3	1.551	mg/L	77.57 ppm
2	Be 313.107	19546.0	19960.2	0.0072	mg/L	0.3602 ppm
2	Ca 227.547	253829.9	253546.5	978.9	mg/L	48940 ppm
2	Cd 228.802	1362.5	1272.8	0.0100	mg/L	0.5023 ppm
2	Co 228.616	14913.5	15330.2	0.1449	mg/L	7.246 ppm
2	Cr 267.716	36380.1	36539.8	0.3938	mg/L	19.69 ppm
2	Cu 324.754	124336.1	122049.1	0.4021	mg/L	20.10 ppm
2	Fe 273.955	20596218.6	20593228.8	413.6	mg/L	20680 ppm
2	Mg 279.079	3053865.4	3053269.2	96.13	mg/L	4807 ppm
2	Mn 257.610	13304002.3	13302881.5	8.381	mg/L	419.1 ppm
2	Mo 202.030	685.7	714.2	0.0218	mg/L	1.089 ppm
2	Ni 231.604	27903.5	27628.3	0.5459	mg/L	27.30 ppm
2	Pb 220.353	2790.0	2605.1	0.1829	mg/L	9.144 ppm
2	Sb 206.833	175.8	115.2	-0.0052	mg/L	-0.2593 ppm
2	Se 196.026	-177.1	-261.4	0.0191	mg/L	0.9571 ppm
2	Tl 190.800	500.4	311.9	0.0066	mg/L	0.3290 ppm
2	V 292.402	98782.8	98620.1	0.8845	mg/L	44.22 ppm
2	Zn 213.856	138234.1	138817.5	1.266	mg/L	63.28 ppm
3	Ag 328.068	-3716.9	-2642.9	-0.0131	mg/L	-0.6551 ppm
3	Al 308.215	5363991.6	5359394.0	146.9	mg/L	7345 ppm
3	As 188.979	471.5	402.0	0.1910	mg/L	9.552 ppm
3	Ba 233.527	538222.0	539087.6	1.526	mg/L	76.30 ppm
3	Be 313.107	18971.8	19386.0	0.0070	mg/L	0.3498 ppm
3	Ca 227.547	250305.5	250022.0	965.6	mg/L	48280 ppm
3	Cd 228.802	1463.3	1373.5	0.0108	mg/L	0.5420 ppm
3	Co 228.616	15477.3	15894.0	0.1502	mg/L	7.512 ppm
3	Cr 267.716	35916.2	36075.9	0.3885	mg/L	19.42 ppm
3	Cu 324.754	122914.8	120627.9	0.3980	mg/L	19.90 ppm
3	Fe 273.955	21029363.7	21026373.8	422.3	mg/L	21110 ppm
3	Mg 279.079	3000313.8	2999717.7	94.45	mg/L	4722 ppm
3	Mn 257.610	13752070.5	13750949.8	8.663	mg/L	433.2 ppm
3	Mo 202.030	753.6	782.1	0.0250	mg/L	1.252 ppm
3	Ni 231.604	28659.6	28384.4	0.5609	mg/L	28.04 ppm
3	Pb 220.353	3063.5	2878.6	0.2013	mg/L	10.07 ppm
3	Sb 206.833	194.6	134.0	-0.0010	mg/L	-0.0513 ppm
3	Se 196.026	-122.3	-206.6	0.0414	mg/L	2.068 ppm
3	Tl 190.800	463.8	275.2	-0.0060	mg/L	-0.2992 ppm
3	V 292.402	98391.7	98229.0	0.8810	mg/L	44.05 ppm
3	Zn 213.856	136178.5	136761.9	1.245	mg/L	62.26 ppm

Mean Data ----------

ID: 6141-13 F=50 Seq. No.: 36 Sample No.: 22 A/S Pos: 30
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 1:08:19 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-2775.0	-0.0138	0.00065	mg/L	-0.6878	0.03243	ppm	4.72%
Al 308.215	5264031.6	144.3	2.31	mg/L	7214	115.7	ppm	1.60%
As 188.979	379.0	0.1827	0.01176	mg/L	9.133	0.5879	ppm	6.44%
Ba 233.527	549188.0	1.555	0.0304	mg/L	77.73	1.518	ppm	1.95%
Be 313.107	19927.6	0.0072	0.00019	mg/L	0.3596	0.00949	ppm	2.64%
Ca 227.547	254759.7	983.6	20.77	mg/L	49180	1038.5	ppm	2.11%
Cd 228.802	1322.0	0.0104	0.00040	mg/L	0.5217	0.01989	ppm	3.81%
Co 228.616	15770.8	0.1491	0.00372	mg/L	7.454	0.1861	ppm	2.50%
Cr 267.716	36592.5	0.3943	0.00610	mg/L	19.71	0.305	ppm	1.55%

324.754	122717.2	0.4043	0.00770	mg/L	20.22	0.385 ppm	1.90%
273.955	20766998.6	417.0	4.60	mg/L	20850	229.9 ppm	1.10%
Mg 279.079	3058963.9	96.31	1.961	mg/L	4816	98.1 ppm	2.04%
Mn 257.610	13521879.6	8.519	0.1413	mg/L	426.0	7.06 ppm	1.66%
202.030	762.7	0.0242	0.00214	mg/L	1.211	0.1070 ppm	8.83%
231.604	28380.5	0.5608	0.01482	mg/L	28.04	0.741 ppm	2.64%
Pb 220.353	2789.3	0.1953	0.01076	mg/L	9.765	0.5379 ppm	5.51%
Sb 206.833	153.8	0.0038	0.01218	mg/L	0.1912	0.60907 ppm	318.59%
196.026	-213.5	0.0375	0.01673	mg/L	1.874	0.8364 ppm	44.64%
190.800	303.9	0.0035	0.00836	mg/L	0.1743	0.41822 ppm	239.88%
292.402	99230.8	0.8900	0.01265	mg/L	44.50	0.632 ppm	1.42%
Zn 213.856	139336.8	1.270	0.0274	mg/L	63.50	1.369 ppm	2.16%

eplicate Data ----------

D: 6141-14 F=50 Date: 11/21/02 1:11:07 PM

Spl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-3320.4	-2246.4	-0.0111	mg/L	-0.5568	ppm
1	Al 308.215	5119186.3	5114588.7	140.2	mg/L	7009	ppm
1	As 188.979	297.0	227.6	0.1056	mg/L	5.280	ppm
1	Ba 233.527	213282.2	214147.8	0.6062	mg/L	30.31	ppm
1	Be 313.107	10438.2	10852.4	0.0039	mg/L	0.1958	ppm
1	Ca 227.547	126138.5	125855.1	487.8	mg/L	24390	ppm
1	Cd 228.802	193.6	103.9	0.0008	mg/L	0.0410	ppm
1	Co 228.616	11791.0	12207.7	0.1154	mg/L	5.770	ppm
1	Cr 267.716	21818.1	21977.9	0.2358	mg/L	11.79	ppm
1	Cu 324.754	52602.6	50315.6	0.1713	mg/L	8.563	ppm
1	Fe 273.955	14486481.2	14483491.3	290.9	mg/L	14540	ppm
1	Mg 279.079	2312393.3	2311797.2	72.79	mg/L	3639	ppm
1	Mn 257.610	5275030.1	5273909.4	3.323	mg/L	166.1	ppm
1	Mo 202.030	140.6	169.2	-0.0023	mg/L	-0.1165	ppm
1	Ni 231.604	12386.0	12110.8	0.2393	mg/L	11.97	ppm
1	Pb 220.353	1975.4	1790.5	0.1273	mg/L	6.366	ppm
1	Sb 206.833	83.8	23.1	-0.0176	mg/L	-0.8784	ppm
1	Se 196.026	-139.1	-223.4	-0.0038	mg/L	-0.1891	ppm
1	Tl 190.800	359.7	171.2	-0.0164	mg/L	-0.8181	ppm
1	V 292.402	54776.3	54613.5	0.4898	mg/L	24.49	ppm
1	Zn 213.856	74893.6	75477.0	0.6811	mg/L	34.06	ppm
2	Ag 328.068	-3288.0	-2214.0	-0.0110	mg/L	-0.5488	ppm
2	Al 308.215	5035783.9	5031186.3	137.9	mg/L	6895	ppm
2	As 188.979	336.7	267.3	0.1211	mg/L	6.057	ppm
2	Ba 233.527	216701.5	217567.1	0.6159	mg/L	30.79	ppm
2	Be 313.107	10232.3	10646.5	0.0038	mg/L	0.1921	ppm
2	Ca 227.547	129050.0	128766.5	498.8	mg/L	24940	ppm
2	Cd 228.802	185.3	95.6	0.0008	mg/L	0.0377	ppm
2	Co 228.616	12205.4	12622.1	0.1193	mg/L	5.966	ppm
2	Cr 267.716	22694.0	22853.8	0.2456	mg/L	12.28	ppm
2	Cu 324.754	53100.0	50813.1	0.1726	mg/L	8.631	ppm
2	Fe 273.955	14253857.4	14250867.5	286.2	mg/L	14310	ppm
2	Mg 279.079	2349587.9	2348991.8	73.96	mg/L	3698	ppm
2	Mn 257.610	5203621.8	5202501.1	3.278	mg/L	163.9	ppm
2	Mo 202.030	136.0	164.5	-0.0024	mg/L	-0.1198	ppm
2	Ni 231.604	12840.7	12565.5	0.2483	mg/L	12.41	ppm
2	Pb 220.353	2154.8	1969.9	0.1393	mg/L	6.963	ppm
2	Sb 206.833	116.4	55.7	-0.0098	mg/L	-0.4899	ppm
2	Se 196.026	-57.2	-141.5	0.0247	mg/L	1.236	ppm
2	Tl 190.800	351.5	163.0	-0.0177	mg/L	-0.8875	ppm
2	V 292.402	56357.4	56194.7	0.5040	mg/L	25.20	ppm
2	Zn 213.856	75656.3	76239.7	0.6888	mg/L	34.44	ppm
3	Ag 328.068	-3215.0	-2141.1	-0.0106	mg/L	-0.5307	ppm
3	Al 308.215	5080379.4	5075781.8	139.1	mg/L	6956	ppm
3	As 188.979	316.9	247.5	0.1136	mg/L	5.681	ppm
3	Ba 233.527	216421.0	217286.6	0.6151	mg/L	30.75	ppm
3	Be 313.107	10525.3	10939.5	0.0039	mg/L	0.1974	ppm
3	Ca 227.547	129655.6	129372.1	501.2	mg/L	25060	ppm
3	Cd 228.802	172.0	82.3	0.0006	mg/L	0.0325	ppm
3	Co 228.616	12480.9	12897.6	0.1219	mg/L	6.096	ppm
3	Cr 267.716	23041.6	23201.4	0.2494	mg/L	12.47	ppm

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3	Cu 324.754	53742.4	51455.5	0.1747	mg/L	8.735 ppm
3	Fe 273.955	14323595.6	14320605.8	287.6	mg/L	14380 ppm
3	Mg 279.079	2354042.7	2353446.5	74.10	mg/L	3705 ppm
3	Mn 257.610	5276216.1	5275095.4	3.323	mg/L	166.2 ppm
3	Mo 202.030	195.6	224.1	0.0007	mg/L	0.0354 ppm
3	Ni 231.604	13135.8	12860.6	0.2541	mg/L	12.71 ppm
3	Pb 220.353	2149.8	1964.9	0.1390	mg/L	6.949 ppm
3	Sb 206.833	111.5	50.9	-0.0112	mg/L	-0.5585 ppm
3	Se 196.026	-81.1	-165.4	0.0164	mg/L	0.8193 ppm
3	Tl 190.800	332.8	144.3	-0.0236	mg/L	-1.179 ppm
3	V 292.402	56093.9	55931.2	0.5016	mg/L	25.08 ppm
3	Zn 213.856	76704.7	77288.1	0.6985	mg/L	34.93 ppm

Mean Data ----------

ID: 6141-14 F=50 Seq. No.: 37 Sample No.: 23 A/S Pos: 31
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 1:11:07 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-2200.5	-0.0109	0.00027	mg/L	-0.5454	0.01338	ppm	2.45%
Al 308.215	5073852.3	139.1	1.14	mg/L	6953	57.2	ppm	0.82%
As 188.979	247.5	0.1134	0.00777	mg/L	5.672	0.3885	ppm	6.85%
Ba 233.527	216333.8	0.6124	0.00537	mg/L	30.62	0.269	ppm	0.88%
Be 313.107	10812.8	0.0039	0.00005	mg/L	0.1951	0.00272	ppm	1.39%
Ca 227.547	127997.9	495.9	7.14	mg/L	24800	357.2	ppm	1.44%
Cd 228.802	93.9	0.0007	0.00009	mg/L	0.0371	0.00430	ppm	11.60%
Co 228.616	12575.8	0.1189	0.00328	mg/L	5.944	0.1641	ppm	2.76%
Cr 267.716	22677.7	0.2436	0.00702	mg/L	12.18	0.351	ppm	2.88%
Cu 324.754	50861.4	0.1729	0.00173	mg/L	8.643	0.0864	ppm	1.00%
Fe 273.955	14351654.9	288.2	2.40	mg/L	14410	119.9	ppm	0.83%
Mg 279.079	2338078.5	73.62	0.720	mg/L	3681	36.0	ppm	0.98%
Mn 257.610	5250502.0	3.308	0.0262	mg/L	165.4	1.31	ppm	0.79%
Mo 202.030	185.9	-0.0013	0.00177	mg/L	-0.0670	0.08866	ppm	132.40%
Ni 231.604	12512.3	0.2472	0.00746	mg/L	12.36	0.373	ppm	3.02%
Pb 220.353	1908.4	0.1352	0.00682	mg/L	6.759	0.3411	ppm	5.05%
Sb 206.833	43.2	-0.0128	0.00415	mg/L	-0.6423	0.20737	ppm	32.29%
Se 196.026	-176.8	0.0124	0.01466	mg/L	0.6222	0.73283	ppm	117.79%
Tl 190.800	159.5	-0.0192	0.00383	mg/L	-0.9615	0.19153	ppm	19.92%
V 292.402	55579.8	0.4985	0.00760	mg/L	24.92	0.380	ppm	1.52%
Zn 213.856	76334.9	0.6895	0.00873	mg/L	34.47	0.437	ppm	1.27%

Replicate Data ----------

ID: 6141-15 F=50 Date: 11/21/02 1:13:51 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-3092.9	-2018.9	-0.0100	mg/L	-0.5004	ppm
1	Al 308.215	5162174.1	5157576.5	141.4	mg/L	7068	ppm
1	As 188.979	282.6	213.2	0.0920	mg/L	4.601	ppm
1	Ba 233.527	291767.7	292633.3	0.8284	mg/L	41.42	ppm
1	Be 313.107	6595.7	7009.9	0.0025	mg/L	0.1265	ppm
1	Ca 227.547	48693.5	48410.1	191.4	mg/L	9568	ppm
1	Cd 228.802	314.8	225.1	0.0018	mg/L	0.0888	ppm
1	Co 228.616	14359.6	14776.3	0.1397	mg/L	6.984	ppm
1	Cr 267.716	23145.9	23305.7	0.2507	mg/L	12.54	ppm
1	Cu 324.754	56279.5	53992.6	0.1824	mg/L	9.118	ppm
1	Fe 273.955	13997072.9	13994083.0	281.0	mg/L	14050	ppm
1	Mg 279.079	2687690.3	2687094.1	84.60	mg/L	4230	ppm
1	Mn 257.610	6351451.0	6350330.2	4.001	mg/L	200.0	ppm
1	Mo 202.030	65.9	94.4	-0.0059	mg/L	-0.2953	ppm
1	Ni 231.604	11929.6	11654.4	0.2303	mg/L	11.51	ppm
1	Pb 220.353	1845.4	1660.5	0.1170	mg/L	5.851	ppm
1	Sb 206.833	165.6	105.0	0.0019	mg/L	0.0963	ppm
1	Se 196.026	-179.4	-263.7	-0.0214	mg/L	-1.072	ppm
1	Tl 190.800	275.1	86.6	-0.0400	mg/L	-1.999	ppm
1	V 292.402	61295.7	61133.0	0.5483	mg/L	27.41	ppm
1	Zn 213.856	96437.5	97020.9	0.8853	mg/L	44.27	ppm
2	Ag 328.068	-3020.1	-1946.2	-0.0096	mg/L	-0.4824	ppm
2	Al 308.215	4955330.4	4950732.8	135.7	mg/L	6785	ppm

2	As 188.979	276.0	206.5	0.0897	mg/L	4.483 ppm
2	Ba 233.527	281843.2	282708.8	0.8003	mg/L	40.01 ppm
2	Be 313.107	6361.7	6775.9	0.0024	mg/L	0.1223 ppm
2	Ca 227.547	47093.0	46809.6	185.2	mg/L	9261 ppm
2	Cd 228.802	288.5	198.7	0.0016	mg/L	0.0784 ppm
2	Co 228.616	14920.0	15336.7	0.1450	mg/L	7.249 ppm
2	Cr 267.716	24238.5	24398.3	0.2629	mg/L	13.14 ppm
2	Cu 324.754	54406.8	52119.8	0.1764	mg/L	8.821 ppm
2	Fe 273.955	13936486.7	13933496.8	279.8	mg/L	13990 ppm
2	Mg 279.079	2599625.9	2599029.7	81.83	mg/L	4092 ppm
2	Mn 257.610	6365149.2	6364028.4	4.009	mg/L	200.5 ppm
2	Mo 202.030	139.0	167.5	-0.0020	mg/L	-0.0994 ppm
2	Ni 231.604	12345.6	12070.3	0.2385	mg/L	11.93 ppm
2	Pb 220.353	1928.6	1743.7	0.1223	mg/L	6.114 ppm
2	Sb 206.833	126.8	66.2	-0.0075	mg/L	-0.3736 ppm
2	Se 196.026	-125.8	-210.1	-0.0019	mg/L	-0.0966 ppm
2	Tl 190.800	322.1	133.5	-0.0253	mg/L	-1.264 ppm
2	V 292.402	59833.8	59671.1	0.5352	mg/L	26.76 ppm
2	Zn 213.856	93725.4	94308.8	0.8599	mg/L	42.99 ppm
3	Ag 328.068	-3100.3	-2026.3	-0.0100	mg/L	-0.5022 ppm
3	Al 308.215	4999426.6	4994829.0	136.9	mg/L	6845 ppm
3	As 188.979	260.6	191.2	0.0834	mg/L	4.169 ppm
3	Ba 233.527	283930.4	284796.0	0.8062	mg/L	40.31 ppm
3	Be 313.107	6459.8	6874.0	0.0025	mg/L	0.1240 ppm
3	Ca 227.547	47691.4	47408.0	187.4	mg/L	9368 ppm
3	Cd 228.802	367.5	277.7	0.0022	mg/L	0.1096 ppm
3	Co 228.616	14222.0	14638.7	0.1384	mg/L	6.919 ppm
3	Cr 267.716	22620.3	22780.1	0.2451	mg/L	12.26 ppm
3	Cu 324.754	55030.4	52743.4	0.1781	mg/L	8.905 ppm
3	Fe 273.955	13635162.2	13632172.3	273.8	mg/L	13690 ppm
3	Mg 279.079	2628238.5	2627642.4	82.73	mg/L	4137 ppm
3	Mn 257.610	6272596.3	6271475.6	3.951	mg/L	197.6 ppm
3	Mo 202.030	124.8	153.3	-0.0025	mg/L	-0.1253 ppm
3	Ni 231.604	11827.2	11552.0	0.2283	mg/L	11.41 ppm
3	Pb 220.353	1872.7	1687.8	0.1186	mg/L	5.932 ppm
3	Sb 206.833	184.6	124.0	0.0071	mg/L	0.3535 ppm
3	Se 196.026	-99.2	-183.5	0.0058	mg/L	0.2908 ppm
3	Tl 190.800	246.3	57.8	-0.0466	mg/L	-2.329 ppm
3	V 292.402	59875.7	59713.0	0.5355	mg/L	26.78 ppm
3	Zn 213.856	95134.3	95717.7	0.8738	mg/L	43.69 ppm

an Data ----------

): 6141-15 F=50 Seq. No.: 38 Sample No.: 24 A/S Pos: 32
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 1:13:51 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	-1997.1	-0.0099	0.00022	mg/L	-0.4950	0.01098	ppm	2.22%
308.215	5034379.5	138.0	2.99	mg/L	6899	149.3	ppm	2.16%
188.979	203.6	0.0884	0.00446	mg/L	4.418	0.2230	ppm	5.05%
233.527	286712.7	0.8116	0.01481	mg/L	40.58	0.741	ppm	1.82%
e 313.107	6886.6	0.0025	0.00004	mg/L	0.1243	0.00212	ppm	1.71%
a 227.547	47542.5	188.0	3.12	mg/L	9399	156.0	ppm	1.66%
228.802	233.8	0.0018	0.00032	mg/L	0.0923	0.01587	ppm	17.20%
228.616	14917.2	0.1410	0.00350	mg/L	7.051	0.1748	ppm	2.48%
r 267.716	23494.7	0.2529	0.00907	mg/L	12.65	0.453	ppm	3.59%
u 324.754	52952.0	0.1790	0.00306	mg/L	8.948	0.1529	ppm	1.71%
273.955	13853250.7	278.2	3.89	mg/L	13910	194.6	ppm	1.40%
279.079	2637922.1	83.06	1.414	mg/L	4153	70.7	ppm	1.70%
n 257.610	6328611.4	3.987	0.0315	mg/L	199.4	1.57	ppm	0.79%
o 202.030	138.4	-0.0035	0.00213	mg/L	-0.1733	0.10642	ppm	61.40%
231.604	11758.9	0.2324	0.00542	mg/L	11.62	0.271	ppm	2.33%
220.353	1697.3	0.1193	0.00270	mg/L	5.966	0.1349	ppm	2.26%
b 206.833	98.4	0.0005	0.00737	mg/L	0.0254	0.36869	ppm	>999.9%
e 196.026	-219.1	-0.0059	0.01405	mg/L	-0.2927	0.70242	ppm	240.00%
190.800	92.6	-0.0373	0.01091	mg/L	-1.864	0.5453	ppm	29.26%
292.402	60172.3	0.5397	0.00746	mg/L	26.98	0.373	ppm	1.38%
n 213.856	95682.5	0.8730	0.01274	mg/L	43.65	0.637	ppm	1.46%

plicate Data ----------

012713

2	Sb 206.833	58.2	-2.4	-0.0006 mg/L
2	Se 196.026	76.5	-7.8	-0.0028 mg/L
2	Tl 190.800	191.5	3.0	0.0009 mg/L
2	V 292.402	297.0	134.2	0.0012 mg/L
2	Zn 213.856	-446.6	136.8	0.0013 mg/L
3	Ag 328.068	-932.1	141.8	0.0007 mg/L
3	Al 308.215	4994.9	397.3	0.0109 mg/L
3	As 188.979	77.1	7.7	0.0029 mg/L
3	Ba 233.527	-827.5	38.1	0.0001 mg/L
3	Be 313.107	61.3	475.5	0.0002 mg/L
3	Ca 227.547	285.5	2.0	0.0078 mg/L
3	Cd 228.802	94.6	4.9	0.0000 mg/L
3	Co 228.616	-298.0	118.7	0.0011 mg/L
3	Cr 267.716	-121.8	37.9	0.0004 mg/L
3	Cu 324.754	2322.4	35.5	0.0001 mg/L
3	Fe 273.955	3956.3	966.4	0.0194 mg/L
3	Mg 279.079	356.3	-239.8	-0.0076 mg/L
3	Mn 257.610	2447.0	1326.3	0.0008 mg/L
3	Mo 202.030	-26.6	1.9	0.0001 mg/L
3	Ni 231.604	481.2	206.0	0.0041 mg/L
3	Pb 220.353	166.2	-18.7	-0.0013 mg/L
3	Sb 206.833	63.3	2.7	0.0006 mg/L
3	Se 196.026	76.3	-8.0	-0.0029 mg/L
3	Tl 190.800	186.3	-2.2	-0.0007 mg/L
3	V 292.402	268.3	105.6	0.0009 mg/L
3	Zn 213.856	-477.4	106.0	0.0010 mg/L

lean Data

D: CCB
ample Qty: 1.0000 g

Seq. No.: 40 Sample No.: 6
Prep. Vol.: 1.0 L
Data: Original

A/S Pos: 1
Dilution: 1.0: 1.0
Date: 11/21/02 1:22:04 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	80.9	0.0004	0.00046	mg/L				113.95%
l 308.215	296.2	0.0081	0.00274	mg/L				33.77%
s 188.979	2.4	0.0009	0.00205	mg/L				225.16%
a 233.527	75.4	0.0002	0.00027	mg/L				126.78%
e 313.107	369.4	0.0001	0.00005	mg/L				37.40%
a 227.547	67.6	0.2587	0.29159	mg/L				112.72%
d 228.802	-4.7	0.0000	0.00007	mg/L				177.11%
o 228.616	81.5	0.0008	0.00036	mg/L				46.95%
r 267.716	6.1	0.0001	0.00033	mg/L				484.55%
u 324.754	-64.1	-0.0002	0.00031	mg/L				152.38%
e 273.955	1439.6	0.0289	0.00896	mg/L				30.99%
g 279.079	-265.1	-0.0083	0.00259	mg/L				30.99%
n 257.610	1205.6	0.0008	0.00007	mg/L				8.81%
o 202.030	2.6	0.0001	0.00015	mg/L				107.52%
i 231.604	127.5	0.0025	0.00141	mg/L				55.83%
b 220.353	-13.3	-0.0009	0.00046	mg/L				52.28%
b 206.833	0.7	0.0002	0.00066	mg/L				380.24%
e 196.026	-7.8	-0.0029	0.00004	mg/L				1.25%
l 190.800	1.0	0.0003	0.00082	mg/L				291.06%
292.402	140.4	0.0013	0.00034	mg/L				27.26%
n 213.856	141.8	0.0013	0.00036	mg/L				27.16%

eplicate Data

D: M-BL 02M2369S

Date: 11/21/02 1:25:23 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1206.1	-132.2	-0.0007	mg/L	-0.0328	ppm
1	Al 308.215	4921.5	324.0	0.0089	mg/L	0.4440	ppm
1	As 188.979	65.7	-3.7	-0.0014	mg/L	-0.0709	ppm
1	Ba 233.527	-854.7	10.9	0.0000	mg/L	0.0015	ppm
1	Be 313.107	-203.8	210.4	0.0001	mg/L	0.0038	ppm
1	Ca 227.547	235.3	-48.1	-0.1841	mg/L	-9.207	ppm
1	Cd 228.802	70.5	-19.2	-0.0002	mg/L	-0.0076	ppm
1	Co 228.616	-367.6	49.1	0.0005	mg/L	0.0232	ppm
1	Cr 267.716	-89.0	70.8	0.0008	mg/L	0.0391	ppm

1	Cu 324.754	2132.5	-154.4	-0.0005 mg/L	-0.0242 ppm
1	Fe 273.955	4151.2	1161.3	0.0233 mg/L	1.166 ppm
1	Mg 279.079	501.3	-94.9	-0.0030 mg/L	-0.1493 ppm
1	Mn 257.610	2024.8	904.1	0.0006 mg/L	0.0285 ppm
1	Mo 202.030	-33.0	-4.5	-0.0002 mg/L	-0.0119 ppm
1	Ni 231.604	406.5	131.3	0.0026 mg/L	0.1297 ppm
1	Pb 220.353	183.8	-1.1	-0.0001 mg/L	-0.0035 ppm
1	Sb 206.833	66.1	5.5	0.0013 mg/L	0.0657 ppm
1	Se 196.026	76.6	-7.7	-0.0028 mg/L	-0.1400 ppm
1	Tl 190.800	186.8	-1.7	-0.0005 mg/L	-0.0246 ppm
1	V 292.402	160.3	-2.5	0.0000 mg/L	-0.0011 ppm
1	Zn 213.856	-385.9	197.5	0.0019 mg/L	0.0931 ppm
2	Ag 328.068	-1100.9	-26.9	-0.0001 mg/L	-0.0067 ppm
2	Al 308.215	4843.4	245.8	0.0067 mg/L	0.3368 ppm
2	As 188.979	65.6	-3.8	-0.0015 mg/L	-0.0731 ppm
2	Ba 233.527	-803.4	62.2	0.0002 mg/L	0.0088 ppm
2	Be 313.107	-231.1	183.1	0.0001 mg/L	0.0033 ppm
2	Ca 227.547	366.2	82.8	0.3165 mg/L	15.82 ppm
2	Cd 228.802	86.4	-3.4	0.0000 mg/L	-0.0013 ppm
2	Co 228.616	-305.6	111.1	0.0011 mg/L	0.0525 ppm
2	Cr 267.716	-113.8	46.0	0.0005 mg/L	0.0254 ppm
2	Cu 324.754	2039.5	-247.4	-0.0008 mg/L	-0.0388 ppm
2	Fe 273.955	3982.3	992.5	0.0199 mg/L	0.9965 ppm
2	Mg 279.079	404.7	-191.5	-0.0060 mg/L	-0.3014 ppm
2	Mn 257.610	1940.2	819.5	0.0005 mg/L	0.0258 ppm
2	Mo 202.030	-37.4	-8.9	-0.0005 mg/L	-0.0236 ppm
2	Ni 231.604	395.1	119.9	0.0024 mg/L	0.1184 ppm
2	Pb 220.353	179.8	-5.1	-0.0003 mg/L	-0.0169 ppm
2	Sb 206.833	56.9	-3.8	-0.0009 mg/L	-0.0449 ppm
2	Se 196.026	78.8	-5.4	-0.0020 mg/L	-0.0989 ppm
2	Tl 190.800	195.9	7.4	0.0021 mg/L	0.1070 ppm
2	V 292.402	291.8	129.0	0.0012 mg/L	0.0579 ppm
2	Zn 213.856	-419.2	164.2	0.0015 mg/L	0.0774 ppm
3	Ag 328.068	-939.1	134.8	0.0007 mg/L	0.0334 ppm
3	Al 308.215	4940.9	343.3	0.0094 mg/L	0.4704 ppm
3	As 188.979	73.6	4.1	0.0016 mg/L	0.0796 ppm
3	Ba 233.527	-874.9	-9.3	0.0000 mg/L	-0.0013 ppm
3	Be 313.107	-227.6	186.6	0.0001 mg/L	0.0034 ppm
3	Ca 227.547	275.9	-7.6	-0.0290 mg/L	-1.449 ppm
3	Cd 228.802	98.7	9.0	0.0001 mg/L	0.0035 ppm
3	Co 228.616	-355.7	61.0	0.0006 mg/L	0.0289 ppm
3	Cr 267.716	-25.4	134.4	0.0015 mg/L	0.0743 ppm
3	Cu 324.754	2099.9	-187.0	-0.0006 mg/L	-0.0294 ppm
3	Fe 273.955	3457.0	467.2	0.0094 mg/L	0.4691 ppm
3	Mg 279.079	276.2	-319.9	-0.0101 mg/L	-0.5036 ppm
3	Mn 257.610	1973.4	852.7	0.0005 mg/L	0.0269 ppm
3	Mo 202.030	-29.0	-0.5	0.0000 mg/L	-0.0012 ppm
3	Ni 231.604	351.6	76.4	0.0015 mg/L	0.0755 ppm
3	Pb 220.353	182.6	-2.3	-0.0002 mg/L	-0.0077 ppm
3	Sb 206.833	66.6	6.0	0.0014 mg/L	0.0718 ppm
3	Se 196.026	83.3	-0.9	-0.0003 mg/L	-0.0171 ppm
3	Tl 190.800	188.1	-0.5	-0.0001 mg/L	-0.0067 ppm
3	V 292.402	246.7	83.9	0.0008 mg/L	0.0376 ppm
3	Zn 213.856	-457.5	125.9	0.0012 mg/L	0.0594 ppm

ean Data ----------

D: M-BL 02M2369S Seq. No.: 41 Sample No.: 25 A/S Pos: 33
mple Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 1:25:23 PM

ement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
328.068	-8.1	0.0000	0.00067	mg/L	-0.0020	0.03333	ppm	>999.9%
308.215	304.3	0.0083	0.00141	mg/L	0.4171	0.07075	ppm	16.96%
s 188.979	-1.1	-0.0004	0.00175	mg/L	-0.0215	0.08755	ppm	407.86%
233.527	21.3	0.0001	0.00010	mg/L	0.0030	0.00522	ppm	173.15%
313.107	193.4	0.0001	0.00001	mg/L	0.0035	0.00027	ppm	7.70%
227.547	9.0	0.0345	0.25628	mg/L	1.723	12.8139	ppm	743.71%
d 228.802	-4.5	0.0000	0.00011	mg/L	-0.0018	0.00557	ppm	310.41%
228.616	73.8	0.0007	0.00031	mg/L	0.0349	0.01555	ppm	44.60%

012722

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	199038.4	200112.3	0.9920	mg/L	49.60	ppm
1	Al 308.215	78791.9	74194.3	2.034	mg/L	101.7	ppm
1	As 188.979	1372.1	1302.6	0.5080	mg/L	25.40	ppm
1	Ba 233.527	1477268.4	1478134.0	4.184	mg/L	209.2	ppm
1	Be 313.107	546865.2	547279.4	0.1975	mg/L	9.876	ppm
1	Ca 227.547	5680.6	5397.1	20.64	mg/L	1032	ppm
1	Cd 228.802	33402.6	33312.8	0.2629	mg/L	13.15	ppm
1	Co 228.616	112744.7	113161.4	1.070	mg/L	53.49	ppm
1	Cr 267.716	92054.3	92214.1	1.020	mg/L	50.98	ppm
1	Cu 324.754	321288.9	319002.0	1.001	mg/L	50.07	ppm
1	Fe 273.955	52114.7	49124.8	0.9865	mg/L	49.33	ppm
1	Mg 279.079	318761.4	318165.2	10.02	mg/L	500.9	ppm
1	Mn 257.610	1610032.0	1608911.3	1.014	mg/L	50.68	ppm
1	Mo 202.030	38941.7	38970.2	2.064	mg/L	103.2	ppm
1	Ni 231.604	53837.5	53562.3	1.058	mg/L	52.92	ppm
1	Pb 220.353	46812.5	46627.6	3.120	mg/L	156.0	ppm
1	Sb 206.833	2207.5	2146.8	0.4838	mg/L	24.19	ppm
1	Se 196.026	1463.4	1379.1	0.5009	mg/L	25.05	ppm
1	Tl 190.800	2008.5	1820.0	0.5291	mg/L	26.46	ppm
1	V 292.402	224034.9	223872.1	2.008	mg/L	100.4	ppm
1	Zn 213.856	55961.5	56544.9	0.5333	mg/L	26.66	ppm
2	Ag 328.068	201396.3	202470.3	1.004	mg/L	50.18	ppm
2	Al 308.215	79718.5	75120.9	2.059	mg/L	102.9	ppm
2	As 188.979	1377.3	1307.9	0.5102	mg/L	25.51	ppm
2	Ba 233.527	1489375.0	1490240.6	4.218	mg/L	210.9	ppm
2	Be 313.107	546635.7	547050.0	0.1974	mg/L	9.872	ppm
2	Ca 227.547	5654.7	5371.3	20.54	mg/L	1027	ppm
2	Cd 228.802	33262.5	33172.7	0.2618	mg/L	13.09	ppm
2	Co 228.616	113388.2	113804.9	1.076	mg/L	53.79	ppm
2	Cr 267.716	93631.6	93791.3	1.037	mg/L	51.86	ppm
2	Cu 324.754	324410.2	322123.3	1.011	mg/L	50.56	ppm
2	Fe 273.955	51991.6	49001.7	0.9841	mg/L	49.20	ppm
2	Mg 279.079	319967.7	319371.5	10.06	mg/L	502.8	ppm
2	Mn 257.610	1615164.5	1614043.8	1.017	mg/L	50.84	ppm
2	Mo 202.030	39236.0	39264.5	2.080	mg/L	104.0	ppm
2	Ni 231.604	53790.5	53515.3	1.057	mg/L	52.87	ppm
2	Pb 220.353	46995.4	46810.5	3.132	mg/L	156.6	ppm
2	Sb 206.833	2215.6	2154.9	0.4852	mg/L	24.26	ppm
2	Se 196.026	1456.2	1371.9	0.4983	mg/L	24.91	ppm
2	Tl 190.800	1997.5	1809.0	0.5259	mg/L	26.30	ppm
2	V 292.402	227513.9	227351.1	2.039	mg/L	102.0	ppm
2	Zn 213.856	55918.2	56501.6	0.5329	mg/L	26.64	ppm
3	Ag 328.068	196052.1	197126.1	0.9772	mg/L	48.86	ppm
3	Al 308.215	77791.8	73194.2	2.006	mg/L	100.3	ppm
3	As 188.979	1376.9	1307.5	0.5098	mg/L	25.49	ppm
3	Ba 233.527	1458683.7	1459549.3	4.132	mg/L	206.6	ppm
3	Be 313.107	540163.3	540577.5	0.1951	mg/L	9.755	ppm
3	Ca 227.547	5675.8	5392.4	20.62	mg/L	1031	ppm
3	Cd 228.802	32486.2	32396.5	0.2557	mg/L	12.78	ppm
3	Co 228.616	110933.4	111350.1	1.053	mg/L	52.63	ppm
3	Cr 267.716	90779.0	90938.8	1.006	mg/L	50.28	ppm
3	Cu 324.754	318213.8	315926.9	0.9917	mg/L	49.59	ppm
3	Fe 273.955	51021.1	48031.3	0.9646	mg/L	48.23	ppm
3	Mg 279.079	314429.0	313832.9	9.881	mg/L	494.1	ppm
3	Mn 257.610	1582448.5	1581327.7	0.9963	mg/L	49.81	ppm
3	Mo 202.030	38483.2	38511.7	2.040	mg/L	102.0	ppm
3	Ni 231.604	52905.1	52629.9	1.040	mg/L	52.00	ppm
3	Pb 220.353	46285.2	46100.3	3.085	mg/L	154.2	ppm
3	Sb 206.833	2197.4	2136.8	0.4818	mg/L	24.09	ppm
3	Se 196.026	1466.2	1381.9	0.5019	mg/L	25.10	ppm
3	Tl 190.800	2009.9	1821.3	0.5295	mg/L	26.48	ppm
3	V 292.402	220764.0	220601.2	1.978	mg/L	98.92	ppm
3	Zn 213.856	55188.3	55771.7	0.5260	mg/L	26.30	ppm

ean Data

Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 1:32:16 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	199902.9	0.9910	0.01328	mg/L	49.55	0.664	ppm	1.34%
l 308.215	74169.8	2.033	0.0264	mg/L	101.6	1.32	ppm	1.30%
s 188.979	1306.0	0.5093	0.00114	mg/L	25.47	0.057	ppm	0.22%
a 233.527	1475974.6	4.178	0.0438	mg/L	208.9	2.19	ppm	1.05%
e 313.107	544968.9	0.1967	0.00137	mg/L	9.834	0.0687	ppm	0.70%
a 227.547	5386.9	20.60	0.053	mg/L	1030	2.6	ppm	0.26%
d 228.802	32960.7	0.2601	0.00390	mg/L	13.01	0.195	ppm	1.50%
o 228.616	112772.1	1.066	0.0120	mg/L	53.30	0.602	ppm	1.13%
r 267.716	92314.8	1.021	0.0158	mg/L	51.04	0.790	ppm	1.55%
u 324.754	319017.4	1.001	0.0097	mg/L	50.07	0.486	ppm	0.97%
e 273.955	48719.3	0.9784	0.01203	mg/L	48.92	0.601	ppm	1.23%
g 279.079	317123.2	9.985	0.0917	mg/L	499.2	4.59	ppm	0.92%
n 257.610	1601427.6	1.009	0.0111	mg/L	50.45	0.554	ppm	1.10%
o 202.030	38915.5	2.061	0.0201	mg/L	103.1	1.00	ppm	0.97%
li 231.604	53235.8	1.052	0.0104	mg/L	52.60	0.519	ppm	0.99%
b 220.353	46512.8	3.112	0.0247	mg/L	155.6	1.23	ppm	0.79%
b 206.833	2146.2	0.4836	0.00172	mg/L	24.18	0.086	ppm	0.36%
e 196.026	1377.6	0.5004	0.00188	mg/L	25.02	0.094	ppm	0.38%
l 190.800	1816.8	0.5282	0.00197	mg/L	26.41	0.099	ppm	0.37%
292.402	223941.5	2.008	0.0303	mg/L	100.4	1.51	ppm	1.51%
n 213.856	56272.7	0.5307	0.00410	mg/L	26.54	0.205	ppm	0.77%

Matrix Check Sample: LCSD-02M2369

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
g 328.068	1.0000	0.9910	0.013	mg/L	99.099
l 308.215	2.008	2.033	0.026	mg/L	101.227
s 188.979	0.4996	0.5093	0.001	mg/L	101.949
a 233.527	4.000	4.178	0.044	mg/L	104.449
e 313.107	0.2001	0.1967	0.001	mg/L	98.305
a 227.547	20.03	20.60	0.053	mg/L	102.844
d 228.802	0.2500	0.2601	0.004	mg/L	104.071
o 228.616	1.001	1.066	0.012	mg/L	106.532
r 267.716	1.001	1.021	0.016	mg/L	101.985
u 324.754	0.9994	1.001	0.010	mg/L	100.205
e 273.955	1.018	0.9784	0.012	mg/L	96.084
g 279.079	9.994	9.985	0.092	mg/L	99.911
n 257.610	1.001	1.009	0.011	mg/L	100.839
o 202.030	2.000	2.061	0.020	mg/L	103.084
i 231.604	1.002	1.052	0.010	mg/L	104.979
b 220.353	3.000	3.112	0.025	mg/L	103.747
b 206.833	0.5006	0.4836	0.002	mg/L	96.598
e 196.026	0.4983	0.5004	0.002	mg/L	100.416
l 190.800	0.5005	0.5282	0.002	mg/L	105.541
292.402	2.001	2.008	0.030	mg/L	100.391
n 213.856	0.5015	0.5307	0.004	mg/L	105.837

Replicate Data
ID: 6148-1 S F=50 Date: 11/21/02 1:35:27 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-1991.1	-917.1	-0.0045	mg/L	-0.2273	ppm
1	Al 308.215	4943640.2	4939042.6	135.4	mg/L	6769	ppm
1	As 188.979	99.7	30.3	0.0559	mg/L	2.796	ppm
1	Ba 233.527	241431.5	242297.2	0.6859	mg/L	34.29	ppm
1	Be 313.107	8612.2	9026.4	0.0033	mg/L	0.1629	ppm
1	Ca 227.547	427912.2	427628.8	1640	mg/L	81980	ppm
1	Cd 228.802	434.3	344.6	0.0027	mg/L	0.1360	ppm
1	Co 228.616	7557.4	7974.1	0.0754	mg/L	3.769	ppm
1	Cr 267.716	22333.6	22493.4	0.2441	mg/L	12.21	ppm
1	Cu 324.754	31191.4	28904.5	0.0992	mg/L	4.961	ppm
1	Fe 273.955	9221990.5	9219000.6	185.1	mg/L	9257	ppm
1	Mg 279.079	2887613.5	2887017.3	90.90	mg/L	4545	ppm

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1	Mn 257.610	4185940.1	4184819.4	2.637	mg/L	131.8	ppm
1	Mo 202.030	57.4	85.9	-0.0026	mg/L	-0.1319	ppm
1	Ni 231.604	8209.3	7934.1	0.1568	mg/L	7.839	ppm
1	Pb 220.353	978.1	793.2	0.0651	mg/L	3.257	ppm
1	Sb 206.833	174.2	113.6	0.0083	mg/L	0.4125	ppm
1	Se 196.026	-11.9	-96.1	0.0110	mg/L	0.5495	ppm
1	Tl 190.800	365.9	177.4	0.0048	mg/L	0.2389	ppm
1	V 292.402	39913.8	39751.1	0.3565	mg/L	17.83	ppm
1	Zn 213.856	213562.4	214145.8	2.000	mg/L	100.0	ppm
2	Ag 328.068	-1730.2	-656.3	-0.0033	mg/L	-0.1627	ppm
2	Al 308.215	4937298.6	4932701.0	135.2	mg/L	6760	ppm
2	As 188.979	133.1	63.6	0.0688	mg/L	3.441	ppm
2	Ba 233.527	240882.9	241748.5	0.6843	mg/L	34.22	ppm
2	Be 313.107	8510.1	8924.3	0.0032	mg/L	0.1610	ppm
2	Ca 227.547	428751.7	428468.2	1643	mg/L	82140	ppm
2	Cd 228.802	496.5	406.8	0.0032	mg/L	0.1605	ppm
2	Co 228.616	7735.6	8152.3	0.0771	mg/L	3.853	ppm
2	Cr 267.716	22984.9	23144.7	0.2514	mg/L	12.57	ppm
2	Cu 324.754	31139.5	28852.6	0.0990	mg/L	4.950	ppm
2	Fe 273.955	9174862.1	9171872.3	184.2	mg/L	9210	ppm
2	Mg 279.079	2882216.4	2881620.3	90.73	mg/L	4536	ppm
2	Mn 257.610	4203845.6	4202724.9	2.648	mg/L	132.4	ppm
2	Mo 202.030	19.7	48.2	-0.0046	mg/L	-0.2299	ppm
2	Ni 231.604	8080.7	7805.5	0.1542	mg/L	7.712	ppm
2	Pb 220.353	1113.4	928.5	0.0742	mg/L	3.710	ppm
2	Sb 206.833	86.6	25.9	-0.0129	mg/L	-0.6443	ppm
2	Se 196.026	32.9	-51.4	0.0270	mg/L	1.348	ppm
2	Tl 190.800	349.2	160.7	0.0001	mg/L	0.0052	ppm
2	V 292.402	40253.1	40090.3	0.3596	mg/L	17.98	ppm
2	Zn 213.856	214754.2	215337.6	2.011	mg/L	100.6	ppm
3	Ag 328.068	-1774.9	-700.9	-0.0035	mg/L	-0.1737	ppm
3	Al 308.215	4840742.4	4836144.9	132.6	mg/L	6628	ppm
3	As 188.979	122.7	53.2	0.0658	mg/L	3.288	ppm
3	Ba 233.527	243715.8	244581.4	0.6923	mg/L	34.62	ppm
3	Be 313.107	8693.0	9107.2	0.0033	mg/L	0.1643	ppm
3	Ca 227.547	437520.0	437236.6	1676	mg/L	83810	ppm
3	Cd 228.802	481.5	391.7	0.0031	mg/L	0.1546	ppm
3	Co 228.616	7863.3	8280.0	0.0783	mg/L	3.913	ppm
3	Cr 267.716	23364.5	23524.2	0.2556	mg/L	12.78	ppm
3	Cu 324.754	31381.9	29095.0	0.0996	mg/L	4.981	ppm
3	Fe 273.955	9012918.0	9009928.1	180.9	mg/L	9047	ppm
3	Mg 279.079	2840109.7	2839513.5	89.40	mg/L	4470	ppm
3	Mn 257.610	4143575.8	4142455.1	2.610	mg/L	130.5	ppm
3	Mo 202.030	23.2	51.7	-0.0043	mg/L	-0.2142	ppm
3	Ni 231.604	8390.9	8115.7	0.1604	mg/L	8.018	ppm
3	Pb 220.353	967.7	782.8	0.0644	mg/L	3.222	ppm
3	Sb 206.833	98.7	38.1	-0.0099	mg/L	-0.4943	ppm
3	Se 196.026	-40.5	-124.8	-0.0005	mg/L	-0.0235	ppm
3	Tl 190.800	373.9	185.3	0.0082	mg/L	0.4124	ppm
3	V 292.402	40813.9	40651.1	0.3646	mg/L	18.23	ppm
3	Zn 213.856	218937.6	219521.0	2.051	mg/L	102.6	ppm

Mean Data ----------

ID: 6148-1 S F=50 Seq. No.: 44 Sample No.: 28 A/S Pos: 36

Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 1:35:27 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-758.1	-0.0038	0.00069	mg/L	-0.1879	0.03458	ppm	18.40%
Al 308.215	4902629.5	134.4	1.58	mg/L	6719	79.0	ppm	1.18%
As 188.979	49.1	0.0635	0.00674	mg/L	3.175	0.3371	ppm	10.62%
Ba 233.527	242875.7	0.6875	0.00425	mg/L	34.38	0.213	ppm	0.62%
Be 313.107	9019.3	0.0033	0.00003	mg/L	0.1628	0.00165	ppm	1.02%
Ca 227.547	431111.2	1653	20.3	mg/L	82650	1015.2	ppm	1.23%
Cd 228.802	381.0	0.0030	0.00026	mg/L	0.1504	0.01281	ppm	8.52%
Co 228.616	8135.5	0.0769	0.00145	mg/L	3.845	0.0726	ppm	1.89%
Cr 267.716	23054.1	0.2504	0.00581	mg/L	12.52	0.291	ppm	2.32%
Cu 324.754	28950.7	0.0993	0.00031	mg/L	4.964	0.0156	ppm	0.31%
Fe 273.955	9133600.3	183.4	2.20	mg/L	9171	110.1	ppm	1.20%

012727

g 279.079	2869383.7	90.34	0.819 mg/L	4517	40.9 ppm	0.91%
n 257.610	4176666.5	2.631	0.0195 mg/L	131.6	0.97 ppm	0.74%
Mo 202.030	61.9	-0.0038	0.00105 mg/L	-0.1920	0.05265 ppm	27.43%
Ni 231.604	7951.8	0.1571	0.00308 mg/L	7.856	0.1540 ppm	1.96%
b 220.353	834.8	0.0679	0.00544 mg/L	3.396	0.2721 ppm	8.01%
b 206.833	59.2	-0.0048	0.01144 mg/L	-0.2420	0.57181 ppm	236.26%
Se 196.026	-90.8	0.0125	0.01378 mg/L	0.6248	0.68908 ppm	110.29%
Tl 190.800	174.5	0.0044	0.00409 mg/L	0.2188	0.20434 ppm	93.37%
292.402	40164.2	0.3602	0.00408 mg/L	18.01	0.204 ppm	1.13%
n 213.856	216334.8	2.021	0.0269 mg/L	101.0	1.34 ppm	1.33%

Replicate Data ----------

ID: 6148-1 D F=50 Date: 11/21/02 1:38:07 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-2094.6	-1020.7	-0.0051	mg/L	-0.2530	ppm
1	Al 308.215	4865180.5	4860582.9	133.2	mg/L	6661	ppm
1	As 188.979	130.2	60.8	0.0669	mg/L	3.344	ppm
1	Ba 233.527	236432.2	237297.8	0.6717	mg/L	33.59	ppm
1	Be 313.107	8171.5	8585.7	0.0031	mg/L	0.1549	ppm
1	Ca 227.547	419923.1	419639.6	1609	mg/L	80450	ppm
1	Cd 228.802	538.0	448.3	0.0035	mg/L	0.1769	ppm
1	Co 228.616	7923.1	8339.8	0.0788	mg/L	3.942	ppm
1	Cr 267.716	23697.6	23857.4	0.2593	mg/L	12.97	ppm
1	Cu 324.754	29889.4	27602.4	0.0949	mg/L	4.746	ppm
1	Fe 273.955	8997598.9	8994609.0	180.6	mg/L	9032	ppm
1	Mg 279.079	2833132.8	2832536.7	89.18	mg/L	4459	ppm
1	Mn 257.610	4159488.0	4158367.2	2.620	mg/L	131.0	ppm
1	Mo 202.030	-10.9	17.7	-0.0061	mg/L	-0.3038	ppm
1	Ni 231.604	8304.2	8029.0	0.1587	mg/L	7.933	ppm
1	Pb 220.353	1009.1	824.2	0.0670	mg/L	3.351	ppm
1	Sb 206.833	181.5	120.9	0.0098	mg/L	0.4903	ppm
1	Se 196.026	-14.2	-98.5	0.0089	mg/L	0.4463	ppm
1	Tl 190.800	366.6	178.1	0.0060	mg/L	0.2982	ppm
1	V 292.402	39213.1	39050.3	0.3502	mg/L	17.51	ppm
1	Zn 213.856	212252.9	212836.3	1.988	mg/L	99.41	ppm
2	Ag 328.068	-1867.9	-793.9	-0.0039	mg/L	-0.1968	ppm
2	Al 308.215	5012446.2	5007848.6	137.3	mg/L	6863	ppm
2	As 188.979	145.0	75.5	0.0731	mg/L	3.657	ppm
2	Ba 233.527	238806.0	239671.6	0.6784	mg/L	33.92	ppm
2	Be 313.107	8052.4	8466.6	0.0031	mg/L	0.1528	ppm
2	Ca 227.547	427210.0	426926.6	1637	mg/L	81850	ppm
2	Cd 228.802	503.3	413.6	0.0033	mg/L	0.1632	ppm
2	Co 228.616	7820.8	8237.5	0.0779	mg/L	3.893	ppm
2	Cr 267.716	22849.2	23008.9	0.2498	mg/L	12.49	ppm
2	Cu 324.754	30573.6	28286.7	0.0973	mg/L	4.863	ppm
2	Fe 273.955	9198285.3	9195295.5	184.7	mg/L	9233	ppm
2	Mg 279.079	2866726.4	2866130.3	90.24	mg/L	4512	ppm
2	Mn 257.610	4211211.5	4210090.8	2.652	mg/L	132.6	ppm
2	Mo 202.030	-42.7	-14.2	-0.0079	mg/L	-0.3959	ppm
2	Ni 231.604	8154.8	7879.6	0.1557	mg/L	7.785	ppm
2	Pb 220.353	1036.7	851.8	0.0692	mg/L	3.458	ppm
2	Sb 206.833	179.8	119.2	0.0094	mg/L	0.4693	ppm
2	Se 196.026	-139.2	-223.5	-0.0355	mg/L	-1.777	ppm
2	Tl 190.800	312.9	124.4	-0.0108	mg/L	-0.5401	ppm
2	V 292.402	39469.9	39307.1	0.3525	mg/L	17.63	ppm
2	Zn 213.856	218322.9	218906.3	2.045	mg/L	102.3	ppm
3	Ag 328.068	-2016.3	-942.3	-0.0047	mg/L	-0.2336	ppm
3	Al 308.215	4969138.8	4964541.3	136.1	mg/L	6804	ppm
3	As 188.979	139.1	69.7	0.0709	mg/L	3.543	ppm
3	Ba 233.527	240227.5	241093.1	0.6825	mg/L	34.12	ppm
3	Be 313.107	7925.5	8339.8	0.0030	mg/L	0.1505	ppm
3	Ca 227.547	426499.2	426215.8	1634	mg/L	81710	ppm
3	Cd 228.802	464.3	374.5	0.0030	mg/L	0.1478	ppm
3	Co 228.616	7944.7	8361.4	0.0790	mg/L	3.952	ppm
3	Cr 267.716	23099.4	23259.2	0.2526	mg/L	12.63	ppm
3	Cu 324.754	30691.2	28404.2	0.0976	mg/L	4.878	ppm
3	Fe 273.955	9136654.1	9133664.3	183.4	mg/L	9171	ppm

3 Mg 279.079	2869180.3	2868584.1	90.32 mg/L	4516 ppm
3 Mn 257.610	4202536.7	4201416.0	2.647 mg/L	132.3 ppm
3 Mo 202.030	-5.6	22.9	-0.0059 mg/L	-0.2953 ppm
3 Ni 231.604	8264.5	7989.3	0.1579 mg/L	7.893 ppm
3 Pb 220.353	913.1	728.2	0.0608 mg/L	3.041 ppm
3 Sb 206.833	101.7	41.0	-0.0093 mg/L	-0.4654 ppm
3 Se 196.026	-33.4	-117.7	0.0026 mg/L	0.1306 ppm
3 Tl 190.800	339.2	150.7	-0.0028 mg/L	-0.1402 ppm
3 V 292.402	39408.8	39246.1	0.3520 mg/L	17.60 ppm
3 Zn 213.856	217678.3	218261.7	2.039 mg/L	102.0 ppm

Mean Data ----------

ID: 6148-1 D F=50 Seq. No.: 45 Sample No.: 29 A/S Pos: 37
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 1:38:07 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-919.0	-0.0046	0.00057	mg/L	-0.2278	0.02855	ppm	12.53%
Al 308.215	4944324.3	135.5	2.07	mg/L	6776	103.7	ppm	1.53%
As 188.979	68.7	0.0703	0.00316	mg/L	3.514	0.1581	ppm	4.50%
Ba 233.527	239354.1	0.6775	0.00543	mg/L	33.88	0.271	ppm	0.80%
Be 313.107	8464.0	0.0031	0.00004	mg/L	0.1527	0.00222	ppm	1.45%
Ca 227.547	424260.7	1627	15.4	mg/L	81340	770.5	ppm	0.95%
Cd 228.802	412.1	0.0033	0.00029	mg/L	0.1626	0.01455	ppm	8.95%
Co 228.616	8312.9	0.0786	0.00063	mg/L	3.929	0.0313	ppm	0.80%
Cr 267.716	23375.2	0.2539	0.00487	mg/L	12.70	0.244	ppm	1.92%
Cu 324.754	28097.8	0.0966	0.00145	mg/L	4.829	0.0723	ppm	1.50%
Fe 273.955	9107856.3	182.9	2.06	mg/L	9145	103.2	ppm	1.13%
Mg 279.079	2855750.4	89.91	0.634	mg/L	4496	31.7	ppm	0.71%
Mn 257.610	4189958.0	2.640	0.0175	mg/L	132.0	0.87	ppm	0.66%
Mo 202.030	8.8	-0.0066	0.00112	mg/L	-0.3317	0.05579	ppm	16.82%
Ni 231.604	7965.9	0.1574	0.00153	mg/L	7.870	0.0765	ppm	0.97%
Pb 220.353	801.4	0.0657	0.00433	mg/L	3.283	0.2163	ppm	6.59%
Sb 206.833	93.7	0.0033	0.01092	mg/L	0.1647	0.54578	ppm	331.29%
Se 196.026	-146.5	-0.0080	0.02405	mg/L	-0.3999	1.20265	ppm	300.73%
Tl 190.800	151.0	-0.0025	0.00839	mg/L	-0.1274	0.41926	ppm	329.15%
V 292.402	39201.2	0.3516	0.00120	mg/L	17.58	0.060	ppm	0.34%
Zn 213.856	216668.1	2.024	0.0312	mg/L	101.2	1.56	ppm	1.54%

Matrix Check Sample: 6148-1 D F=50

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	Relative % Diff.
Ag 328.068	-0.0038	-0.0046	0.001	mg/L	-19.185
Al 308.215	134.4	135.5	2.074	mg/L	0.847
As 188.979	0.0635	0.0703	0.003	mg/L	10.141
Ba 233.527	0.6875	0.6775	0.005	mg/L	1.461
Be 313.107	0.0033	0.0031	0.000	mg/L	6.352
Ca 227.547	1653	1627	15.411	mg/L	1.599
Cd 228.802	0.0030	0.0033	0.000	mg/L	7.841
Co 228.616	0.0769	0.0786	0.001	mg/L	2.157
Cr 267.716	0.2504	0.2539	0.005	mg/L	1.413
Cu 324.754	0.0993	0.0966	0.001	mg/L	2.758
Fe 273.955	183.4	182.9	2.064	mg/L	0.282
Mg 279.079	90.34	89.91	0.634	mg/L	0.476
Mn 257.610	2.631	2.640	0.017	mg/L	0.318
Mo 202.030	-0.0038	-0.0066	0.001	mg/L	-53.352
Ni 231.604	0.1571	0.1574	0.002	mg/L	0.178
Pb 220.353	0.0679	0.0657	0.004	mg/L	3.391
Sb 206.833	-0.0048	0.0033	0.011	mg/L	-1052.673
Se 196.026	0.0125	-0.0080	0.024	mg/L	911.270
Tl 190.800	0.0044	-0.0025	0.008	mg/L	757.039
V 292.402	0.3602	0.3516	0.001	mg/L	2.427
Zn 213.856	2.021	2.024	0.031	mg/L	0.158

Replicate Data ----------

ID: 6148-1 1/5 F=250 Date: 11/21/02 1:41:02 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units

1	Ag 328.068	-1233.9	-160.0	-0.0008	mg/L	-0.1982 ppm
1	Al 308.215	1033387.6	1028790.1	28.20	mg/L	7049 ppm
1	As 188.979	72.2	2.8	0.0100	mg/L	2.510 ppm
1	Ba 233.527	52091.1	52956.7	0.1499	mg/L	37.48 ppm
1	Be 313.107	1405.1	1819.4	0.0007	mg/L	0.1642 ppm
1	Ca 227.547	89909.9	89626.4	342.8	mg/L	85700 ppm
1	Cd 228.802	161.7	72.0	0.0006	mg/L	0.1420 ppm
1	Co 228.616	1452.4	1869.1	0.0177	mg/L	4.417 ppm
1	Cr 267.716	4789.9	4949.7	0.0547	mg/L	13.68 ppm
1	Cu 324.754	7976.9	5690.0	0.0179	mg/L	4.465 ppm
1	Fe 273.955	2035069.6	2032079.8	40.81	mg/L	10200 ppm
1	Mg 279.079	634914.7	634318.5	19.97	mg/L	4993 ppm
1	Mn 257.610	929102.7	927982.0	0.5846	mg/L	146.2 ppm
1	Mo 202.030	-11.6	16.9	0.0009	mg/L	0.2239 ppm
1	Ni 231.604	2093.8	1818.5	0.0359	mg/L	8.984 ppm
1	Pb 220.353	361.9	177.0	0.0146	mg/L	3.653 ppm
1	Sb 206.833	64.0	3.3	0.0008	mg/L	0.1987 ppm
1	Se 196.026	52.4	-31.9	-0.0013	mg/L	-0.3370 ppm
1	Tl 190.800	219.7	31.2	-0.0011	mg/L	-0.2664 ppm
1	V 292.402	8627.0	8464.3	0.0759	mg/L	18.98 ppm
1	Zn 213.856	47067.9	47651.3	0.4451	mg/L	111.3 ppm
2	Ag 328.068	-1076.3	-2.3	0.0000	mg/L	-0.0029 ppm
2	Al 308.215	1037819.4	1033221.8	28.32	mg/L	7080 ppm
2	As 188.979	76.2	6.8	0.0115	mg/L	2.876 ppm
2	Ba 233.527	51768.4	52634.0	0.1490	mg/L	37.25 ppm
2	Be 313.107	1348.5	1762.7	0.0006	mg/L	0.1590 ppm
2	Ca 227.547	89406.3	89122.9	340.9	mg/L	85220 ppm
2	Cd 228.802	151.5	61.8	0.0005	mg/L	0.1219 ppm
2	Co 228.616	1447.7	1864.4	0.0176	mg/L	4.406 ppm
2	Cr 267.716	4812.9	4972.7	0.0550	mg/L	13.75 ppm
2	Cu 324.754	7993.5	5706.6	0.0179	mg/L	4.478 ppm
2	Fe 273.955	2033175.0	2030185.2	40.77	mg/L	10190 ppm
2	Mg 279.079	628422.7	627826.6	19.77	mg/L	4942 ppm
2	Mn 257.610	917698.4	916577.7	0.5775	mg/L	144.4 ppm
2	Mo 202.030	-28.7	-0.2	0.0000	mg/L	-0.0031 ppm
2	Ni 231.604	2055.4	1780.2	0.0352	mg/L	8.794 ppm
2	Pb 220.353	349.9	165.0	0.0138	mg/L	3.454 ppm
2	Sb 206.833	80.2	19.6	0.0047	mg/L	1.171 ppm
2	Se 196.026	55.7	-28.6	-0.0002	mg/L	-0.0454 ppm
2	Tl 190.800	219.8	31.2	-0.0011	mg/L	-0.2669 ppm
2	V 292.402	8626.6	8463.8	0.0759	mg/L	18.98 ppm
2	Zn 213.856	47225.8	47809.2	0.4466	mg/L	111.6 ppm
3	Ag 328.068	-1231.7	-157.7	-0.0008	mg/L	-0.1954 ppm
3	Al 308.215	1028602.9	1024005.4	28.07	mg/L	7017 ppm
3	As 188.979	74.8	5.4	0.0110	mg/L	2.744 ppm
3	Ba 233.527	51519.3	52384.9	0.1483	mg/L	37.07 ppm
3	Be 313.107	1388.1	1802.4	0.0007	mg/L	0.1626 ppm
3	Ca 227.547	89504.0	89220.5	341.2	mg/L	85310 ppm
3	Cd 228.802	161.4	71.6	0.0006	mg/L	0.1413 ppm
3	Co 228.616	1428.8	1845.5	0.0174	mg/L	4.361 ppm
3	Cr 267.716	4791.8	4951.6	0.0548	mg/L	13.69 ppm
3	Cu 324.754	8167.0	5880.1	0.0185	mg/L	4.615 ppm
3	Fe 273.955	2014144.0	2011154.2	40.39	mg/L	10100 ppm
3	Mg 279.079	627767.2	627171.1	19.75	mg/L	4937 ppm
3	Mn 257.610	915808.1	914687.4	0.5763	mg/L	144.1 ppm
3	Mo 202.030	-22.7	5.9	0.0003	mg/L	0.0775 ppm
3	Ni 231.604	2042.3	1767.1	0.0349	mg/L	8.729 ppm
3	Pb 220.353	372.3	187.4	0.0153	mg/L	3.824 ppm
3	Sb 206.833	74.3	13.7	0.0033	mg/L	0.8199 ppm
3	Se 196.026	56.6	-27.7	0.0001	mg/L	0.0158 ppm
3	Tl 190.800	217.4	28.9	-0.0017	mg/L	-0.4165 ppm
3	V 292.402	8448.0	8285.3	0.0743	mg/L	18.58 ppm
3	Zn 213.856	47601.8	48185.2	0.4502	mg/L	112.5 ppm

ean Data ----------

D: 6148-1 1/5 F=250 Seq. No.: 46 Sample No.: 30 A/S Pos: 38

Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 250.0

Data: Original Date: 11/21/02 1:41:02 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	-106.7	-0.0005	0.00045	mg/L	-0.1322	0.11198	ppm	84.72%
Al 308.215	1028672.4	28.19	0.126	mg/L	7049	31.6	ppm	0.45%
As 188.979	5.0	0.0108	0.00074	mg/L	2.710	0.1857	ppm	6.85%
Ba 233.527	52658.5	0.1491	0.00081	mg/L	37.27	0.203	ppm	0.54%
Be 313.107	1794.8	0.0006	0.00001	mg/L	0.1619	0.00262	ppm	1.62%
Ca 227.547	89323.3	341.6	1.02	mg/L	85410	255.3	ppm	0.30%
Cd 228.802	68.5	0.0005	0.00005	mg/L	0.1351	0.01139	ppm	8.43%
Co 228.616	1859.7	0.0176	0.00012	mg/L	4.395	0.0295	ppm	0.67%
Cr 267.716	4958.0	0.0548	0.00014	mg/L	13.71	0.035	ppm	0.26%
Cu 324.754	5758.9	0.0181	0.00033	mg/L	4.519	0.0826	ppm	1.83%
Fe 273.955	2024473.1	40.66	0.232	mg/L	10160	58.1	ppm	0.57%
Mg 279.079	629772.1	19.83	0.124	mg/L	4957	31.1	ppm	0.63%
Mn 257.610	919749.0	0.5795	0.00453	mg/L	144.9	1.13	ppm	0.78%
Mo 202.030	7.5	0.0004	0.00046	mg/L	0.0994	0.11507	ppm	115.74%
Ni 231.604	1788.6	0.0353	0.00053	mg/L	8.836	0.1322	ppm	1.50%
Pb 220.353	176.5	0.0146	0.00074	mg/L	3.644	0.1853	ppm	5.08%
Sb 206.833	12.2	0.0029	0.00197	mg/L	0.7297	0.49216	ppm	67.45%
Se 196.026	-29.4	-0.0005	0.00075	mg/L	-0.1222	0.18847	ppm	154.22%
Tl 190.800	30.4	-0.0013	0.00035	mg/L	-0.3166	0.08655	ppm	27.34%
V 292.402	8404.5	0.0754	0.00093	mg/L	18.84	0.231	ppm	1.23%
Zn 213.856	47881.9	0.4473	0.00261	mg/L	111.8	0.65	ppm	0.58%

Replicate Data ----------

ID: 6148-1 MS F=50 Date: 11/21/02 1:44:21 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	202349.0	203423.0	1.008	mg/L	50.42	ppm
1	Al 308.215	4890593.6	4885996.0	133.9	mg/L	6696	ppm
1	As 188.979	1443.3	1373.8	0.5789	mg/L	28.94	ppm
1	Ba 233.527	1607545.4	1608411.0	4.553	mg/L	227.6	ppm
1	Be 313.107	561973.0	562387.3	0.2030	mg/L	10.15	ppm
1	Ca 227.547	426445.6	426162.1	1634	mg/L	81690	ppm
1	Cd 228.802	32401.0	32311.3	0.2550	mg/L	12.75	ppm
1	Co 228.616	111326.0	111742.7	1.056	mg/L	52.81	ppm
1	Cr 267.716	109620.3	109780.1	1.209	mg/L	60.47	ppm
1	Cu 324.754	333358.2	331071.3	1.047	mg/L	52.37	ppm
1	Fe 273.955	8918890.2	8915900.3	179.1	mg/L	8953	ppm
1	Mg 279.079	3111903.5	3111307.3	97.96	mg/L	4898	ppm
1	Mn 257.610	5612870.6	5611749.9	3.536	mg/L	176.8	ppm
1	Mo 202.030	36303.1	36331.6	1.918	mg/L	95.88	ppm
1	Ni 231.604	57269.3	56994.1	1.126	mg/L	56.31	ppm
1	Pb 220.353	43426.7	43241.8	2.905	mg/L	145.3	ppm
1	Sb 206.833	2056.7	1996.1	0.4307	mg/L	21.53	ppm
1	Se 196.026	1286.5	1202.2	0.4808	mg/L	24.04	ppm
1	Tl 190.800	1875.6	1687.0	0.4446	mg/L	22.23	ppm
1	V 292.402	257295.0	257132.3	2.306	mg/L	115.3	ppm
1	Zn 213.856	262477.2	263060.6	2.462	mg/L	123.1	ppm
2	Ag 328.068	196870.8	197944.7	0.9812	mg/L	49.06	ppm
2	Al 308.215	4890598.7	4886001.2	133.9	mg/L	6696	ppm
2	As 188.979	1411.2	1341.7	0.5651	mg/L	28.25	ppm
2	Ba 233.527	1569129.2	1569994.8	4.444	mg/L	222.2	ppm
2	Be 313.107	546030.6	546444.8	0.1972	mg/L	9.861	ppm
2	Ca 227.547	413090.9	412807.5	1583	mg/L	79140	ppm
2	Cd 228.802	32919.0	32829.2	0.2591	mg/L	12.96	ppm
2	Co 228.616	108097.8	108514.5	1.026	mg/L	51.29	ppm
2	Cr 267.716	107495.1	107654.9	1.186	mg/L	59.30	ppm
2	Cu 324.754	323122.5	320835.6	1.015	mg/L	50.77	ppm
2	Fe 273.955	8925771.9	8922782.1	179.2	mg/L	8959	ppm
2	Mg 279.079	3097827.2	3097231.1	97.52	mg/L	4876	ppm
2	Mn 257.610	5584514.3	5583393.6	3.518	mg/L	175.9	ppm
2	Mo 202.030	36835.9	36864.4	1.946	mg/L	97.29	ppm
2	Ni 231.604	55638.6	55363.4	1.094	mg/L	54.70	ppm
2	Pb 220.353	42067.4	41882.5	2.814	mg/L	140.7	ppm
2	Sb 206.833	2113.0	2052.4	0.4448	mg/L	22.24	ppm
2	Se 196.026	1330.6	1246.3	0.4969	mg/L	24.85	ppm
2	Tl 190.800	1952.5	1763.9	0.4669	mg/L	23.34	ppm
2	V 292.402	251961.8	251799.1	2.258	mg/L	112.9	ppm

2 Zn 213.856	254069.1	254652.5	2.383	mg/L	119.1 ppm
3 Ag 328.068	196342.8	197416.7	0.9786	mg/L	48.93 ppm
3 Al 308.215	4847491.6	4842894.0	132.7	mg/L	6637 ppm
3 As 188.979	1424.8	1355.3	0.5704	mg/L	28.52 ppm
3 Ba 233.527	1561938.4	1562804.0	4.424	mg/L	221.2 ppm
3 Be 313.107	541137.0	541551.2	0.1954	mg/L	9.772 ppm
3 Ca 227.547	413910.7	413627.2	1586	mg/L	79300 ppm
3 Cd 228.802	32688.3	32598.6	0.2573	mg/L	12.86 ppm
3 Co 228.616	108692.2	109108.9	1.031	mg/L	51.57 ppm
3 Cr 267.716	107777.4	107937.2	1.189	mg/L	59.46 ppm
3 Cu 324.754	322552.4	320265.5	1.013	mg/L	50.67 ppm
3 Fe 273.955	8833170.4	8830180.6	177.3	mg/L	8866 ppm
3 Mg 279.079	3078564.2	3077968.1	96.91	mg/L	4846 ppm
3 Mn 257.610	5574296.4	5573175.7	3.511	mg/L	175.6 ppm
3 Mo 202.030	36439.7	36468.2	1.925	mg/L	96.25 ppm
3 Ni 231.604	55123.1	54847.9	1.084	mg/L	54.19 ppm
3 Pb 220.353	42286.8	42101.9	2.829	mg/L	141.4 ppm
3 Sb 206.833	2080.6	2019.9	0.4371	mg/L	21.86 ppm
3 Se 196.026	1324.8	1240.5	0.4943	mg/L	24.72 ppm
3 Tl 190.800	1943.5	1755.0	0.4647	mg/L	23.24 ppm
3 V 292.402	253188.1	253025.3	2.269	mg/L	113.5 ppm
3 Zn 213.856	254846.2	255429.5	2.390	mg/L	119.5 ppm

Mean Data ----------

: 6148-1 MS F=50 Seq. No.: 47 Sample No.: 31 A/S Pos: 39
mple Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 1:44:21 PM

ement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
328.068	199594.8	0.9894	0.01649	mg/L	49.47	0.824	ppm	1.67%
Al 308.215	4871630.4	133.5	0.68	mg/L	6676	34.1	ppm	0.51%
188.979	1357.0	0.5714	0.00697	mg/L	28.57	0.349	ppm	1.22%
233.527	1580403.3	4.474	0.0694	mg/L	223.7	3.47	ppm	1.55%
313.107	550127.7	0.1985	0.00393	mg/L	9.927	0.1966	ppm	1.98%
Ca 227.547	417532.3	1601	28.6	mg/L	80040	1431.8	ppm	1.79%
Cd 228.802	32579.7	0.2571	0.00205	mg/L	12.86	0.102	ppm	0.80%
228.616	109788.7	1.038	0.0162	mg/L	51.89	0.812	ppm	1.56%
267.716	108457.4	1.195	0.0128	mg/L	59.74	0.638	ppm	1.07%
Cu 324.754	324057.5	1.025	0.0191	mg/L	51.27	0.956	ppm	1.86%
Fe 273.955	8889621.0	178.5	1.04	mg/L	8926	51.8	ppm	0.58%
279.079	3095502.2	97.46	0.527	mg/L	4873	26.3	ppm	0.54%
257.610	5589439.7	3.521	0.0126	mg/L	176.1	0.63	ppm	0.36%
Mo 202.030	36554.7	1.929	0.0146	mg/L	96.47	0.732	ppm	0.76%
Ni 231.604	55735.1	1.101	0.0221	mg/L	55.07	1.107	ppm	2.01%
220.353	42408.7	2.849	0.0489	mg/L	142.5	2.45	ppm	1.72%
206.833	2022.8	0.4375	0.00708	mg/L	21.88	0.354	ppm	1.62%
196.026	1229.7	0.4907	0.00864	mg/L	24.53	0.432	ppm	1.76%
Tl 190.800	1735.3	0.4587	0.01228	mg/L	22.94	0.614	ppm	2.68%
292.402	253985.6	2.278	0.0251	mg/L	113.9	1.25	ppm	1.10%
213.856	257714.2	2.412	0.0438	mg/L	120.6	2.19	ppm	1.82%

Matrix Check Sample: 6148-1 MS F=50

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
Ag 328.068	0.9962	0.9894	0.016	mg/L	99.318
308.215	136.4	133.5	0.682	mg/L	-42.482
188.979	0.5635	0.5714	0.007	mg/L	101.588
Ba 233.527	4.688	4.474	0.069	mg/L	94.653
Be 313.107	0.2033	0.1985	0.004	mg/L	97.644
227.547	1673	1601	28.636	mg/L	-260.216
228.802	0.2530	0.2571	0.002	mg/L	101.651
Co 228.616	1.077	1.038	0.016	mg/L	96.092
Cr 267.716	1.250	1.195	0.013	mg/L	94.447
Cu 324.754	1.099	1.025	0.019	mg/L	92.616
Fe 273.955	184.4	178.5	1.036	mg/L	-489.964
Mg 279.079	100.3	97.46	0.527	mg/L	71.194
Mn 257.610	3.631	3.521	0.013	mg/L	89.008
Mo 202.030	1.996	1.929	0.015	mg/L	96.665

Ni 231.604	1.157	1.101	0.022	mg/L	94.420
Pb 220.353	3.068	2.849	0.049	mg/L	92.718
Sb 206.833	0.4952	0.4375	0.007	mg/L	88.477
Se 196.026	0.5125	0.4907	0.009	mg/L	95.638
Tl 190.800	0.5044	0.4587	0.012	mg/L	90.870
V 292.402	2.360	2.278	0.025	mg/L	95.885
Zn 213.856	2.521	2.412	0.044	mg/L	78.155

Replicate Data ----------

ID: 6148-1 MSD F=50 Date: 11/21/02 1:47:07 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	194572.4	195646.4	0.9698	mg/L	48.49	ppm
1	Al 308.215	4714941.4	4710343.8	129.1	mg/L	6455	ppm
1	As 188.979	1394.0	1324.6	0.5581	mg/L	27.90	ppm
1	Ba 233.527	1554744.9	1555610.5	4.403	mg/L	220.2	ppm
1	Be 313.107	543120.4	543534.6	0.1962	mg/L	9.808	ppm
1	Ca 227.547	409808.3	409524.8	1570	mg/L	78510	ppm
1	Cd 228.802	32062.3	31972.5	0.2523	mg/L	12.62	ppm
1	Co 228.616	107637.8	108054.5	1.021	mg/L	51.07	ppm
1	Cr 267.716	105923.7	106083.5	1.169	mg/L	58.44	ppm
1	Cu 324.754	320669.6	318382.6	1.007	mg/L	50.37	ppm
1	Fe 273.955	8652525.2	8649535.4	173.7	mg/L	8685	ppm
1	Mg 279.079	3020643.7	3020047.6	95.09	mg/L	4754	ppm
1	Mn 257.610	5449572.2	5448451.5	3.433	mg/L	171.6	ppm
1	Mo 202.030	36026.0	36054.5	1.903	mg/L	95.16	ppm
1	Ni 231.604	55379.0	55103.8	1.089	mg/L	54.44	ppm
1	Pb 220.353	42050.6	41865.7	2.813	mg/L	140.6	ppm
1	Sb 206.833	2059.8	1999.2	0.4330	mg/L	21.65	ppm
1	Se 196.026	1359.0	1274.7	0.5059	mg/L	25.30	ppm
1	Tl 190.800	1849.8	1661.3	0.4386	mg/L	21.93	ppm
1	V 292.402	248732.0	248569.3	2.229	mg/L	111.5	ppm
1	Zn 213.856	252536.9	253120.3	2.369	mg/L	118.4	ppm
2	Ag 328.068	199467.3	200541.2	0.9941	mg/L	49.71	ppm
2	Al 308.215	4716715.8	4712118.2	129.2	mg/L	6458	ppm
2	As 188.979	1450.4	1381.0	0.5810	mg/L	29.05	ppm
2	Ba 233.527	1590885.9	1591751.5	4.506	mg/L	225.3	ppm
2	Be 313.107	555152.0	555566.2	0.2005	mg/L	10.03	ppm
2	Ca 227.547	420206.1	419922.7	1610	mg/L	80490	ppm
2	Cd 228.802	31501.4	31411.6	0.2479	mg/L	12.40	ppm
2	Co 228.616	110152.9	110569.6	1.045	mg/L	52.26	ppm
2	Cr 267.716	108602.1	108761.8	1.198	mg/L	59.92	ppm
2	Cu 324.754	329324.8	327037.8	1.035	mg/L	51.73	ppm
2	Fe 273.955	8633625.0	8630635.2	173.3	mg/L	8666	ppm
2	Mg 279.079	3004198.2	3003602.1	94.57	mg/L	4728	ppm
2	Mn 257.610	5416377.1	5415256.4	3.412	mg/L	170.6	ppm
2	Mo 202.030	35112.0	35140.5	1.855	mg/L	92.74	ppm
2	Ni 231.604	56594.7	56319.5	1.113	mg/L	55.64	ppm
2	Pb 220.353	42801.7	42616.8	2.863	mg/L	143.2	ppm
2	Sb 206.833	2032.3	1971.6	0.4256	mg/L	21.28	ppm
2	Se 196.026	1238.4	1154.1	0.4620	mg/L	23.10	ppm
2	Tl 190.800	1884.7	1696.2	0.4489	mg/L	22.44	ppm
2	V 292.402	254678.6	254515.8	2.283	mg/L	114.1	ppm
2	Zn 213.856	258249.8	258833.2	2.423	mg/L	121.1	ppm
3	Ag 328.068	195662.3	196736.3	0.9753	mg/L	48.76	ppm
3	Al 308.215	4642147.0	4637549.4	127.1	mg/L	6355	ppm
3	As 188.979	1370.7	1301.2	0.5495	mg/L	27.48	ppm
3	Ba 233.527	1560036.5	1560902.1	4.418	mg/L	220.9	ppm
3	Be 313.107	539315.0	539729.2	0.1948	mg/L	9.739	ppm
3	Ca 227.547	412676.1	412392.6	1581	mg/L	79050	ppm
3	Cd 228.802	32331.4	32241.7	0.2545	mg/L	12.72	ppm
3	Co 228.616	108557.0	108973.7	1.030	mg/L	51.51	ppm
3	Cr 267.716	107344.9	107504.7	1.185	mg/L	59.23	ppm
3	Cu 324.754	323525.7	321238.8	1.016	mg/L	50.81	ppm
3	Fe 273.955	8514541.5	8511551.7	170.9	mg/L	8547	ppm
3	Mg 279.079	2968906.6	2968310.5	93.46	mg/L	4673	ppm
3	Mn 257.610	5370273.3	5369152.5	3.383	mg/L	169.1	ppm
3	Mo 202.030	35895.6	35924.1	1.896	mg/L	94.82	ppm

3 Ni 231.604	55022.8	54747.5	1.082 mg/L	54.09 ppm
3 Pb 220.353	41965.1	41780.2	2.807 mg/L	140.4 ppm
3 Sb 206.833	2094.2	2033.5	0.4409 mg/L	22.05 ppm
3 Se 196.026	1318.4	1234.1	0.4905 mg/L	24.52 ppm
3 Tl 190.800	1862.9	1674.4	0.4431 mg/L	22.16 ppm
3 V 292.402	252508.4	252345.6	2.263 mg/L	113.2 ppm
3 Zn 213.856	253729.1	254312.5	2.380 mg/L	119.0 ppm

an Data

: 6148-1 MSD F=50 Seq. No.: 48 Sample No.: 32 A/S Pos: 40
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 1:47:07 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	197641.3	0.9797	0.01274	mg/L	48.99	0.637	ppm	1.30%
308.215	4686670.5	128.5	1.17	mg/L	6423	58.3	ppm	0.91%
188.979	1335.6	0.5629	0.01626	mg/L	28.14	0.813	ppm	2.89%
a 233.527	1569421.4	4.443	0.0553	mg/L	222.1	2.76	ppm	1.24%
e 313.107	546276.7	0.1972	0.00298	mg/L	9.858	0.1492	ppm	1.51%
227.547	413946.7	1587	20.5	mg/L	79350	1027.2	ppm	1.29%
228.802	31875.3	0.2516	0.00334	mg/L	12.58	0.167	ppm	1.33%
228.616	109199.3	1.032	0.0120	mg/L	51.61	0.602	ppm	1.17%
r 267.716	107450.0	1.184	0.0148	mg/L	59.19	0.741	ppm	1.25%
324.754	322219.8	1.019	0.0138	mg/L	50.97	0.692	ppm	1.36%
273.955	8597240.7	172.7	1.50	mg/L	8633	75.1	ppm	0.87%
279.079	2997320.0	94.37	0.832	mg/L	4719	41.6	ppm	0.88%
n 257.610	5410953.5	3.409	0.0251	mg/L	170.5	1.25	ppm	0.74%
o 202.030	35706.4	1.885	0.0262	mg/L	94.24	1.310	ppm	1.39%
231.604	55390.3	1.095	0.0163	mg/L	54.73	0.814	ppm	1.49%
220.353	42087.5	2.828	0.0309	mg/L	141.4	1.55	ppm	1.09%
b 206.833	2001.5	0.4332	0.00769	mg/L	21.66	0.384	ppm	1.77%
e 196.026	1221.0	0.4861	0.02229	mg/L	24.31	1.114	ppm	4.59%
190.800	1677.3	0.4435	0.00516	mg/L	22.18	0.258	ppm	1.16%
292.402	251810.2	2.258	0.0270	mg/L	112.9	1.35	ppm	1.20%
n 213.856	255422.0	2.391	0.0284	mg/L	119.5	1.42	ppm	1.19%

trix Check Sample: 6148-1 MSD F=50

lement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
328.068	0.9962	0.9797	0.013	mg/L	98.350
308.215	136.4	128.5	1.166	mg/L	-295.955
s 188.979	0.5635	0.5629	0.016	mg/L	99.869
a 233.527	4.688	4.443	0.055	mg/L	93.876
313.107	0.2033	0.1972	0.003	mg/L	96.949
227.547	1673	1587	20.544	mg/L	-329.433
d 228.802	0.2530	0.2516	0.003	mg/L	99.427
o 228.616	1.077	1.032	0.012	mg/L	95.534
267.716	1.250	1.184	0.015	mg/L	93.348
324.754	1.099	1.019	0.014	mg/L	92.012
e 273.955	184.4	172.7	1.502	mg/L	-1077.127
g 279.079	100.3	94.37	0.832	mg/L	40.281
257.610	3.631	3.409	0.025	mg/L	77.763
202.030	1.996	1.885	0.026	mg/L	94.429
i 231.604	1.157	1.095	0.016	mg/L	93.739
b 220.353	3.068	2.828	0.031	mg/L	91.992
b 206.833	0.4952	0.4332	0.008	mg/L	87.601
196.026	0.5125	0.4861	0.022	mg/L	94.727
l 190.800	0.5044	0.4435	0.005	mg/L	87.829
292.402	2.360	2.258	0.027	mg/L	94.909
n 213.856	2.521	2.391	0.028	mg/L	73.955

eplicate Data

D: 6148-1 PS F=50 Date: 11/21/02 1:49:53 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	205268.9	206342.8	1.023	mg/L	51.14	ppm
1	Al 308.215	4708928.2	4704330.6	128.9	mg/L	6447	ppm

012734

1	As 188.979	1495.3	1425.8	0.5976	mg/L	29.88 ppm
1	Ba 233.527	1606723.7	1607589.3	4.551	mg/L	227.5 ppm
1	Be 313.107	565348.2	565762.4	0.2042	mg/L	10.21 ppm
1	Ca 227.547	414311.3	414027.8	1587	mg/L	79370 ppm
1	Cd 228.802	33266.5	33176.7	0.2618	mg/L	13.09 ppm
1	Co 228.616	111832.2	112248.9	1.061	mg/L	53.05 ppm
1	Cr 267.716	109222.4	109382.2	1.205	mg/L	60.26 ppm
1	Cu 324.754	334192.0	331905.1	1.050	mg/L	52.49 ppm
1	Fe 273.955	8602193.8	8599204.0	172.7	mg/L	8635 ppm
1	Mg 279.079	3030795.8	3030199.6	95.41	mg/L	4770 ppm
1	Mn 257.610	5479708.9	5478588.2	3.452	mg/L	172.6 ppm
1	Mo 202.030	37716.6	37745.1	1.993	mg/L	99.64 ppm
1	Ni 231.604	57365.1	57089.9	1.128	mg/L	56.41 ppm
1	Pb 220.353	43736.7	43551.8	2.926	mg/L	146.3 ppm
1	Sb 206.833	2284.6	2223.9	0.4857	mg/L	24.29 ppm
1	Se 196.026	1366.9	1282.6	0.5085	mg/L	25.42 ppm
1	Tl 190.800	1966.3	1777.8	0.4726	mg/L	23.63 ppm
1	V 292.402	256434.3	256271.6	2.298	mg/L	114.9 ppm
1	Zn 213.856	266508.2	267091.6	2.501	mg/L	125.0 ppm
2	Ag 328.068	200381.2	201455.2	0.9986	mg/L	49.93 ppm
2	Al 308.215	4731009.6	4726412.0	129.5	mg/L	6477 ppm
2	As 188.979	1405.5	1336.1	0.5620	mg/L	28.10 ppm
2	Ba 233.527	1568027.0	1568892.6	4.441	mg/L	222.1 ppm
2	Be 313.107	547440.9	547855.1	0.1977	mg/L	9.886 ppm
2	Ca 227.547	404033.5	403750.1	1548	mg/L	77400 ppm
2	Cd 228.802	34037.7	33948.0	0.2679	mg/L	13.40 ppm
2	Co 228.616	109755.2	110171.9	1.041	mg/L	52.07 ppm
2	Cr 267.716	107323.3	107483.1	1.184	mg/L	59.21 ppm
2	Cu 324.754	326368.7	324081.7	1.025	mg/L	51.26 ppm
2	Fe 273.955	8639163.6	8636173.8	173.4	mg/L	8672 ppm
2	Mg 279.079	3032489.2	3031893.1	95.46	mg/L	4773 ppm
2	Mn 257.610	5492498.4	5491377.7	3.460	mg/L	173.0 ppm
2	Mo 202.030	38217.8	38246.3	2.019	mg/L	101.0 ppm
2	Ni 231.604	55360.5	55085.3	1.088	mg/L	54.42 ppm
2	Pb 220.353	42449.0	42264.1	2.839	mg/L	142.0 ppm
2	Sb 206.833	2329.0	2268.3	0.4969	mg/L	24.85 ppm
2	Se 196.026	1373.2	1288.9	0.5110	mg/L	25.55 ppm
2	Tl 190.800	1976.6	1788.0	0.4753	mg/L	23.77 ppm
2	V 292.402	252408.4	252245.6	2.262	mg/L	113.1 ppm
2	Zn 213.856	259907.2	260490.6	2.438	mg/L	121.9 ppm
3	Ag 328.068	207212.9	208286.9	1.033	mg/L	51.63 ppm
3	Al 308.215	4741704.7	4737107.1	129.8	mg/L	6492 ppm
3	As 188.979	1488.8	1419.4	0.5958	mg/L	29.79 ppm
3	Ba 233.527	1614656.4	1615522.0	4.573	mg/L	228.7 ppm
3	Be 313.107	564101.8	564516.0	0.2037	mg/L	10.19 ppm
3	Ca 227.547	420295.6	420012.2	1610	mg/L	80510 ppm
3	Cd 228.802	33409.1	33319.3	0.2630	mg/L	13.15 ppm
3	Co 228.616	113115.8	113532.5	1.073	mg/L	53.66 ppm
3	Cr 267.716	110580.1	110739.9	1.220	mg/L	61.01 ppm
3	Cu 324.754	340417.5	338130.6	1.069	mg/L	53.47 ppm
3	Fe 273.955	8625854.3	8622864.5	173.2	mg/L	8658 ppm
3	Mg 279.079	3050324.1	3049727.9	96.02	mg/L	4801 ppm
3	Mn 257.610	5553100.1	5551979.4	3.498	mg/L	174.9 ppm
3	Mo 202.030	37533.7	37562.2	1.983	mg/L	99.15 ppm
3	Ni 231.604	57424.2	57149.0	1.129	mg/L	56.46 ppm
3	Pb 220.353	43933.0	43748.1	2.939	mg/L	146.9 ppm
3	Sb 206.833	2286.3	2225.6	0.4857	mg/L	24.28 ppm
3	Se 196.026	1273.8	1189.5	0.4748	mg/L	23.74 ppm
3	Tl 190.800	1996.3	1807.8	0.4812	mg/L	24.06 ppm
3	V 292.402	261055.9	260893.2	2.340	mg/L	117.0 ppm
3	Zn 213.856	270549.0	271132.4	2.539	mg/L	126.9 ppm

Mean Data ----------

ID: 6148-1 PS F=50 Seq. No.: 49 Sample No.: 33 A/S Pos: 41

Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 1:49:53 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	205361.6	1.018	0.0174	mg/L	50.90	0.872	ppm	1.71%

012735

308.215	4722616.6	129.4	0.46 mg/L	6472	22.9 ppm	0.35%
188.979	1393.8	0.5852	0.02007 mg/L	29.26	1.004 ppm	3.43%
a 233.527	1597334.6	4.522	0.0706 mg/L	226.1	3.53 ppm	1.56%
e 313.107	559377.8	0.2019	0.00361 mg/L	10.09	0.180 ppm	1.79%
227.547	412596.7	1582	31.5 mg/L	79090	1572.7 ppm	1.99%
228.802	33481.3	0.2643	0.00324 mg/L	13.21	0.162 ppm	1.23%
o 228.616	111984.4	1.059	0.0160 mg/L	52.93	0.802 ppm	1.51%
r 267.716	109201.7	1.203	0.0181 mg/L	60.16	0.905 ppm	1.50%
324.754	331372.5	1.048	0.0221 mg/L	52.41	1.105 ppm	2.11%
273.955	8619414.1	173.1	0.38 mg/L	8655	18.8 ppm	0.22%
g 279.079	3037273.5	95.63	0.341 mg/L	4781	17.0 ppm	0.36%
n 257.610	5507315.1	3.470	0.0247 mg/L	173.5	1.24 ppm	0.71%
o 202.030	37851.2	1.998	0.0188 mg/L	99.92	0.938 ppm	0.94%
231.604	56441.4	1.115	0.0232 mg/L	55.76	1.161 ppm	2.08%
220.353	43188.0	2.901	0.0540 mg/L	145.1	2.70 ppm	1.86%
b 206.833	2239.3	0.4894	0.00648 mg/L	24.47	0.324 ppm	1.32%
e 196.026	1253.7	0.4981	0.02023 mg/L	24.90	1.011 ppm	4.06%
190.800	1791.2	0.4764	0.00437 mg/L	23.82	0.219 ppm	0.92%
292.402	256470.1	2.300	0.0388 mg/L	115.0	1.94 ppm	1.69%
n 213.856	266238.2	2.493	0.0507 mg/L	124.6	2.53 ppm	2.03%

trix Check Sample: 6148-1 PS F=50

ement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
328.068	0.9962	1.018	0.017	mg/L	102.177
308.215	136.4	129.4	0.458	mg/L	-246.694
s 188.979	0.5635	0.5852	0.020	mg/L	104.331
233.527	4.688	4.522	0.071	mg/L	95.851
313.107	0.2033	0.2019	0.004	mg/L	99.313
227.547	1673	1582	31.454	mg/L	-355.201
d 228.802	0.2530	0.2643	0.003	mg/L	104.497
o 228.616	1.077	1.059	0.016	mg/L	98.167
267.716	1.250	1.203	0.018	mg/L	95.284
324.754	1.099	1.048	0.022	mg/L	94.887
e 273.955	184.4	173.1	0.376	mg/L	-1032.598
g 279.079	100.3	95.63	0.341	mg/L	52.861
257.610	3.631	3.470	0.025	mg/L	83.834
202.030	1.996	1.998	0.019	mg/L	100.109
i 231.604	1.157	1.115	0.023	mg/L	95.816
b 220.353	3.068	2.901	0.054	mg/L	94.448
206.833	0.4952	0.4894	0.006	mg/L	98.855
196.026	0.5125	0.4981	0.020	mg/L	97.116
190.800	0.5044	0.4764	0.004	mg/L	94.403
292.402	2.360	2.300	0.039	mg/L	96.999
213.856	2.521	2.493	0.051	mg/L	94.348

eplicate Data ----------

D: CCV 1379B Date: 11/21/02 1:52:54 PM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	205402.1	206476.1	1.024	mg/L		
1	Al 308.215	192159.6	187562.0	5.141	mg/L		
1	As 188.979	1399.7	1330.3	0.5159	mg/L		
1	Ba 233.527	1802506.8	1803372.5	5.105	mg/L		
1	Be 313.107	1421019.8	1421434.0	0.5130	mg/L		
1	Ca 227.547	14015.0	13731.6	52.52	mg/L		
1	Cd 228.802	134049.6	133959.8	1.057	mg/L		
1	Co 228.616	224290.4	224707.1	2.124	mg/L		
1	Cr 267.716	45914.9	46074.7	0.5095	mg/L		
1	Cu 324.754	660300.9	658014.0	2.066	mg/L		
1	Fe 273.955	262745.9	259756.0	5.216	mg/L		
1	Mg 279.079	816743.1	816146.9	25.70	mg/L		
1	Mn 257.610	3297978.9	3296858.2	2.077	mg/L		
1	Mo 202.030	39077.9	39106.4	2.072	mg/L		
1	Ni 231.604	108742.0	108466.8	2.143	mg/L		
1	Pb 220.353	7799.5	7614.6	0.5095	mg/L		
1	Sb 206.833	8733.7	8673.0	2.060	mg/L		
1	Se 196.026	1483.7	1399.4	0.5098	mg/L		

1	Tl 190.800	1957.4	1768.9	0.5143 mg/L
1	V 292.402	225086.9	224924.2	2.017 mg/L
1	Zn 213.856	221347.1	221930.5	2.093 mg/L
2	Ag 328.068	196800.7	197874.7	0.9809 mg/L
2	Al 308.215	182711.9	178114.3	4.882 mg/L
2	As 188.979	1385.3	1315.8	0.5102 mg/L
2	Ba 233.527	1834478.2	1835343.8	5.195 mg/L
2	Be 313.107	1448458.0	1448872.2	0.5229 mg/L
2	Ca 227.547	13561.8	13278.3	50.79 mg/L
2	Cd 228.802	129526.1	129436.3	1.022 mg/L
2	Co 228.616	216883.8	217300.5	2.054 mg/L
2	Cr 267.716	44073.7	44233.5	0.4891 mg/L
2	Cu 324.754	678165.6	675878.7	2.122 mg/L
2	Fe 273.955	249568.1	246578.2	4.952 mg/L
2	Mg 279.079	834098.7	833502.6	26.24 mg/L
2	Mn 257.610	3383576.5	3382455.8	2.131 mg/L
2	Mo 202.030	37765.9	37794.4	2.002 mg/L
2	Ni 231.604	104902.0	104626.8	2.067 mg/L
2	Pb 220.353	7793.0	7608.1	0.5091 mg/L
2	Sb 206.833	8682.4	8621.8	2.048 mg/L
2	Se 196.026	1497.9	1413.6	0.5149 mg/L
2	Tl 190.800	1953.4	1764.9	0.5131 mg/L
2	V 292.402	216603.6	216440.9	1.941 mg/L
2	Zn 213.856	214122.5	214705.9	2.025 mg/L
3	Ag 328.068	204104.3	205178.3	1.017 mg/L
3	Al 308.215	189751.3	185153.7	5.075 mg/L
3	As 188.979	1415.8	1346.4	0.5221 mg/L
3	Ba 233.527	1811429.9	1812295.5	5.130 mg/L
3	Be 313.107	1418985.5	1419399.7	0.5123 mg/L
3	Ca 227.547	14011.5	13728.0	52.51 mg/L
3	Cd 228.802	133677.2	133587.5	1.054 mg/L
3	Co 228.616	223447.5	223864.2	2.116 mg/L
3	Cr 267.716	45883.1	46042.9	0.5091 mg/L
3	Cu 324.754	663435.8	661148.9	2.075 mg/L
3	Fe 273.955	257038.8	254049.0	5.102 mg/L
3	Mg 279.079	820491.3	819895.2	25.81 mg/L
3	Mn 257.610	3326596.8	3325476.1	2.095 mg/L
3	Mo 202.030	38694.8	38723.3	2.051 mg/L
3	Ni 231.604	106852.8	106577.6	2.106 mg/L
3	Pb 220.353	7837.9	7653.1	0.5121 mg/L
3	Sb 206.833	8760.2	8699.6	2.066 mg/L
3	Se 196.026	1504.6	1420.4	0.5174 mg/L
3	Tl 190.800	1959.1	1770.5	0.5148 mg/L
3	V 292.402	225251.7	225088.9	2.019 mg/L
3	Zn 213.856	219735.5	220318.9	2.078 mg/L

Mean Data ----------

ID: CCV 1379B Seq. No.: 50 Sample No.: 5 A/S Pos: 6
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 1:52:54 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	203176.3	1.007	0.0230	mg/L				2.28%
Al 308.215	183610.0	5.032	0.1346	mg/L				2.67%
As 188.979	1330.8	0.5161	0.00596	mg/L				1.16%
Ba 233.527	1817003.9	5.143	0.0467	mg/L				0.91%
Be 313.107	1429902.0	0.5161	0.00594	mg/L				1.15%
Ca 227.547	13579.3	51.94	0.997	mg/L				1.92%
Cd 228.802	132327.9	1.044	0.0198	mg/L				1.90%
Co 228.616	221957.2	2.098	0.0383	mg/L				1.83%
Cr 267.716	45450.4	0.5026	0.01165	mg/L				2.32%
Cu 324.754	665013.9	2.088	0.0299	mg/L				1.43%
Fe 273.955	253461.1	5.090	0.1327	mg/L				2.61%
Mg 279.079	823181.6	25.92	0.288	mg/L				1.11%
Mn 257.610	3334930.0	2.101	0.0275	mg/L				1.31%
Mo 202.030	38541.4	2.042	0.0357	mg/L				1.75%
Ni 231.604	106557.1	2.106	0.0379	mg/L				1.80%
Pb 220.353	7625.3	0.5102	0.00163	mg/L				0.32%
Sb 206.833	8664.8	2.058	0.0091	mg/L				0.44%

e 196.026	1411.1	0.5141	0.00386 mg/L	0.75%
190.800	1768.1	0.5141	0.00085 mg/L	0.17%
V 292.402	222151.3	1.992	0.0444 mg/L	2.23%
Zn 213.856	218985.1	2.065	0.0358 mg/L	1.73%

Replicate Data

ID: CCB Date: 11/21/02 1:56:21 PM

Rpl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-1079.4	-5.5	0.0000	mg/L		
1	Al 308.215	5146.4	548.8	0.0150	mg/L		
1	As 188.979	68.0	-1.5	-0.0006	mg/L		
1	Ba 233.527	-423.3	442.3	0.0013	mg/L		
1	Be 313.107	297.1	711.3	0.0003	mg/L		
1	Ca 227.547	334.5	51.1	0.1954	mg/L		
1	Cd 228.802	100.9	11.1	0.0001	mg/L		
1	Co 228.616	-207.3	209.4	0.0020	mg/L		
1	Cr 267.716	-67.9	91.9	0.0010	mg/L		
1	Cu 324.754	2705.4	418.5	0.0013	mg/L		
1	Fe 273.955	3680.9	691.1	0.0139	mg/L		
1	Mg 279.079	244.8	-351.3	-0.0111	mg/L		
1	Mn 257.610	2864.3	1743.6	0.0011	mg/L		
1	Mo 202.030	-1.1	27.4	0.0015	mg/L		
1	Ni 231.604	454.7	179.5	0.0035	mg/L		
1	Pb 220.353	181.3	-3.6	-0.0002	mg/L		
1	Sb 206.833	70.9	10.3	0.0025	mg/L		
1	Se 196.026	72.0	-12.3	-0.0045	mg/L		
1	Tl 190.800	188.1	-0.5	-0.0001	mg/L		
1	V 292.402	235.4	72.7	0.0007	mg/L		
1	Zn 213.856	-115.7	467.7	0.0044	mg/L		
2	Ag 328.068	-916.1	157.9	0.0008	mg/L		
2	Al 308.215	5067.1	469.5	0.0129	mg/L		
2	As 188.979	73.2	3.8	0.0015	mg/L		
2	Ba 233.527	-618.3	247.3	0.0007	mg/L		
2	Be 313.107	79.6	493.8	0.0002	mg/L		
2	Ca 227.547	169.9	-113.5	-0.4342	mg/L		
2	Cd 228.802	110.3	20.6	0.0002	mg/L		
2	Co 228.616	-271.7	145.0	0.0014	mg/L		
2	Cr 267.716	-158.0	1.7	0.0000	mg/L		
2	Cu 324.754	2511.5	224.6	0.0007	mg/L		
2	Fe 273.955	3506.6	516.8	0.0104	mg/L		
2	Mg 279.079	213.2	-383.0	-0.0121	mg/L		
2	Mn 257.610	2691.5	1570.8	0.0010	mg/L		
2	Mo 202.030	-14.6	14.0	0.0007	mg/L		
2	Ni 231.604	497.9	222.7	0.0044	mg/L		
2	Pb 220.353	188.5	3.6	0.0002	mg/L		
2	Sb 206.833	72.8	12.1	0.0029	mg/L		
2	Se 196.026	90.1	5.9	0.0021	mg/L		
2	Tl 190.800	195.8	7.2	0.0021	mg/L		
2	V 292.402	271.8	109.0	0.0010	mg/L		
2	Zn 213.856	-216.5	366.9	0.0035	mg/L		
3	Ag 328.068	-1151.4	-77.4	-0.0004	mg/L		
3	Al 308.215	4927.1	329.6	0.0090	mg/L		
3	As 188.979	73.3	3.9	0.0015	mg/L		
3	Ba 233.527	-813.2	52.4	0.0001	mg/L		
3	Be 313.107	-38.9	375.3	0.0001	mg/L		
3	Ca 227.547	248.0	-35.4	-0.1355	mg/L		
3	Cd 228.802	106.7	17.0	0.0001	mg/L		
3	Co 228.616	-170.7	246.0	0.0023	mg/L		
3	Cr 267.716	-97.5	62.3	0.0007	mg/L		
3	Cu 324.754	2526.0	239.1	0.0008	mg/L		
3	Fe 273.955	3274.6	284.7	0.0057	mg/L		
3	Mg 279.079	160.0	-436.1	-0.0137	mg/L		
3	Mn 257.610	2491.7	1371.0	0.0009	mg/L		
3	Mo 202.030	-18.8	9.7	0.0005	mg/L		
3	Ni 231.604	389.6	114.4	0.0023	mg/L		
3	Pb 220.353	192.3	7.4	0.0005	mg/L		
3	Sb 206.833	65.6	4.9	0.0012	mg/L		

3 Se 196.026	74.4	-9.9	-0.0036	mg/L
3 Tl 190.800	183.8	-4.7	-0.0014	mg/L
3 V 292.402	219.3	56.5	0.0005	mg/L
3 Zn 213.856	-271.4	312.0	0.0029	mg/L

Mean Data

ID: CCB Seq. No.: 51 Sample No.: 6 A/S Pos: 1
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 1:56:21 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	25.0	0.0001	0.00060	mg/L				482.39%
Al 308.215	449.3	0.0123	0.00304	mg/L				24.71%
As 188.979	2.1	0.0008	0.00118	mg/L				148.45%
Ba 233.527	247.4	0.0007	0.00055	mg/L				78.81%
Be 313.107	526.8	0.0002	0.00006	mg/L				32.35%
Ca 227.547	-32.6	-0.1248	0.31495	mg/L				252.45%
Cd 228.802	16.2	0.0001	0.00004	mg/L				29.34%
Co 228.616	200.1	0.0019	0.00048	mg/L				25.53%
Cr 267.716	52.0	0.0006	0.00051	mg/L				88.42%
Cu 324.754	294.1	0.0009	0.00034	mg/L				36.72%
Fe 273.955	497.5	0.0100	0.00409	mg/L				40.97%
Mg 279.079	-390.1	-0.0123	0.00135	mg/L				10.98%
Mn 257.610	1561.8	0.0010	0.00012	mg/L				11.94%
Mo 202.030	17.0	0.0009	0.00049	mg/L				54.27%
Ni 231.604	172.2	0.0034	0.00108	mg/L				31.67%
Pb 220.353	2.5	0.0002	0.00037	mg/L				222.48%
Sb 206.833	9.1	0.0022	0.00090	mg/L				41.09%
Se 196.026	-5.4	-0.0020	0.00357	mg/L				181.39%
Tl 190.800	0.7	0.0002	0.00176	mg/L				882.35%
V 292.402	79.4	0.0007	0.00024	mg/L				33.86%
Zn 213.856	382.2	0.0036	0.00074	mg/L				20.66%

Replicate Data

ID: 6148-2 F=50 Date: 11/21/02 1:59:32 PM

Repl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1 Ag 328.068	-2666.0	-1592.0	-0.0079	mg/L	-0.3946	ppm
1 Al 308.215	5294836.7	5290239.1	145.0	mg/L	7250	ppm
1 As 188.979	222.6	153.2	0.0829	mg/L	4.143	ppm
1 Ba 233.527	235910.6	236776.2	0.6702	mg/L	33.51	ppm
1 Be 313.107	7507.6	7921.8	0.0029	mg/L	0.1429	ppm
1 Ca 227.547	207065.1	206781.6	796.2	mg/L	39810	ppm
1 Cd 228.802	334.3	244.6	0.0019	mg/L	0.0965	ppm
1 Co 228.616	10746.7	11163.4	0.1055	mg/L	5.276	ppm
1 Cr 267.716	22488.8	22648.6	0.2445	mg/L	12.22	ppm
1 Cu 324.754	43551.5	41264.5	0.1406	mg/L	7.029	ppm
1 Fe 273.955	12006332.4	12003342.5	241.1	mg/L	12050	ppm
1 Mg 279.079	3202354.2	3201758.0	100.8	mg/L	5040	ppm
1 Mn 257.610	4294621.0	4293500.2	2.705	mg/L	135.3	ppm
1 Mo 202.030	84.2	112.7	-0.0034	mg/L	-0.1693	ppm
1 Ni 231.604	10026.7	9751.5	0.1927	mg/L	9.634	ppm
1 Pb 220.353	1456.1	1271.2	0.0943	mg/L	4.713	ppm
1 Sb 206.833	97.3	36.7	-0.0127	mg/L	-0.6358	ppm
1 Se 196.026	-67.1	-151.4	0.0070	mg/L	0.3524	ppm
1 Tl 190.800	309.1	120.6	-0.0235	mg/L	-1.176	ppm
1 V 292.402	53777.0	53614.3	0.4808	mg/L	24.04	ppm
1 Zn 213.856	193311.7	193895.1	1.803	mg/L	90.16	ppm
2 Ag 328.068	-2357.0	-1283.0	-0.0064	mg/L	-0.3180	ppm
2 Al 308.215	5486411.7	5481814.1	150.2	mg/L	7512	ppm
2 As 188.979	197.5	128.1	0.0732	mg/L	3.658	ppm
2 Ba 233.527	234695.7	235561.3	0.6668	mg/L	33.34	ppm
2 Be 313.107	7303.6	7717.8	0.0028	mg/L	0.1393	ppm
2 Ca 227.547	205860.1	205576.7	791.8	mg/L	39590	ppm
2 Cd 228.802	328.7	238.9	0.0019	mg/L	0.0943	ppm
2 Co 228.616	11033.5	11450.2	0.1082	mg/L	5.412	ppm
2 Cr 267.716	23169.4	23329.2	0.2518	mg/L	12.59	ppm
2 Cu 324.754	43716.1	41429.2	0.1414	mg/L	7.072	ppm

2	Fe 273.955	12375753.9	12372764.0	248.5	mg/L	12420 ppm
2	Mg 279.079	3178710.1	3178113.9	100.1	mg/L	5003 ppm
2	Mn 257.610	4269323.8	4268203.1	2.689	mg/L	134.5 ppm
2	Mo 202.030	119.2	147.7	-0.0018	mg/L	-0.0911 ppm
2	Ni 231.604	10096.8	9821.6	0.1941	mg/L	9.704 ppm
2	Pb 220.353	1495.3	1310.4	0.0971	mg/L	4.855 ppm
2	Sb 206.833	98.0	37.4	-0.0132	mg/L	-0.6618 ppm
2	Se 196.026	-92.0	-176.3	-0.0002	mg/L	-0.0078 ppm
2	Tl 190.800	354.8	166.3	-0.0121	mg/L	-0.6034 ppm
2	V 292.402	53441.6	53278.9	0.4778	mg/L	23.89 ppm
2	Zn 213.856	192309.1	192892.5	1.793	mg/L	89.65 ppm
3	Ag 328.068	-2563.7	-1489.8	-0.0074	mg/L	-0.3693 ppm
3	Al 308.215	5611901.2	5607303.6	153.7	mg/L	7684 ppm
3	As 188.979	209.2	139.8	0.0778	mg/L	3.890 ppm
3	Ba 233.527	235923.1	236788.7	0.6703	mg/L	33.51 ppm
3	Be 313.107	7468.5	7882.7	0.0028	mg/L	0.1422 ppm
3	Ca 227.547	208372.2	208088.8	801.4	mg/L	40070 ppm
3	Cd 228.802	271.4	181.6	0.0014	mg/L	0.0717 ppm
3	Co 228.616	10626.6	11043.3	0.1044	mg/L	5.220 ppm
3	Cr 267.716	22439.6	22599.4	0.2436	mg/L	12.18 ppm
3	Cu 324.754	44099.9	41812.9	0.1428	mg/L	7.141 ppm
3	Fe 273.955	12568453.2	12565463.3	252.3	mg/L	12620 ppm
3	Mg 279.079	3197331.8	3196735.7	100.7	mg/L	5033 ppm
3	Mn 257.610	4315907.7	4314787.0	2.718	mg/L	135.9 ppm
3	Mo 202.030	51.8	80.3	-0.0055	mg/L	-0.2771 ppm
3	Ni 231.604	9730.4	9455.2	0.1868	mg/L	9.342 ppm
3	Pb 220.353	1484.7	1299.8	0.0966	mg/L	4.830 ppm
3	Sb 206.833	148.1	87.5	-0.0013	mg/L	-0.0641 ppm
3	Se 196.026	-114.4	-198.7	-0.0074	mg/L	-0.3690 ppm
3	Tl 190.800	310.5	121.9	-0.0260	mg/L	-1.302 ppm
3	V 292.402	54390.5	54227.7	0.4863	mg/L	24.32 ppm
3	Zn 213.856	194970.8	195554.2	1.818	mg/L	90.88 ppm

an Data ----------

): 6148-2 F=50 Seq. No.: 52 Sample No.: 34 A/S Pos: 42

Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 1:59:32 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-1454.9	-0.0072	0.00078	mg/L	-0.3606	0.03901	ppm	10.82%
308.215	5459785.6	149.6	4.38	mg/L	7482	218.8	ppm	2.92%
188.979	140.4	0.0779	0.00485	mg/L	3.897	0.2424	ppm	6.22%
Ba 233.527	236375.4	0.6691	0.00200	mg/L	33.46	0.100	ppm	0.30%
Be 313.107	7840.8	0.0028	0.00004	mg/L	0.1415	0.00195	ppm	1.38%
227.547	206815.7	796.5	4.85	mg/L	39820	242.6	ppm	0.61%
228.802	221.7	0.0017	0.00027	mg/L	0.0875	0.01374	ppm	15.71%
Co 228.616	11219.0	0.1061	0.00198	mg/L	5.303	0.0988	ppm	1.86%
Cr 267.716	22859.1	0.2466	0.00450	mg/L	12.33	0.225	ppm	1.82%
Cu 324.754	41502.2	0.1416	0.00113	mg/L	7.080	0.0565	ppm	0.80%
273.955	12313856.6	247.3	5.74	mg/L	12360	286.8	ppm	2.32%
Mg 279.079	3192202.5	100.5	0.39	mg/L	5025	19.6	ppm	0.39%
Mn 257.610	4292163.4	2.704	0.0147	mg/L	135.2	0.73	ppm	0.54%
Mo 202.030	113.6	-0.0036	0.00187	mg/L	-0.1792	0.09338	ppm	52.11%
231.604	9676.1	0.1912	0.00384	mg/L	9.560	0.1921	ppm	2.01%
Pb 220.353	1293.8	0.0960	0.00152	mg/L	4.800	0.0758	ppm	1.58%
Sb 206.833	53.9	-0.0091	0.00676	mg/L	-0.4539	0.33784	ppm	74.43%
Se 196.026	-175.5	-0.0002	0.00721	mg/L	-0.0082	0.36071	ppm	>999.9%
190.800	136.3	-0.0205	0.00744	mg/L	-1.027	0.3721	ppm	36.24%
292.402	53707.0	0.4817	0.00432	mg/L	24.08	0.216	ppm	0.90%
Zn 213.856	194113.9	1.805	0.0124	mg/L	90.23	0.620	ppm	0.69%

plicate Data ----------

): 6148-3 F=50 Date: 11/21/02 2:02:33 PM

pl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1200.0	-126.0	-0.0006	mg/L	-0.0312	ppm
1	Al 308.215	1971417.0	1966819.4	53.91	mg/L	2695	ppm
1	As 188.979	28.9	-40.6	0.0456	mg/L	2.279	ppm

1 Ba 233.527	145721.6	146587.2	0.4149	mg/L	20.75 ppm
1 Be 313.107	1302.7	1716.9	0.0006	mg/L	0.0310 ppm
1 Ca 227.547	618694.3	618410.8	2365	mg/L	118300 ppm
1 Cd 228.802	394.1	304.4	0.0024	mg/L	0.1201 ppm
1 Co 228.616	2647.9	3064.6	0.0290	mg/L	1.448 ppm
1 Cr 267.716	9983.1	10142.9	0.1122	mg/L	5.608 ppm
1 Cu 324.754	12813.2	10526.2	0.0330	mg/L	1.652 ppm
1 Fe 273.955	3333917.2	3330927.4	66.89	mg/L	3345 ppm
1 Mg 279.079	2200331.9	2199735.8	69.26	mg/L	3463 ppm
1 Mn 257.610	2191372.8	2190252.1	1.380	mg/L	69.00 ppm
1 Mo 202.030	-74.8	-46.3	-0.0025	mg/L	-0.1226 ppm
1 Ni 231.604	3259.0	2983.8	0.0590	mg/L	2.948 ppm
1 Pb 220.353	478.1	293.2	0.0310	mg/L	1.552 ppm
1 Sb 206.833	88.3	27.7	0.0007	mg/L	0.0353 ppm
1 Se 196.026	33.3	-50.9	-0.0023	mg/L	-0.1137 ppm
1 Tl 190.800	272.3	83.8	0.0090	mg/L	0.4495 ppm
1 V 292.402	16069.9	15907.1	0.1427	mg/L	7.133 ppm
1 Zn 213.856	50855.7	51439.1	0.4781	mg/L	23.90 ppm
2 Ag 328.068	-1227.4	-153.4	-0.0008	mg/L	-0.0380 ppm
2 Al 308.215	1901842.0	1897244.4	52.00	mg/L	2600 ppm
2 As 188.979	22.0	-47.4	0.0409	mg/L	2.046 ppm
2 Ba 233.527	144513.0	145378.6	0.4115	mg/L	20.58 ppm
2 Be 313.107	1021.1	1435.3	0.0005	mg/L	0.0259 ppm
2 Ca 227.547	598034.8	597751.3	2286	mg/L	114300 ppm
2 Cd 228.802	394.0	304.2	0.0024	mg/L	0.1201 ppm
2 Co 228.616	2671.0	3087.7	0.0292	mg/L	1.459 ppm
2 Cr 267.716	10166.7	10326.5	0.1142	mg/L	5.709 ppm
2 Cu 324.754	12762.6	10475.7	0.0329	mg/L	1.644 ppm
2 Fe 273.955	3216782.1	3213792.3	64.54	mg/L	3227 ppm
2 Mg 279.079	2126005.5	2125409.3	66.92	mg/L	3346 ppm
2 Mn 257.610	2124324.3	2123203.6	1.338	mg/L	66.88 ppm
2 Mo 202.030	-83.2	-54.7	-0.0029	mg/L	-0.1449 ppm
2 Ni 231.604	3288.3	3013.1	0.0595	mg/L	2.977 ppm
2 Pb 220.353	471.1	286.2	0.0302	mg/L	1.509 ppm
2 Sb 206.833	92.9	32.2	0.0018	mg/L	0.0911 ppm
2 Se 196.026	37.4	-46.9	-0.0014	mg/L	-0.0692 ppm
2 Tl 190.800	274.3	85.8	0.0101	mg/L	0.5050 ppm
2 V 292.402	15969.1	15806.4	0.1418	mg/L	7.088 ppm
2 Zn 213.856	51206.7	51790.1	0.4816	mg/L	24.08 ppm
3 Ag 328.068	-1414.5	-340.6	-0.0017	mg/L	-0.0844 ppm
3 Al 308.215	1912389.7	1907792.1	52.29	mg/L	2614 ppm
3 As 188.979	18.7	-50.8	0.0395	mg/L	1.976 ppm
3 Ba 233.527	146596.1	147461.7	0.4174	mg/L	20.87 ppm
3 Be 313.107	1231.3	1645.5	0.0006	mg/L	0.0297 ppm
3 Ca 227.547	597117.7	596834.2	2283	mg/L	114100 ppm
3 Cd 228.802	405.7	316.0	0.0025	mg/L	0.1247 ppm
3 Co 228.616	2647.6	3064.3	0.0290	mg/L	1.448 ppm
3 Cr 267.716	10312.5	10472.3	0.1158	mg/L	5.790 ppm
3 Cu 324.754	13113.1	10826.2	0.0340	mg/L	1.699 ppm
3 Fe 273.955	3237622.8	3234632.9	64.96	mg/L	3248 ppm
3 Mg 279.079	2128281.8	2127685.6	66.99	mg/L	3350 ppm
3 Mn 257.610	2121337.6	2120216.9	1.336	mg/L	66.79 ppm
3 Mo 202.030	-79.8	-51.3	-0.0027	mg/L	-0.1359 ppm
3 Ni 231.604	3301.2	3026.0	0.0598	mg/L	2.990 ppm
3 Pb 220.353	496.0	311.1	0.0319	mg/L	1.593 ppm
3 Sb 206.833	93.8	33.2	0.0020	mg/L	0.0995 ppm
3 Se 196.026	45.1	-39.2	0.0015	mg/L	0.0764 ppm
3 Tl 190.800	263.7	75.2	0.0069	mg/L	0.3461 ppm
3 V 292.402	16325.4	16162.6	0.1450	mg/L	7.248 ppm
3 Zn 213.856	51554.3	52137.6	0.4849	mg/L	24.24 ppm

ean Data ----------

D: 6148-3 F=50 Seq. No.: 53 Sample No.: 35 A/S Pos: 43
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:02:33 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
g 328.068	-206.7	-0.0010	0.00058	mg/L	-0.0512	0.02894	ppm	56.51%
l 308.215	1923952.0	52.73	1.028	mg/L	2637	51.4	ppm	1.95%

s 188.979	-46.2	0.0420	0.00317 mg/L	2.100	0.1585 ppm	7.55%
a 233.527	146475.8	0.4146	0.00296 mg/L	20.73	0.148 ppm	0.71%
e 313.107	1599.2	0.0006	0.00005 mg/L	0.0289	0.00264 ppm	9.15%
Ca 227.547	604332.1	2311	46.7 mg/L	115600	2333.3 ppm	2.02%
d 228.802	308.2	0.0024	0.00005 mg/L	0.1216	0.00266 ppm	2.19%
o 228.616	3072.2	0.0290	0.00013 mg/L	1.452	0.0063 ppm	0.44%
r 267.716	10313.9	0.1140	0.00183 mg/L	5.702	0.0913 ppm	1.60%
Cu 324.754	10609.4	0.0333	0.00059 mg/L	1.665	0.0297 ppm	1.79%
Fe 273.955	3259784.2	65.46	1.255 mg/L	3273	62.7 ppm	1.92%
g 279.079	2150943.6	67.72	1.331 mg/L	3386	66.5 ppm	1.97%
n 257.610	2144557.5	1.351	0.0249 mg/L	67.56	1.247 ppm	1.85%
Mo 202.030	-50.8	-0.0027	0.00022 mg/L	-0.1345	0.01121 ppm	8.34%
Ni 231.604	3007.7	0.0594	0.00043 mg/L	2.972	0.0214 ppm	0.72%
b 220.353	296.9	0.0310	0.00083 mg/L	1.551	0.0417 ppm	2.69%
b 206.833	31.0	0.0015	0.00070 mg/L	0.0753	0.03488 ppm	46.32%
Se 196.026	-45.7	-0.0007	0.00199 mg/L	-0.0355	0.09948 ppm	280.13%
Tl 190.800	81.6	0.0087	0.00161 mg/L	0.4335	0.08061 ppm	18.59%
292.402	15958.7	0.1431	0.00165 mg/L	7.156	0.0824 ppm	1.15%
n 213.856	51789.0	0.4815	0.00340 mg/L	24.08	0.170 ppm	0.71%

Replicate Data ----------

ID: 6148-4 F=50 Date: 11/21/02 2:06:10 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-1325.1	-251.1	-0.0012	mg/L	-0.0622	ppm
1	Al 308.215	1815884.8	1811287.2	49.64	mg/L	2482	ppm
1	As 188.979	1.3	-68.1	0.0295	mg/L	1.473	ppm
1	Ba 233.527	149944.5	150810.1	0.4269	mg/L	21.34	ppm
1	Be 313.107	1638.5	2052.7	0.0007	mg/L	0.0370	ppm
1	Ca 227.547	564492.1	564208.7	2158	mg/L	107900	ppm
1	Cd 228.802	407.2	317.5	0.0025	mg/L	0.1253	ppm
1	Co 228.616	2413.3	2830.0	0.0268	mg/L	1.338	ppm
1	Cr 267.716	10247.1	10406.9	0.1151	mg/L	5.754	ppm
1	Cu 324.754	10428.8	8141.8	0.0256	mg/L	1.278	ppm
1	Fe 273.955	2855660.5	2852670.6	57.29	mg/L	2864	ppm
1	Mg 279.079	2039058.7	2038462.6	64.18	mg/L	3209	ppm
1	Mn 257.610	2322348.3	2321227.6	1.462	mg/L	73.12	ppm
1	Mo 202.030	-73.6	-45.1	-0.0024	mg/L	-0.1195	ppm
1	Ni 231.604	2959.5	2684.3	0.0530	mg/L	2.652	ppm
1	Pb 220.353	413.5	228.6	0.0257	mg/L	1.287	ppm
1	Sb 206.833	80.6	20.0	-0.0008	mg/L	-0.0423	ppm
1	Se 196.026	43.6	-40.7	-0.0011	mg/L	-0.0568	ppm
1	Tl 190.800	266.1	77.6	0.0090	mg/L	0.4503	ppm
1	V 292.402	12099.7	11936.9	0.1071	mg/L	5.353	ppm
1	Zn 213.856	15120.8	15704.2	0.1421	mg/L	7.103	ppm
2	Ag 328.068	-1364.3	-290.3	-0.0014	mg/L	-0.0720	ppm
2	Al 308.215	1825692.0	1821094.4	49.91	mg/L	2496	ppm
2	As 188.979	15.6	-53.8	0.0358	mg/L	1.790	ppm
2	Ba 233.527	146385.7	147251.4	0.4168	mg/L	20.84	ppm
2	Be 313.107	1516.2	1930.5	0.0007	mg/L	0.0348	ppm
2	Ca 227.547	573226.4	572942.9	2191	mg/L	109600	ppm
2	Cd 228.802	420.3	330.5	0.0026	mg/L	0.1304	ppm
2	Co 228.616	2379.6	2796.3	0.0264	mg/L	1.322	ppm
2	Cr 267.716	10098.4	10258.2	0.1134	mg/L	5.672	ppm
2	Cu 324.754	10391.8	8104.8	0.0254	mg/L	1.272	ppm
2	Fe 273.955	2854860.3	2851870.4	57.27	mg/L	2864	ppm
2	Mg 279.079	2054218.9	2053622.8	64.66	mg/L	3233	ppm
2	Mn 257.610	2345025.8	2343905.1	1.477	mg/L	73.84	ppm
2	Mo 202.030	-86.2	-57.7	-0.0031	mg/L	-0.1527	ppm
2	Ni 231.604	2965.0	2689.7	0.0531	mg/L	2.657	ppm
2	Pb 220.353	411.5	226.6	0.0257	mg/L	1.287	ppm
2	Sb 206.833	93.3	32.7	0.0022	mg/L	0.1117	ppm
2	Se 196.026	34.8	-49.5	-0.0043	mg/L	-0.2169	ppm
2	Tl 190.800	284.1	95.5	0.0142	mg/L	0.7116	ppm
2	V 292.402	11820.1	11657.4	0.1046	mg/L	5.228	ppm
2	Zn 213.856	15083.3	15666.7	0.1417	mg/L	7.085	ppm
3	Ag 328.068	-1325.6	-251.6	-0.0012	mg/L	-0.0624	ppm
3	Al 308.215	1799818.7	1795221.1	49.20	mg/L	2460	ppm

3	As 188.979	14.4	-55.0	0.0346	mg/L	1.728 ppm
3	Ba 233.527	146957.7	147823.3	0.4184	mg/L	20.92 ppm
3	Be 313.107	1521.5	1935.7	0.0007	mg/L	0.0349 ppm
3	Ca 227.547	565297.3	565013.9	2161	mg/L	108000 ppm
3	Cd 228.802	404.8	315.1	0.0025	mg/L	0.1243 ppm
3	Co 228.616	2419.8	2836.5	0.0268	mg/L	1.341 ppm
3	Cr 267.716	10145.3	10305.1	0.1139	mg/L	5.697 ppm
3	Cu 324.754	10598.6	8311.7	0.0261	mg/L	1.305 ppm
3	Fe 273.955	2821158.1	2818168.2	56.59	mg/L	2830 ppm
3	Mg 279.079	2026794.9	2026198.8	63.80	mg/L	3190 ppm
3	Mn 257.610	2319782.5	2318661.8	1.461	mg/L	73.04 ppm
3	Mo 202.030	-89.0	-60.5	-0.0032	mg/L	-0.1602 ppm
3	Ni 231.604	2990.0	2714.8	0.0536	mg/L	2.682 ppm
3	Pb 220.353	425.4	240.5	0.0265	mg/L	1.326 ppm
3	Sb 206.833	100.4	39.7	0.0039	mg/L	0.1970 ppm
3	Se 196.026	34.4	-49.9	-0.0046	mg/L	-0.2320 ppm
3	Tl 190.800	266.9	78.3	0.0094	mg/L	0.4703 ppm
3	V 292.402	11775.1	11612.4	0.1041	mg/L	5.207 ppm
3	Zn 213.856	15235.6	15819.0	0.1432	mg/L	7.161 ppm

Mean Data ----------

ID: 6148-4 F=50 Seq. No.: 54 Sample No.: 36 A/S Pos: 44

Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 2:06:10 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-264.4	-0.0013	0.00011	mg/L	-0.0655	0.00557	ppm	8.50%
Al 308.215	1809200.9	49.59	0.358	mg/L	2479	17.9	ppm	0.72%
As 188.979	-59.0	0.0333	0.00336	mg/L	1.664	0.1681	ppm	10.10%
Ba 233.527	148628.3	0.4207	0.00541	mg/L	21.04	0.270	ppm	1.29%
Be 313.107	1972.9	0.0007	0.00002	mg/L	0.0356	0.00125	ppm	3.50%
Ca 227.547	567388.5	2170	18.5	mg/L	108500	923.1	ppm	0.85%
Cd 228.802	321.0	0.0025	0.00007	mg/L	0.1267	0.00328	ppm	2.59%
Co 228.616	2820.9	0.0267	0.00020	mg/L	1.333	0.0102	ppm	0.76%
Cr 267.716	10323.4	0.1142	0.00084	mg/L	5.708	0.0420	ppm	0.74%
Cu 324.754	8186.1	0.0257	0.00035	mg/L	1.285	0.0173	ppm	1.35%
Fe 273.955	2840903.1	57.05	0.395	mg/L	2853	19.8	ppm	0.69%
Mg 279.079	2039428.0	64.21	0.433	mg/L	3211	21.6	ppm	0.67%
Mn 257.610	2327931.5	1.467	0.0088	mg/L	73.33	0.438	ppm	0.60%
Mo 202.030	-54.4	-0.0029	0.00043	mg/L	-0.1441	0.02168	ppm	15.04%
Ni 231.604	2696.3	0.0533	0.00032	mg/L	2.664	0.0161	ppm	0.60%
Pb 220.353	231.9	0.0260	0.00045	mg/L	1.300	0.0227	ppm	1.75%
Sb 206.833	30.8	0.0018	0.00243	mg/L	0.0888	0.12128	ppm	136.53%
Se 196.026	-46.7	-0.0034	0.00194	mg/L	-0.1686	0.09711	ppm	57.60%
Tl 190.800	83.8	0.0109	0.00291	mg/L	0.5441	0.14545	ppm	26.73%
V 292.402	11735.6	0.1053	0.00158	mg/L	5.263	0.0788	ppm	1.50%
Zn 213.856	15730.0	0.1423	0.00079	mg/L	7.116	0.0394	ppm	0.55%

Replicate Data ----------

ID: 6148-5 F=50 Date: 11/21/02 2:09:47 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1446.2	-372.3	-0.0018	mg/L	-0.0923	ppm
1	Al 308.215	1493848.8	1489251.2	40.82	mg/L	2041	ppm
1	As 188.979	15.2	-54.2	0.0379	mg/L	1.895	ppm
1	Ba 233.527	145260.2	146125.8	0.4136	mg/L	20.68	ppm
1	Be 313.107	1009.1	1423.3	0.0005	mg/L	0.0257	ppm
1	Ca 227.547	591533.6	591250.2	2261	mg/L	113100	ppm
1	Cd 228.802	396.6	306.9	0.0024	mg/L	0.1211	ppm
1	Co 228.616	2019.9	2436.6	0.0230	mg/L	1.152	ppm
1	Cr 267.716	8259.0	8418.7	0.0931	mg/L	4.655	ppm
1	Cu 324.754	13895.2	11608.3	0.0364	mg/L	1.822	ppm
1	Fe 273.955	2765092.9	2762103.1	55.47	mg/L	2773	ppm
1	Mg 279.079	2210426.2	2209830.1	69.58	mg/L	3479	ppm
1	Mn 257.610	2043790.4	2042669.7	1.287	mg/L	64.35	ppm
1	Mo 202.030	-78.8	-50.3	-0.0027	mg/L	-0.1331	ppm
1	Ni 231.604	3135.9	2860.7	0.0565	mg/L	2.826	ppm
1	Pb 220.353	613.2	428.3	0.0390	mg/L	1.949	ppm
1	Sb 206.833	89.6	29.0	0.0020	mg/L	0.1010	ppm

1	Se 196.026	36.7	-47.6	-0.0036	mg/L	-0.1780 ppm
1	Tl 190.800	274.7	86.2	0.0130	mg/L	0.6511 ppm
1	V 292.402	13302.4	13139.7	0.1178	mg/L	5.892 ppm
1	Zn 213.856	20321.7	20905.1	0.1913	mg/L	9.565 ppm
2	Ag 328.068	-1286.7	-212.7	-0.0011	mg/L	-0.0527 ppm
2	Al 308.215	1517795.1	1513197.5	41.47	mg/L	2074 ppm
2	As 188.979	11.9	-57.5	0.0379	mg/L	1.897 ppm
2	Ba 233.527	143494.3	144359.9	0.4086	mg/L	20.43 ppm
2	Be 313.107	1241.5	1655.7	0.0006	mg/L	0.0299 ppm
2	Ca 227.547	604752.5	604469.0	2312	mg/L	115600 ppm
2	Cd 228.802	406.2	316.5	0.0025	mg/L	0.1249 ppm
2	Co 228.616	2004.8	2421.5	0.0229	mg/L	1.145 ppm
2	Cr 267.716	8046.4	8206.1	0.0907	mg/L	4.537 ppm
2	Cu 324.754	13639.1	11352.2	0.0356	mg/L	1.782 ppm
2	Fe 273.955	2797423.2	2794433.4	56.12	mg/L	2806 ppm
2	Mg 279.079	2245318.0	2244721.9	70.68	mg/L	3534 ppm
2	Mn 257.610	2076916.6	2075795.9	1.308	mg/L	65.39 ppm
2	Mo 202.030	-82.8	-54.3	-0.0029	mg/L	-0.1438 ppm
2	Ni 231.604	3110.2	2835.0	0.0560	mg/L	2.801 ppm
2	Pb 220.353	609.1	424.2	0.0389	mg/L	1.947 ppm
2	Sb 206.833	76.7	16.1	-0.0010	mg/L	-0.0509 ppm
2	Se 196.026	45.0	-39.2	-0.0004	mg/L	-0.0184 ppm
2	Tl 190.800	274.7	86.2	0.0129	mg/L	0.6452 ppm
2	V 292.402	13048.8	12886.1	0.1156	mg/L	5.779 ppm
2	Zn 213.856	20256.4	20839.8	0.1906	mg/L	9.531 ppm
3	Ag 328.068	-1250.2	-176.2	-0.0009	mg/L	-0.0437 ppm
3	Al 308.215	1527759.1	1523161.5	41.75	mg/L	2087 ppm
3	As 188.979	6.7	-62.8	0.0364	mg/L	1.819 ppm
3	Ba 233.527	142614.5	143480.1	0.4061	mg/L	20.31 ppm
3	Be 313.107	1003.5	1417.7	0.0005	mg/L	0.0256 ppm
3	Ca 227.547	609218.9	608935.4	2329	mg/L	116400 ppm
3	Cd 228.802	411.2	321.5	0.0025	mg/L	0.1269 ppm
3	Co 228.616	2051.6	2468.3	0.0233	mg/L	1.167 ppm
3	Cr 267.716	8111.2	8271.0	0.0915	mg/L	4.573 ppm
3	Cu 324.754	14026.9	11740.0	0.0369	mg/L	1.843 ppm
3	Fe 273.955	2808497.4	2805507.6	56.34	mg/L	2817 ppm
3	Mg 279.079	2254665.1	2254068.9	70.97	mg/L	3549 ppm
3	Mn 257.610	2093768.3	2092647.6	1.318	mg/L	65.92 ppm
3	Mo 202.030	-81.2	-52.7	-0.0028	mg/L	-0.1397 ppm
3	Ni 231.604	3142.3	2867.1	0.0567	mg/L	2.833 ppm
3	Pb 220.353	619.5	434.6	0.0397	mg/L	1.985 ppm
3	Sb 206.833	79.3	18.7	-0.0004	mg/L	-0.0216 ppm
3	Se 196.026	34.5	-49.8	-0.0042	mg/L	-0.2075 ppm
3	Tl 190.800	262.7	74.2	0.0094	mg/L	0.4679 ppm
3	V 292.402	13118.1	12955.4	0.1162	mg/L	5.810 ppm
3	Zn 213.856	20455.3	21038.7	0.1925	mg/L	9.623 ppm

lean Data ----------

D: 6148-5 F=50 Seq. No.: 55 Sample No.: 37 A/S Pos: 45
mple Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:09:47 PM

ement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
328.068	-253.7	-0.0013	0.00052	mg/L	-0.0629	0.02584	ppm	41.09%
308.215	1508536.8	41.35	0.478	mg/L	2067	23.9	ppm	1.16%
188.979	-58.2	0.0374	0.00090	mg/L	1.870	0.0448	ppm	2.40%
233.527	144655.3	0.4095	0.00381	mg/L	20.47	0.191	ppm	0.93%
313.107	1498.9	0.0005	0.00005	mg/L	0.0270	0.00245	ppm	9.06%
227.547	601551.5	2301	35.2	mg/L	115000	1758.7	ppm	1.53%
d 228.802	314.9	0.0025	0.00006	mg/L	0.1243	0.00292	ppm	2.35%
228.616	2442.1	0.0231	0.00023	mg/L	1.154	0.0113	ppm	0.98%
267.716	8298.6	0.0918	0.00120	mg/L	4.588	0.0602	ppm	1.31%
324.754	11566.8	0.0363	0.00062	mg/L	1.815	0.0309	ppm	1.70%
e 273.955	2787348.0	55.98	0.453	mg/L	2799	22.6	ppm	0.81%
g 279.079	2236207.0	70.41	0.734	mg/L	3520	36.7	ppm	1.04%
257.610	2070371.1	1.304	0.0160	mg/L	65.22	0.801	ppm	1.23%
202.030	-52.4	-0.0028	0.00011	mg/L	-0.1389	0.00536	ppm	3.86%
i 231.604	2854.2	0.0564	0.00034	mg/L	2.820	0.0168	ppm	0.59%
b 220.353	429.0	0.0392	0.00043	mg/L	1.960	0.0214	ppm	1.09%

Sb 206.833	21.3	0.0002	0.00161 mg/L	0.0095	0.08060 ppm	848.52%
Se 196.026	-45.5	-0.0027	0.00204 mg/L	-0.1346	0.10176 ppm	75.60%
Tl 190.800	82.2	0.0118	0.00208 mg/L	0.5881	0.10411 ppm	17.70%
V 292.402	12993.7	0.1165	0.00118 mg/L	5.827	0.0588 ppm	1.01%
Zn 213.856	20927.8	0.1915	0.00094 mg/L	9.573	0.0468 ppm	0.49%

Replicate Data ----------
ID: 6148-6 F=50 Date: 11/21/02 2:13:25 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1246.5	-172.5	-0.0009	mg/L	-0.0428	ppm
1	Al 308.215	1408238.5	1403640.9	38.47	mg/L	1924	ppm
1	As 188.979	9.3	-60.1	0.0351	mg/L	1.754	ppm
1	Ba 233.527	147831.0	148696.6	0.4209	mg/L	21.05	ppm
1	Be 313.107	1449.4	1863.6	0.0007	mg/L	0.0336	ppm
1	Ca 227.547	586128.7	585845.2	2241	mg/L	112000	ppm
1	Cd 228.802	361.3	271.5	0.0021	mg/L	0.1072	ppm
1	Co 228.616	1949.6	2366.3	0.0224	mg/L	1.118	ppm
1	Cr 267.716	7227.7	7387.5	0.0817	mg/L	4.084	ppm
1	Cu 324.754	10266.3	7979.4	0.0250	mg/L	1.252	ppm
1	Fe 273.955	2545387.2	2542397.4	51.06	mg/L	2553	ppm
1	Mg 279.079	1975327.7	1974731.5	62.18	mg/L	3109	ppm
1	Mn 257.610	2119095.4	2117974.7	1.334	mg/L	66.72	ppm
1	Mo 202.030	-89.8	-61.3	-0.0032	mg/L	-0.1624	ppm
1	Ni 231.604	2415.0	2139.8	0.0423	mg/L	2.114	ppm
1	Pb 220.353	383.9	199.0	0.0234	mg/L	1.172	ppm
1	Sb 206.833	77.3	16.6	-0.0004	mg/L	-0.0214	ppm
1	Se 196.026	33.8	-50.5	-0.0057	mg/L	-0.2873	ppm
1	Tl 190.800	263.2	74.7	0.0109	mg/L	0.5442	ppm
1	V 292.402	11735.3	11572.6	0.1038	mg/L	5.190	ppm
1	Zn 213.856	17536.9	18120.3	0.1655	mg/L	8.275	ppm
2	Ag 328.068	-1225.3	-151.4	-0.0008	mg/L	-0.0375	ppm
2	Al 308.215	1416802.2	1412204.6	38.71	mg/L	1935	ppm
2	As 188.979	10.4	-59.0	0.0349	mg/L	1.747	ppm
2	Ba 233.527	149061.8	149927.4	0.4244	mg/L	21.22	ppm
2	Be 313.107	1635.9	2050.1	0.0007	mg/L	0.0370	ppm
2	Ca 227.547	580646.7	580363.2	2220	mg/L	111000	ppm
2	Cd 228.802	382.7	292.9	0.0023	mg/L	0.1156	ppm
2	Co 228.616	1895.2	2311.9	0.0219	mg/L	1.093	ppm
2	Cr 267.716	7334.3	7494.1	0.0829	mg/L	4.143	ppm
2	Cu 324.754	10449.6	8162.7	0.0256	mg/L	1.281	ppm
2	Fe 273.955	2557895.8	2554906.0	51.31	mg/L	2565	ppm
2	Mg 279.079	1961162.1	1960566.0	61.73	mg/L	3086	ppm
2	Mn 257.610	2095944.5	2094823.8	1.320	mg/L	65.99	ppm
2	Mo 202.030	-85.2	-56.7	-0.0030	mg/L	-0.1501	ppm
2	Ni 231.604	2359.9	2084.7	0.0412	mg/L	2.060	ppm
2	Pb 220.353	397.2	212.3	0.0243	mg/L	1.214	ppm
2	Sb 206.833	94.2	33.6	0.0036	mg/L	0.1789	ppm
2	Se 196.026	46.9	-37.3	-0.0009	mg/L	-0.0463	ppm
2	Tl 190.800	273.6	85.1	0.0138	mg/L	0.6902	ppm
2	V 292.402	11790.3	11627.6	0.1043	mg/L	5.214	ppm
2	Zn 213.856	17636.7	18220.0	0.1664	mg/L	8.321	ppm
3	Ag 328.068	-1218.8	-144.8	-0.0007	mg/L	-0.0359	ppm
3	Al 308.215	1389980.2	1385382.7	37.97	mg/L	1899	ppm
3	As 188.979	13.9	-55.6	0.0358	mg/L	1.791	ppm
3	Ba 233.527	148921.4	149787.0	0.4240	mg/L	21.20	ppm
3	Be 313.107	1524.8	1939.0	0.0007	mg/L	0.0350	ppm
3	Ca 227.547	576269.8	575986.4	2203	mg/L	110100	ppm
3	Cd 228.802	355.5	265.7	0.0021	mg/L	0.1049	ppm
3	Co 228.616	1900.8	2317.5	0.0219	mg/L	1.095	ppm
3	Cr 267.716	7323.2	7482.9	0.0827	mg/L	4.137	ppm
3	Cu 324.754	10240.5	7953.5	0.0250	mg/L	1.248	ppm
3	Fe 273.955	2508774.4	2505784.5	50.32	mg/L	2516	ppm
3	Mg 279.079	1941258.3	1940662.2	61.10	mg/L	3055	ppm
3	Mn 257.610	2075270.7	2074150.0	1.307	mg/L	65.34	ppm
3	Mo 202.030	-96.2	-67.7	-0.0036	mg/L	-0.1793	ppm
3	Ni 231.604	2356.0	2080.7	0.0411	mg/L	2.056	ppm
3	Pb 220.353	379.9	195.0	0.0230	mg/L	1.151	ppm

3 Sb 206.833	88.3	27.7	0.0042 mg/L	0.2104 ppm
3 Se 196.026	58.8	-25.5	0.0031 mg/L	0.1573 ppm
3 Tl 190.800	262.1	73.5	0.0107 mg/L	0.5343 ppm
3 V 292.402	11641.7	11479.0	0.1030 mg/L	5.148 ppm
3 Zn 213.856	17850.0	18433.4	0.1685 mg/L	8.427 ppm

Mean Data ----------

ID: 6148-6 F=50 Seq. No.: 56 Sample No.: 38 A/S Pos: 46
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:13:25 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-156.2	-0.0008	0.00007	mg/L	-0.0387	0.00359	ppm	9.26%
Al 308.215	1400409.4	38.38	0.375	mg/L	1919	18.8	ppm	0.98%
As 188.979	-58.2	0.0353	0.00047	mg/L	1.764	0.0237	ppm	1.34%
Ba 233.527	149470.3	0.4231	0.00191	mg/L	21.16	0.095	ppm	0.45%
Be 313.107	1950.9	0.0007	0.00003	mg/L	0.0352	0.00169	ppm	4.81%
Ca 227.547	580731.6	2221	18.9	mg/L	111100	944.6	ppm	0.85%
Cd 228.802	276.7	0.0022	0.00011	mg/L	0.1092	0.00565	ppm	5.17%
Co 228.616	2331.9	0.0220	0.00028	mg/L	1.102	0.0141	ppm	1.28%
Cr 267.716	7454.8	0.0824	0.00065	mg/L	4.122	0.0324	ppm	0.79%
Cu 324.754	8031.9	0.0252	0.00036	mg/L	1.261	0.0179	ppm	1.42%
Fe 273.955	2534362.6	50.90	0.513	mg/L	2545	25.6	ppm	1.01%
Mg 279.079	1958653.2	61.67	0.539	mg/L	3083	26.9	ppm	0.87%
Mn 257.610	2095649.5	1.320	0.0138	mg/L	66.02	0.691	ppm	1.05%
Mo 202.030	-61.9	-0.0033	0.00029	mg/L	-0.1639	0.01464	ppm	8.93%
Ni 231.604	2101.7	0.0415	0.00065	mg/L	2.077	0.0326	ppm	1.57%
Pb 220.353	202.1	0.0236	0.00064	mg/L	1.179	0.0320	ppm	2.72%
Sb 206.833	26.0	0.0025	0.00251	mg/L	0.1227	0.12572	ppm	102.51%
Se 196.026	-37.8	-0.0012	0.00445	mg/L	-0.0588	0.22254	ppm	378.74%
Tl 190.800	77.8	0.0118	0.00175	mg/L	0.5896	0.08727	ppm	14.80%
V 292.402	11559.7	0.1037	0.00067	mg/L	5.184	0.0337	ppm	0.65%
Zn 213.856	18257.9	0.1668	0.00155	mg/L	8.341	0.0777	ppm	0.93%

Replicate Data ----------

ID: 6148-7 F=50 Date: 11/21/02 2:17:02 PM

Rpl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1 Ag 328.068	-1124.6	-50.7	-0.0003	mg/L	-0.0126	ppm
1 Al 308.215	1461178.7	1456581.1	39.92	mg/L	1996	ppm
1 As 188.979	0.2	-69.3	0.0375	mg/L	1.877	ppm
1 Ba 233.527	159010.5	159876.1	0.4526	mg/L	22.63	ppm
1 Be 313.107	1513.4	1927.6	0.0007	mg/L	0.0348	ppm
1 Ca 227.547	647184.4	646901.0	2474	mg/L	123700	ppm
1 Cd 228.802	426.0	336.3	0.0027	mg/L	0.1327	ppm
1 Co 228.616	1998.4	2415.1	0.0228	mg/L	1.141	ppm
1 Cr 267.716	7721.6	7881.4	0.0871	mg/L	4.357	ppm
1 Cu 324.754	13926.1	11639.2	0.0365	mg/L	1.827	ppm
1 Fe 273.955	2526508.8	2523519.0	50.68	mg/L	2534	ppm
1 Mg 279.079	2148945.0	2148348.9	67.64	mg/L	3382	ppm
1 Mn 257.610	2369918.7	2368798.0	1.492	mg/L	74.62	ppm
1 Mo 202.030	-86.9	-58.3	-0.0031	mg/L	-0.1545	ppm
1 Ni 231.604	2550.3	2275.1	0.0450	mg/L	2.248	ppm
1 Pb 220.353	519.2	334.3	0.0334	mg/L	1.671	ppm
1 Sb 206.833	89.5	28.9	0.0024	mg/L	0.1180	ppm
1 Se 196.026	44.5	-39.8	-0.0021	mg/L	-0.1052	ppm
1 Tl 190.800	270.3	81.7	0.0131	mg/L	0.6529	ppm
1 V 292.402	11427.6	11264.8	0.1010	mg/L	5.052	ppm
1 Zn 213.856	22170.8	22754.2	0.2092	mg/L	10.46	ppm
2 Ag 328.068	-1306.8	-232.8	-0.0012	mg/L	-0.0577	ppm
2 Al 308.215	1398735.2	1394137.6	38.21	mg/L	1911	ppm
2 As 188.979	11.9	-57.5	0.0389	mg/L	1.946	ppm
2 Ba 233.527	151928.6	152794.2	0.4325	mg/L	21.63	ppm
2 Be 313.107	1437.5	1851.7	0.0007	mg/L	0.0334	ppm
2 Ca 227.547	615728.4	615444.9	2354	mg/L	117700	ppm
2 Cd 228.802	429.1	339.3	0.0027	mg/L	0.1339	ppm
2 Co 228.616	2023.3	2440.0	0.0231	mg/L	1.153	ppm
2 Cr 267.716	7452.2	7612.0	0.0842	mg/L	4.208	ppm

2	Cu 324.754	13226.9	10940.0	0.0343	mg/L	1.717 ppm
2	Fe 273.955	2431572.7	2428582.8	48.77	mg/L	2439 ppm
2	Mg 279.079	2061695.9	2061099.7	64.89	mg/L	3245 ppm
2	Mn 257.610	2275726.1	2274605.4	1.433	mg/L	71.65 ppm
2	Mo 202.030	-81.8	-53.3	-0.0028	mg/L	-0.1412 ppm
2	Ni 231.604	2579.7	2304.5	0.0455	mg/L	2.277 ppm
2	Pb 220.353	524.8	339.9	0.0333	mg/L	1.663 ppm
2	Sb 206.833	82.7	22.1	0.0028	mg/L	0.1413 ppm
2	Se 196.026	53.5	-30.7	0.0007	mg/L	0.0372 ppm
2	Tl 190.800	262.6	74.1	0.0112	mg/L	0.5606 ppm
2	V 292.402	11140.7	10977.9	0.0985	mg/L	4.923 ppm
2	Zn 213.856	20774.6	21358.0	0.1963	mg/L	9.814 ppm
3	Ag 328.068	-1128.4	-54.4	-0.0003	mg/L	-0.0135 ppm
3	Al 308.215	1423054.8	1418457.3	38.88	mg/L	1944 ppm
3	As 188.979	1.0	-68.5	0.0355	mg/L	1.777 ppm
3	Ba 233.527	155533.4	156399.0	0.4427	mg/L	22.14 ppm
3	Be 313.107	1417.6	1831.8	0.0007	mg/L	0.0331 ppm
3	Ca 227.547	624073.8	623790.3	2386	mg/L	119300 ppm
3	Cd 228.802	445.5	355.8	0.0028	mg/L	0.1404 ppm
3	Co 228.616	2029.8	2446.5	0.0231	mg/L	1.156 ppm
3	Cr 267.716	7618.2	7777.9	0.0860	mg/L	4.300 ppm
3	Cu 324.754	13604.8	11317.9	0.0355	mg/L	1.776 ppm
3	Fe 273.955	2470654.0	2467664.1	49.56	mg/L	2478 ppm
3	Mg 279.079	2090033.9	2089437.8	65.79	mg/L	3289 ppm
3	Mn 257.610	2293017.1	2291896.4	1.444	mg/L	72.20 ppm
3	Mo 202.030	-90.7	-62.1	-0.0033	mg/L	-0.1646 ppm
3	Ni 231.604	2560.7	2285.5	0.0452	mg/L	2.258 ppm
3	Pb 220.353	533.6	348.7	0.0340	mg/L	1.700 ppm
3	Sb 206.833	86.5	25.9	0.0037	mg/L	0.1846 ppm
3	Se 196.026	43.3	-41.0	-0.0028	mg/L	-0.1400 ppm
3	Tl 190.800	263.5	75.0	0.0113	mg/L	0.5647 ppm
3	V 292.402	11341.5	11178.7	0.1003	mg/L	5.013 ppm
3	Zn 213.856	21792.6	22376.0	0.2058	mg/L	10.29 ppm

Mean Data ----------

ID: 6148-7 F=50 Seq. No.: 57 Sample No.: 39 A/S Pos: 47

Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 2:17:02 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
Ag 328.068	-112.6	-0.0006	0.00052	mg/L	-0.0279	0.02580	ppm	92.43%
Al 308.215	1423058.7	39.00	0.863	mg/L	1950	43.1	ppm	2.21%
As 188.979	-65.1	0.0373	0.00170	mg/L	1.867	0.0849	ppm	4.55%
Ba 233.527	156356.5	0.4426	0.01002	mg/L	22.13	0.501	ppm	2.26%
Be 313.107	1870.4	0.0007	0.00002	mg/L	0.0338	0.00091	ppm	2.70%
Ca 227.547	628712.1	2405	62.3	mg/L	120200	3116.2	ppm	2.59%
Cd 228.802	343.8	0.0027	0.00008	mg/L	0.1357	0.00414	ppm	3.05%
Co 228.616	2433.9	0.0230	0.00016	mg/L	1.150	0.0078	ppm	0.68%
Cr 267.716	7757.1	0.0858	0.00150	mg/L	4.289	0.0751	ppm	1.75%
Cu 324.754	11299.0	0.0355	0.00110	mg/L	1.773	0.0549	ppm	3.10%
Fe 273.955	2473255.3	49.67	0.958	mg/L	2483	47.9	ppm	1.93%
Mg 279.079	2099628.8	66.11	1.401	mg/L	3305	70.1	ppm	2.12%
Mn 257.610	2311766.6	1.456	0.0316	mg/L	72.82	1.580	ppm	2.17%
Mo 202.030	-57.9	-0.0031	0.00024	mg/L	-0.1534	0.01175	ppm	7.66%
Ni 231.604	2288.4	0.0452	0.00029	mg/L	2.261	0.0147	ppm	0.65%
Pb 220.353	341.0	0.0336	0.00039	mg/L	1.678	0.0196	ppm	1.17%
Sb 206.833	25.6	0.0030	0.00068	mg/L	0.1479	0.03379	ppm	22.84%
Se 196.026	-37.2	-0.0014	0.00188	mg/L	-0.0693	0.09390	ppm	135.50%
Tl 190.800	76.9	0.0119	0.00104	mg/L	0.5927	0.05212	ppm	8.79%
V 292.402	11140.5	0.0999	0.00132	mg/L	4.996	0.0660	ppm	1.32%
Zn 213.856	22162.8	0.2038	0.00672	mg/L	10.19	0.336	ppm	3.30%

Replicate Data ----------

ID: 6148-8 F=50 Date: 11/21/02 2:20:38 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-1277.1	-203.2	-0.0010	mg/L	-0.0504	ppm
1	Al 308.215	1338075.7	1333478.1	36.55	mg/L	1827	ppm

1	As 188.979	1.3	-68.1	0.0419	mg/L	2.097 ppm
1	Ba 233.527	135869.2	136734.8	0.3871	mg/L	19.35 ppm
1	Be 313.107	884.5	1298.7	0.0005	mg/L	0.0234 ppm
1	Ca 227.547	685099.8	684816.3	2619	mg/L	131000 ppm
1	Cd 228.802	378.9	289.1	0.0023	mg/L	0.1141 ppm
1	Co 228.616	2089.0	2505.7	0.0237	mg/L	1.184 ppm
1	Cr 267.716	7085.1	7244.9	0.0801	mg/L	4.006 ppm
1	Cu 324.754	10288.9	8001.9	0.0251	mg/L	1.256 ppm
1	Fe 273.955	2537767.7	2534777.9	50.90	mg/L	2545 ppm
1	Mg 279.079	2280323.4	2279727.2	71.78	mg/L	3589 ppm
1	Mn 257.610	1878157.2	1877036.5	1.183	mg/L	59.13 ppm
1	Mo 202.030	-96.6	-68.1	-0.0036	mg/L	-0.1803 ppm
1	Ni 231.604	2634.1	2358.9	0.0466	mg/L	2.331 ppm
1	Pb 220.353	509.1	324.2	0.0331	mg/L	1.654 ppm
1	Sb 206.833	86.2	25.6	0.0018	mg/L	0.0881 ppm
1	Se 196.026	43.5	-40.8	-0.0021	mg/L	-0.1065 ppm
1	Tl 190.800	258.8	70.3	0.0103	mg/L	0.5151 ppm
1	V 292.402	11759.2	11596.5	0.1040	mg/L	5.200 ppm
1	Zn 213.856	43908.4	44491.8	0.4142	mg/L	20.71 ppm
2	Ag 328.068	-1088.0	-14.0	-0.0001	mg/L	-0.0035 ppm
2	Al 308.215	1295160.0	1290562.5	35.37	mg/L	1769 ppm
2	As 188.979	6.1	-63.4	0.0419	mg/L	2.096 ppm
2	Ba 233.527	141169.0	142034.7	0.4021	mg/L	20.10 ppm
2	Be 313.107	815.6	1229.8	0.0004	mg/L	0.0222 ppm
2	Ca 227.547	666537.8	666254.3	2548	mg/L	127400 ppm
2	Cd 228.802	383.2	293.4	0.0023	mg/L	0.1158 ppm
2	Co 228.616	2126.2	2542.9	0.0240	mg/L	1.202 ppm
2	Cr 267.716	7381.5	7541.3	0.0834	mg/L	4.169 ppm
2	Cu 324.754	10801.5	8514.6	0.0267	mg/L	1.336 ppm
2	Fe 273.955	2451248.0	2448258.2	49.17	mg/L	2458 ppm
2	Mg 279.079	2212100.4	2211504.3	69.63	mg/L	3482 ppm
2	Mn 257.610	1826812.0	1825691.3	1.150	mg/L	57.51 ppm
2	Mo 202.030	-99.6	-71.1	-0.0038	mg/L	-0.1883 ppm
2	Ni 231.604	2625.0	2349.8	0.0464	mg/L	2.322 ppm
2	Pb 220.353	506.7	321.8	0.0326	mg/L	1.630 ppm
2	Sb 206.833	83.2	22.5	0.0030	mg/L	0.1482 ppm
2	Se 196.026	53.1	-31.2	0.0009	mg/L	0.0447 ppm
2	Tl 190.800	269.6	81.1	0.0138	mg/L	0.6902 ppm
2	V 292.402	12210.6	12047.9	0.1081	mg/L	5.403 ppm
2	Zn 213.856	46583.7	47167.1	0.4396	mg/L	21.98 ppm
3	Ag 328.068	-1144.8	-70.8	-0.0004	mg/L	-0.0176 ppm
3	Al 308.215	1326646.3	1322048.8	36.24	mg/L	1812 ppm
3	As 188.979	8.0	-61.4	0.0443	mg/L	2.215 ppm
3	Ba 233.527	140566.9	141432.5	0.4004	mg/L	20.02 ppm
3	Be 313.107	763.4	1177.6	0.0004	mg/L	0.0213 ppm
3	Ca 227.547	683150.0	682866.6	2612	mg/L	130600 ppm
3	Cd 228.802	386.1	296.3	0.0023	mg/L	0.1169 ppm
3	Co 228.616	2080.0	2496.7	0.0236	mg/L	1.180 ppm
3	Cr 267.716	7536.6	7696.4	0.0851	mg/L	4.255 ppm
3	Cu 324.754	10739.7	8452.8	0.0265	mg/L	1.327 ppm
3	Fe 273.955	2500671.7	2497681.9	50.16	mg/L	2508 ppm
3	Mg 279.079	2260362.5	2259766.4	71.15	mg/L	3557 ppm
3	Mn 257.610	1873060.0	1871939.3	1.179	mg/L	58.97 ppm
3	Mo 202.030	-93.9	-65.4	-0.0035	mg/L	-0.1733 ppm
3	Ni 231.604	2599.0	2323.7	0.0459	mg/L	2.296 ppm
3	Pb 220.353	494.6	309.8	0.0321	mg/L	1.603 ppm
3	Sb 206.833	87.5	26.9	0.0039	mg/L	0.1973 ppm
3	Se 196.026	56.3	-28.0	0.0023	mg/L	0.1153 ppm
3	Tl 190.800	266.8	78.2	0.0128	mg/L	0.6389 ppm
3	V 292.402	12268.9	12106.2	0.1086	mg/L	5.429 ppm
3	Zn 213.856	46560.4	47143.8	0.4393	mg/L	21.97 ppm

an Data ----------

D: 6148-8 F=50 Seq. No.: 58 Sample No.: 40 A/S Pos: 48
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:20:38 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
328.068	-96.0	-0.0005	0.00048	mg/L	-0.0238	0.02406	ppm	101.09%

012748

Al 308.215	1315363.1	36.05	0.609 mg/L	1803	30.5 ppm	1.69%
As 188.979	-64.3	0.0427	0.00137 mg/L	2.136	0.0683 ppm	3.20%
Ba 233.527	140067.3	0.3965	0.00821 mg/L	19.82	0.411 ppm	2.07%
Be 313.107	1235.4	0.0004	0.00002 mg/L	0.0223	0.00110 ppm	4.92%
Ca 227.547	677979.1	2593	39.0 mg/L	129700	1950.7 ppm	1.50%
Cd 228.802	293.0	0.0023	0.00003 mg/L	0.1156	0.00144 ppm	1.24%
Co 228.616	2515.1	0.0238	0.00023 mg/L	1.189	0.0116 ppm	0.97%
Cr 267.716	7494.2	0.0829	0.00254 mg/L	4.143	0.1268 ppm	3.06%
Cu 324.754	8323.1	0.0261	0.00088 mg/L	1.306	0.0439 ppm	3.36%
Fe 273.955	2493572.6	50.08	0.872 mg/L	2504	43.6 ppm	1.74%
Mg 279.079	2250332.6	70.85	1.104 mg/L	3543	55.2 ppm	1.56%
Mn 257.610	1858222.4	1.171	0.0178 mg/L	58.54	0.891 ppm	1.52%
Mo 202.030	-68.2	-0.0036	0.00015 mg/L	-0.1806	0.00748 ppm	4.14%
Ni 231.604	2344.2	0.0463	0.00036 mg/L	2.316	0.0180 ppm	0.78%
Pb 220.353	318.6	0.0326	0.00051 mg/L	1.629	0.0253 ppm	1.56%
Sb 206.833	25.0	0.0029	0.00109 mg/L	0.1445	0.05472 ppm	37.86%
Se 196.026	-33.3	0.0004	0.00227 mg/L	0.0178	0.11332 ppm	634.93%
Tl 190.800	76.5	0.0123	0.00180 mg/L	0.6147	0.09002 ppm	14.64%
V 292.402	11916.8	0.1069	0.00250 mg/L	5.344	0.1251 ppm	2.34%
Zn 213.856	46267.6	0.4311	0.01458 mg/L	21.55	0.729 ppm	3.38%

Replicate Data ----------

ID: 6148-9 F=50 Date: 11/21/02 2:24:07 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1248.1	-174.1	-0.0009	mg/L	-0.0432	ppm
1	Al 308.215	915834.5	911236.9	24.98	mg/L	1249	ppm
1	As 188.979	-13.2	-82.6	0.0309	mg/L	1.546	ppm
1	Ba 233.527	124877.4	125743.0	0.3559	mg/L	17.80	ppm
1	Be 313.107	1124.3	1538.5	0.0006	mg/L	0.0278	ppm
1	Ca 227.547	632364.7	632081.2	2418	mg/L	120900	ppm
1	Cd 228.802	390.4	300.7	0.0024	mg/L	0.1186	ppm
1	Co 228.616	1078.2	1494.9	0.0141	mg/L	0.7065	ppm
1	Cr 267.716	5641.7	5801.5	0.0641	mg/L	3.207	ppm
1	Cu 324.754	7316.0	5029.1	0.0158	mg/L	0.7893	ppm
1	Fe 273.955	1482180.2	1479190.4	29.71	mg/L	1485	ppm
1	Mg 279.079	1969876.4	1969280.3	62.00	mg/L	3100	ppm
1	Mn 257.610	1779952.8	1778832.1	1.121	mg/L	56.04	ppm
1	Mo 202.030	-110.3	-81.8	-0.0043	mg/L	-0.2166	ppm
1	Ni 231.604	1911.1	1635.9	0.0323	mg/L	1.616	ppm
1	Pb 220.353	305.3	120.4	0.0181	mg/L	0.9039	ppm
1	Sb 206.833	85.9	25.3	0.0060	mg/L	0.3023	ppm
1	Se 196.026	55.4	-28.9	-0.0033	mg/L	-0.1675	ppm
1	Tl 190.800	251.1	62.6	0.0128	mg/L	0.6419	ppm
1	V 292.402	7591.7	7429.0	0.0666	mg/L	3.331	ppm
1	Zn 213.856	10469.5	11052.9	0.1042	mg/L	5.212	ppm
2	Ag 328.068	-971.7	102.2	0.0005	mg/L	0.0253	ppm
2	Al 308.215	904322.3	899724.7	24.66	mg/L	1233	ppm
2	As 188.979	-10.1	-79.5	0.0311	mg/L	1.555	ppm
2	Ba 233.527	123493.5	124359.1	0.3520	mg/L	17.60	ppm
2	Be 313.107	1046.9	1461.1	0.0005	mg/L	0.0264	ppm
2	Ca 227.547	622006.5	621723.1	2378	mg/L	118900	ppm
2	Cd 228.802	383.4	293.6	0.0023	mg/L	0.1159	ppm
2	Co 228.616	1069.5	1486.2	0.0140	mg/L	0.7024	ppm
2	Cr 267.716	5731.0	5890.7	0.0651	mg/L	3.257	ppm
2	Cu 324.754	7272.8	4985.9	0.0157	mg/L	0.7826	ppm
2	Fe 273.955	1472267.1	1469277.3	29.51	mg/L	1475	ppm
2	Mg 279.079	1944479.1	1943883.0	61.20	mg/L	3060	ppm
2	Mn 257.610	1745680.6	1744559.9	1.099	mg/L	54.96	ppm
2	Mo 202.030	-114.5	-86.0	-0.0046	mg/L	-0.2278	ppm
2	Ni 231.604	1876.2	1601.0	0.0316	mg/L	1.582	ppm
2	Pb 220.353	300.4	115.5	0.0176	mg/L	0.8796	ppm
2	Sb 206.833	75.4	14.7	0.0035	mg/L	0.1762	ppm
2	Se 196.026	66.8	-17.5	0.0007	mg/L	0.0363	ppm
2	Tl 190.800	255.8	67.2	0.0142	mg/L	0.7104	ppm
2	V 292.402	7339.9	7177.2	0.0644	mg/L	3.218	ppm
2	Zn 213.856	10500.2	11083.6	0.1045	mg/L	5.227	ppm
3	Ag 328.068	-1172.5	-98.5	-0.0005	mg/L	-0.0244	ppm

3	Al 308.215	921834.4	917236.8	25.14	mg/L	1257 ppm
3	As 188.979	-13.0	-82.5	0.0318	mg/L	1.590 ppm
3	Ba 233.527	125408.1	126273.7	0.3574	mg/L	17.87 ppm
3	Be 313.107	1034.0	1448.2	0.0005	mg/L	0.0261 ppm
3	Ca 227.547	640682.5	640399.1	2449	mg/L	122500 ppm
3	Cd 228.802	390.5	300.7	0.0024	mg/L	0.1187 ppm
3	Co 228.616	1062.9	1479.6	0.0140	mg/L	0.6993 ppm
3	Cr 267.716	5650.7	5810.5	0.0642	mg/L	3.212 ppm
3	Cu 324.754	7616.5	5329.6	0.0167	mg/L	0.8365 ppm
3	Fe 273.955	1484186.4	1481196.5	29.75	mg/L	1487 ppm
3	Mg 279.079	1976868.8	1976272.7	62.22	mg/L	3111 ppm
3	Mn 257.610	1791669.8	1790549.0	1.128	mg/L	56.40 ppm
3	Mo 202.030	-122.5	-94.0	-0.0050	mg/L	-0.2490 ppm
3	Ni 231.604	1867.3	1592.1	0.0315	mg/L	1.573 ppm
3	Pb 220.353	305.3	120.4	0.0182	mg/L	0.9098 ppm
3	Sb 206.833	82.1	21.5	0.0051	mg/L	0.2572 ppm
3	Se 196.026	65.2	-19.1	0.0002	mg/L	0.0099 ppm
3	Tl 190.800	256.7	68.2	0.0145	mg/L	0.7239 ppm
3	V 292.402	7659.3	7496.5	0.0672	mg/L	3.362 ppm
3	Zn 213.856	10494.5	11077.9	0.1045	mg/L	5.224 ppm

ean Data ----------

): 6148-9 F=50 Seq. No.: 59 Sample No.: 41 A/S Pos: 49
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:24:07 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-56.8	-0.0003	0.00071	mg/L	-0.0141	0.03540	ppm	251.45%
l 308.215	909399.5	24.93	0.244	mg/L	1246	12.2	ppm	0.98%
s 188.979	-81.6	0.0313	0.00047	mg/L	1.564	0.0235	ppm	1.50%
a 233.527	125458.6	0.3551	0.00280	mg/L	17.76	0.140	ppm	0.79%
e 313.107	1482.6	0.0005	0.00002	mg/L	0.0268	0.00088	ppm	3.29%
a 227.547	631401.1	2415	35.8	mg/L	120700	1789.3	ppm	1.48%
d 228.802	298.3	0.0024	0.00003	mg/L	0.1177	0.00160	ppm	1.36%
o 228.616	1486.9	0.0141	0.00007	mg/L	0.7028	0.00362	ppm	0.51%
r 267.716	5834.2	0.0645	0.00054	mg/L	3.226	0.0272	ppm	0.84%
u 324.754	5114.9	0.0161	0.00059	mg/L	0.8028	0.02938	ppm	3.66%
e 273.955	1476554.7	29.65	0.128	mg/L	1483	6.4	ppm	0.43%
g 279.079	1963145.3	61.81	0.537	mg/L	3091	26.8	ppm	0.87%
n 257.610	1771313.7	1.116	0.0151	mg/L	55.80	0.753	ppm	1.35%
o 202.030	-87.3	-0.0046	0.00033	mg/L	-0.2312	0.01648	ppm	7.13%
i 231.604	1609.6	0.0318	0.00046	mg/L	1.590	0.0229	ppm	1.44%
b 220.353	118.8	0.0180	0.00032	mg/L	0.8978	0.01602	ppm	1.78%
b 206.833	20.5	0.0049	0.00128	mg/L	0.2453	0.06388	ppm	26.05%
e 196.026	-21.8	-0.0008	0.00222	mg/L	-0.0404	0.11084	ppm	274.30%
l 190.800	66.0	0.0138	0.00088	mg/L	0.6921	0.04395	ppm	6.35%
292.402	7367.6	0.0661	0.00151	mg/L	3.304	0.0755	ppm	2.28%
n 213.856	11071.5	0.1044	0.00015	mg/L	5.221	0.0077	ppm	0.15%

eplicate Data ----------

): 6148-10 F=50 Date: 11/21/02 2:27:34 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1251.7	-177.8	-0.0009	mg/L	-0.0441	ppm
1	Al 308.215	1562277.0	1557679.5	42.69	mg/L	2135	ppm
1	As 188.979	-1.3	-70.7	0.0355	mg/L	1.774	ppm
1	Ba 233.527	135086.4	135952.0	0.3848	mg/L	19.24	ppm
1	Be 313.107	948.5	1362.7	0.0005	mg/L	0.0246	ppm
1	Ca 227.547	634055.2	633771.7	2424	mg/L	121200	ppm
1	Cd 228.802	394.6	304.8	0.0024	mg/L	0.1203	ppm
1	Co 228.616	2060.0	2476.7	0.0234	mg/L	1.171	ppm
1	Cr 267.716	8868.9	9028.7	0.0998	mg/L	4.992	ppm
1	Cu 324.754	9162.7	6875.8	0.0216	mg/L	1.079	ppm
1	Fe 273.955	2500375.6	2497385.8	50.15	mg/L	2508	ppm
1	Mg 279.079	2049100.5	2048504.4	64.50	mg/L	3225	ppm
1	Mn 257.610	1843708.7	1842587.9	1.161	mg/L	58.04	ppm
1	Mo 202.030	-102.8	-74.3	-0.0039	mg/L	-0.1968	ppm
1	Ni 231.604	2909.1	2633.8	0.0520	mg/L	2.602	ppm
1	Pb 220.353	315.4	130.5	0.0197	mg/L	0.9873	ppm

1	Sb 206.833	90.5	29.8	0.0042	mg/L	0.2114 ppm
1	Se 196.026	61.6	-22.7	0.0038	mg/L	0.1883 ppm
1	Tl 190.800	264.4	75.9	0.0111	mg/L	0.5531 ppm
1	V 292.402	11461.3	11298.6	0.1013	mg/L	5.067 ppm
1	Zn 213.856	13457.1	14040.5	0.1271	mg/L	6.356 ppm
2	Ag 328.068	-1250.4	-176.5	-0.0009	mg/L	-0.0437 ppm
2	Al 308.215	1554169.8	1549572.2	42.47	mg/L	2124 ppm
2	As 188.979	-1.4	-70.9	0.0342	mg/L	1.710 ppm
2	Ba 233.527	137371.2	138236.8	0.3913	mg/L	19.57 ppm
2	Be 313.107	981.9	1396.1	0.0005	mg/L	0.0252 ppm
2	Ca 227.547	621735.3	621451.8	2377	mg/L	118800 ppm
2	Cd 228.802	396.8	307.0	0.0024	mg/L	0.1212 ppm
2	Co 228.616	2052.4	2469.1	0.0233	mg/L	1.167 ppm
2	Cr 267.716	9230.0	9389.8	0.1038	mg/L	5.191 ppm
2	Cu 324.754	9445.9	7159.0	0.0225	mg/L	1.124 ppm
2	Fe 273.955	2482694.4	2479704.6	49.80	mg/L	2490 ppm
2	Mg 279.079	2017343.9	2016747.8	63.50	mg/L	3175 ppm
2	Mn 257.610	1809907.3	1808786.6	1.140	mg/L	56.98 ppm
2	Mo 202.030	-98.8	-70.3	-0.0037	mg/L	-0.1861 ppm
2	Ni 231.604	2906.5	2631.3	0.0520	mg/L	2.600 ppm
2	Pb 220.353	299.9	115.0	0.0185	mg/L	0.9265 ppm
2	Sb 206.833	79.1	18.5	0.0014	mg/L	0.0701 ppm
2	Se 196.026	51.1	-33.1	-0.0001	mg/L	-0.0064 ppm
2	Tl 190.800	252.3	63.8	0.0076	mg/L	0.3778 ppm
2	V 292.402	11534.3	11371.6	0.1020	mg/L	5.099 ppm
2	Zn 213.856	13440.2	14023.6	0.1270	mg/L	6.350 ppm
3	Ag 328.068	-1182.1	-108.1	-0.0005	mg/L	-0.0268 ppm
3	Al 308.215	1580963.6	1576366.0	43.21	mg/L	2160 ppm
3	As 188.979	-9.1	-78.5	0.0328	mg/L	1.640 ppm
3	Ba 233.527	135863.1	136728.7	0.3870	mg/L	19.35 ppm
3	Be 313.107	968.8	1383.0	0.0005	mg/L	0.0250 ppm
3	Ca 227.547	637415.7	637132.3	2437	mg/L	121800 ppm
3	Cd 228.802	398.0	308.2	0.0024	mg/L	0.1216 ppm
3	Co 228.616	2068.5	2485.2	0.0235	mg/L	1.175 ppm
3	Cr 267.716	8920.9	9080.7	0.1004	mg/L	5.020 ppm
3	Cu 324.754	9390.5	7103.6	0.0223	mg/L	1.115 ppm
3	Fe 273.955	2525356.4	2522366.6	50.65	mg/L	2533 ppm
3	Mg 279.079	2059803.2	2059207.1	64.84	mg/L	3242 ppm
3	Mn 257.610	1846391.3	1845270.6	1.163	mg/L	58.13 ppm
3	Mo 202.030	-111.7	-83.2	-0.0044	mg/L	-0.2205 ppm
3	Ni 231.604	2912.2	2637.0	0.0521	mg/L	2.605 ppm
3	Pb 220.353	311.5	126.6	0.0196	mg/L	0.9780 ppm
3	Sb 206.833	79.9	19.3	-0.0003	mg/L	-0.0161 ppm
3	Se 196.026	32.2	-52.1	-0.0068	mg/L	-0.3398 ppm
3	Tl 190.800	267.6	79.1	0.0119	mg/L	0.5930 ppm
3	V 292.402	11421.7	11259.0	0.1010	mg/L	5.049 ppm
3	Zn 213.856	13651.5	14234.9	0.1289	mg/L	6.445 ppm

Mean Data ----------

ID: 6148-10 F=50 Seq. No.: 60 Sample No.: 42 A/S Pos: 50

Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 2:27:34 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-154.1	-0.0008	0.00020	mg/L	-0.0382	0.00987	ppm	25.85%
Al 308.215	1561205.9	42.79	0.377	mg/L	2140	18.8	ppm	0.88%
As 188.979	-73.4	0.0342	0.00134	mg/L	1.708	0.0670	ppm	3.92%
Ba 233.527	136972.5	0.3877	0.00329	mg/L	19.39	0.164	ppm	0.85%
Be 313.107	1380.6	0.0005	0.00001	mg/L	0.0249	0.00030	ppm	1.22%
Ca 227.547	630785.3	2413	31.6	mg/L	120600	1578.8	ppm	1.31%
Cd 228.802	306.7	0.0024	0.00001	mg/L	0.1210	0.00068	ppm	0.57%
Co 228.616	2477.0	0.0234	0.00008	mg/L	1.171	0.0038	ppm	0.33%
Cr 267.716	9166.4	0.1014	0.00216	mg/L	5.068	0.1079	ppm	2.13%
Cu 324.754	7046.1	0.0221	0.00047	mg/L	1.106	0.0236	ppm	2.13%
Fe 273.955	2499819.0	50.20	0.430	mg/L	2510	21.5	ppm	0.86%
Mg 279.079	2041486.4	64.28	0.695	mg/L	3214	34.8	ppm	1.08%
Mn 257.610	1832215.0	1.154	0.0128	mg/L	57.72	0.641	ppm	1.11%
Mo 202.030	-75.9	-0.0040	0.00035	mg/L	-0.2011	0.01760	ppm	8.75%
Ni 231.604	2634.0	0.0520	0.00006	mg/L	2.602	0.0028	ppm	0.11%

b 220.353	124.0	0.0193	0.00066	mg/L	0.9639	0.03275	ppm	3.40%
b 206.833	22.5	0.0018	0.00230	mg/L	0.0885	0.11487	ppm	129.83%
Se 196.026	-36.0	-0.0011	0.00534	mg/L	-0.0526	0.26704	ppm	507.41%
Tl 190.800	72.9	0.0102	0.00229	mg/L	0.5080	0.11449	ppm	22.54%
292.402	11309.7	0.1014	0.00051	mg/L	5.072	0.0256	ppm	0.51%
n 213.856	14099.7	0.1277	0.00106	mg/L	6.384	0.0532	ppm	0.83%

Replicate Data ----------

ID: CCV 1379B Date: 11/21/02 2:31:10 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	198644.6	199718.6	0.9900	mg/L		
1	Al 308.215	185445.3	180847.7	4.957	mg/L		
1	As 188.979	1409.2	1339.7	0.5194	mg/L		
1	Ba 233.527	1771275.4	1772141.0	5.016	mg/L		
1	Be 313.107	1414428.0	1414842.2	0.5106	mg/L		
1	Ca 227.547	14016.3	13732.8	52.52	mg/L		
1	Cd 228.802	131958.5	131868.7	1.041	mg/L		
1	Co 228.616	220268.9	220685.6	2.086	mg/L		
1	Cr 267.716	44186.2	44346.0	0.4904	mg/L		
1	Cu 324.754	651986.0	649699.1	2.039	mg/L		
1	Fe 273.955	249833.8	246843.9	4.957	mg/L		
1	Mg 279.079	808094.1	807497.9	25.42	mg/L		
1	Mn 257.610	3280028.0	3278907.3	2.066	mg/L		
1	Mo 202.030	38285.4	38313.9	2.030	mg/L		
1	Ni 231.604	106793.2	106518.0	2.105	mg/L		
1	Pb 220.353	7760.9	7576.0	0.5069	mg/L		
1	Sb 206.833	8689.8	8629.1	2.050	mg/L		
1	Se 196.026	1461.9	1377.6	0.5019	mg/L		
1	Tl 190.800	1938.4	1749.9	0.5088	mg/L		
1	V 292.402	216957.5	216794.8	1.944	mg/L		
1	Zn 213.856	216009.8	216593.2	2.043	mg/L		
2	Ag 328.068	199839.0	200912.9	0.9960	mg/L		
2	Al 308.215	186766.8	182169.2	4.993	mg/L		
2	As 188.979	1403.3	1333.9	0.5172	mg/L		
2	Ba 233.527	1793179.1	1794044.7	5.078	mg/L		
2	Be 313.107	1424685.7	1425099.9	0.5143	mg/L		
2	Ca 227.547	13973.1	13689.6	52.36	mg/L		
2	Cd 228.802	132523.2	132433.4	1.045	mg/L		
2	Co 228.616	222103.5	222520.2	2.103	mg/L		
2	Cr 267.716	44820.8	44980.6	0.4974	mg/L		
2	Cu 324.754	664541.3	662254.4	2.079	mg/L		
2	Fe 273.955	249321.8	246332.0	4.947	mg/L		
2	Mg 279.079	818278.4	817682.3	25.75	mg/L		
2	Mn 257.610	3330316.7	3329196.0	2.097	mg/L		
2	Mo 202.030	38748.3	38776.8	2.054	mg/L		
2	Ni 231.604	107378.4	107103.2	2.116	mg/L		
2	Pb 220.353	7741.9	7557.0	0.5056	mg/L		
2	Sb 206.833	8694.7	8634.0	2.051	mg/L		
2	Se 196.026	1478.3	1394.0	0.5078	mg/L		
2	Tl 190.800	1939.2	1750.7	0.5090	mg/L		
2	V 292.402	220352.1	220189.3	1.975	mg/L		
2	Zn 213.856	217283.6	217867.0	2.055	mg/L		
3	Ag 328.068	200715.4	201789.4	1.000	mg/L		
3	Al 308.215	186551.8	181954.2	4.987	mg/L		
3	As 188.979	1413.6	1344.1	0.5212	mg/L		
3	Ba 233.527	1750704.6	1751570.2	4.958	mg/L		
3	Be 313.107	1389209.6	1389623.8	0.5015	mg/L		
3	Ca 227.547	14085.6	13802.1	52.79	mg/L		
3	Cd 228.802	132952.8	132863.1	1.049	mg/L		
3	Co 228.616	221988.8	222405.5	2.102	mg/L		
3	Cr 267.716	44861.1	45020.8	0.4978	mg/L		
3	Cu 324.754	643950.5	641663.6	2.014	mg/L		
3	Fe 273.955	249226.6	246236.8	4.945	mg/L		
3	Mg 279.079	797714.4	797118.3	25.10	mg/L		
3	Mn 257.610	3241359.2	3240238.5	2.041	mg/L		
3	Mo 202.030	38458.7	38487.3	2.039	mg/L		
3	Ni 231.604	106645.2	106370.0	2.102	mg/L		

3	Pb 220.353	7766.5	7581.6	0.5073	mg/L
3	Sb 206.833	8777.5	8716.8	2.070	mg/L
3	Se 196.026	1480.8	1396.5	0.5087	mg/L
3	Tl 190.800	1951.8	1763.3	0.5127	mg/L
3	V 292.402	220787.3	220624.5	1.979	mg/L
3	Zn 213.856	216757.6	217341.0	2.050	mg/L

Mean Data ----------

ID: CCV 1379B Seq. No.: 61 Sample No.: 5 A/S Pos: 6
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 2:31:10 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	200807.0	0.9954	0.00515	mg/L				0.52%
Al 308.215	181657.1	4.979	0.0194	mg/L				0.39%
As 188.979	1339.3	0.5193	0.00197	mg/L				0.38%
Ba 233.527	1772585.3	5.018	0.0601	mg/L				1.20%
Be 313.107	1409855.3	0.5088	0.00659	mg/L				1.29%
Ca 227.547	13741.5	52.56	0.217	mg/L				0.41%
Cd 228.802	132388.4	1.045	0.0039	mg/L				0.38%
Co 228.616	221870.4	2.097	0.0097	mg/L				0.46%
Cr 267.716	44782.5	0.4952	0.00419	mg/L				0.85%
Cu 324.754	651205.7	2.044	0.0326	mg/L				1.59%
Fe 273.955	246470.9	4.950	0.0066	mg/L				0.13%
Mg 279.079	807432.8	25.42	0.324	mg/L				1.27%
Mn 257.610	3282780.6	2.068	0.0281	mg/L				1.36%
Mo 202.030	38526.0	2.041	0.0124	mg/L				0.61%
Ni 231.604	106663.7	2.108	0.0077	mg/L				0.36%
Pb 220.353	7571.5	0.5066	0.00086	mg/L				0.17%
Sb 206.833	8660.0	2.057	0.0117	mg/L				0.57%
Se 196.026	1389.4	0.5061	0.00372	mg/L				0.74%
Tl 190.800	1754.6	0.5101	0.00218	mg/L				0.43%
V 292.402	219202.9	1.966	0.0188	mg/L				0.96%
Zn 213.856	217267.1	2.049	0.0060	mg/L				0.29%

Replicate Data ----------

ID: CCB Date: 11/21/02 2:34:37 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-1206.0	-132.1	-0.0007	mg/L		
1	Al 308.215	5001.1	403.5	0.0111	mg/L		
1	As 188.979	63.3	-6.1	-0.0023	mg/L		
1	Ba 233.527	-453.7	411.9	0.0012	mg/L		
1	Be 313.107	294.4	708.6	0.0003	mg/L		
1	Ca 227.547	218.0	-65.5	-0.2504	mg/L		
1	Cd 228.802	103.9	14.1	0.0001	mg/L		
1	Co 228.616	-321.0	95.7	0.0009	mg/L		
1	Cr 267.716	-21.4	138.4	0.0015	mg/L		
1	Cu 324.754	2359.4	72.4	0.0002	mg/L		
1	Fe 273.955	2902.4	-87.4	-0.0018	mg/L		
1	Mg 279.079	626.6	30.5	0.0010	mg/L		
1	Mn 257.610	2167.7	1047.0	0.0007	mg/L		
1	Mo 202.030	-10.5	18.0	0.0010	mg/L		
1	Ni 231.604	342.8	67.6	0.0013	mg/L		
1	Pb 220.353	177.7	-7.2	-0.0005	mg/L		
1	Sb 206.833	71.1	10.4	0.0025	mg/L		
1	Se 196.026	80.5	-3.8	-0.0014	mg/L		
1	Tl 190.800	192.1	3.5	0.0010	mg/L		
1	V 292.402	405.8	243.1	0.0022	mg/L		
1	Zn 213.856	-229.3	354.1	0.0033	mg/L		
2	Ag 328.068	-1115.0	-41.0	-0.0002	mg/L		
2	Al 308.215	5234.3	636.7	0.0175	mg/L		
2	As 188.979	70.7	1.2	0.0005	mg/L		
2	Ba 233.527	-717.7	147.9	0.0004	mg/L		
2	Be 313.107	162.9	577.1	0.0002	mg/L		
2	Ca 227.547	347.7	64.3	0.2458	mg/L		
2	Cd 228.802	116.8	27.1	0.0002	mg/L		
2	Co 228.616	-276.3	140.4	0.0013	mg/L		

2 Cr 267.716	-186.3	-26.5	-0.0003	mg/L
2 Cu 324.754	2256.0	-31.0	-0.0001	mg/L
2 Fe 273.955	2640.3	-349.6	-0.0070	mg/L
2 Mg 279.079	644.0	47.9	0.0015	mg/L
2 Mn 257.610	2034.1	913.4	0.0006	mg/L
2 Mo 202.030	-17.5	11.0	0.0006	mg/L
2 Ni 231.604	393.2	117.9	0.0023	mg/L
2 Pb 220.353	186.4	1.5	0.0001	mg/L
2 Sb 206.833	66.1	5.5	0.0013	mg/L
2 Se 196.026	80.1	-4.2	-0.0015	mg/L
2 Tl 190.800	191.8	3.3	0.0010	mg/L
2 V 292.402	252.6	89.9	0.0008	mg/L
2 Zn 213.856	-334.5	248.9	0.0023	mg/L
3 Ag 328.068	-889.6	184.3	0.0009	mg/L
3 Al 308.215	5244.0	646.4	0.0177	mg/L
3 As 188.979	72.5	3.0	0.0012	mg/L
3 Ba 233.527	-728.8	136.8	0.0004	mg/L
3 Be 313.107	35.6	449.9	0.0002	mg/L
3 Ca 227.547	214.9	-68.6	-0.2623	mg/L
3 Cd 228.802	83.8	-5.9	0.0000	mg/L
3 Co 228.616	-295.1	121.6	0.0011	mg/L
3 Cr 267.716	-64.4	95.4	0.0011	mg/L
3 Cu 324.754	2319.1	32.2	0.0001	mg/L
3 Fe 273.955	2446.0	-543.8	-0.0109	mg/L
3 Mg 279.079	698.8	102.6	0.0032	mg/L
3 Mn 257.610	1770.9	650.2	0.0004	mg/L
3 Mo 202.030	-10.2	18.3	0.0010	mg/L
3 Ni 231.604	315.2	40.0	0.0008	mg/L
3 Pb 220.353	184.2	-0.7	0.0000	mg/L
3 Sb 206.833	63.8	3.2	0.0008	mg/L
3 Se 196.026	69.9	-14.4	-0.0052	mg/L
3 Tl 190.800	191.1	2.6	0.0008	mg/L
3 V 292.402	227.2	64.5	0.0006	mg/L
3 Zn 213.856	-381.3	202.1	0.0019	mg/L

Mean Data

ID: CCB Seq. No.: 62 Sample No.: 6 A/S Pos: 1
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 2:34:37 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	3.7	0.0000	0.00081	mg/L				>999.9%
Al 308.215	562.2	0.0154	0.00377	mg/L				24.46%
As 188.979	-0.6	-0.0002	0.00186	mg/L				774.88%
Ba 233.527	232.2	0.0007	0.00044	mg/L				67.06%
Be 313.107	578.5	0.0002	0.00005	mg/L				22.36%
Ca 227.547	-23.3	-0.0890	0.29001	mg/L				326.00%
Cd 228.802	11.8	0.0001	0.00013	mg/L				141.42%
Co 228.616	119.2	0.0011	0.00021	mg/L				18.85%
Cr 267.716	69.1	0.0008	0.00095	mg/L				123.79%
Cu 324.754	24.6	0.0001	0.00016	mg/L				212.17%
Fe 273.955	-326.9	-0.0066	0.00460	mg/L				70.05%
Mg 279.079	60.3	0.0019	0.00119	mg/L				62.40%
Mn 257.610	870.2	0.0005	0.00013	mg/L				23.20%
Mo 202.030	15.8	0.0008	0.00022	mg/L				26.14%
Ni 231.604	75.2	0.0015	0.00078	mg/L				52.58%
Pb 220.353	-2.1	-0.0001	0.00030	mg/L				211.72%
Sb 206.833	6.3	0.0015	0.00089	mg/L				58.45%
Se 196.026	-7.5	-0.0027	0.00219	mg/L				80.85%
Tl 190.800	3.1	0.0009	0.00014	mg/L				15.78%
V 292.402	132.5	0.0012	0.00087	mg/L				72.94%
Zn 213.856	268.4	0.0025	0.00073	mg/L				29.02%

Replicate Data

ID: 6148-11 F=50 Date: 11/21/02 2:38:03 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-976.1	97.9	0.0005	mg/L	0.0243	ppm

012754

1	Al 308.215	389521.4	384923.9	10.55	mg/L	527.5	ppm
1	As 188.979	-4.1	-73.5	0.0283	mg/L	1.416	ppm
1	Ba 233.527	62936.6	63802.2	0.1806	mg/L	9.030	ppm
1	Be 313.107	-403.5	10.7	0.0000	mg/L	0.0002	ppm
1	Ca 227.547	568795.9	568512.4	2174	mg/L	108700	ppm
1	Cd 228.802	210.5	120.8	0.0010	mg/L	0.0477	ppm
1	Co 228.616	273.8	690.5	0.0065	mg/L	0.3264	ppm
1	Cr 267.716	2481.1	2640.8	0.0292	mg/L	1.460	ppm
1	Cu 324.754	3838.7	1551.8	0.0049	mg/L	0.2436	ppm
1	Fe 273.955	1049402.8	1046413.0	21.01	mg/L	1051	ppm
1	Mg 279.079	1018302.7	1017706.6	32.04	mg/L	1602	ppm
1	Mn 257.610	1185705.0	1184584.3	0.7463	mg/L	37.32	ppm
1	Mo 202.030	-103.8	-75.3	-0.0040	mg/L	-0.1996	ppm
1	Ni 231.604	1011.5	736.3	0.0146	mg/L	0.7275	ppm
1	Pb 220.353	146.8	-38.1	0.0052	mg/L	0.2614	ppm
1	Sb 206.833	80.3	19.7	0.0047	mg/L	0.2357	ppm
1	Se 196.026	60.7	-23.6	-0.0022	mg/L	-0.1125	ppm
1	Tl 190.800	229.7	41.2	0.0104	mg/L	0.5208	ppm
1	V 292.402	4514.3	4351.6	0.0390	mg/L	1.951	ppm
1	Zn 213.856	5689.4	6272.8	0.0592	mg/L	2.958	ppm
2	Ag 328.068	-1004.9	69.0	0.0003	mg/L	0.0171	ppm
2	Al 308.215	390517.1	385919.5	10.58	mg/L	528.9	ppm
2	As 188.979	-10.3	-79.8	0.0253	mg/L	1.266	ppm
2	Ba 233.527	62772.5	63638.1	0.1801	mg/L	9.007	ppm
2	Be 313.107	-295.3	118.9	0.0000	mg/L	0.0021	ppm
2	Ca 227.547	562863.5	562580.1	2152	mg/L	107600	ppm
2	Cd 228.802	200.5	110.8	0.0009	mg/L	0.0437	ppm
2	Co 228.616	260.1	676.8	0.0064	mg/L	0.3199	ppm
2	Cr 267.716	2494.1	2653.9	0.0293	mg/L	1.467	ppm
2	Cu 324.754	3821.6	1534.7	0.0048	mg/L	0.2409	ppm
2	Fe 273.955	1053644.2	1050654.4	21.10	mg/L	1055	ppm
2	Mg 279.079	1013490.8	1012894.6	31.89	mg/L	1595	ppm
2	Mn 257.610	1172415.6	1171294.9	0.7379	mg/L	36.90	ppm
2	Mo 202.030	-99.5	-71.0	-0.0038	mg/L	-0.1881	ppm
2	Ni 231.604	986.1	710.9	0.0140	mg/L	0.7023	ppm
2	Pb 220.353	143.4	-41.5	0.0049	mg/L	0.2462	ppm
2	Sb 206.833	68.1	7.4	0.0018	mg/L	0.0887	ppm
2	Se 196.026	67.2	-17.1	0.0002	mg/L	0.0076	ppm
2	Tl 190.800	223.5	35.0	0.0095	mg/L	0.4772	ppm
2	V 292.402	4693.1	4530.4	0.0406	mg/L	2.032	ppm
2	Zn 213.856	5705.7	6289.1	0.0593	mg/L	2.966	ppm
3	Ag 328.068	-792.9	281.1	0.0014	mg/L	0.0697	ppm
3	Al 308.215	385876.9	381279.4	10.45	mg/L	522.5	ppm
3	As 188.979	-4.0	-73.5	0.0277	mg/L	1.385	ppm
3	Ba 233.527	62515.8	63381.4	0.1794	mg/L	8.971	ppm
3	Be 313.107	-279.3	134.9	0.0000	mg/L	0.0024	ppm
3	Ca 227.547	562448.5	562165.1	2150	mg/L	107500	ppm
3	Cd 228.802	214.7	125.0	0.0010	mg/L	0.0493	ppm
3	Co 228.616	251.6	668.3	0.0063	mg/L	0.3159	ppm
3	Cr 267.716	2480.1	2639.9	0.0292	mg/L	1.460	ppm
3	Cu 324.754	3584.5	1297.5	0.0041	mg/L	0.2037	ppm
3	Fe 273.955	1038057.1	1035067.2	20.79	mg/L	1039	ppm
3	Mg 279.079	1007650.3	1007054.1	31.71	mg/L	1585	ppm
3	Mn 257.610	1170343.6	1169222.9	0.7366	mg/L	36.83	ppm
3	Mo 202.030	-101.8	-73.3	-0.0039	mg/L	-0.1941	ppm
3	Ni 231.604	996.2	721.0	0.0142	mg/L	0.7123	ppm
3	Pb 220.353	148.2	-36.7	0.0052	mg/L	0.2620	ppm
3	Sb 206.833	59.9	-0.7	-0.0002	mg/L	-0.0087	ppm
3	Se 196.026	61.4	-22.9	-0.0021	mg/L	-0.1038	ppm
3	Tl 190.800	236.9	48.3	0.0135	mg/L	0.6750	ppm
3	V 292.402	4618.2	4455.5	0.0400	mg/L	1.998	ppm
3	Zn 213.856	5735.5	6318.9	0.0596	mg/L	2.980	ppm

Mean Data ----------

ID: 6148-11 F=50 Seq. No.: 63 Sample No.: 43 A/S Pos: 51

Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 2:38:03 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD

012755

Ag	328.068	149.3	0.0007	0.00057	mg/L	0.0370	0.02850	ppm	77.01%
Al	308.215	384040.9	10.53	0.067	mg/L	526.3	3.35	ppm	0.64%
As	188.979	-75.6	0.0271	0.00158	mg/L	1.356	0.0791	ppm	5.84%
Ba	233.527	63607.2	0.1801	0.00060	mg/L	9.003	0.0300	ppm	0.33%
Be	313.107	88.2	0.0000	0.00002	mg/L	0.0016	0.00122	ppm	76.67%
Ca	227.547	564419.2	2159	13.6	mg/L	107900	679.1	ppm	0.63%
Cd	228.802	118.8	0.0009	0.00006	mg/L	0.0469	0.00288	ppm	6.14%
Co	228.616	678.5	0.0064	0.00011	mg/L	0.3207	0.00529	ppm	1.65%
Cr	267.716	2644.9	0.0292	0.00009	mg/L	1.462	0.0043	ppm	0.30%
Cu	324.754	1461.3	0.0046	0.00045	mg/L	0.2294	0.02231	ppm	9.73%
Fe	273.955	1044044.9	20.97	0.162	mg/L	1048	8.1	ppm	0.77%
Mg	279.079	1012551.8	31.88	0.168	mg/L	1594	8.4	ppm	0.53%
Mn	257.610	1175034.0	0.7403	0.00525	mg/L	37.01	0.263	ppm	0.71%
Mo	202.030	-73.2	-0.0039	0.00011	mg/L	-0.1939	0.00572	ppm	2.95%
Ni	231.604	722.7	0.0143	0.00025	mg/L	0.7140	0.01267	ppm	1.77%
Pb	220.353	-38.8	0.0051	0.00018	mg/L	0.2566	0.00896	ppm	3.49%
Sb	206.833	8.8	0.0021	0.00246	mg/L	0.1052	0.12302	ppm	116.91%
Se	196.026	-21.2	-0.0014	0.00134	mg/L	-0.0695	0.06697	ppm	96.32%
Tl	190.800	41.5	0.0112	0.00208	mg/L	0.5576	0.10394	ppm	18.64%
V	292.402	4445.8	0.0399	0.00081	mg/L	1.994	0.0403	ppm	2.02%
Zn	213.856	6293.6	0.0594	0.00022	mg/L	2.968	0.0110	ppm	0.37%

Replicate Data ----------

ID: 6148-12 F=50 Date: 11/21/02 2:41:15 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-3054.0	-1980.0	-0.0098	mg/L	-0.4908	ppm
1	Al 308.215	6691381.0	6686783.4	183.3	mg/L	9164	ppm
1	As 188.979	334.5	265.0	0.1244	mg/L	6.221	ppm
1	Ba 233.527	287959.2	288824.8	0.8176	mg/L	40.88	ppm
1	Be 313.107	13144.3	13558.5	0.0049	mg/L	0.2447	ppm
1	Ca 227.547	182834.4	182550.9	705.0	mg/L	35250	ppm
1	Cd 228.802	513.6	423.8	0.0033	mg/L	0.1673	ppm
1	Co 228.616	14032.6	14449.3	0.1366	mg/L	6.829	ppm
1	Cr 267.716	29344.7	29504.5	0.3187	mg/L	15.93	ppm
1	Cu 324.754	60324.0	58037.1	0.1962	mg/L	9.810	ppm
1	Fe 273.955	15243343.8	15240354.0	306.1	mg/L	15300	ppm
1	Mg 279.079	3079831.3	3079235.1	96.95	mg/L	4848	ppm
1	Mn 257.610	6026417.5	6025296.8	3.796	mg/L	189.8	ppm
1	Mo 202.030	166.0	194.5	-0.0016	mg/L	-0.0788	ppm
1	Ni 231.604	14432.1	14156.9	0.2797	mg/L	13.99	ppm
1	Pb 220.353	2386.5	2201.6	0.1579	mg/L	7.893	ppm
1	Sb 206.833	153.1	92.5	-0.0054	mg/L	-0.2692	ppm
1	Se 196.026	-76.5	-160.8	0.0204	mg/L	1.021	ppm
1	Tl 190.800	401.7	213.1	-0.0119	mg/L	-0.5946	ppm
1	V 292.402	69517.4	69354.6	0.6220	mg/L	31.10	ppm
1	Zn 213.856	168074.5	168657.9	1.558	mg/L	77.91	ppm
2	Ag 328.068	-2722.5	-1648.5	-0.0082	mg/L	-0.4086	ppm
2	Al 308.215	6707554.0	6702956.4	183.7	mg/L	9186	ppm
2	As 188.979	260.4	191.0	0.0952	mg/L	4.759	ppm
2	Ba 233.527	279790.7	280656.3	0.7945	mg/L	39.72	ppm
2	Be 313.107	12747.2	13161.4	0.0047	mg/L	0.2375	ppm
2	Ca 227.547	175290.4	175006.9	676.1	mg/L	33810	ppm
2	Cd 228.802	484.3	394.6	0.0031	mg/L	0.1557	ppm
2	Co 228.616	13613.9	14030.6	0.1326	mg/L	6.631	ppm
2	Cr 267.716	28399.2	28559.0	0.3082	mg/L	15.41	ppm
2	Cu 324.754	58327.4	56040.5	0.1900	mg/L	9.499	ppm
2	Fe 273.955	15283938.9	15280949.0	306.9	mg/L	15340	ppm
2	Mg 279.079	2989039.2	2988443.0	94.09	mg/L	4705	ppm
2	Mn 257.610	5982067.7	5980947.0	3.768	mg/L	188.4	ppm
2	Mo 202.030	139.1	167.6	-0.0030	mg/L	-0.1517	ppm
2	Ni 231.604	14067.2	13792.0	0.2725	mg/L	13.63	ppm
2	Pb 220.353	2254.9	2070.0	0.1490	mg/L	7.448	ppm
2	Sb 206.833	134.4	73.8	-0.0096	mg/L	-0.4801	ppm
2	Se 196.026	-150.4	-234.7	-0.0062	mg/L	-0.3104	ppm
2	Tl 190.800	407.6	219.0	-0.0103	mg/L	-0.5162	ppm
2	V 292.402	66898.3	66735.6	0.5985	mg/L	29.93	ppm
2	Zn 213.856	162204.6	162788.0	1.503	mg/L	75.14	ppm

3	Ag 328.068	-2930.9	-1857.0	-0.0092	mg/L	-0.4603 ppm
3	Al 308.215	6634173.7	6629576.1	181.7	mg/L	9085 ppm
3	As 188.979	308.2	238.8	0.1143	mg/L	5.716 ppm
3	Ba 233.527	289350.8	290216.4	0.8215	mg/L	41.08 ppm
3	Be 313.107	13155.9	13570.1	0.0049	mg/L	0.2449 ppm
3	Ca 227.547	181826.0	181542.5	701.1	mg/L	35050 ppm
3	Cd 228.802	424.7	335.0	0.0026	mg/L	0.1322 ppm
3	Co 228.616	13916.2	14332.9	0.1355	mg/L	6.774 ppm
3	Cr 267.716	29658.3	29818.1	0.3222	mg/L	16.11 ppm
3	Cu 324.754	61061.3	58774.4	0.1985	mg/L	9.923 ppm
3	Fe 273.955	15179823.4	15176833.6	304.8	mg/L	15240 ppm
3	Mg 279.079	3076312.5	3075716.4	96.84	mg/L	4842 ppm
3	Mn 257.610	5907680.0	5906559.3	3.721	mg/L	186.1 ppm
3	Mo 202.030	216.9	245.4	0.0012	mg/L	0.0584 ppm
3	Ni 231.604	14029.1	13753.9	0.2718	mg/L	13.59 ppm
3	Pb 220.353	2423.8	2238.9	0.1603	mg/L	8.013 ppm
3	Sb 206.833	154.4	93.8	-0.0051	mg/L	-0.2537 ppm
3	Se 196.026	-194.1	-278.4	-0.0226	mg/L	-1.129 ppm
3	Tl 190.800	379.2	190.7	-0.0180	mg/L	-0.9011 ppm
3	V 292.402	69660.3	69497.5	0.6233	mg/L	31.16 ppm
3	Zn 213.856	167782.4	168365.8	1.556	mg/L	77.78 ppm

Mean Data ----------

ID: 6148-12 F=50 Seq. No.: 64 Sample No.: 44 A/S Pos: 52
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:41:15 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-1828.5	-0.0091	0.00083	mg/L	-0.4532	0.04153	ppm	9.16%
Al 308.215	6673105.3	182.9	1.06	mg/L	9145	52.8	ppm	0.58%
As 188.979	231.6	0.1113	0.01485	mg/L	5.565	0.7427	ppm	13.34%
Ba 233.527	286565.9	0.8112	0.01462	mg/L	40.56	0.731	ppm	1.80%
Be 313.107	13430.0	0.0048	0.00008	mg/L	0.2423	0.00420	ppm	1.73%
Ca 227.547	179700.1	694.1	15.65	mg/L	34700	782.4	ppm	2.25%
Cd 228.802	384.5	0.0030	0.00036	mg/L	0.1517	0.01788	ppm	11.78%
Co 228.616	14270.9	0.1349	0.00204	mg/L	6.745	0.1022	ppm	1.51%
Cr 267.716	29293.9	0.3163	0.00727	mg/L	15.82	0.364	ppm	2.30%
Cu 324.754	57617.3	0.1949	0.00440	mg/L	9.744	0.2198	ppm	2.26%
Fe 273.955	15232712.2	305.9	1.05	mg/L	15300	52.7	ppm	0.34%
Mg 279.079	3047798.2	95.96	1.619	mg/L	4798	81.0	ppm	1.69%
Mn 257.610	5970934.4	3.762	0.0378	mg/L	188.1	1.89	ppm	1.00%
Mo 202.030	202.5	-0.0011	0.00213	mg/L	-0.0574	0.10671	ppm	185.96%
Ni 231.604	13900.9	0.2747	0.00440	mg/L	13.73	0.220	ppm	1.60%
Pb 220.353	2170.2	0.1557	0.00595	mg/L	7.785	0.2974	ppm	3.82%
Sb 206.833	86.7	-0.0067	0.00253	mg/L	-0.3343	0.12647	ppm	37.83%
Se 196.026	-224.6	-0.0028	0.02170	mg/L	-0.1394	1.08519	ppm	778.40%
Tl 190.800	207.6	-0.0134	0.00407	mg/L	-0.6706	0.20337	ppm	30.32%
V 292.402	68529.2	0.6146	0.01395	mg/L	30.73	0.697	ppm	2.27%
Zn 213.856	166603.9	1.539	0.0313	mg/L	76.95	1.564	ppm	2.03%

Replicate Data ----------

ID: 6148-13 F=50 Date: 11/21/02 2:44:14 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1311.5	-237.6	-0.0012	mg/L	-0.0589	ppm
1	Al 308.215	1584681.5	1580083.9	43.31	mg/L	2165	ppm
1	As 188.979	5.6	-63.8	0.0370	mg/L	1.849	ppm
1	Ba 233.527	149836.0	150701.6	0.4266	mg/L	21.33	ppm
1	Be 313.107	718.4	1132.6	0.0004	mg/L	0.0204	ppm
1	Ca 227.547	621633.1	621349.7	2376	mg/L	118800	ppm
1	Cd 228.802	376.9	287.2	0.0023	mg/L	0.1133	ppm
1	Co 228.616	1928.4	2345.1	0.0222	mg/L	1.108	ppm
1	Cr 267.716	8017.0	8176.7	0.0904	mg/L	4.521	ppm
1	Cu 324.754	13376.8	11089.9	0.0348	mg/L	1.741	ppm
1	Fe 273.955	2623290.7	2620300.8	52.62	mg/L	2631	ppm
1	Mg 279.079	2161027.1	2160431.0	68.02	mg/L	3401	ppm
1	Mn 257.610	2011958.2	2010837.4	1.267	mg/L	63.34	ppm
1	Mo 202.030	-81.7	-53.2	-0.0028	mg/L	-0.1410	ppm
1	Ni 231.604	2595.5	2320.3	0.0459	mg/L	2.293	ppm

1	Pb 220.353	588.0	403.1	0.0379	mg/L	1.893 ppm
1	Sb 206.833	104.2	43.6	0.0057	mg/L	0.2854 ppm
1	Se 196.026	54.6	-29.6	0.0019	mg/L	0.0967 ppm
1	Tl 190.800	267.1	78.6	0.0112	mg/L	0.5588 ppm
1	V 292.402	12856.6	12693.9	0.1138	mg/L	5.692 ppm
1	Zn 213.856	19812.6	20396.0	0.1868	mg/L	9.340 ppm
2	Ag 328.068	-1003.4	70.5	0.0003	mg/L	0.0175 ppm
2	Al 308.215	1640760.2	1636162.6	44.84	mg/L	2242 ppm
2	As 188.979	4.8	-64.6	0.0385	mg/L	1.924 ppm
2	Ba 233.527	149169.2	150034.8	0.4247	mg/L	21.24 ppm
2	Be 313.107	377.9	792.1	0.0003	mg/L	0.0143 ppm
2	Ca 227.547	640457.0	640173.5	2448	mg/L	122400 ppm
2	Cd 228.802	396.2	306.5	0.0024	mg/L	0.1209 ppm
2	Co 228.616	1948.7	2365.4	0.0224	mg/L	1.118 ppm
2	Cr 267.716	8050.0	8209.8	0.0908	mg/L	4.539 ppm
2	Cu 324.754	13584.8	11297.8	0.0355	mg/L	1.773 ppm
2	Fe 273.955	2692220.7	2689230.8	54.01	mg/L	2700 ppm
2	Mg 279.079	2214077.2	2213481.1	69.69	mg/L	3485 ppm
2	Mn 257.610	2068071.2	2066950.5	1.302	mg/L	65.11 ppm
2	Mo 202.030	-79.7	-51.2	-0.0027	mg/L	-0.1356 ppm
2	Ni 231.604	2597.0	2321.8	0.0459	mg/L	2.294 ppm
2	Pb 220.353	581.6	396.7	0.0378	mg/L	1.888 ppm
2	Sb 206.833	101.2	40.6	0.0049	mg/L	0.2463 ppm
2	Se 196.026	49.1	-35.2	0.0002	mg/L	0.0107 ppm
2	Tl 190.800	273.2	84.7	0.0126	mg/L	0.6306 ppm
2	V 292.402	12884.7	12721.9	0.1141	mg/L	5.705 ppm
2	Zn 213.856	19758.2	20341.6	0.1861	mg/L	9.307 ppm
3	Ag 328.068	-1285.5	-211.5	-0.0010	mg/L	-0.0524 ppm
3	Al 308.215	1616702.8	1612105.2	44.19	mg/L	2209 ppm
3	As 188.979	10.7	-58.7	0.0395	mg/L	1.977 ppm
3	Ba 233.527	144839.6	145705.2	0.4124	mg/L	20.62 ppm
3	Be 313.107	521.2	935.4	0.0003	mg/L	0.0169 ppm
3	Ca 227.547	628034.5	627751.0	2401	mg/L	120000 ppm
3	Cd 228.802	380.0	290.2	0.0023	mg/L	0.1145 ppm
3	Co 228.616	1949.0	2365.7	0.0224	mg/L	1.118 ppm
3	Cr 267.716	7773.6	7933.4	0.0877	mg/L	4.386 ppm
3	Cu 324.754	13324.2	11037.2	0.0346	mg/L	1.732 ppm
3	Fe 273.955	2661011.1	2658021.2	53.38	mg/L	2669 ppm
3	Mg 279.079	2180666.9	2180070.8	68.64	mg/L	3432 ppm
3	Mn 257.610	2023641.0	2022520.3	1.274	mg/L	63.71 ppm
3	Mo 202.030	-86.6	-58.1	-0.0031	mg/L	-0.1539 ppm
3	Ni 231.604	2605.3	2330.1	0.0460	mg/L	2.302 ppm
3	Pb 220.353	580.7	395.8	0.0375	mg/L	1.875 ppm
3	Sb 206.833	85.4	24.7	0.0012	mg/L	0.0623 ppm
3	Se 196.026	38.7	-45.6	-0.0037	mg/L	-0.1846 ppm
3	Tl 190.800	264.1	75.6	0.0101	mg/L	0.5049 ppm
3	V 292.402	12417.7	12255.0	0.1099	mg/L	5.496 ppm
3	Zn 213.856	19090.5	19673.9	0.1799	mg/L	8.995 ppm

Mean Data ----------

ID: 6148-13 F=50	Seq. No.: 65	Sample No.: 45	A/S Pos: 53
Sample Qty: 1.0000 mL	Prep. Vol.: 1.0 mL		Dilution: 1.0: 50.0
	Data: Original		Date: 11/21/02 2:44:14 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-126.2	-0.0006	0.00085	mg/L	-0.0313	0.04235	ppm	135.41%
Al 308.215	1609450.6	44.11	0.771	mg/L	2206	38.6	ppm	1.75%
As 188.979	-62.4	0.0383	0.00129	mg/L	1.917	0.0644	ppm	3.36%
Ba 233.527	148813.9	0.4212	0.00768	mg/L	21.06	0.384	ppm	1.82%
Be 313.107	953.4	0.0003	0.00006	mg/L	0.0172	0.00309	ppm	17.93%
Ca 227.547	629758.1	2409	36.6	mg/L	120400	1830.3	ppm	1.52%
Cd 228.802	294.6	0.0023	0.00008	mg/L	0.1163	0.00410	ppm	3.52%
Co 228.616	2358.7	0.0223	0.00011	mg/L	1.115	0.0056	ppm	0.50%
Cr 267.716	8106.6	0.0896	0.00167	mg/L	4.482	0.0835	ppm	1.86%
Cu 324.754	11141.7	0.0350	0.00043	mg/L	1.749	0.0216	ppm	1.24%
Fe 273.955	2655851.0	53.34	0.693	mg/L	2667	34.7	ppm	1.30%
Mg 279.079	2184660.9	68.78	0.844	mg/L	3439	42.2	ppm	1.23%
Mn 257.610	2033436.1	1.281	0.0187	mg/L	64.06	0.933	ppm	1.46%
Mo 202.030	-54.2	-0.0029	0.00019	mg/L	-0.1435	0.00942	ppm	6.57%

Ni 231.604	2324.1	0.0459	0.00010 mg/L	2.296	0.0052 ppm	0.23%
Pb 220.353	398.5	0.0377	0.00018 mg/L	1.885	0.0092 ppm	0.49%
Sb 206.833	36.3	0.0040	0.00238 mg/L	0.1980	0.11916 ppm	60.19%
Se 196.026	-36.8	-0.0005	0.00288 mg/L	-0.0257	0.14416 ppm	560.37%
Tl 190.800	79.6	0.0113	0.00126 mg/L	0.5648	0.06306 ppm	11.16%
V 292.402	12556.9	0.1126	0.00235 mg/L	5.631	0.1174 ppm	2.09%
Zn 213.856	20137.2	0.1843	0.00380 mg/L	9.214	0.1901 ppm	2.06%

Replicate Data ----------
ID: 6148-14 F=50 Date: 11/21/02 2:47:45 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1311.7	-237.8	-0.0012	mg/L	-0.0589	ppm
1	Al 308.215	1450111.3	1445513.7	39.62	mg/L	1981	ppm
1	As 188.979	0.3	-69.2	0.0440	mg/L	2.201	ppm
1	Ba 233.527	149308.6	150174.2	0.4251	mg/L	21.25	ppm
1	Be 313.107	1022.1	1436.3	0.0005	mg/L	0.0259	ppm
1	Ca 227.547	713486.5	713203.0	2728	mg/L	136400	ppm
1	Cd 228.802	350.7	260.9	0.0021	mg/L	0.1030	ppm
1	Co 228.616	1918.2	2334.9	0.0221	mg/L	1.104	ppm
1	Cr 267.716	8331.4	8491.2	0.0939	mg/L	4.695	ppm
1	Cu 324.754	9503.9	7217.0	0.0227	mg/L	1.133	ppm
1	Fe 273.955	2343579.4	2340589.6	47.00	mg/L	2350	ppm
1	Mg 279.079	2158072.2	2157476.0	67.93	mg/L	3396	ppm
1	Mn 257.610	1915835.9	1914715.2	1.206	mg/L	60.32	ppm
1	Mo 202.030	-107.7	-79.2	-0.0042	mg/L	-0.2097	ppm
1	Ni 231.604	2866.3	2591.1	0.0512	mg/L	2.560	ppm
1	Pb 220.353	304.3	119.4	0.0199	mg/L	0.9961	ppm
1	Sb 206.833	98.5	37.8	0.0063	mg/L	0.3159	ppm
1	Se 196.026	45.1	-39.2	-0.0030	mg/L	-0.1478	ppm
1	Tl 190.800	258.9	70.4	0.0108	mg/L	0.5411	ppm
1	V 292.402	11389.6	11226.9	0.1007	mg/L	5.034	ppm
1	Zn 213.856	15469.4	16052.8	0.1464	mg/L	7.322	ppm
2	Ag 328.068	-864.8	209.2	0.0010	mg/L	0.0518	ppm
2	Al 308.215	1407263.8	1402666.3	38.44	mg/L	1922	ppm
2	As 188.979	1.5	-67.9	0.0429	mg/L	2.146	ppm
2	Ba 233.527	144974.2	145839.8	0.4128	mg/L	20.64	ppm
2	Be 313.107	993.6	1407.8	0.0005	mg/L	0.0254	ppm
2	Ca 227.547	697396.6	697113.1	2666	mg/L	133300	ppm
2	Cd 228.802	371.9	282.2	0.0022	mg/L	0.1114	ppm
2	Co 228.616	1923.8	2340.5	0.0221	mg/L	1.106	ppm
2	Cr 267.716	7993.2	8153.0	0.0902	mg/L	4.508	ppm
2	Cu 324.754	9288.7	7001.8	0.0220	mg/L	1.099	ppm
2	Fe 273.955	2273779.8	2270789.9	45.60	mg/L	2280	ppm
2	Mg 279.079	2101595.9	2100999.7	66.15	mg/L	3308	ppm
2	Mn 257.610	1866589.7	1865468.9	1.175	mg/L	58.76	ppm
2	Mo 202.030	-100.6	-72.0	-0.0038	mg/L	-0.1908	ppm
2	Ni 231.604	2870.0	2594.8	0.0513	mg/L	2.564	ppm
2	Pb 220.353	292.0	107.1	0.0188	mg/L	0.9409	ppm
2	Sb 206.833	81.9	21.3	0.0025	mg/L	0.1232	ppm
2	Se 196.026	48.3	-36.0	-0.0021	mg/L	-0.1073	ppm
2	Tl 190.800	254.9	66.4	0.0100	mg/L	0.4988	ppm
2	V 292.402	11009.6	10846.9	0.0973	mg/L	4.864	ppm
2	Zn 213.856	15565.0	16148.4	0.1475	mg/L	7.374	ppm
3	Ag 328.068	-1322.3	-248.4	-0.0012	mg/L	-0.0616	ppm
3	Al 308.215	1470127.4	1465529.9	40.17	mg/L	2008	ppm
3	As 188.979	2.5	-66.9	0.0463	mg/L	2.314	ppm
3	Ba 233.527	150032.7	150898.3	0.4271	mg/L	21.36	ppm
3	Be 313.107	1018.8	1433.0	0.0005	mg/L	0.0259	ppm
3	Ca 227.547	727729.1	727445.6	2782	mg/L	139100	ppm
3	Cd 228.802	361.4	271.6	0.0021	mg/L	0.1072	ppm
3	Co 228.616	1903.3	2320.0	0.0219	mg/L	1.097	ppm
3	Cr 267.716	8381.3	8541.1	0.0944	mg/L	4.722	ppm
3	Cu 324.754	9478.0	7191.1	0.0226	mg/L	1.129	ppm
3	Fe 273.955	2350584.6	2347594.8	47.14	mg/L	2357	ppm
3	Mg 279.079	2177717.8	2177121.7	68.55	mg/L	3427	ppm
3	Mn 257.610	1939829.6	1938708.9	1.221	mg/L	61.07	ppm
3	Mo 202.030	-113.1	-84.6	-0.0045	mg/L	-0.2240	ppm

3	Ni 231.604	2854.6	2579.3	0.0510	mg/L	2.548 ppm
3	Pb 220.353	305.2	120.3	0.0202	mg/L	1.011 ppm
3	Sb 206.833	80.2	19.6	0.0019	mg/L	0.0966 ppm
3	Se 196.026	59.6	-24.7	0.0023	mg/L	0.1161 ppm
3	Tl 190.800	261.2	72.7	0.0115	mg/L	0.5738 ppm
3	V 292.402	11609.4	11446.7	0.1027	mg/L	5.133 ppm
3	Zn 213.856	15661.3	16244.7	0.1482	mg/L	7.411 ppm

Mean Data ----------

D: 6148-14 F=50 Seq. No.: 66 Sample No.: 46 A/S Pos: 54
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:47:45 PM

	Mean Corr.	Mean	Calib		Mean	Sample		
lement	Intensity	Conc.	Std.Dev.	Units	Conc.	Std.Dev.	Units	RSD
g 328.068	-92.3	-0.0005	0.00129	mg/L	-0.0229	0.06473	ppm	282.86%
Al 308.215	1437903.3	39.41	0.880	mg/L	1971	44.0	ppm	2.23%
As 188.979	-68.0	0.0444	0.00172	mg/L	2.221	0.0858	ppm	3.86%
a 233.527	148970.8	0.4217	0.00774	mg/L	21.08	0.387	ppm	1.84%
e 313.107	1425.7	0.0005	0.00001	mg/L	0.0257	0.00028	ppm	1.09%
Ca 227.547	712587.2	2725	58.0	mg/L	136300	2902.1	ppm	2.13%
Cd 228.802	271.6	0.0021	0.00008	mg/L	0.1072	0.00419	ppm	3.91%
o 228.616	2331.8	0.0220	0.00010	mg/L	1.102	0.0050	ppm	0.46%
r 267.716	8395.1	0.0928	0.00233	mg/L	4.641	0.1167	ppm	2.52%
Cu 324.754	7136.6	0.0224	0.00037	mg/L	1.120	0.0184	ppm	1.65%
Fe 273.955	2319658.1	46.58	0.853	mg/L	2329	42.6	ppm	1.83%
g 279.079	2145199.1	67.54	1.244	mg/L	3377	62.2	ppm	1.84%
n 257.610	1906297.7	1.201	0.0235	mg/L	60.05	1.176	ppm	1.96%
o 202.030	-78.6	-0.0042	0.00033	mg/L	-0.2082	0.01663	ppm	7.99%
Ni 231.604	2588.4	0.0511	0.00016	mg/L	2.557	0.0080	ppm	0.31%
b 220.353	115.6	0.0197	0.00074	mg/L	0.9825	0.03679	ppm	3.74%
b 206.833	26.2	0.0036	0.00239	mg/L	0.1786	0.11965	ppm	67.00%
e 196.026	-33.3	-0.0009	0.00284	mg/L	-0.0464	0.14212	ppm	306.58%
Tl 190.800	69.8	0.0108	0.00075	mg/L	0.5379	0.03763	ppm	6.99%
V 292.402	11173.5	0.1002	0.00272	mg/L	5.011	0.1361	ppm	2.72%
n 213.856	16148.7	0.1474	0.00090	mg/L	7.369	0.0451	ppm	0.61%

Replicate Data ----------

ID: 6148-15 F=50 Date: 11/21/02 2:51:12 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-859.6	214.3	0.0011	mg/L	0.0531	ppm
1	Al 308.215	386963.5	382365.9	10.48	mg/L	524.0	ppm
1	As 188.979	-2.8	-72.2	0.0316	mg/L	1.578	ppm
1	Ba 233.527	67113.9	67979.5	0.1924	mg/L	9.621	ppm
1	Be 313.107	-469.9	-55.6	0.0000	mg/L	-0.0010	ppm
1	Ca 227.547	596419.6	596136.1	2280	mg/L	114000	ppm
1	Cd 228.802	210.4	120.6	0.0010	mg/L	0.0476	ppm
1	Co 228.616	222.9	639.6	0.0060	mg/L	0.3023	ppm
1	Cr 267.716	2605.3	2765.1	0.0306	mg/L	1.529	ppm
1	Cu 324.754	3855.0	1568.1	0.0049	mg/L	0.2461	ppm
1	Fe 273.955	1046248.4	1043258.6	20.95	mg/L	1048	ppm
1	Mg 279.079	981271.9	980675.7	30.88	mg/L	1544	ppm
1	Mn 257.610	1458993.2	1457872.5	0.9185	mg/L	45.92	ppm
1	Mo 202.030	-106.2	-77.7	-0.0041	mg/L	-0.2059	ppm
1	Ni 231.604	1024.7	749.5	0.0148	mg/L	0.7405	ppm
1	Pb 220.353	139.3	-45.6	0.0051	mg/L	0.2553	ppm
1	Sb 206.833	68.9	8.3	0.0020	mg/L	0.0989	ppm
1	Se 196.026	70.2	-14.1	0.0012	mg/L	0.0583	ppm
1	Tl 190.800	230.6	42.1	0.0119	mg/L	0.5942	ppm
1	V 292.402	4780.7	4618.0	0.0414	mg/L	2.071	ppm
1	Zn 213.856	5371.0	5954.4	0.0562	mg/L	2.808	ppm
2	Ag 328.068	-867.3	206.7	0.0010	mg/L	0.0512	ppm
2	Al 308.215	383730.5	379133.0	10.39	mg/L	519.6	ppm
2	As 188.979	-4.1	-73.5	0.0298	mg/L	1.490	ppm
2	Ba 233.527	66606.8	67472.4	0.1910	mg/L	9.550	ppm
2	Be 313.107	-402.4	11.8	0.0000	mg/L	0.0002	ppm
2	Ca 227.547	583710.3	583426.8	2231	mg/L	111600	ppm
2	Cd 228.802	212.3	122.5	0.0010	mg/L	0.0484	ppm

2	Co 228.616	228.8	645.5	0.0061	mg/L	0.3051 ppm
2	Cr 267.716	2600.1	2759.9	0.0305	mg/L	1.526 ppm
2	Cu 324.754	3729.6	1442.7	0.0045	mg/L	0.2264 ppm
2	Fe 273.955	1039187.5	1036197.6	20.81	mg/L	1040 ppm
2	Mg 279.079	966631.7	966035.5	30.42	mg/L	1521 ppm
2	Mn 257.610	1429333.6	1428212.8	0.8998	mg/L	44.99 ppm
2	Mo 202.030	-107.6	-79.1	-0.0042	mg/L	-0.2096 ppm
2	Ni 231.604	994.7	719.5	0.0142	mg/L	0.7109 ppm
2	Pb 220.353	142.9	-42.0	0.0052	mg/L	0.2587 ppm
2	Sb 206.833	64.8	4.1	0.0010	mg/L	0.0493 ppm
2	Se 196.026	64.7	-19.6	-0.0008	mg/L	-0.0423 ppm
2	Tl 190.800	225.7	37.2	0.0104	mg/L	0.5207 ppm
2	V 292.402	4725.2	4562.5	0.0409	mg/L	2.046 ppm
2	Zn 213.856	5413.0	5996.4	0.0566	mg/L	2.828 ppm
3	Ag 328.068	-978.1	95.8	0.0005	mg/L	0.0238 ppm
3	Al 308.215	378080.2	373482.6	10.24	mg/L	511.8 ppm
3	As 188.979	-0.2	-69.6	0.0311	mg/L	1.553 ppm
3	Ba 233.527	65151.2	66016.8	0.1869	mg/L	9.344 ppm
3	Be 313.107	-321.3	92.9	0.0000	mg/L	0.0017 ppm
3	Ca 227.547	581337.5	581054.1	2222	mg/L	111100 ppm
3	Cd 228.802	176.5	86.8	0.0007	mg/L	0.0342 ppm
3	Co 228.616	240.0	656.7	0.0062	mg/L	0.3104 ppm
3	Cr 267.716	2584.0	2743.8	0.0303	mg/L	1.517 ppm
3	Cu 324.754	3878.2	1591.3	0.0050	mg/L	0.2498 ppm
3	Fe 273.955	1022988.2	1019998.4	20.48	mg/L	1024 ppm
3	Mg 279.079	959053.8	958457.6	30.18	mg/L	1509 ppm
3	Mn 257.610	1421121.7	1420001.0	0.8946	mg/L	44.73 ppm
3	Mo 202.030	-103.8	-75.3	-0.0040	mg/L	-0.1993 ppm
3	Ni 231.604	1004.2	729.0	0.0144	mg/L	0.7203 ppm
3	Pb 220.353	153.3	-31.6	0.0058	mg/L	0.2920 ppm
3	Sb 206.833	61.2	0.6	0.0001	mg/L	0.0066 ppm
3	Se 196.026	59.5	-24.8	-0.0028	mg/L	-0.1425 ppm
3	Tl 190.800	232.9	44.4	0.0126	mg/L	0.6277 ppm
3	V 292.402	4574.6	4411.9	0.0396	mg/L	1.978 ppm
3	Zn 213.856	5358.6	5942.0	0.0560	mg/L	2.802 ppm

Mean Data

ID: 6148-15 F=50 Seq. No.: 67 Sample No.: 47 A/S Pos: 55
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:51:12 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	172.3	0.0009	0.00033	mg/L	0.0427	0.01643	ppm	38.49%
Al 308.215	378327.2	10.37	0.123	mg/L	518.5	6.16	ppm	1.19%
As 188.979	-71.8	0.0308	0.00091	mg/L	1.540	0.0455	ppm	2.95%
Ba 233.527	67156.2	0.1901	0.00288	mg/L	9.505	0.1442	ppm	1.52%
Be 313.107	16.3	0.0000	0.00003	mg/L	0.0003	0.00134	ppm	455.09%
Ca 227.547	586872.3	2245	31.0	mg/L	112200	1550.9	ppm	1.38%
Cd 228.802	110.0	0.0009	0.00016	mg/L	0.0434	0.00794	ppm	18.29%
Co 228.616	647.3	0.0061	0.00008	mg/L	0.3059	0.00411	ppm	1.35%
Cr 267.716	2756.3	0.0305	0.00012	mg/L	1.524	0.0061	ppm	0.40%
Cu 324.754	1534.0	0.0048	0.00025	mg/L	0.2408	0.01255	ppm	5.21%
Fe 273.955	1033151.5	20.75	0.239	mg/L	1037	12.0	ppm	1.15%
Mg 279.079	968389.6	30.49	0.356	mg/L	1525	17.8	ppm	1.17%
Mn 257.610	1435362.1	0.9043	0.01255	mg/L	45.22	0.628	ppm	1.39%
Mo 202.030	-77.4	-0.0041	0.00010	mg/L	-0.2049	0.00522	ppm	2.55%
Ni 231.604	732.7	0.0145	0.00030	mg/L	0.7239	0.01512	ppm	2.09%
Pb 220.353	-39.7	0.0054	0.00041	mg/L	0.2687	0.02031	ppm	7.56%
Sb 206.833	4.3	0.0010	0.00092	mg/L	0.0516	0.04618	ppm	89.52%
Se 196.026	-19.5	-0.0008	0.00201	mg/L	-0.0421	0.10041	ppm	238.25%
Tl 190.800	41.2	0.0116	0.00109	mg/L	0.5809	0.05474	ppm	9.42%
V 292.402	4530.8	0.0406	0.00096	mg/L	2.032	0.0478	ppm	2.35%
Zn 213.856	5964.3	0.0563	0.00027	mg/L	2.813	0.0135	ppm	0.48%

Replicate Data

ID: 6233-1 F=50 Date: 11/21/02 2:54:24 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units

1	Ag 328.068	-2180.7	-1106.7	-0.0055	mg/L	-0.2743	ppm
1	Al 308.215	3268033.7	3263436.1	89.45	mg/L	4472	ppm
1	As 188.979	442.4	372.9	0.1625	mg/L	8.126	ppm
1	Ba 233.527	166146.6	167012.2	0.4728	mg/L	23.64	ppm
1	Be 313.107	-2909.5	-2495.3	-0.0009	mg/L	-0.0450	ppm
1	Ca 227.547	77971.7	77688.3	303.8	mg/L	15190	ppm
1	Cd 228.802	362.4	272.6	0.0022	mg/L	0.1076	ppm
1	Co 228.616	16594.2	17010.9	0.1608	mg/L	8.040	ppm
1	Cr 267.716	52477.9	52637.7	0.5746	mg/L	28.73	ppm
1	Cu 324.754	50007.4	47720.4	0.1636	mg/L	8.178	ppm
1	Fe 273.955	14965436.6	14962446.8	300.5	mg/L	15020	ppm
1	Mg 279.079	2670438.6	2669842.5	84.06	mg/L	4203	ppm
1	Mn 257.610	8426705.8	8425585.1	5.308	mg/L	265.4	ppm
1	Mo 202.030	86.8	115.3	-0.0056	mg/L	-0.2779	ppm
1	Ni 231.604	33124.7	32849.5	0.6491	mg/L	32.46	ppm
1	Pb 220.353	6623.7	6438.8	0.4348	mg/L	21.74	ppm
1	Sb 206.833	174.2	113.6	-0.0046	mg/L	-0.2282	ppm
1	Se 196.026	-92.5	-176.8	0.0197	mg/L	0.9849	ppm
1	Tl 190.800	293.1	104.6	-0.0305	mg/L	-1.526	ppm
1	V 292.402	50069.5	49906.8	0.4476	mg/L	22.38	ppm
1	Zn 213.856	123969.0	124552.4	1.143	mg/L	57.15	ppm
2	Ag 328.068	-2142.2	-1068.2	-0.0053	mg/L	-0.2648	ppm
2	Al 308.215	3271417.5	3266819.9	89.54	mg/L	4477	ppm
2	As 188.979	444.3	374.9	0.1629	mg/L	8.144	ppm
2	Ba 233.527	165037.0	165902.6	0.4696	mg/L	23.48	ppm
2	Be 313.107	-2864.4	-2450.2	-0.0009	mg/L	-0.0442	ppm
2	Ca 227.547	77172.2	76888.7	300.6	mg/L	15030	ppm
2	Cd 228.802	352.9	263.2	0.0021	mg/L	0.1038	ppm
2	Co 228.616	16224.0	16640.7	0.1573	mg/L	7.865	ppm
2	Cr 267.716	51847.7	52007.5	0.5678	mg/L	28.39	ppm
2	Cu 324.754	49545.4	47258.5	0.1618	mg/L	8.092	ppm
2	Fe 273.955	14666240.4	14663250.6	294.5	mg/L	14720	ppm
2	Mg 279.079	2658419.3	2657823.1	83.68	mg/L	4184	ppm
2	Mn 257.610	8156071.0	8154950.3	5.138	mg/L	256.9	ppm
2	Mo 202.030	26.9	55.4	-0.0085	mg/L	-0.4247	ppm
2	Ni 231.604	32490.7	32215.5	0.6366	mg/L	31.83	ppm
2	Pb 220.353	6599.4	6414.5	0.4332	mg/L	21.66	ppm
2	Sb 206.833	191.6	131.0	0.0000	mg/L	0.0020	ppm
2	Se 196.026	-118.0	-202.3	0.0086	mg/L	0.4307	ppm
2	Tl 190.800	311.8	123.3	-0.0242	mg/L	-1.209	ppm
2	V 292.402	49699.6	49536.8	0.4443	mg/L	22.21	ppm
2	Zn 213.856	123460.3	124043.7	1.139	mg/L	56.94	ppm
3	Ag 328.068	-2075.4	-1001.5	-0.0050	mg/L	-0.2482	ppm
3	Al 308.215	3276824.9	3272227.3	89.69	mg/L	4484	ppm
3	As 188.979	502.9	433.4	0.1853	mg/L	9.264	ppm
3	Ba 233.527	165853.4	166719.0	0.4719	mg/L	23.60	ppm
3	Be 313.107	-2985.1	-2570.9	-0.0009	mg/L	-0.0464	ppm
3	Ca 227.547	77871.5	77588.0	303.1	mg/L	15160	ppm
3	Cd 228.802	382.3	292.5	0.0023	mg/L	0.1154	ppm
3	Co 228.616	17254.5	17671.2	0.1670	mg/L	8.352	ppm
3	Cr 267.716	52933.3	53093.1	0.5799	mg/L	29.00	ppm
3	Cu 324.754	49619.9	47332.9	0.1618	mg/L	8.089	ppm
3	Fe 273.955	14359945.2	14356955.3	288.3	mg/L	14420	ppm
3	Mg 279.079	2662789.2	2662193.0	83.82	mg/L	4191	ppm
3	Mn 257.610	8011526.9	8010406.2	5.047	mg/L	252.3	ppm
3	Mo 202.030	68.6	97.1	-0.0060	mg/L	-0.3023	ppm
3	Ni 231.604	34187.9	33912.7	0.6701	mg/L	33.51	ppm
3	Pb 220.353	6882.8	6698.0	0.4523	mg/L	22.61	ppm
3	Sb 206.833	173.5	112.8	-0.0044	mg/L	-0.2207	ppm
3	Se 196.026	-137.3	-221.6	-0.0002	mg/L	-0.0120	ppm
3	Tl 190.800	369.1	180.6	-0.0066	mg/L	-0.3295	ppm
3	V 292.402	50550.5	50387.8	0.4519	mg/L	22.60	ppm
3	Zn 213.856	123212.4	123795.8	1.137	mg/L	56.85	ppm

Mean Data ----------

ID: 6233-1 F=50 Seq. No.: 68 Sample No.: 48 A/S Pos: 56

ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 2:54:24 PM

Mean Corr.	Mean	Calib	Mean	Sample

012762

Element	Intensity	Conc.	Std.Dev.	Units	Conc.	Std.Dev.	Units	RSD
Ag 328.068	-1058.8	-0.0052	0.00026	mg/L	-0.2624	0.01320	ppm	5.03%
Al 308.215	3267494.5	89.56	0.122	mg/L	4478	6.1	ppm	0.14%
As 188.979	393.7	0.1702	0.01303	mg/L	8.511	0.6516	ppm	7.66%
Ba 233.527	166544.6	0.4714	0.00163	mg/L	23.57	0.081	ppm	0.35%
Be 313.107	-2505.4	-0.0009	0.00002	mg/L	-0.0452	0.00110	ppm	2.43%
Ca 227.547	77388.3	302.5	1.69	mg/L	15120	84.3	ppm	0.56%
Cd 228.802	276.1	0.0022	0.00012	mg/L	0.1090	0.00591	ppm	5.43%
Co 228.616	17107.6	0.1617	0.00493	mg/L	8.086	0.2467	ppm	3.05%
Cr 267.716	52579.4	0.5741	0.00609	mg/L	28.71	0.305	ppm	1.06%
Cu 324.754	47437.3	0.1624	0.00101	mg/L	8.120	0.0505	ppm	0.62%
Fe 273.955	14660884.2	294.4	6.08	mg/L	14720	304.0	ppm	2.07%
Mg 279.079	2663286.2	83.85	0.192	mg/L	4193	9.6	ppm	0.23%
Mn 257.610	8196980.5	5.164	0.1328	mg/L	258.2	6.64	ppm	2.57%
Mo 202.030	89.3	-0.0067	0.00157	mg/L	-0.3350	0.07869	ppm	23.49%
Ni 231.604	32992.6	0.6519	0.01695	mg/L	32.60	0.847	ppm	2.60%
Pb 220.353	6517.1	0.4401	0.01055	mg/L	22.01	0.528	ppm	2.40%
Sb 206.833	119.2	-0.0030	0.00262	mg/L	-0.1490	0.13082	ppm	87.82%
Se 196.026	-200.2	0.0094	0.00999	mg/L	0.4679	0.49944	ppm	106.75%
Tl 190.800	136.1	-0.0204	0.01240	mg/L	-1.021	0.6198	ppm	60.68%
V 292.402	49943.8	0.4479	0.00383	mg/L	22.40	0.191	ppm	0.85%
Zn 213.856	124130.7	1.140	0.0030	mg/L	56.98	0.151	ppm	0.26%

Replicate Data ----------

ID: 6233-2 F=50 Date: 11/21/02 2:57:07 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-2120.3	-1046.4	-0.0052	mg/L	-0.2594	ppm
1	Al 308.215	2523043.4	2518445.8	69.03	mg/L	3451	ppm
1	As 188.979	337.8	268.4	0.1174	mg/L	5.872	ppm
1	Ba 233.527	104749.2	105614.8	0.2990	mg/L	14.95	ppm
1	Be 313.107	-2504.3	-2090.1	-0.0008	mg/L	-0.0377	ppm
1	Ca 227.547	56105.3	55821.9	218.5	mg/L	10930	ppm
1	Cd 228.802	160.4	70.6	0.0006	mg/L	0.0279	ppm
1	Co 228.616	13516.4	13933.1	0.1317	mg/L	6.585	ppm
1	Cr 267.716	41138.3	41298.1	0.4510	mg/L	22.55	ppm
1	Cu 324.754	38309.3	36022.4	0.1235	mg/L	6.175	ppm
1	Fe 273.955	11332711.6	11329721.8	227.5	mg/L	11380	ppm
1	Mg 279.079	1992194.5	1991598.3	62.71	mg/L	3135	ppm
1	Mn 257.610	8981624.2	8980503.5	5.658	mg/L	282.9	ppm
1	Mo 202.030	12.6	41.1	-0.0067	mg/L	-0.3328	ppm
1	Ni 231.604	28294.5	28019.2	0.5537	mg/L	27.68	ppm
1	Pb 220.353	4033.8	3848.9	0.2598	mg/L	12.99	ppm
1	Sb 206.833	122.8	62.2	-0.0097	mg/L	-0.4831	ppm
1	Se 196.026	-172.5	-256.8	-0.0298	mg/L	-1.491	ppm
1	Tl 190.800	333.0	144.5	-0.0043	mg/L	-0.2141	ppm
1	V 292.402	41554.5	41391.7	0.3712	mg/L	18.56	ppm
1	Zn 213.856	87229.1	87812.5	0.8041	mg/L	40.21	ppm
2	Ag 328.068	-1942.5	-868.6	-0.0043	mg/L	-0.2153	ppm
2	Al 308.215	2519797.5	2515199.9	68.94	mg/L	3447	ppm
2	As 188.979	305.8	236.3	0.1054	mg/L	5.272	ppm
2	Ba 233.527	104785.4	105651.0	0.2991	mg/L	14.95	ppm
2	Be 313.107	-2804.4	-2390.2	-0.0009	mg/L	-0.0431	ppm
2	Ca 227.547	56311.1	56027.7	219.4	mg/L	10970	ppm
2	Cd 228.802	145.9	56.1	0.0004	mg/L	0.0221	ppm
2	Co 228.616	13357.9	13774.6	0.1302	mg/L	6.511	ppm
2	Cr 267.716	41380.0	41539.8	0.4535	mg/L	22.68	ppm
2	Cu 324.754	38664.3	36377.4	0.1249	mg/L	6.244	ppm
2	Fe 273.955	11621530.5	11618540.7	233.3	mg/L	11670	ppm
2	Mg 279.079	1988931.0	1988334.9	62.60	mg/L	3130	ppm
2	Mn 257.610	9309951.0	9308830.2	5.865	mg/L	293.2	ppm
2	Mo 202.030	-0.5	28.0	-0.0076	mg/L	-0.3787	ppm
2	Ni 231.604	27600.8	27325.6	0.5400	mg/L	27.00	ppm
2	Pb 220.353	3978.1	3793.2	0.2561	mg/L	12.80	ppm
2	Sb 206.833	139.5	78.9	-0.0060	mg/L	-0.2986	ppm
2	Se 196.026	-29.0	-113.3	0.0240	mg/L	1.202	ppm
2	Tl 190.800	321.2	132.6	-0.0086	mg/L	-0.4295	ppm
2	V 292.402	42066.3	41903.5	0.3758	mg/L	18.79	ppm
2	Zn 213.856	87838.6	88422.0	0.8093	mg/L	40.46	ppm

3 Ag 328.068	-1992.4	-918.5	-0.0046	mg/L	-0.2277 ppm
3 Al 308.215	2544329.5	2539732.0	69.61	mg/L	3481 ppm
3 As 188.979	353.3	283.9	0.1236	mg/L	6.179 ppm
3 Ba 233.527	105599.9	106465.5	0.3014	mg/L	15.07 ppm
3 Be 313.107	-2660.5	-2246.3	-0.0008	mg/L	-0.0405 ppm
3 Ca 227.547	57112.7	56829.2	222.4	mg/L	11120 ppm
3 Cd 228.802	145.8	56.1	0.0004	mg/L	0.0221 ppm
3 Co 228.616	13429.4	13846.1	0.1309	mg/L	6.544 ppm
3 Cr 267.716	41625.2	41785.0	0.4564	mg/L	22.82 ppm
3 Cu 324.754	39198.0	36911.1	0.1264	mg/L	6.318 ppm
3 Fe 273.955	11410820.0	11407830.1	229.1	mg/L	11450 ppm
3 Mg 279.079	2014738.7	2014142.6	63.42	mg/L	3171 ppm
3 Mn 257.610	9210072.7	9208952.0	5.802	mg/L	290.1 ppm
3 Mo 202.030	-44.8	-16.3	-0.0098	mg/L	-0.4877 ppm
3 Ni 231.604	28127.4	27852.2	0.5504	mg/L	27.52 ppm
3 Pb 220.353	4023.5	3838.6	0.2592	mg/L	12.96 ppm
3 Sb 206.833	145.3	84.7	-0.0045	mg/L	-0.2259 ppm
3 Se 196.026	-75.4	-159.7	0.0059	mg/L	0.2938 ppm
3 Tl 190.800	317.7	129.1	-0.0091	mg/L	-0.4540 ppm
3 V 292.402	42312.8	42150.1	0.3780	mg/L	18.90 ppm
3 Zn 213.856	89632.5	90215.9	0.8266	mg/L	41.33 ppm

ean Data ----------

ID: 6233-2 F=50 Seq. No.: 69 Sample No.: 49 A/S Pos: 57
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:57:07 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-944.5	-0.0047	0.00045	mg/L	-0.2341	0.02273	ppm	9.71%
. 308.215	2524459.2	69.19	0.365	mg/L	3460	18.3	ppm	0.53%
s 188.979	262.9	0.1155	0.00923	mg/L	5.774	0.4614	ppm	7.99%
Ba 233.527	105910.4	0.2998	0.00136	mg/L	14.99	0.068	ppm	0.45%
Be 313.107	-2242.2	-0.0008	0.00005	mg/L	-0.0405	0.00271	ppm	6.69%
a 227.547	56226.3	220.1	2.03	mg/L	11010	101.6	ppm	0.92%
d 228.802	60.9	0.0005	0.00007	mg/L	0.0241	0.00331	ppm	13.78%
Co 228.616	13851.3	0.1309	0.00075	mg/L	6.547	0.0375	ppm	0.57%
Cr 267.716	41541.0	0.4536	0.00267	mg/L	22.68	0.134	ppm	0.59%
u 324.754	36436.9	0.1249	0.00143	mg/L	6.246	0.0716	ppm	1.15%
e 273.955	11452030.9	230.0	3.00	mg/L	11500	150.0	ppm	1.30%
Mg 279.079	1998025.3	62.91	0.442	mg/L	3145	22.1	ppm	0.70%
Mn 257.610	9166095.2	5.775	0.1060	mg/L	288.7	5.30	ppm	1.84%
o 202.030	17.6	-0.0080	0.00159	mg/L	-0.3998	0.07957	ppm	19.90%
i 231.604	27732.3	0.5480	0.00715	mg/L	27.40	0.358	ppm	1.31%
b 220.353	3826.9	0.2584	0.00201	mg/L	12.92	0.101	ppm	0.78%
Sb 206.833	75.2	-0.0067	0.00265	mg/L	-0.3359	0.13260	ppm	39.48%
e 196.026	-176.6	0.0000	0.02740	mg/L	0.0017	1.36996	ppm	>999.9%
l 190.800	135.4	-0.0073	0.00264	mg/L	-0.3658	0.13199	ppm	36.08%
v 292.402	41815.1	0.3750	0.00347	mg/L	18.75	0.173	ppm	0.93%
Zn 213.856	88816.8	0.8133	0.01179	mg/L	40.67	0.590	ppm	1.45%

eplicate Data ----------

D: CCV 1379B Date: 11/21/02 3:00:10 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	201355.9	202429.9	1.003	mg/L		
1	Al 308.215	188026.4	183428.8	5.027	mg/L		
1	As 188.979	1420.5	1351.0	0.5239	mg/L		
1	Ba 233.527	1773721.5	1774587.1	5.023	mg/L		
1	Be 313.107	1416951.5	1417365.7	0.5115	mg/L		
1	Ca 227.547	14151.7	13868.2	53.04	mg/L		
1	Cd 228.802	134672.2	134582.4	1.062	mg/L		
1	Co 228.616	225149.8	225566.5	2.132	mg/L		
1	Cr 267.716	45066.5	45226.3	0.5001	mg/L		
1	Cu 324.754	655348.9	653062.0	2.050	mg/L		
1	Fe 273.955	253137.2	250147.4	5.024	mg/L		
1	Mg 279.079	810802.3	810206.1	25.51	mg/L		
1	Mn 257.610	3323244.7	3322124.0	2.093	mg/L		
1	Mo 202.030	38667.3	38695.8	2.050	mg/L		

1	Ni 231.604	108814.3	108539.1	2.145 mg/L
1	Pb 220.353	7784.2	7599.3	0.5085 mg/L
1	Sb 206.833	8777.7	8717.0	2.070 mg/L
1	Se 196.026	1455.5	1371.2	0.4995 mg/L
1	Tl 190.800	1962.8	1774.2	0.5158 mg/L
1	V 292.402	220975.5	220812.8	1.980 mg/L
1	Zn 213.856	219045.7	219629.1	2.071 mg/L
2	Ag 328.068	204617.1	205691.1	1.020 mg/L
2	Al 308.215	190933.8	186336.2	5.107 mg/L
2	As 188.979	1419.9	1350.5	0.5237 mg/L
2	Ba 233.527	1805642.6	1806508.2	5.114 mg/L
2	Be 313.107	1441404.5	1441818.7	0.5204 mg/L
2	Ca 227.547	14075.3	13791.8	52.75 mg/L
2	Cd 228.802	136130.4	136040.7	1.074 mg/L
2	Co 228.616	227889.4	228306.1	2.158 mg/L
2	Cr 267.716	45491.7	45651.4	0.5048 mg/L
2	Cu 324.754	668315.3	666028.4	2.091 mg/L
2	Fe 273.955	255426.8	252437.0	5.069 mg/L
2	Mg 279.079	822267.3	821671.2	25.87 mg/L
2	Mn 257.610	3358910.4	3357789.6	2.115 mg/L
2	Mo 202.030	39066.3	39094.8	2.071 mg/L
2	Ni 231.604	109886.7	109611.5	2.166 mg/L
2	Pb 220.353	7762.2	7577.3	0.5070 mg/L
2	Sb 206.833	8757.3	8696.6	2.065 mg/L
2	Se 196.026	1467.6	1383.3	0.5040 mg/L
2	Tl 190.800	1935.1	1746.6	0.5078 mg/L
2	V 292.402	224205.7	224042.9	2.009 mg/L
2	Zn 213.856	221697.1	222280.5	2.096 mg/L
3	Ag 328.068	200454.6	201528.6	0.9990 mg/L
3	Al 308.215	188160.6	183563.0	5.031 mg/L
3	As 188.979	1423.4	1354.0	0.5249 mg/L
3	Ba 233.527	1830788.0	1831653.6	5.185 mg/L
3	Be 313.107	1469592.2	1470006.4	0.5305 mg/L
3	Ca 227.547	14075.8	13792.4	52.75 mg/L
3	Cd 228.802	133600.3	133510.5	1.054 mg/L
3	Co 228.616	223426.4	223843.1	2.116 mg/L
3	Cr 267.716	44396.0	44555.8	0.4927 mg/L
3	Cu 324.754	678428.6	676141.7	2.122 mg/L
3	Fe 273.955	252354.2	249364.4	5.008 mg/L
3	Mg 279.079	835794.6	835198.5	26.30 mg/L
3	Mn 257.610	3403093.2	3401972.5	2.143 mg/L
3	Mo 202.030	38889.7	38918.2	2.062 mg/L
3	Ni 231.604	108770.5	108495.3	2.144 mg/L
3	Pb 220.353	7761.6	7576.7	0.5070 mg/L
3	Sb 206.833	8816.1	8755.4	2.080 mg/L
3	Se 196.026	1476.9	1392.7	0.5073 mg/L
3	Tl 190.800	1953.0	1764.4	0.5130 mg/L
3	V 292.402	218655.0	218492.2	1.960 mg/L
3	Zn 213.856	218433.5	219016.9	2.066 mg/L

Mean Data ----------

ID: CCV 1379B
Sample Qty: 1.0000 g
Seq. No.: 70
Prep. Vol.:
Data: Original
Sample No.: 5
1.0 L
A/S Pos: 6
Dilution: 1.0: 1.0
Date: 11/21/02 3:00:10 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	203216.5	1.007	0.0109	mg/L				1.08%
Al 308.215	184442.7	5.055	0.0450	mg/L				0.89%
As 188.979	1351.8	0.5242	0.00067	mg/L				0.13%
Ba 233.527	1804249.7	5.107	0.0810	mg/L				1.59%
Be 313.107	1443063.6	0.5208	0.00951	mg/L				1.83%
Ca 227.547	13817.5	52.85	0.168	mg/L				0.32%
Cd 228.802	134711.2	1.063	0.0100	mg/L				0.94%
Co 228.616	225905.2	2.135	0.0213	mg/L				1.00%
Cr 267.716	45144.5	0.4992	0.00611	mg/L				1.22%
Cu 324.754	665077.4	2.088	0.0363	mg/L				1.74%
Fe 273.955	250649.6	5.034	0.0321	mg/L				0.64%
Mg 279.079	822358.6	25.89	0.394	mg/L				1.52%
Mn 257.610	3360628.7	2.117	0.0252	mg/L				1.19%

o	202.030	38902.9	2.061	0.0106 mg/L	0.51%
i	231.604	108882.0	2.152	0.0125 mg/L	0.58%
b	220.353	7584.4	0.5075	0.00086 mg/L	0.17%
Sb	206.833	8723.0	2.072	0.0073 mg/L	0.35%
e	196.026	1382.4	0.5036	0.00391 mg/L	0.78%
l	190.800	1761.7	0.5122	0.00408 mg/L	0.80%
	292.402	221116.0	1.983	0.0250 mg/L	1.26%
Zn	213.856	220308.8	2.078	0.0164 mg/L	0.79%

eplicate Data ----------

D: CCB Date: 11/21/02 3:04:24 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-1077.8	-3.9	0.0000	mg/L		
1	Al 308.215	5135.0	537.4	0.0147	mg/L		
1	As 188.979	71.8	2.4	0.0009	mg/L		
1	Ba 233.527	-843.7	21.9	0.0001	mg/L		
1	Be 313.107	-84.2	330.1	0.0001	mg/L		
1	Ca 227.547	285.9	2.4	0.0093	mg/L		
1	Cd 228.802	77.2	-12.6	-0.0001	mg/L		
1	Co 228.616	-346.0	70.7	0.0007	mg/L		
1	Cr 267.716	-127.4	32.4	0.0004	mg/L		
1	Cu 324.754	2058.8	-228.1	-0.0007	mg/L		
1	Fe 273.955	2980.7	-9.2	-0.0002	mg/L		
1	Mg 279.079	-314.5	-910.6	-0.0287	mg/L		
1	Mn 257.610	1916.6	795.8	0.0005	mg/L		
1	Mo 202.030	-26.3	2.2	0.0001	mg/L		
1	Ni 231.604	345.8	70.6	0.0014	mg/L		
1	Pb 220.353	195.3	10.4	0.0007	mg/L		
1	Sb 206.833	66.7	6.0	0.0014	mg/L		
1	Se 196.026	87.8	3.5	0.0013	mg/L		
1	Tl 190.800	193.6	5.1	0.0015	mg/L		
1	V 292.402	357.9	195.2	0.0018	mg/L		
1	Zn 213.856	-419.2	164.2	0.0015	mg/L		
2	Ag 328.068	-1171.3	-97.4	-0.0005	mg/L		
2	Al 308.215	5199.4	601.9	0.0165	mg/L		
2	As 188.979	68.2	-1.2	-0.0005	mg/L		
2	Ba 233.527	-785.1	80.5	0.0002	mg/L		
2	Be 313.107	-76.6	337.6	0.0001	mg/L		
2	Ca 227.547	283.7	0.2	0.0009	mg/L		
2	Cd 228.802	70.5	-19.3	-0.0002	mg/L		
2	Co 228.616	-383.1	33.6	0.0003	mg/L		
2	Cr 267.716	-107.7	52.1	0.0006	mg/L		
2	Cu 324.754	2003.8	-283.2	-0.0009	mg/L		
2	Fe 273.955	2807.8	-182.0	-0.0037	mg/L		
2	Mg 279.079	-352.2	-948.3	-0.0299	mg/L		
2	Mn 257.610	1845.7	725.0	0.0005	mg/L		
2	Mo 202.030	-20.8	7.7	0.0004	mg/L		
2	Ni 231.604	334.7	59.5	0.0012	mg/L		
2	Pb 220.353	188.7	3.8	0.0003	mg/L		
2	Sb 206.833	65.3	4.7	0.0011	mg/L		
2	Se 196.026	71.5	-12.8	-0.0046	mg/L		
2	Tl 190.800	186.3	-2.2	-0.0007	mg/L		
2	V 292.402	338.6	175.9	0.0016	mg/L		
2	Zn 213.856	-441.7	141.7	0.0013	mg/L		
3	Ag 328.068	-950.9	123.1	0.0006	mg/L		
3	Al 308.215	5050.7	453.2	0.0124	mg/L		
3	As 188.979	67.7	-1.8	-0.0007	mg/L		
3	Ba 233.527	-778.6	87.0	0.0002	mg/L		
3	Be 313.107	-40.2	374.0	0.0001	mg/L		
3	Ca 227.547	366.9	83.4	0.3190	mg/L		
3	Cd 228.802	113.4	23.6	0.0002	mg/L		
3	Co 228.616	-405.9	10.8	0.0001	mg/L		
3	Cr 267.716	-153.1	6.7	0.0001	mg/L		
3	Cu 324.754	2198.2	-88.8	-0.0003	mg/L		
3	Fe 273.955	2584.7	-405.1	-0.0081	mg/L		
3	Mg 279.079	-187.0	-783.2	-0.0247	mg/L		
3	Mn 257.610	1746.5	625.8	0.0004	mg/L		

3 Mo 202.030	-21.8	6.7	0.0004	mg/L
3 Ni 231.604	252.0	-23.3	-0.0005	mg/L
3 Pb 220.353	184.2	-0.7	0.0000	mg/L
3 Sb 206.833	71.6	11.0	0.0026	mg/L
3 Se 196.026	71.9	-12.4	-0.0045	mg/L
3 Tl 190.800	194.7	6.2	0.0018	mg/L
3 V 292.402	200.4	37.6	0.0003	mg/L
3 Zn 213.856	-479.2	104.2	0.0010	mg/L

Mean Data ----------

ID: CCB

Sample Qty: 1.0000 g | Seq. No.: 71 | Prep. Vol.: | Data: Original | Sample No.: 6 | 1.0 L | A/S Pos: 1 | Dilution: 1.0: 1.0 | Date: 11/21/02 3:04:24 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	7.3	0.0000	0.00055	mg/L				>999.9%
Al 308.215	530.8	0.0145	0.00204	mg/L				14.05%
As 188.979	-0.2	-0.0001	0.00086	mg/L				>999.9%
Ba 233.527	63.2	0.0002	0.00010	mg/L				56.76%
Be 313.107	347.2	0.0001	0.00001	mg/L				6.77%
Ca 227.547	28.7	0.1097	0.18126	mg/L				165.18%
Cd 228.802	-2.7	0.0000	0.00018	mg/L				840.87%
Co 228.616	38.4	0.0004	0.00029	mg/L				78.77%
Cr 267.716	30.4	0.0003	0.00025	mg/L				74.97%
Cu 324.754	-200.0	-0.0006	0.00031	mg/L				50.10%
Fe 273.955	-198.8	-0.0040	0.00399	mg/L				99.87%
Mg 279.079	-880.7	-0.0277	0.00272	mg/L				9.83%
Mn 257.610	715.5	0.0005	0.00005	mg/L				11.94%
Mo 202.030	5.6	0.0003	0.00016	mg/L				52.87%
Ni 231.604	35.6	0.0007	0.00101	mg/L				144.00%
Pb 220.353	4.5	0.0003	0.00037	mg/L				123.87%
Sb 206.833	7.2	0.0017	0.00079	mg/L				45.73%
Se 196.026	-7.2	-0.0026	0.00337	mg/L				129.13%
Tl 190.800	3.0	0.0009	0.00133	mg/L				152.31%
V 292.402	136.2	0.0012	0.00077	mg/L				63.07%
Zn 213.856	136.7	0.0013	0.00029	mg/L				22.15%

Replicate Data ----------

ID: M-BL 02M2370S

Date: 11/21/02 3:07:45 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-979.7	94.2	0.0005	mg/L	0.0234	ppm
1	Al 308.215	5235.6	638.0	0.0175	mg/L	0.8744	ppm
1	As 188.979	71.8	2.4	0.0009	mg/L	0.0459	ppm
1	Ba 233.527	-849.3	16.3	0.0000	mg/L	0.0023	ppm
1	Be 313.107	-138.2	276.0	0.0001	mg/L	0.0050	ppm
1	Ca 227.547	205.6	-77.9	-0.2978	mg/L	-14.89	ppm
1	Cd 228.802	73.5	-16.2	-0.0001	mg/L	-0.0064	ppm
1	Co 228.616	-346.0	70.7	0.0007	mg/L	0.0334	ppm
1	Cr 267.716	-136.5	23.3	0.0003	mg/L	0.0129	ppm
1	Cu 324.754	2105.0	-181.9	-0.0006	mg/L	-0.0285	ppm
1	Fe 273.955	3191.7	201.9	0.0041	mg/L	0.2027	ppm
1	Mg 279.079	-138.3	-734.4	-0.0231	mg/L	-1.156	ppm
1	Mn 257.610	1778.4	657.6	0.0004	mg/L	0.0207	ppm
1	Mo 202.030	-36.4	-7.9	-0.0004	mg/L	-0.0208	ppm
1	Ni 231.604	312.9	37.7	0.0007	mg/L	0.0372	ppm
1	Pb 220.353	208.6	23.7	0.0016	mg/L	0.0793	ppm
1	Sb 206.833	63.4	2.7	0.0007	mg/L	0.0325	ppm
1	Se 196.026	80.4	-3.9	-0.0014	mg/L	-0.0703	ppm
1	Tl 190.800	186.0	-2.5	-0.0007	mg/L	-0.0367	ppm
1	V 292.402	175.3	12.5	0.0001	mg/L	0.0056	ppm
1	Zn 213.856	-321.2	262.2	0.0025	mg/L	0.1237	ppm
2	Ag 328.068	-996.2	77.7	0.0004	mg/L	0.0193	ppm
2	Al 308.215	5028.3	430.7	0.0118	mg/L	0.5903	ppm
2	As 188.979	65.1	-4.3	-0.0017	mg/L	-0.0833	ppm
2	Ba 233.527	-849.9	15.7	0.0000	mg/L	0.0022	ppm
2	Be 313.107	-119.9	294.4	0.0001	mg/L	0.0053	ppm
2	Ca 227.547	195.5	-87.9	-0.3363	mg/L	-16.82	ppm

2 Cd 228.802	84.3	-5.4	0.0000 mg/L	-0.0021 ppm
2 Co 228.616	-391.8	24.9	0.0002 mg/L	0.0118 ppm
2 Cr 267.716	-111.2	48.5	0.0005 mg/L	0.0268 ppm
2 Cu 324.754	2233.6	-53.3	-0.0002 mg/L	-0.0084 ppm
2 Fe 273.955	2904.4	-85.4	-0.0017 mg/L	-0.0858 ppm
2 Mg 279.079	-217.2	-813.4	-0.0256 mg/L	-1.280 ppm
2 Mn 257.610	1715.7	595.0	0.0004 mg/L	0.0187 ppm
2 Mo 202.030	-28.1	0.4	0.0000 mg/L	0.0011 ppm
2 Ni 231.604	391.5	116.3	0.0023 mg/L	0.1149 ppm
2 Pb 220.353	182.9	-2.0	-0.0001 mg/L	-0.0068 ppm
2 Sb 206.833	69.2	8.6	0.0020 mg/L	0.1024 ppm
2 Se 196.026	74.7	-9.6	-0.0035 mg/L	-0.1737 ppm
2 Tl 190.800	188.6	0.0	0.0000 mg/L	0.0007 ppm
2 V 292.402	226.0	63.3	0.0006 mg/L	0.0284 ppm
2 Zn 213.856	-363.2	220.2	0.0021 mg/L	0.1038 ppm
3 Ag 328.068	-997.1	76.9	0.0004 mg/L	0.0191 ppm
3 Al 308.215	5019.8	422.2	0.0116 mg/L	0.5786 ppm
3 As 188.979	75.1	5.7	0.0022 mg/L	0.1091 ppm
3 Ba 233.527	-804.0	61.6	0.0002 mg/L	0.0087 ppm
3 Be 313.107	-170.8	243.4	0.0001 mg/L	0.0044 ppm
3 Ca 227.547	242.7	-40.8	-0.1560 mg/L	-7.798 ppm
3 Cd 228.802	68.7	-21.0	-0.0002 mg/L	-0.0083 ppm
3 Co 228.616	-388.2	28.5	0.0003 mg/L	0.0135 ppm
3 Cr 267.716	-132.8	26.9	0.0003 mg/L	0.0149 ppm
3 Cu 324.754	2071.7	-215.2	-0.0007 mg/L	-0.0338 ppm
3 Fe 273.955	2665.8	-324.0	-0.0065 mg/L	-0.3254 ppm
3 Mg 279.079	16.4	-579.8	-0.0183 mg/L	-0.9127 ppm
3 Mn 257.610	1610.6	489.8	0.0003 mg/L	0.0154 ppm
3 Mo 202.030	-30.2	-1.7	-0.0001 mg/L	-0.0045 ppm
3 Ni 231.604	395.2	120.0	0.0024 mg/L	0.1186 ppm
3 Pb 220.353	184.9	-0.0	0.0000 mg/L	-0.0001 ppm
3 Sb 206.833	56.1	-4.5	-0.0011 mg/L	-0.0540 ppm
3 Se 196.026	79.3	-5.0	-0.0018 mg/L	-0.0910 ppm
3 Tl 190.800	187.9	-0.6	-0.0002 mg/L	-0.0090 ppm
3 V 292.402	172.9	10.1	0.0001 mg/L	0.0045 ppm
3 Zn 213.856	-391.1	192.3	0.0018 mg/L	0.0907 ppm

ean Data ----------

D: M-BL 02M2370S Seq. No.: 72 Sample No.: 50 A/S Pos: 58
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:07:45 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	82.9	0.0004	0.00005	mg/L	0.0206	0.00243	ppm	11.80%
Al 308.215	497.0	0.0136	0.00335	mg/L	0.6811	0.16749	ppm	24.59%
s 188.979	1.2	0.0005	0.00196	mg/L	0.0239	0.09808	ppm	410.61%
a 233.527	31.2	0.0001	0.00007	mg/L	0.0044	0.00372	ppm	84.31%
Be 313.107	271.2	0.0001	0.00001	mg/L	0.0049	0.00047	ppm	9.52%
Ca 227.547	-68.9	-0.2634	0.09498	mg/L	-13.17	4.749	ppm	36.06%
d 228.802	-14.2	-0.0001	0.00006	mg/L	-0.0056	0.00316	ppm	56.27%
o 228.616	41.3	0.0004	0.00024	mg/L	0.0195	0.01203	ppm	61.57%
Cr 267.716	32.9	0.0004	0.00015	mg/L	0.0182	0.00755	ppm	41.46%
Cu 324.754	-150.1	-0.0005	0.00027	mg/L	-0.0236	0.01342	ppm	56.93%
e 273.955	-69.2	-0.0014	0.00529	mg/L	-0.0695	0.26441	ppm	380.48%
g 279.079	-709.2	-0.0223	0.00374	mg/L	-1.116	0.1870	ppm	16.75%
n 257.610	580.8	0.0004	0.00005	mg/L	0.0183	0.00267	ppm	14.60%
Mo 202.030	-3.0	-0.0002	0.00023	mg/L	-0.0081	0.01137	ppm	141.12%
l 231.604	91.3	0.0018	0.00092	mg/L	0.0902	0.04595	ppm	50.93%
b 220.353	7.2	0.0005	0.00096	mg/L	0.0241	0.04791	ppm	198.44%
b 206.833	2.3	0.0005	0.00157	mg/L	0.0270	0.07834	ppm	290.38%
Se 196.026	-6.1	-0.0022	0.00109	mg/L	-0.1117	0.05469	ppm	48.98%
l 190.800	-1.0	-0.0003	0.00039	mg/L	-0.0150	0.01943	ppm	129.58%
292.402	28.6	0.0003	0.00027	mg/L	0.0128	0.01346	ppm	104.80%
n 213.856	224.9	0.0021	0.00033	mg/L	0.1061	0.01661	ppm	15.66%

Replicate Data ----------

D: LCS-02M2370 Date: 11/21/02 3:11:13 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units

012768

1	Ag 328.068	196200.1	197274.0	0.9779 mg/L	48.90 ppm
1	Al 308.215	78569.9	73972.3	2.027 mg/L	101.4 ppm
1	As 188.979	1403.0	1333.6	0.5197 mg/L	25.98 ppm
1	Ba 233.527	1460384.3	1461250.0	4.136 mg/L	206.8 ppm
1	Be 313.107	553286.4	553700.6	0.1998 mg/L	9.992 ppm
1	Ca 227.547	5757.0	5473.5	20.93 mg/L	1047 ppm
1	Cd 228.802	33775.3	33685.6	0.2659 mg/L	13.29 ppm
1	Co 228.616	114296.3	114712.9	1.084 mg/L	54.22 ppm
1	Cr 267.716	89836.9	89996.7	0.9951 mg/L	49.76 ppm
1	Cu 324.754	323486.5	321199.5	1.008 mg/L	50.41 ppm
1	Fe 273.955	51196.8	48206.9	0.9681 mg/L	48.41 ppm
1	Mg 279.079	317348.9	316752.8	9.973 mg/L	498.7 ppm
1	Mn 257.610	1627697.6	1626576.9	1.025 mg/L	51.24 ppm
1	Mo 202.030	38731.7	38760.2	2.053 mg/L	102.7 ppm
1	Ni 231.604	54938.1	54662.9	1.080 mg/L	54.01 ppm
1	Pb 220.353	47097.6	46912.7	3.139 mg/L	156.9 ppm
1	Sb 206.833	2254.5	2193.9	0.4958 mg/L	24.79 ppm
1	Se 196.026	1454.1	1369.8	0.4975 mg/L	24.88 ppm
1	Tl 190.800	1987.5	1799.0	0.5230 mg/L	26.15 ppm
1	V 292.402	219300.3	219137.5	1.965 mg/L	98.27 ppm
1	Zn 213.856	56410.0	56993.4	0.5375 mg/L	26.88 ppm
2	Ag 328.068	191700.6	192774.6	0.9556 mg/L	47.78 ppm
2	Al 308.215	76875.2	72277.6	1.981 mg/L	99.05 ppm
2	As 188.979	1400.6	1331.2	0.5186 mg/L	25.93 ppm
2	Ba 233.527	1430927.3	1431792.9	4.053 mg/L	202.6 ppm
2	Be 313.107	541393.8	541808.0	0.1955 mg/L	9.777 ppm
2	Ca 227.547	5773.3	5489.8	21.00 mg/L	1050 ppm
2	Cd 228.802	32706.3	32616.5	0.2574 mg/L	12.87 ppm
2	Co 228.616	110815.7	111232.4	1.051 mg/L	52.57 ppm
2	Cr 267.716	87732.8	87892.6	0.9719 mg/L	48.59 ppm
2	Cu 324.754	316213.7	313926.8	0.9855 mg/L	49.27 ppm
2	Fe 273.955	49328.1	46338.3	0.9306 mg/L	46.53 ppm
2	Mg 279.079	310017.0	309420.8	9.742 mg/L	487.1 ppm
2	Mn 257.610	1580433.5	1579312.8	0.9950 mg/L	49.75 ppm
2	Mo 202.030	37731.0	37759.5	2.000 mg/L	100.0 ppm
2	Ni 231.604	53320.7	53045.5	1.048 mg/L	52.41 ppm
2	Pb 220.353	45704.9	45520.0	3.046 mg/L	152.3 ppm
2	Sb 206.833	2264.9	2204.3	0.4989 mg/L	24.95 ppm
2	Se 196.026	1448.4	1364.1	0.4955 mg/L	24.77 ppm
2	Tl 190.800	2006.0	1817.4	0.5284 mg/L	26.42 ppm
2	V 292.402	213096.1	212933.4	1.910 mg/L	95.49 ppm
2	Zn 213.856	55100.9	55684.3	0.5252 mg/L	26.26 ppm
3	Ag 328.068	196432.8	197506.7	0.9791 mg/L	48.95 ppm
3	Al 308.215	78522.7	73925.1	2.026 mg/L	101.3 ppm
3	As 188.979	1384.3	1314.9	0.5125 mg/L	25.63 ppm
3	Ba 233.527	1464220.2	1465085.8	4.147 mg/L	207.4 ppm
3	Be 313.107	555551.7	555965.9	0.2006 mg/L	10.03 ppm
3	Ca 227.547	5731.1	5447.6	20.84 mg/L	1042 ppm
3	Cd 228.802	33700.8	33611.0	0.2653 mg/L	13.26 ppm
3	Co 228.616	114381.2	114797.9	1.085 mg/L	54.26 ppm
3	Cr 267.716	89884.7	90044.5	0.9957 mg/L	49.78 ppm
3	Cu 324.754	326531.1	324244.2	1.018 mg/L	50.89 ppm
3	Fe 273.955	50124.5	47134.6	0.9466 mg/L	47.33 ppm
3	Mg 279.079	318839.0	318242.9	10.02 mg/L	501.0 ppm
3	Mn 257.610	1628552.0	1627431.3	1.025 mg/L	51.27 ppm
3	Mo 202.030	39095.5	39124.0	2.072 mg/L	103.6 ppm
3	Ni 231.604	55121.0	54845.8	1.084 mg/L	54.19 ppm
3	Pb 220.353	47041.3	46856.5	3.135 mg/L	156.8 ppm
3	Sb 206.833	2223.1	2162.5	0.4882 mg/L	24.41 ppm
3	Se 196.026	1446.1	1361.8	0.4946 mg/L	24.73 ppm
3	Tl 190.800	1987.9	1799.4	0.5231 mg/L	26.16 ppm
3	V 292.402	219308.1	219145.3	1.965 mg/L	98.27 ppm
3	Zn 213.856	56888.0	57471.4	0.5420 mg/L	27.10 ppm

Mean Data ----------

ID: LCS-02M2370 Seq. No.: 73 Sample No.: 51 A/S Pos: 59
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:11:13 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	195851.8	0.9709	0.01322	mg/L	48.54	0.661	ppm	1.36%
Al 308.215	73391.7	2.012	0.0265	mg/L	100.6	1.32	ppm	1.32%
[illegible] 188.979	1326.5	0.5169	0.00386	mg/L	25.85	0.193	ppm	0.75%
[illegible] 233.527	1452709.6	4.112	0.0516	mg/L	205.6	2.58	ppm	1.25%
Be 313.107	550491.5	0.1987	0.00274	mg/L	9.934	0.1372	ppm	1.38%
Ca 227.547	5470.3	20.92	0.081	mg/L	1046	4.1	ppm	0.39%
[illegible] 228.802	33304.4	0.2629	0.00471	mg/L	13.14	0.236	ppm	1.79%
[illegible] 228.616	113581.1	1.074	0.0192	mg/L	53.68	0.962	ppm	1.79%
[illegible] 267.716	89311.3	0.9876	0.01359	mg/L	49.38	0.679	ppm	1.38%
Cu 324.754	319790.2	1.004	0.0166	mg/L	50.19	0.832	ppm	1.66%
[illegible] 273.955	47226.6	0.9484	0.01883	mg/L	47.42	0.942	ppm	1.99%
[illegible] 279.079	314805.5	9.912	0.1487	mg/L	495.6	7.43	ppm	1.50%
[illegible] 257.610	1611107.0	1.015	0.0173	mg/L	50.75	0.867	ppm	1.71%
Mo 202.030	38547.9	2.042	0.0374	mg/L	102.1	1.87	ppm	1.83%
Ni 231.604	54184.7	1.071	0.0196	mg/L	53.53	0.979	ppm	1.83%
[illegible] 220.353	46429.7	3.107	0.0527	mg/L	155.3	2.64	ppm	1.70%
[illegible] 206.833	2186.9	0.4943	0.00549	mg/L	24.72	0.275	ppm	1.11%
Se 196.026	1365.2	0.4959	0.00149	mg/L	24.79	0.074	ppm	0.30%
Tl 190.800	1805.3	0.5249	0.00306	mg/L	26.24	0.153	ppm	0.58%
[illegible] 292.402	217072.1	1.947	0.0321	mg/L	97.34	1.607	ppm	1.65%
[illegible] 213.856	56716.4	0.5349	0.00873	mg/L	26.75	0.436	ppm	1.63%

[illegible]atrix Check Sample: LCS-02M2370

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
[illegible]g 328.068	1.000	0.9709	0.013	mg/L	97.046
[illegible]l 308.215	2.014	2.012	0.026	mg/L	99.896
[illegible]s 188.979	0.5005	0.5169	0.004	mg/L	103.292
Ba 233.527	4.000	4.112	0.052	mg/L	102.802
[illegible]e 313.107	0.2001	0.1987	0.003	mg/L	99.288
[illegible]a 227.547	19.74	20.92	0.081	mg/L	105.928
[illegible]d 228.802	0.2499	0.2629	0.005	mg/L	105.186
Co 228.616	1.000	1.074	0.019	mg/L	107.328
Cr 267.716	1.000	0.9876	0.014	mg/L	98.720
[illegible]u 324.754	0.9995	1.004	0.017	mg/L	100.434
[illegible]e 273.955	0.9986	0.9484	0.019	mg/L	94.980
Mg 279.079	9.978	9.912	0.149	mg/L	99.341
Mn 257.610	1.000	1.015	0.017	mg/L	101.467
[illegible]o 202.030	2.000	2.042	0.037	mg/L	102.107
[illegible]i 231.604	1.002	1.071	0.020	mg/L	106.889
[illegible]b 220.353	3.000	3.107	0.053	mg/L	103.539
Sb 206.833	0.5005	0.4943	0.005	mg/L	98.754
[illegible]e 196.026	0.4978	0.4959	0.001	mg/L	99.620
[illegible]l 190.800	0.4997	0.5249	0.003	mg/L	105.033
[illegible] 292.402	2.000	1.947	0.032	mg/L	97.329
Zn 213.856	0.5021	0.5349	0.009	mg/L	106.556

[illegible]eplicate Data ----------

[illegible]D: LCSD-02M2370 Date: 11/21/02 3:14:45 PM

[illegible]epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	195299.5	196373.5	0.9735	mg/L	48.67	ppm
1	Al 308.215	77841.6	73244.0	2.008	mg/L	100.4	ppm
1	As 188.979	1391.2	1321.7	0.5151	mg/L	25.76	ppm
1	Ba 233.527	1456669.3	1457534.9	4.126	mg/L	206.3	ppm
1	Be 313.107	552171.7	552585.9	0.1994	mg/L	9.971	ppm
1	Ca 227.547	5718.7	5435.3	20.79	mg/L	1039	ppm
1	Cd 228.802	33541.0	33451.3	0.2640	mg/L	13.20	ppm
1	Co 228.616	113596.1	114012.8	1.078	mg/L	53.89	ppm
1	Cr 267.716	89576.0	89735.8	0.9923	mg/L	49.61	ppm
1	Cu 324.754	322122.3	319835.3	1.004	mg/L	50.20	ppm
1	Fe 273.955	50205.6	47215.8	0.9482	mg/L	47.41	ppm
1	Mg 279.079	316649.9	316053.7	9.951	mg/L	497.6	ppm
1	Mn 257.610	1620903.9	1619783.2	1.020	mg/L	51.02	ppm
1	Mo 202.030	38788.7	38817.2	2.056	mg/L	102.8	ppm
1	Ni 231.604	54643.7	54368.5	1.074	mg/L	53.72	ppm

1	Pb 220.353	46735.4	46550.5	3.115 mg/L	155.7 ppm
1	Sb 206.833	2226.0	2165.4	0.4890 mg/L	24.45 ppm
1	Se 196.026	1444.6	1360.3	0.4941 mg/L	24.70 ppm
1	Tl 190.800	2000.6	1812.0	0.5268 mg/L	26.34 ppm
1	V 292.402	218028.3	217865.6	1.954 mg/L	97.70 ppm
1	Zn 213.856	56131.4	56714.8	0.5349 mg/L	26.74 ppm
2	Ag 328.068	197067.1	198141.1	0.9822 mg/L	49.11 ppm
2	Al 308.215	78920.8	74323.3	2.037 mg/L	101.9 ppm
2	As 188.979	1416.4	1347.0	0.5249 mg/L	26.24 ppm
2	Ba 233.527	1466982.8	1467848.4	4.155 mg/L	207.8 ppm
2	Be 313.107	553608.5	554022.7	0.1999 mg/L	9.997 ppm
2	Ca 227.547	5791.4	5507.9	21.07 mg/L	1053 ppm
2	Cd 228.802	33656.2	33566.4	0.2649 mg/L	13.25 ppm
2	Co 228.616	113883.5	114300.2	1.080 mg/L	54.02 ppm
2	Cr 267.716	90359.8	90519.6	1.001 mg/L	50.05 ppm
2	Cu 324.754	325045.1	322758.2	1.013 mg/L	50.66 ppm
2	Fe 273.955	50546.0	47556.2	0.9550 mg/L	47.75 ppm
2	Mg 279.079	317308.8	316712.6	9.972 mg/L	498.6 ppm
2	Mn 257.610	1624747.7	1623627.0	1.023 mg/L	51.15 ppm
2	Mo 202.030	38802.8	38831.3	2.057 mg/L	102.8 ppm
2	Ni 231.604	54476.5	54201.3	1.071 mg/L	53.55 ppm
2	Pb 220.353	47069.1	46884.2	3.137 mg/L	156.9 ppm
2	Sb 206.833	2255.2	2194.5	0.4957 mg/L	24.79 ppm
2	Se 196.026	1447.1	1362.9	0.4950 mg/L	24.75 ppm
2	Tl 190.800	2007.2	1818.7	0.5288 mg/L	26.44 ppm
2	V 292.402	220120.5	219957.8	1.973 mg/L	98.64 ppm
2	Zn 213.856	56229.6	56813.0	0.5358 mg/L	26.79 ppm
3	Ag 328.068	197627.7	198701.6	0.9850 mg/L	49.25 ppm
3	Al 308.215	79435.9	74838.3	2.051 mg/L	102.6 ppm
3	As 188.979	1403.8	1334.3	0.5200 mg/L	26.00 ppm
3	Ba 233.527	1479804.4	1480670.1	4.191 mg/L	209.6 ppm
3	Be 313.107	561417.2	561831.4	0.2028 mg/L	10.14 ppm
3	Ca 227.547	5806.6	5523.2	21.12 mg/L	1056 ppm
3	Cd 228.802	33876.1	33786.4	0.2667 mg/L	13.33 ppm
3	Co 228.616	114683.4	115100.1	1.088 mg/L	54.40 ppm
3	Cr 267.716	90414.2	90574.0	1.002 mg/L	50.08 ppm
3	Cu 324.754	328356.9	326070.0	1.024 mg/L	51.18 ppm
3	Fe 273.955	50409.0	47419.2	0.9523 mg/L	47.61 ppm
3	Mg 279.079	320958.0	320361.9	10.09 mg/L	504.3 ppm
3	Mn 257.610	1637166.2	1636045.5	1.031 mg/L	51.54 ppm
3	Mo 202.030	39400.0	39428.5	2.089 mg/L	104.4 ppm
3	Ni 231.604	55429.5	55154.3	1.090 mg/L	54.49 ppm
3	Pb 220.353	47534.4	47349.5	3.168 mg/L	158.4 ppm
3	Sb 206.833	2268.0	2207.3	0.4988 mg/L	24.94 ppm
3	Se 196.026	1451.7	1367.5	0.4967 mg/L	24.83 ppm
3	Tl 190.800	2007.4	1818.9	0.5288 mg/L	26.44 ppm
3	V 292.402	219454.6	219291.9	1.967 mg/L	98.34 ppm
3	Zn 213.856	56988.3	57571.7	0.5430 mg/L	27.15 ppm

Mean Data ----------

ID: LCSD-02M2370 Seq. No.: 74 Sample No.: 52 A/S Pos: 60
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:14:45 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	197738.7	0.9802	0.00602	mg/L	49.01	0.301	ppm	0.61%
Al 308.215	74135.2	2.032	0.0223	mg/L	101.6	1.11	ppm	1.10%
As 188.979	1334.3	0.5200	0.00488	mg/L	26.00	0.244	ppm	0.94%
Ba 233.527	1468684.4	4.157	0.0328	mg/L	207.9	1.64	ppm	0.79%
Be 313.107	556146.7	0.2007	0.00180	mg/L	10.04	0.090	ppm	0.89%
Ca 227.547	5488.8	20.99	0.180	mg/L	1050	9.0	ppm	0.86%
Cd 228.802	33601.3	0.2652	0.00134	mg/L	13.26	0.067	ppm	0.51%
Co 228.616	114471.0	1.082	0.0053	mg/L	54.10	0.266	ppm	0.49%
Cr 267.716	90276.4	0.9982	0.00519	mg/L	49.91	0.259	ppm	0.52%
Cu 324.754	322887.8	1.014	0.0098	mg/L	50.68	0.490	ppm	0.97%
Fe 273.955	47397.0	0.9518	0.00344	mg/L	47.59	0.172	ppm	0.36%
Mg 279.079	317709.4	10.00	0.073	mg/L	500.2	3.65	ppm	0.73%
Mn 257.610	1626485.2	1.025	0.0054	mg/L	51.24	0.268	ppm	0.52%
Mo 202.030	39025.7	2.067	0.0185	mg/L	103.4	0.92	ppm	0.89%

[illegible]	231.604	54574.7	1.078	0.0101 mg/L	53.92	0.503 ppm	0.93%
[illegible]	220.353	46928.1	3.140	0.0269 mg/L	157.0	1.34 ppm	0.86%
[illegible]	206.833	2189.1	0.4945	0.00500 mg/L	24.73	0.250 ppm	1.01%
Se	196.026	1363.5	0.4953	0.00132 mg/L	24.76	0.066 ppm	0.27%
[illegible]	190.800	1816.5	0.5281	0.00114 mg/L	26.41	0.057 ppm	0.21%
[illegible]	292.402	219038.4	1.964	0.0096 mg/L	98.22	0.479 ppm	0.49%
[illegible]	213.856	57033.2	0.5379	0.00442 mg/L	26.89	0.221 ppm	0.82%

[illegible]trix Check Sample: LCSD-02M2370

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
[illegible] 328.068	1.000	0.9802	0.006	mg/L	97.981
[illegible] 308.215	2.014	2.032	0.022	mg/L	100.915
As 188.979	0.5005	0.5200	0.005	mg/L	103.908
Ba 233.527	4.000	4.157	0.033	mg/L	103.933
[illegible] 313.107	0.2001	0.2007	0.002	mg/L	100.308
[illegible] 227.547	19.74	20.99	0.180	mg/L	106.281
Cd 228.802	0.2499	0.2652	0.001	mg/L	106.124
Co 228.616	1.000	1.082	0.005	mg/L	108.169
[illegible] 267.716	1.000	0.9982	0.005	mg/L	99.787
[illegible] 324.754	0.9995	1.014	0.010	mg/L	101.406
[illegible] 273.955	0.9986	0.9518	0.003	mg/L	95.323
Mg 279.079	9.978	10.00	0.073	mg/L	100.255
[illegible] 257.610	1.000	1.025	0.005	mg/L	102.436
[illegible] 202.030	2.000	2.067	0.018	mg/L	103.372
[illegible] 231.604	1.002	1.078	0.010	mg/L	107.660
Pb 220.353	3.000	3.140	0.027	mg/L	104.651
Sb 206.833	0.5005	0.4945	0.005	mg/L	98.797
[illegible] 196.026	0.4978	0.4953	0.001	mg/L	99.498
[illegible] 190.800	0.4997	0.5281	0.001	mg/L	105.688
V 292.402	2.000	1.964	0.010	mg/L	98.211
Zn 213.856	0.5021	0.5379	0.004	mg/L	107.154

[illegible]plicate Data ----------

[illegible]D: 6149-1 S F=50 Date: 11/21/02 3:18:17 PM

[illegible]pl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1164.0	-90.1	-0.0004	mg/L	-0.0223	ppm
1	Al 308.215	457498.4	452900.8	12.41	mg/L	620.7	ppm
1	As 188.979	13.2	-56.2	0.0406	mg/L	2.029	ppm
1	Ba 233.527	75844.3	76709.9	0.2171	mg/L	10.86	ppm
1	Be 313.107	-989.2	-574.9	-0.0002	mg/L	-0.0104	ppm
1	Ca 227.547	614492.4	614209.0	2349	mg/L	117500	ppm
1	Cd 228.802	210.0	120.2	0.0009	mg/L	0.0474	ppm
1	Co 228.616	535.1	951.8	0.0090	mg/L	0.4498	ppm
1	Cr 267.716	3782.4	3942.2	0.0436	mg/L	2.180	ppm
1	Cu 324.754	5702.3	3415.3	0.0107	mg/L	0.5361	ppm
1	Fe 273.955	1328199.1	1325209.3	26.61	mg/L	1331	ppm
1	Mg 279.079	1022009.5	1021413.3	32.16	mg/L	1608	ppm
1	Mn 257.610	1433780.2	1432659.5	0.9026	mg/L	45.13	ppm
1	Mo 202.030	-64.3	-35.8	-0.0019	mg/L	-0.0948	ppm
1	Ni 231.604	1547.2	1272.0	0.0251	mg/L	1.257	ppm
1	Pb 220.353	175.9	-9.0	0.0078	mg/L	0.3902	ppm
1	Sb 206.833	77.2	16.5	0.0040	mg/L	0.1977	ppm
1	Se 196.026	59.0	-25.2	-0.0012	mg/L	-0.0582	ppm
1	Tl 190.800	241.7	53.2	0.0131	mg/L	0.6555	ppm
1	V 292.402	5800.9	5638.1	0.0506	mg/L	2.528	ppm
1	Zn 213.856	6686.3	7269.7	0.0686	mg/L	3.428	ppm
2	Ag 328.068	-896.0	178.0	0.0009	mg/L	0.0441	ppm
2	Al 308.215	466028.9	461431.4	12.65	mg/L	632.4	ppm
2	As 188.979	6.9	-62.5	0.0397	mg/L	1.985	ppm
2	Ba 233.527	76976.4	77842.0	0.2203	mg/L	11.02	ppm
2	Be 313.107	-1095.8	-681.5	-0.0002	mg/L	-0.0123	ppm
2	Ca 227.547	629957.8	629674.4	2408	mg/L	120400	ppm
2	Cd 228.802	192.0	102.2	0.0008	mg/L	0.0403	ppm
2	Co 228.616	539.4	956.1	0.0090	mg/L	0.4519	ppm
2	Cr 267.716	3708.2	3868.0	0.0428	mg/L	2.139	ppm

2	Cu 324.754	5586.4	3299.4	0.0104	mg/L	0.5179 ppm
2	Fe 273.955	1338724.5	1335734.7	26.82	mg/L	1341 ppm
2	Mg 279.079	1034950.0	1034353.9	32.57	mg/L	1628 ppm
2	Mn 257.610	1463422.2	1462301.5	0.9213	mg/L	46.06 ppm
2	Mo 202.030	-70.8	-42.3	-0.0022	mg/L	-0.1120 ppm
2	Ni 231.604	1518.7	1243.5	0.0246	mg/L	1.229 ppm
2	Pb 220.353	175.9	-9.0	0.0080	mg/L	0.4007 ppm
2	Sb 206.833	90.1	29.4	0.0070	mg/L	0.3521 ppm
2	Se 196.026	66.8	-17.5	0.0017	mg/L	0.0861 ppm
2	Tl 190.800	236.6	48.1	0.0117	mg/L	0.5832 ppm
2	V 292.402	6062.8	5900.0	0.0529	mg/L	2.646 ppm
2	Zn 213.856	6734.0	7317.4	0.0690	mg/L	3.451 ppm
3	Ag 328.068	-873.0	201.0	0.0010	mg/L	0.0498 ppm
3	Al 308.215	453734.5	449137.0	12.31	mg/L	615.5 ppm
3	As 188.979	-1.3	-70.7	0.0341	mg/L	1.705 ppm
3	Ba 233.527	74484.6	75350.2	0.2133	mg/L	10.66 ppm
3	Be 313.107	-1270.7	-856.5	-0.0003	mg/L	-0.0155 ppm
3	Ca 227.547	605538.5	605255.0	2315	mg/L	115700 ppm
3	Cd 228.802	190.7	100.9	0.0008	mg/L	0.0398 ppm
3	Co 228.616	514.2	930.9	0.0088	mg/L	0.4400 ppm
3	Cr 267.716	3727.3	3887.1	0.0430	mg/L	2.149 ppm
3	Cu 324.754	5350.4	3063.5	0.0096	mg/L	0.4808 ppm
3	Fe 273.955	1305910.5	1302920.7	26.17	mg/L	1308 ppm
3	Mg 279.079	1002975.9	1002379.7	31.56	mg/L	1578 ppm
3	Mn 257.610	1412094.5	1410973.8	0.8889	mg/L	44.45 ppm
3	Mo 202.030	-66.1	-37.6	-0.0020	mg/L	-0.0997 ppm
3	Ni 231.604	1519.7	1244.5	0.0246	mg/L	1.230 ppm
3	Pb 220.353	179.4	-5.5	0.0079	mg/L	0.3957 ppm
3	Sb 206.833	86.2	25.6	0.0061	mg/L	0.3061 ppm
3	Se 196.026	52.9	-31.4	-0.0035	mg/L	-0.1762 ppm
3	Tl 190.800	235.8	47.3	0.0124	mg/L	0.6208 ppm
3	V 292.402	5932.2	5769.4	0.0517	mg/L	2.587 ppm
3	Zn 213.856	6744.5	7327.9	0.0691	mg/L	3.456 ppm

Mean Data ----------

ID: 6149-1 S F=50 Seq. No.: 75 Sample No.: 53 A/S Pos: 61
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:18:17 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	96.3	0.0005	0.00080	mg/L	0.0239	0.04011	ppm	168.06%
Al 308.215	454489.7	12.46	0.173	mg/L	622.8	8.63	ppm	1.39%
As 188.979	-63.2	0.0381	0.00352	mg/L	1.906	0.1758	ppm	9.22%
Ba 233.527	76634.1	0.2169	0.00353	mg/L	10.85	0.177	ppm	1.63%
Be 313.107	-704.3	-0.0003	0.00005	mg/L	-0.0127	0.00256	ppm	20.18%
Ca 227.547	616379.5	2357	47.2	mg/L	117900	2362.4	ppm	2.00%
Cd 228.802	107.8	0.0009	0.00009	mg/L	0.0425	0.00426	ppm	10.01%
Co 228.616	946.2	0.0089	0.00013	mg/L	0.4472	0.00637	ppm	1.42%
Cr 267.716	3899.1	0.0431	0.00043	mg/L	2.156	0.0213	ppm	0.99%
Cu 324.754	3259.4	0.0102	0.00056	mg/L	0.5116	0.02815	ppm	5.50%
Fe 273.955	1321288.2	26.53	0.336	mg/L	1327	16.8	ppm	1.27%
Mg 279.079	1019382.3	32.10	0.506	mg/L	1605	25.3	ppm	1.58%
Mn 257.610	1435311.6	0.9043	0.01623	mg/L	45.21	0.812	ppm	1.80%
Mo 202.030	-38.6	-0.0020	0.00018	mg/L	-0.1022	0.00887	ppm	8.68%
Ni 231.604	1253.3	0.0248	0.00032	mg/L	1.238	0.0160	ppm	1.29%
Pb 220.353	-7.8	0.0079	0.00011	mg/L	0.3955	0.00526	ppm	1.33%
Sb 206.833	23.9	0.0057	0.00159	mg/L	0.2853	0.07927	ppm	27.79%
Se 196.026	-24.7	-0.0010	0.00263	mg/L	-0.0494	0.13136	ppm	265.67%
Tl 190.800	49.5	0.0124	0.00072	mg/L	0.6198	0.03615	ppm	5.83%
V 292.402	5769.2	0.0517	0.00117	mg/L	2.587	0.0587	ppm	2.27%
Zn 213.856	7305.0	0.0689	0.00029	mg/L	3.445	0.0146	ppm	0.43%

Replicate Data ----------

ID: 6149-1 D F=50 Date: 11/21/02 3:21:48 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1173.4	-99.4	-0.0005	mg/L	-0.0246	ppm
1	Al 308.215	465829.8	461232.2	12.64	mg/L	632.1	ppm

1	As 188.979	2.7	-66.7	0.0374	mg/L	1.869 ppm
1	Ba 233.527	76195.6	77061.2	0.2181	mg/L	10.91 ppm
1	Be 313.107	-1402.3	-988.1	-0.0004	mg/L	-0.0178 ppm
1	Ca 227.547	622931.7	622648.2	2381	mg/L	119100 ppm
1	Cd 228.802	185.2	95.5	0.0008	mg/L	0.0377 ppm
1	Co 228.616	517.6	934.3	0.0088	mg/L	0.4416 ppm
1	Cr 267.716	3727.1	3886.9	0.0430	mg/L	2.149 ppm
1	Cu 324.754	5230.2	2943.3	0.0092	mg/L	0.4620 ppm
1	Fe 273.955	1342052.3	1339062.5	26.89	mg/L	1345 ppm
1	Mg 279.079	1030126.6	1029530.5	32.42	mg/L	1621 ppm
1	Mn 257.610	1453428.3	1452307.6	0.9150	mg/L	45.75 ppm
1	Mo 202.030	-76.2	-47.7	-0.0025	mg/L	-0.1264 ppm
1	Ni 231.604	1499.7	1224.5	0.0242	mg/L	1.210 ppm
1	Pb 220.353	164.7	-20.1	0.0072	mg/L	0.3587 ppm
1	Sb 206.833	86.4	25.8	0.0062	mg/L	0.3081 ppm
1	Se 196.026	51.5	-32.8	-0.0038	mg/L	-0.1912 ppm
1	Tl 190.800	220.8	32.2	0.0070	mg/L	0.3500 ppm
1	V 292.402	6022.4	5859.6	0.0526	mg/L	2.628 ppm
1	Zn 213.856	6684.6	7268.0	0.0685	mg/L	3.427 ppm
2	Ag 328.068	-1234.9	-161.0	-0.0008	mg/L	-0.0399 ppm
2	Al 308.215	451365.0	446767.4	12.25	mg/L	612.3 ppm
2	As 188.979	-1.5	-70.9	0.0341	mg/L	1.707 ppm
2	Ba 233.527	74180.4	75046.0	0.2124	mg/L	10.62 ppm
2	Be 313.107	-1465.4	-1051.2	-0.0004	mg/L	-0.0190 ppm
2	Ca 227.547	606774.8	606491.3	2320	mg/L	116000 ppm
2	Cd 228.802	202.8	113.1	0.0009	mg/L	0.0446 ppm
2	Co 228.616	502.0	918.7	0.0087	mg/L	0.4342 ppm
2	Cr 267.716	3713.0	3872.8	0.0428	mg/L	2.141 ppm
2	Cu 324.754	5203.5	2916.6	0.0092	mg/L	0.4578 ppm
2	Fe 273.955	1306913.4	1303923.6	26.19	mg/L	1309 ppm
2	Mg 279.079	1006413.2	1005817.0	31.67	mg/L	1583 ppm
2	Mn 257.610	1415384.8	1414264.0	0.8910	mg/L	44.55 ppm
2	Mo 202.030	-85.9	-57.4	-0.0030	mg/L	-0.1519 ppm
2	Ni 231.604	1492.5	1217.3	0.0241	mg/L	1.203 ppm
2	Pb 220.353	173.9	-11.0	0.0076	mg/L	0.3782 ppm
2	Sb 206.833	72.4	11.8	0.0028	mg/L	0.1411 ppm
2	Se 196.026	62.0	-22.3	-0.0002	mg/L	-0.0112 ppm
2	Tl 190.800	227.6	39.0	0.0100	mg/L	0.5020 ppm
2	V 292.402	5893.3	5730.5	0.0514	mg/L	2.570 ppm
2	Zn 213.856	6671.4	7254.8	0.0684	mg/L	3.421 ppm
3	Ag 328.068	-844.2	229.7	0.0011	mg/L	0.0569 ppm
3	Al 308.215	463831.3	459233.8	12.59	mg/L	629.3 ppm
3	As 188.979	0.8	-68.6	0.0368	mg/L	1.838 ppm
3	Ba 233.527	75931.0	76796.6	0.2174	mg/L	10.87 ppm
3	Be 313.107	-1343.4	-929.2	-0.0003	mg/L	-0.0168 ppm
3	Ca 227.547	623903.2	623619.8	2385	mg/L	119300 ppm
3	Cd 228.802	175.0	85.3	0.0007	mg/L	0.0336 ppm
3	Co 228.616	512.8	929.5	0.0088	mg/L	0.4393 ppm
3	Cr 267.716	3714.5	3874.3	0.0428	mg/L	2.142 ppm
3	Cu 324.754	5406.9	3119.9	0.0098	mg/L	0.4897 ppm
3	Fe 273.955	1327939.8	1324950.0	26.61	mg/L	1330 ppm
3	Mg 279.079	1026716.4	1026120.3	32.31	mg/L	1615 ppm
3	Mn 257.610	1454254.6	1453133.9	0.9155	mg/L	45.78 ppm
3	Mo 202.030	-92.7	-64.2	-0.0034	mg/L	-0.1699 ppm
3	Ni 231.604	1483.0	1207.8	0.0239	mg/L	1.193 ppm
3	Pb 220.353	181.9	-3.0	0.0083	mg/L	0.4167 ppm
3	Sb 206.833	70.2	9.6	0.0023	mg/L	0.1146 ppm
3	Se 196.026	60.0	-24.3	-0.0008	mg/L	-0.0418 ppm
3	Tl 190.800	232.4	43.9	0.0104	mg/L	0.5223 ppm
3	V 292.402	6109.1	5946.3	0.0533	mg/L	2.667 ppm
3	Zn 213.856	6744.0	7327.4	0.0691	mg/L	3.455 ppm

ean Data ----------

D: 6149-1 D F=50 Seq. No.: 76 Sample No.: 54 A/S Pos: 62
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:21:48 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-10.2	-0.0001	0.00104	mg/L	-0.0025	0.05206	ppm	>999.9%

012774

Se 196.026	-19.7	-0.0053	0.00177 mg/L	-1.331	0.4424 ppm	33.25%
Tl 190.800	5.7	0.0017	0.00040 mg/L	0.4155	0.09980 ppm	24.02%
V 292.402	1337.4	0.0120	0.00016 mg/L	2.999	0.0412 ppm	1.37%
Zn 213.856	1486.6	0.0140	0.00016 mg/L	3.505	0.0412 ppm	1.17%

Replicate Data ----------

ID: 6149-1 MS F=50 Date: 11/21/02 3:28:44 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	187887.1	188961.0	0.9367	mg/L	46.84	ppm
1	Al 308.215	498992.5	494394.9	13.55	mg/L	677.5	ppm
1	As 188.979	1184.7	1115.3	0.4966	mg/L	24.83	ppm
1	Ba 233.527	1330418.2	1331283.8	3.768	mg/L	188.4	ppm
1	Be 313.107	487455.1	487869.3	0.1761	mg/L	8.804	ppm
1	Ca 227.547	607480.3	607196.9	2322	mg/L	116100	ppm
1	Cd 228.802	29933.0	29843.3	0.2355	mg/L	11.78	ppm
1	Co 228.616	94990.6	95407.3	0.9019	mg/L	45.09	ppm
1	Cr 267.716	81014.1	81173.9	0.8976	mg/L	44.88	ppm
1	Cu 324.754	281879.5	279592.5	0.8777	mg/L	43.88	ppm
1	Fe 273.955	1315236.5	1312246.7	26.35	mg/L	1318	ppm
1	Mg 279.079	1206617.7	1206021.5	37.97	mg/L	1899	ppm
1	Mn 257.610	2611144.9	2610024.2	1.644	mg/L	82.22	ppm
1	Mo 202.030	33810.1	33838.6	1.793	mg/L	89.63	ppm
1	Ni 231.604	45834.4	45559.2	0.9003	mg/L	45.01	ppm
1	Pb 220.353	39280.4	39095.5	2.624	mg/L	131.2	ppm
1	Sb 206.833	2032.9	1972.3	0.4456	mg/L	22.28	ppm
1	Se 196.026	1294.3	1210.0	0.4474	mg/L	22.37	ppm
1	Tl 190.800	1660.2	1471.7	0.4252	mg/L	21.26	ppm
1	V 292.402	203282.0	203119.2	1.822	mg/L	91.09	ppm
1	Zn 213.856	53845.2	54428.6	0.5133	mg/L	25.67	ppm
2	Ag 328.068	189655.8	190729.8	0.9455	mg/L	47.27	ppm
2	Al 308.215	505680.8	501083.2	13.73	mg/L	686.7	ppm
2	As 188.979	1212.7	1143.2	0.5084	mg/L	25.42	ppm
2	Ba 233.527	1343403.4	1344269.0	3.805	mg/L	190.3	ppm
2	Be 313.107	490923.4	491337.6	0.1773	mg/L	8.866	ppm
2	Ca 227.547	617248.0	616964.6	2360	mg/L	118000	ppm
2	Cd 228.802	30495.6	30405.8	0.2400	mg/L	12.00	ppm
2	Co 228.616	95857.9	96274.6	0.9101	mg/L	45.50	ppm
2	Cr 267.716	81973.3	82133.1	0.9082	mg/L	45.41	ppm
2	Cu 324.754	289235.2	286948.3	0.9008	mg/L	45.04	ppm
2	Fe 273.955	1325032.4	1322042.5	26.55	mg/L	1327	ppm
2	Mg 279.079	1220290.2	1219694.1	38.40	mg/L	1920	ppm
2	Mn 257.610	2654216.6	2653095.9	1.672	mg/L	83.58	ppm
2	Mo 202.030	33943.6	33972.1	1.800	mg/L	89.98	ppm
2	Ni 231.604	46304.7	46029.5	0.9095	mg/L	45.48	ppm
2	Pb 220.353	39476.5	39291.6	2.637	mg/L	131.9	ppm
2	Sb 206.833	2044.7	1984.1	0.4481	mg/L	22.41	ppm
2	Se 196.026	1299.3	1215.0	0.4493	mg/L	22.46	ppm
2	Tl 190.800	1672.4	1483.8	0.4287	mg/L	21.44	ppm
2	V 292.402	206208.0	206045.2	1.848	mg/L	92.40	ppm
2	Zn 213.856	54584.9	55168.3	0.5203	mg/L	26.02	ppm
3	Ag 328.068	184822.5	185896.5	0.9215	mg/L	46.08	ppm
3	Al 308.215	502968.8	498371.3	13.66	mg/L	683.0	ppm
3	As 188.979	1205.2	1135.7	0.5041	mg/L	25.20	ppm
3	Ba 233.527	1329658.1	1330523.7	3.766	mg/L	188.3	ppm
3	Be 313.107	486729.8	487144.0	0.1758	mg/L	8.791	ppm
3	Ca 227.547	604739.1	604455.6	2312	mg/L	115600	ppm
3	Cd 228.802	29434.9	29345.2	0.2316	mg/L	11.58	ppm
3	Co 228.616	93281.7	93698.4	0.8857	mg/L	44.29	ppm
3	Cr 267.716	80065.4	80225.2	0.8871	mg/L	44.35	ppm
3	Cu 324.754	282733.1	280446.2	0.8804	mg/L	44.02	ppm
3	Fe 273.955	1320737.7	1317747.9	26.46	mg/L	1323	ppm
3	Mg 279.079	1202487.3	1201891.1	37.84	mg/L	1892	ppm
3	Mn 257.610	2607919.4	2606798.7	1.642	mg/L	82.12	ppm
3	Mo 202.030	33093.0	33121.5	1.755	mg/L	87.73	ppm
3	Ni 231.604	44813.2	44538.0	0.8801	mg/L	44.00	ppm
3	Pb 220.353	38307.1	38122.2	2.559	mg/L	128.0	ppm
3	Sb 206.833	2056.5	1995.9	0.4515	mg/L	22.58	ppm

3 Se 196.026	1307.3	1223.0	0.4522 mg/L	22.61 ppm
3 Tl 190.800	1683.5	1495.0	0.4319 mg/L	21.60 ppm
3 V 292.402	200733.3	200570.6	1.799 mg/L	89.94 ppm
3 Zn 213.856	52894.9	53478.3	0.5044 mg/L	25.22 ppm

an Data ----------

ID: 6149-1 MS F=50 Seq. No.: 78 Sample No.: 56 A/S Pos: 64
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:28:44 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	188529.1	0.9346	0.01212	mg/L	46.73	0.606	ppm	1.30%
308.215	497949.8	13.65	0.092	mg/L	682.4	4.61	ppm	0.68%
188.979	1131.4	0.5030	0.00596	mg/L	25.15	0.298	ppm	1.19%
Ba 233.527	1335358.8	3.780	0.0219	mg/L	189.0	1.09	ppm	0.58%
Be 313.107	488783.6	0.1764	0.00081	mg/L	8.820	0.0404	ppm	0.46%
227.547	609539.0	2331	25.1	mg/L	116600	1257.4	ppm	1.08%
228.802	29864.7	0.2357	0.00419	mg/L	11.79	0.209	ppm	1.78%
Co 228.616	95126.8	0.8992	0.01239	mg/L	44.96	0.620	ppm	1.38%
Cr 267.716	81177.4	0.8976	0.01055	mg/L	44.88	0.527	ppm	1.18%
324.754	282329.0	0.8863	0.01263	mg/L	44.31	0.631	ppm	1.42%
273.955	1317345.7	26.46	0.099	mg/L	1323	4.9	ppm	0.37%
Mg 279.079	1209202.2	38.07	0.293	mg/L	1904	14.7	ppm	0.77%
Mn 257.610	2623306.2	1.653	0.0163	mg/L	82.64	0.814	ppm	0.99%
202.030	33644.0	1.782	0.0242	mg/L	89.11	1.212	ppm	1.36%
231.604	45375.5	0.8966	0.01507	mg/L	44.83	0.753	ppm	1.68%
220.353	38836.5	2.607	0.0420	mg/L	130.3	2.10	ppm	1.61%
Sb 206.833	1984.1	0.4484	0.00298	mg/L	22.42	0.149	ppm	0.66%
Se 196.026	1216.0	0.4496	0.00239	mg/L	22.48	0.119	ppm	0.53%
190.800	1483.5	0.4286	0.00337	mg/L	21.43	0.168	ppm	0.79%
292.402	203245.0	1.823	0.0246	mg/L	91.14	1.228	ppm	1.35%
Zn 213.856	54358.4	0.5127	0.00799	mg/L	25.63	0.399	ppm	1.56%

atrix Check Sample: 6149-1 MS F=50

lement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
g 328.068	1.000	0.9346	0.012	mg/L	93.409
Al 308.215	14.46	13.65	0.092	mg/L	59.559
As 188.979	0.5381	0.5030	0.006	mg/L	92.978
a 233.527	4.217	3.780	0.022	mg/L	89.077
e 313.107	0.1997	0.1764	0.001	mg/L	88.329
a 227.547	2377	2331	25.148	mg/L	-130.812
Cd 228.802	0.2509	0.2357	0.004	mg/L	93.942
o 228.616	1.009	0.8992	0.012	mg/L	89.028
r 267.716	1.043	0.8976	0.011	mg/L	85.451
u 324.754	1.010	0.8863	0.013	mg/L	87.604
Fe 273.955	27.53	26.46	0.099	mg/L	-7.917
Mg 279.079	42.10	38.07	0.293	mg/L	59.766
n 257.610	1.904	1.653	0.016	mg/L	74.846
b 202.030	1.998	1.782	0.024	mg/L	89.212
Ni 231.604	1.025	0.8966	0.015	mg/L	87.186
Pb 220.353	3.008	2.607	0.042	mg/L	86.634
b 206.833	0.5057	0.4484	0.003	mg/L	88.544
e 196.026	0.4990	0.4496	0.002	mg/L	90.123
Tl 190.800	0.5124	0.4286	0.003	mg/L	83.241
V 292.402	2.052	1.823	0.025	mg/L	88.555
n 213.856	0.5689	0.5127	0.008	mg/L	88.754

Replicate Data ----------

ID: 6149-1 MSD F=50 Date: 11/21/02 3:32:20 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	189157.7	190231.7	0.9430	mg/L	47.15	ppm
1	Al 308.215	487673.9	483076.4	13.24	mg/L	662.0	ppm
1	As 188.979	1205.1	1135.6	0.5029	mg/L	25.14	ppm
1	Ba 233.527	1302904.8	1303770.4	3.691	mg/L	184.5	ppm
1	Be 313.107	477212.2	477626.4	0.1724	mg/L	8.619	ppm

1 Ca 227.547	591521.6	591238.2	2261	mg/L	113100 ppm
1 Cd 228.802	30298.3	30208.6	0.2384	mg/L	11.92 ppm
1 Co 228.616	95556.4	95973.1	0.9072	mg/L	45.36 ppm
1 Cr 267.716	81845.7	82005.5	0.9068	mg/L	45.34 ppm
1 Cu 324.754	287868.7	285581.7	0.8965	mg/L	44.82 ppm
1 Fe 273.955	1286865.0	1283875.2	25.78	mg/L	1289 ppm
1 Mg 279.079	1180793.2	1180197.1	37.16	mg/L	1858 ppm
1 Mn 257.610	2558871.6	2557750.9	1.611	mg/L	80.57 ppm
1 Mo 202.030	33791.7	33820.2	1.792	mg/L	89.58 ppm
1 Ni 231.604	46251.4	45976.2	0.9085	mg/L	45.42 ppm
1 Pb 220.353	39354.9	39170.0	2.629	mg/L	131.4 ppm
1 Sb 206.833	2043.0	1982.4	0.4477	mg/L	22.39 ppm
1 Se 196.026	1300.8	1216.6	0.4496	mg/L	22.48 ppm
1 Tl 190.800	1683.3	1494.8	0.4319	mg/L	21.60 ppm
1 V 292.402	204851.8	204689.0	1.836	mg/L	91.79 ppm
1 Zn 213.856	54571.6	55155.0	0.5202	mg/L	26.01 ppm
2 Ag 328.068	188277.4	189351.3	0.9386	mg/L	46.93 ppm
2 Al 308.215	505086.9	500489.3	13.72	mg/L	685.9 ppm
2 As 188.979	1203.8	1134.3	0.5045	mg/L	25.22 ppm
2 Ba 233.527	1341964.8	1342830.4	3.801	mg/L	190.1 ppm
2 Be 313.107	488008.9	488423.1	0.1763	mg/L	8.814 ppm
2 Ca 227.547	612572.1	612288.7	2342	mg/L	117100 ppm
2 Cd 228.802	30337.3	30247.5	0.2387	mg/L	11.94 ppm
2 Co 228.616	95340.9	95757.6	0.9052	mg/L	45.26 ppm
2 Cr 267.716	81665.0	81824.8	0.9048	mg/L	45.24 ppm
2 Cu 324.754	289234.6	286947.7	0.9008	mg/L	45.04 ppm
2 Fe 273.955	1324569.1	1321579.3	26.54	mg/L	1327 ppm
2 Mg 279.079	1214854.9	1214258.8	38.23	mg/L	1912 ppm
2 Mn 257.610	2644463.6	2643342.9	1.665	mg/L	83.27 ppm
2 Mo 202.030	33926.5	33955.0	1.799	mg/L	89.93 ppm
2 Ni 231.604	45548.8	45273.6	0.8946	mg/L	44.73 ppm
2 Pb 220.353	39140.5	38955.6	2.615	mg/L	130.7 ppm
2 Sb 206.833	2052.4	1991.7	0.4500	mg/L	22.50 ppm
2 Se 196.026	1307.8	1223.5	0.4524	mg/L	22.62 ppm
2 Tl 190.800	1674.9	1486.4	0.4294	mg/L	21.47 ppm
2 V 292.402	205126.6	204963.8	1.838	mg/L	91.91 ppm
2 Zn 213.856	54187.1	54770.4	0.5165	mg/L	25.83 ppm
3 Ag 328.068	187891.5	188965.5	0.9367	mg/L	46.84 ppm
3 Al 308.215	493907.4	489309.8	13.41	mg/L	670.6 ppm
3 As 188.979	1200.1	1130.6	0.5012	mg/L	25.06 ppm
3 Ba 233.527	1314825.2	1315690.8	3.724	mg/L	186.2 ppm
3 Be 313.107	481303.5	481717.7	0.1739	mg/L	8.693 ppm
3 Ca 227.547	594768.4	594485.0	2274	mg/L	113700 ppm
3 Cd 228.802	30037.1	29947.4	0.2364	mg/L	11.82 ppm
3 Co 228.616	94713.1	95129.8	0.8993	mg/L	44.96 ppm
3 Cr 267.716	81550.3	81710.1	0.9035	mg/L	45.18 ppm
3 Cu 324.754	288247.3	285960.4	0.8977	mg/L	44.88 ppm
3 Fe 273.955	1303616.1	1300626.2	26.12	mg/L	1306 ppm
3 Mg 279.079	1188818.0	1188221.9	37.41	mg/L	1871 ppm
3 Mn 257.610	2571536.9	2570416.2	1.619	mg/L	80.97 ppm
3 Mo 202.030	33674.9	33703.4	1.785	mg/L	89.27 ppm
3 Ni 231.604	45708.8	45433.6	0.8978	mg/L	44.89 ppm
3 Pb 220.353	38945.3	38760.4	2.602	mg/L	130.1 ppm
3 Sb 206.833	2043.0	1982.4	0.4478	mg/L	22.39 ppm
3 Se 196.026	1304.4	1220.1	0.4510	mg/L	22.55 ppm
3 Tl 190.800	1686.6	1498.1	0.4328	mg/L	21.64 ppm
3 V 292.402	204291.7	204129.0	1.831	mg/L	91.54 ppm
3 Zn 213.856	53727.9	54311.3	0.5122	mg/L	25.61 ppm

Mean Data ----------

ID: 6149-1 MSD F=50 Seq. No.: 79 Sample No.: 57 A/S Pos: 65

Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 3:32:20 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	189516.2	0.9395	0.00322	mg/L	46.97	0.161	ppm	0.34%
Al 308.215	490958.5	13.46	0.242	mg/L	672.8	12.09	ppm	1.80%
As 188.979	1133.5	0.5029	0.00162	mg/L	25.14	0.081	ppm	0.32%
Ba 233.527	1320763.9	3.739	0.0567	mg/L	186.9	2.83	ppm	1.52%

Be	313.107	482589.1	0.1742	0.00197	mg/L	8.708	0.0984 ppm	1.13%
Ca	227.547	599337.3	2292	43.3	mg/L	114600	2167.3 ppm	1.89%
Cd	228.802	30134.5	0.2378	0.00129	mg/L	11.89	0.064 ppm	0.54%
Co	228.616	95620.2	0.9039	0.00414	mg/L	45.19	0.207 ppm	0.46%
Cr	267.716	81846.8	0.9050	0.00165	mg/L	45.25	0.082 ppm	0.18%
Cu	324.754	286163.3	0.8983	0.00221	mg/L	44.92	0.111 ppm	0.25%
Fe	273.955	1302026.9	26.15	0.379	mg/L	1307	19.0 ppm	1.45%
Mg	279.079	1194225.9	37.60	0.561	mg/L	1880	28.0 ppm	1.49%
Mn	257.610	2590503.3	1.632	0.0291	mg/L	81.60	1.455 ppm	1.78%
Mo	202.030	33826.2	1.792	0.0067	mg/L	89.59	0.333 ppm	0.37%
Ni	231.604	45561.1	0.9003	0.00728	mg/L	45.01	0.364 ppm	0.81%
Pb	220.353	38962.0	2.615	0.0137	mg/L	130.8	0.68 ppm	0.52%
Sb	206.833	1985.5	0.4485	0.00130	mg/L	22.43	0.065 ppm	0.29%
Se	196.026	1220.1	0.4510	0.00138	mg/L	22.55	0.069 ppm	0.31%
Tl	190.800	1493.1	0.4314	0.00177	mg/L	21.57	0.088 ppm	0.41%
V	292.402	204593.9	1.835	0.0038	mg/L	91.75	0.191 ppm	0.21%
Zn	213.856	54745.6	0.5163	0.00398	mg/L	25.82	0.199 ppm	0.77%

Matrix Check Sample: 6149-1 MSD F=50

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
Ag 328.068	1.000	0.9395	0.003	mg/L	93.898
Al 308.215	14.46	13.46	0.242	mg/L	49.978
As 188.979	0.5381	0.5029	0.002	mg/L	92.946
Ba 233.527	4.217	3.739	0.057	mg/L	88.044
Be 313.107	0.1997	0.1742	0.002	mg/L	87.211
Ca 227.547	2377	2292	43.345	mg/L	-325.904
Cd 228.802	0.2509	0.2378	0.001	mg/L	94.794
Co 228.616	1.009	0.9039	0.004	mg/L	89.494
Cr 267.716	1.043	0.9050	0.002	mg/L	86.191
Cu 324.754	1.010	0.8983	0.002	mg/L	88.807
Fe 273.955	27.53	26.15	0.379	mg/L	-38.681
Mg 279.079	42.10	37.60	0.561	mg/L	55.050
Mn 257.610	1.904	1.632	0.029	mg/L	72.780
Mo 202.030	1.998	1.792	0.007	mg/L	89.695
Ni 231.604	1.025	0.9003	0.007	mg/L	87.553
Pb 220.353	3.008	2.615	0.014	mg/L	86.909
Sb 206.833	0.5057	0.4485	0.001	mg/L	88.568
Se 196.026	0.4990	0.4510	0.001	mg/L	90.399
Tl 190.800	0.5124	0.4314	0.002	mg/L	83.799
V 292.402	2.052	1.835	0.004	mg/L	89.160
Zn 213.856	0.5689	0.5163	0.004	mg/L	89.484

Replicate Data ----------

ID: 6149-1 PS F=50 Date: 11/21/02 3:35:57 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	198951.2	200025.1	0.9916	mg/L	49.58	ppm
1	Al 308.215	504006.2	499408.6	13.69	mg/L	684.4	ppm
1	As 188.979	1270.2	1200.8	0.5278	mg/L	26.39	ppm
1	Ba 233.527	1355453.7	1356319.3	3.839	mg/L	192.0	ppm
1	Be 313.107	500419.6	500833.8	0.1808	mg/L	9.038	ppm
1	Ca 227.547	587548.6	587265.2	2246	mg/L	112300	ppm
1	Cd 228.802	31758.5	31668.7	0.2499	mg/L	12.50	ppm
1	Co 228.616	99882.4	100299.1	0.9481	mg/L	47.41	ppm
1	Cr 267.716	85581.9	85741.7	0.9481	mg/L	47.40	ppm
1	Cu 324.754	300293.1	298006.2	0.9355	mg/L	46.77	ppm
1	Fe 273.955	1304522.8	1301533.0	26.14	mg/L	1307	ppm
1	Mg 279.079	1248023.6	1247427.4	39.28	mg/L	1964	ppm
1	Mn 257.610	2789572.5	2788451.8	1.757	mg/L	87.84	ppm
1	Mo 202.030	35530.0	35558.5	1.884	mg/L	94.18	ppm
1	Ni 231.604	48895.6	48620.4	0.9607	mg/L	48.04	ppm
1	Pb 220.353	41087.3	40902.5	2.745	mg/L	137.2	ppm
1	Sb 206.833	2145.3	2084.6	0.4710	mg/L	23.55	ppm
1	Se 196.026	1377.6	1293.3	0.4776	mg/L	23.88	ppm
1	Tl 190.800	1751.7	1563.2	0.4516	mg/L	22.58	ppm
1	V 292.402	213311.8	213149.1	1.912	mg/L	95.58	ppm
1	Zn 213.856	57505.3	58088.7	0.5478	mg/L	27.39	ppm

2 Ag 328.068	201997.9	203071.9	1.007	mg/L	50.33 ppm
2 Al 308.215	507249.5	502651.9	13.78	mg/L	688.8 ppm
2 As 188.979	1260.3	1190.9	0.5252	mg/L	26.26 ppm
2 Ba 233.527	1364599.0	1365464.6	3.865	mg/L	193.3 ppm
2 Be 313.107	502447.9	502862.1	0.1815	mg/L	9.074 ppm
2 Ca 227.547	598118.2	597834.8	2287	mg/L	114300 ppm
2 Cd 228.802	32565.7	32475.9	0.2563	mg/L	12.82 ppm
2 Co 228.616	102389.6	102806.3	0.9718	mg/L	48.59 ppm
2 Cr 267.716	87144.4	87304.1	0.9654	mg/L	48.27 ppm
2 Cu 324.754	311475.3	309188.3	0.9706	mg/L	48.53 ppm
2 Fe 273.955	1306976.2	1303986.3	26.19	mg/L	1309 ppm
2 Mg 279.079	1256148.3	1255552.2	39.53	mg/L	1977 ppm
2 Mn 257.610	2824102.0	2822981.3	1.779	mg/L	88.93 ppm
2 Mo 202.030	36163.6	36192.1	1.917	mg/L	95.86 ppm
2 Ni 231.604	49970.7	49695.5	0.9820	mg/L	49.10 ppm
2 Pb 220.353	41990.7	41805.8	2.805	mg/L	140.3 ppm
2 Sb 206.833	2147.5	2086.9	0.4710	mg/L	23.55 ppm
2 Se 196.026	1366.8	1282.5	0.4737	mg/L	23.68 ppm
2 Tl 190.800	1753.9	1565.4	0.4523	mg/L	22.61 ppm
2 V 292.402	217927.1	217764.3	1.953	mg/L	97.65 ppm
2 Zn 213.856	59078.1	59661.5	0.5627	mg/L	28.13 ppm
3 Ag 328.068	195598.1	196672.1	0.9749	mg/L	48.75 ppm
3 Al 308.215	517770.7	513173.1	14.07	mg/L	703.3 ppm
3 As 188.979	1272.7	1203.3	0.5304	mg/L	26.52 ppm
3 Ba 233.527	1385660.1	1386525.7	3.925	mg/L	196.2 ppm
3 Be 313.107	507004.8	507419.0	0.1831	mg/L	9.156 ppm
3 Ca 227.547	604024.7	603741.2	2309	mg/L	115500 ppm
3 Cd 228.802	31341.7	31252.0	0.2467	mg/L	12.33 ppm
3 Co 228.616	99274.5	99691.2	0.9424	mg/L	47.12 ppm
3 Cr 267.716	84980.4	85140.2	0.9414	mg/L	47.07 ppm
3 Cu 324.754	300147.0	297860.0	0.9350	mg/L	46.75 ppm
3 Fe 273.955	1332324.1	1329334.3	26.70	mg/L	1335 ppm
3 Mg 279.079	1271397.1	1270801.0	40.01	mg/L	2001 ppm
3 Mn 257.610	2858303.9	2857183.1	1.800	mg/L	90.00 ppm
3 Mo 202.030	34988.3	35016.8	1.855	mg/L	92.75 ppm
3 Ni 231.604	47984.6	47709.4	0.9427	mg/L	47.14 ppm
3 Pb 220.353	40730.5	40545.6	2.721	mg/L	136.1 ppm
3 Sb 206.833	2140.3	2079.7	0.4700	mg/L	23.50 ppm
3 Se 196.026	1376.1	1291.8	0.4762	mg/L	23.81 ppm
3 Tl 190.800	1759.4	1570.9	0.4538	mg/L	22.69 ppm
3 V 292.402	212895.6	212732.9	1.908	mg/L	95.40 ppm
3 Zn 213.856	56851.9	57435.2	0.5417	mg/L	27.08 ppm

Mean Data ----------

ID: 6149-1 PS F=50 Seq. No.: 80 Sample No.: 58 A/S Pos: 66
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:35:57 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	199923.0	0.9910	0.01587	mg/L	49.55	0.793	ppm	1.60%
Al 308.215	505077.9	13.84	0.197	mg/L	692.2	9.86	ppm	1.42%
As 188.979	1198.3	0.5278	0.00259	mg/L	26.39	0.130	ppm	0.49%
Ba 233.527	1369436.5	3.876	0.0438	mg/L	193.8	2.19	ppm	1.13%
Be 313.107	503705.0	0.1818	0.00122	mg/L	9.089	0.0609	ppm	0.67%
Ca 227.547	596280.4	2281	31.9	mg/L	114000	1596.3	ppm	1.40%
Cd 228.802	31798.9	0.2510	0.00491	mg/L	12.55	0.246	ppm	1.96%
Co 228.616	100932.2	0.9541	0.01561	mg/L	47.71	0.780	ppm	1.64%
Cr 267.716	86062.0	0.9516	0.01235	mg/L	47.58	0.618	ppm	1.30%
Cu 324.754	301684.9	0.9470	0.02040	mg/L	47.35	1.020	ppm	2.15%
Fe 273.955	1311617.9	26.34	0.309	mg/L	1317	15.5	ppm	1.17%
Mg 279.079	1257926.9	39.61	0.374	mg/L	1980	18.7	ppm	0.94%
Mn 257.610	2822872.1	1.778	0.0217	mg/L	88.92	1.083	ppm	1.22%
Mo 202.030	35589.1	1.885	0.0312	mg/L	94.26	1.558	ppm	1.65%
Ni 231.604	48675.1	0.9618	0.01964	mg/L	48.09	0.982	ppm	2.04%
Pb 220.353	41084.6	2.757	0.0434	mg/L	137.9	2.17	ppm	1.58%
Sb 206.833	2083.7	0.4707	0.00058	mg/L	23.53	0.029	ppm	0.12%
Se 196.026	1289.2	0.4758	0.00199	mg/L	23.79	0.099	ppm	0.42%
Tl 190.800	1566.5	0.4526	0.00112	mg/L	22.63	0.056	ppm	0.25%
V 292.402	214548.8	1.924	0.0250	mg/L	96.21	1.252	ppm	1.30%

213.856	58395.1	0.5507	0.01079 mg/L	27.54	0.540 ppm	1.96%

Matrix Check Sample: 6149-1 PS F=50

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
Ag 328.068	1.000	0.9910	0.016	mg/L	99.057
Al 308.215	14.46	13.84	0.197	mg/L	69.327
As 188.979	0.5381	0.5278	0.003	mg/L	97.934
Ba 233.527	4.217	3.876	0.044	mg/L	91.488
Be 313.107	0.1997	0.1818	0.001	mg/L	91.021
Ca 227.547	2377	2281	31.926	mg/L	-384.362
Cd 228.802	0.2509	0.2510	0.005	mg/L	100.048
Co 228.616	1.009	0.9541	0.016	mg/L	94.516
Cr 267.716	1.043	0.9516	0.012	mg/L	90.852
Cu 324.754	1.010	0.9470	0.020	mg/L	93.680
Fe 273.955	27.53	26.34	0.309	mg/L	-19.420
Mg 279.079	42.10	39.61	0.374	mg/L	75.107
Mn 257.610	1.904	1.778	0.022	mg/L	87.419
Mo 202.030	1.998	1.885	0.031	mg/L	94.364
Ni 231.604	1.025	0.9618	0.020	mg/L	93.706
Pb 220.353	3.008	2.757	0.043	mg/L	91.642
Sb 206.833	0.5057	0.4707	0.001	mg/L	92.997
Se 196.026	0.4990	0.4758	0.002	mg/L	95.365
Tl 190.800	0.5124	0.4526	0.001	mg/L	88.035
V 292.402	2.052	1.924	0.025	mg/L	93.624
Zn 213.856	0.5689	0.5507	0.011	mg/L	96.368

Replicate Data ----------

ID: 6149-2 F=50 Date: 11/21/02 3:39:28 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-932.8	141.1	0.0007	mg/L	0.0350	ppm
1	Al 308.215	378701.7	374104.1	10.25	mg/L	512.7	ppm
1	As 188.979	-7.4	-76.8	0.0262	mg/L	1.308	ppm
1	Ba 233.527	63092.2	63957.8	0.1810	mg/L	9.052	ppm
1	Be 313.107	-490.0	-75.8	0.0000	mg/L	-0.0014	ppm
1	Ca 227.547	559829.9	559546.5	2140	mg/L	107000	ppm
1	Cd 228.802	204.4	114.7	0.0009	mg/L	0.0453	ppm
1	Co 228.616	388.4	805.1	0.0076	mg/L	0.3805	ppm
1	Cr 267.716	2666.2	2826.0	0.0312	mg/L	1.562	ppm
1	Cu 324.754	7099.4	4812.5	0.0151	mg/L	0.7553	ppm
1	Fe 273.955	1039052.5	1036062.7	20.81	mg/L	1040	ppm
1	Mg 279.079	878408.1	877811.9	27.64	mg/L	1382	ppm
1	Mn 257.610	1343393.9	1342273.2	0.8457	mg/L	42.28	ppm
1	Mo 202.030	-72.2	-43.6	-0.0023	mg/L	-0.1156	ppm
1	Ni 231.604	1037.3	762.1	0.0151	mg/L	0.7529	ppm
1	Pb 220.353	184.4	-0.5	0.0076	mg/L	0.3811	ppm
1	Sb 206.833	70.7	10.1	0.0024	mg/L	0.1208	ppm
1	Se 196.026	74.3	-10.0	0.0026	mg/L	0.1315	ppm
1	Tl 190.800	231.4	42.9	0.0119	mg/L	0.5959	ppm
1	V 292.402	5006.4	4843.6	0.0434	mg/L	2.172	ppm
1	Zn 213.856	5364.3	5947.7	0.0561	mg/L	2.805	ppm
2	Ag 328.068	-975.8	98.2	0.0005	mg/L	0.0243	ppm
2	Al 308.215	364890.7	360293.1	9.875	mg/L	493.8	ppm
2	As 188.979	-4.8	-74.3	0.0257	mg/L	1.284	ppm
2	Ba 233.527	60759.5	61625.1	0.1744	mg/L	8.722	ppm
2	Be 313.107	-533.9	-119.7	0.0000	mg/L	-0.0022	ppm
2	Ca 227.547	545283.6	545000.2	2084	mg/L	104200	ppm
2	Cd 228.802	221.3	131.5	0.0010	mg/L	0.0519	ppm
2	Co 228.616	359.7	776.4	0.0073	mg/L	0.3670	ppm
2	Cr 267.716	2619.3	2779.1	0.0307	mg/L	1.536	ppm
2	Cu 324.754	6759.0	4472.1	0.0140	mg/L	0.7019	ppm
2	Fe 273.955	1000908.3	997918.5	20.04	mg/L	1002	ppm
2	Mg 279.079	852930.9	852334.7	26.84	mg/L	1342	ppm
2	Mn 257.610	1310072.5	1308951.8	0.8247	mg/L	41.23	ppm
2	Mo 202.030	-70.6	-42.1	-0.0022	mg/L	-0.1116	ppm
2	Ni 231.604	1021.7	746.5	0.0148	mg/L	0.7376	ppm

2 Pb 220.353	173.2	-11.7	0.0067 mg/L	0.3338 ppm
2 Sb 206.833	92.0	31.3	0.0075 mg/L	0.3746 ppm
2 Se 196.026	75.9	-8.4	0.0030 mg/L	0.1494 ppm
2 Tl 190.800	231.2	42.7	0.0119 mg/L	0.5965 ppm
2 V 292.402	4965.0	4802.2	0.0431 mg/L	2.153 ppm
2 Zn 213.856	5352.5	5935.9	0.0560 mg/L	2.799 ppm
3 Ag 328.068	-880.3	193.7	0.0010 mg/L	0.0480 ppm
3 Al 308.215	378468.4	373870.8	10.25 mg/L	512.4 ppm
3 As 188.979	2.3	-67.2	0.0296 mg/L	1.478 ppm
3 Ba 233.527	62135.1	63000.7	0.1783 mg/L	8.917 ppm
3 Be 313.107	-532.7	-118.5	0.0000 mg/L	-0.0021 ppm
3 Ca 227.547	556678.4	556394.9	2128 mg/L	106400 ppm
3 Cd 228.802	194.2	104.4	0.0008 mg/L	0.0412 ppm
3 Co 228.616	352.5	769.2	0.0073 mg/L	0.3636 ppm
3 Cr 267.716	2647.1	2806.9	0.0310 mg/L	1.552 ppm
3 Cu 324.754	6122.0	3835.1	0.0120 mg/L	0.6019 ppm
3 Fe 273.955	1027368.3	1024378.5	20.57 mg/L	1029 ppm
3 Mg 279.079	871995.8	871399.7	27.44 mg/L	1372 ppm
3 Mn 257.610	1338854.2	1337733.5	0.8428 mg/L	42.14 ppm
3 Mo 202.030	-89.5	-61.0	-0.0032 mg/L	-0.1615 ppm
3 Ni 231.604	1008.5	733.3	0.0145 mg/L	0.7245 ppm
3 Pb 220.353	153.8	-31.1	0.0055 mg/L	0.2766 ppm
3 Sb 206.833	72.0	11.3	0.0027 mg/L	0.1354 ppm
3 Se 196.026	68.6	-15.7	0.0005 mg/L	0.0238 ppm
3 Tl 190.800	229.1	40.5	0.0112 mg/L	0.5625 ppm
3 V 292.402	5016.3	4853.6	0.0435 mg/L	2.177 ppm
3 Zn 213.856	5351.3	5934.7	0.0560 mg/L	2.799 ppm

Mean Data ----------

ID: 6149-2 F=50
Sample Qty: 1.0000 mL
Seq. No.: 81 Sample No.: 59
Prep. Vol.: 1.0 mL
Data: Original
A/S Pos: 67
Dilution: 1.0: 50.0
Date: 11/21/02 3:39:28 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	144.3	0.0007	0.00024	mg/L	0.0358	0.01186	ppm	33.14%
Al 308.215	369422.7	10.13	0.217	mg/L	506.3	10.84	ppm	2.14%
As 188.979	-72.7	0.0271	0.00211	mg/L	1.357	0.1053	ppm	7.76%
Ba 233.527	62861.2	0.1779	0.00332	mg/L	8.897	0.1660	ppm	1.87%
Be 313.107	-104.7	0.0000	0.00001	mg/L	-0.0019	0.00045	ppm	23.90%
Ca 227.547	553647.2	2118	29.3	mg/L	105900	1463.4	ppm	1.38%
Cd 228.802	116.9	0.0009	0.00011	mg/L	0.0461	0.00540	ppm	11.71%
Co 228.616	783.6	0.0074	0.00018	mg/L	0.3704	0.00898	ppm	2.43%
Cr 267.716	2804.0	0.0310	0.00026	mg/L	1.550	0.0130	ppm	0.84%
Cu 324.754	4373.2	0.0137	0.00156	mg/L	0.6864	0.07787	ppm	11.34%
Fe 273.955	1019453.2	20.47	0.392	mg/L	1024	19.6	ppm	1.92%
Mg 279.079	867182.1	27.30	0.417	mg/L	1365	20.9	ppm	1.53%
Mn 257.610	1329652.9	0.8377	0.01138	mg/L	41.89	0.569	ppm	1.36%
Mo 202.030	-48.9	-0.0026	0.00055	mg/L	-0.1296	0.02775	ppm	21.41%
Ni 231.604	747.3	0.0148	0.00028	mg/L	0.7383	0.01421	ppm	1.92%
Pb 220.353	-14.5	0.0066	0.00105	mg/L	0.3305	0.05232	ppm	15.83%
Sb 206.833	17.6	0.0042	0.00285	mg/L	0.2103	0.14253	ppm	67.79%
Se 196.026	-11.4	0.0020	0.00136	mg/L	0.1016	0.06796	ppm	66.91%
Tl 190.800	42.0	0.0117	0.00039	mg/L	0.5850	0.01947	ppm	3.33%
V 292.402	4833.1	0.0433	0.00024	mg/L	2.167	0.0122	ppm	0.56%
Zn 213.856	5939.4	0.0560	0.00007	mg/L	2.801	0.0034	ppm	0.12%

Replicate Data ----------

ID: CCV 1379B
Date: 11/21/02 3:42:59 PM

Repl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1 Ag 328.068	209255.9	210329.8	1.043	mg/L		
1 Al 308.215	194985.4	190387.8	5.218	mg/L		
1 As 188.979	1418.7	1349.3	0.5234	mg/L		
1 Ba 233.527	1820825.5	1821691.1	5.157	mg/L		
1 Be 313.107	1442140.2	1442554.4	0.5206	mg/L		
1 Ca 227.547	14457.4	14173.9	54.21	mg/L		
1 Cd 228.802	137252.3	137162.6	1.083	mg/L		
1 Co 228.616	229367.7	229784.4	2.172	mg/L		

1	Cr 267.716	46773.5	46933.3	0.5190 mg/L
1	Cu 324.754	669928.7	667641.7	2.096 mg/L
1	Fe 273.955	260733.6	257743.7	5.176 mg/L
1	Mg 279.079	825461.4	824865.3	25.97 mg/L
1	Mn 257.610	3356385.4	3355264.6	2.114 mg/L
1	Mo 202.030	39772.9	39801.4	2.108 mg/L
1	Ni 231.604	109965.5	109690.3	2.167 mg/L
1	Pb 220.353	7788.3	7603.4	0.5087 mg/L
1	Sb 206.833	8760.9	8700.2	2.066 mg/L
1	Se 196.026	1479.7	1395.4	0.5084 mg/L
1	Tl 190.800	1947.9	1759.4	0.5115 mg/L
1	V 292.402	230277.9	230115.1	2.064 mg/L
1	Zn 213.856	223393.8	223977.2	2.112 mg/L
2	Ag 328.068	204295.4	205369.3	1.018 mg/L
2	Al 308.215	190069.5	185471.9	5.083 mg/L
2	As 188.979	1419.4	1350.0	0.5235 mg/L
2	Ba 233.527	1830708.9	1831574.5	5.185 mg/L
2	Be 313.107	1459054.8	1459469.0	0.5267 mg/L
2	Ca 227.547	14070.3	13786.9	52.73 mg/L
2	Cd 228.802	134184.4	134094.6	1.058 mg/L
2	Co 228.616	224356.8	224773.5	2.125 mg/L
2	Cr 267.716	45632.1	45791.9	0.5063 mg/L
2	Cu 324.754	676215.9	673929.0	2.116 mg/L
2	Fe 273.955	254383.5	251393.6	5.049 mg/L
2	Mg 279.079	832310.0	831713.9	26.19 mg/L
2	Mn 257.610	3378918.9	3377798.2	2.128 mg/L
2	Mo 202.030	39031.3	39059.8	2.069 mg/L
2	Ni 231.604	108552.6	108277.4	2.140 mg/L
2	Pb 220.353	7776.3	7591.4	0.5079 mg/L
2	Sb 206.833	8730.7	8670.0	2.059 mg/L
2	Se 196.026	1492.8	1408.5	0.5131 mg/L
2	Tl 190.800	1950.0	1761.5	0.5121 mg/L
2	V 292.402	223247.4	223084.6	2.001 mg/L
2	Zn 213.856	220316.1	220899.5	2.083 mg/L
3	Ag 328.068	198000.0	199074.0	0.9868 mg/L
3	Al 308.215	183985.3	179387.7	4.917 mg/L
3	As 188.979	1423.6	1354.2	0.5249 mg/L
3	Ba 233.527	1798165.7	1799031.3	5.093 mg/L
3	Be 313.107	1426746.9	1427161.1	0.5151 mg/L
3	Ca 227.547	13709.2	13425.7	51.35 mg/L
3	Cd 228.802	131552.7	131462.9	1.038 mg/L
3	Co 228.616	219403.7	219820.4	2.078 mg/L
3	Cr 267.716	44258.6	44418.4	0.4912 mg/L
3	Cu 324.754	664767.8	662480.8	2.080 mg/L
3	Fe 273.955	245367.7	242377.9	4.867 mg/L
3	Mg 279.079	819767.6	819171.4	25.79 mg/L
3	Mn 257.610	3337627.0	3336506.3	2.102 mg/L
3	Mo 202.030	38026.5	38055.0	2.016 mg/L
3	Ni 231.604	105774.2	105499.0	2.085 mg/L
3	Pb 220.353	7794.2	7609.3	0.5091 mg/L
3	Sb 206.833	8771.2	8710.6	2.069 mg/L
3	Se 196.026	1484.8	1400.5	0.5102 mg/L
3	Tl 190.800	1960.0	1771.5	0.5150 mg/L
3	V 292.402	218245.2	218082.4	1.956 mg/L
3	Zn 213.856	214603.9	215187.3	2.029 mg/L

Mean Data ----------

D: CCV 1379B Seq. No.: 82 Sample No.: 5 A/S Pos: 6
ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 3:42:59 PM

lement	Mean Corr. Intensity	Mean Conc	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	204924.4	1.016	0.0280	mg/L				2.75%
Al 308.215	185082.5	5.073	0.1510	mg/L				2.98%
As 188.979	1351.1	0.5239	0.00087	mg/L				0.17%
a 233.527	1817432.3	5.145	0.0472	mg/L				0.92%
e 313.107	1443061.5	0.5208	0.00583	mg/L				1.12%
Ca 227.547	13795.5	52.76	1.431	mg/L				2.71%
Cd 228.802	134240.0	1.059	0.0225	mg/L				2.13%

Co 228.616	224792.8	2.125	0.0471 mg/L	2.22%
Cr 267.716	45714.5	0.5055	0.01392 mg/L	2.75%
Cu 324.754	668017.2	2.097	0.0180 mg/L	0.86%
Fe 273.955	250505.1	5.031	0.1551 mg/L	3.08%
Mg 279.079	825250.2	25.98	0.198 mg/L	0.76%
Mn 257.610	3356523.0	2.115	0.0130 mg/L	0.62%
Mo 202.030	38972.1	2.064	0.0464 mg/L	2.25%
Ni 231.604	107822.3	2.131	0.0421 mg/L	1.98%
Pb 220.353	7601.4	0.5086	0.00061 mg/L	0.12%
Sb 206.833	8693.6	2.065	0.0052 mg/L	0.25%
Se 196.026	1401.5	0.5105	0.00238 mg/L	0.47%
Tl 190.800	1764.1	0.5129	0.00189 mg/L	0.37%
V 292.402	223760.7	2.007	0.0542 mg/L	2.70%
Zn 213.856	220021.3	2.075	0.0421 mg/L	2.03%

Replicate Data ----------
ID: CCB
Date: 11/21/02 3:46:28 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-988.1	85.8	0.0004	mg/L		
1	Al 308.215	4963.6	366.0	0.0100	mg/L		
1	As 188.979	66.6	-2.8	-0.0011	mg/L		
1	Ba 233.527	-573.4	292.2	0.0008	mg/L		
1	Be 313.107	367.2	781.4	0.0003	mg/L		
1	Ca 227.547	244.1	-39.4	-0.1507	mg/L		
1	Cd 228.802	101.0	11.3	0.0001	mg/L		
1	Co 228.616	-258.0	158.7	0.0015	mg/L		
1	Cr 267.716	30.3	190.1	0.0021	mg/L		
1	Cu 324.754	2579.4	292.5	0.0009	mg/L		
1	Fe 273.955	1909.5	-1080.3	-0.0217	mg/L		
1	Mg 279.079	-363.5	-959.7	-0.0302	mg/L		
1	Mn 257.610	2316.7	1196.0	0.0008	mg/L		
1	Mo 202.030	-11.5	17.0	0.0009	mg/L		
1	Ni 231.604	460.0	184.8	0.0037	mg/L		
1	Pb 220.353	182.9	-2.0	-0.0001	mg/L		
1	Sb 206.833	75.0	14.4	0.0034	mg/L		
1	Se 196.026	66.7	-17.6	-0.0064	mg/L		
1	Tl 190.800	195.5	7.0	0.0020	mg/L		
1	V 292.402	340.4	177.7	0.0016	mg/L		
1	Zn 213.856	-311.6	271.8	0.0026	mg/L		
2	Ag 328.068	-1009.4	64.6	0.0003	mg/L		
2	Al 308.215	5008.1	410.6	0.0113	mg/L		
2	As 188.979	61.0	-8.4	-0.0032	mg/L		
2	Ba 233.527	-714.8	150.8	0.0004	mg/L		
2	Be 313.107	195.6	609.8	0.0002	mg/L		
2	Ca 227.547	301.1	17.6	0.0675	mg/L		
2	Cd 228.802	101.8	12.0	0.0001	mg/L		
2	Co 228.616	-314.0	102.7	0.0010	mg/L		
2	Cr 267.716	-176.3	-16.5	-0.0002	mg/L		
2	Cu 324.754	2572.5	285.6	0.0009	mg/L		
2	Fe 273.955	1770.3	-1219.6	-0.0245	mg/L		
2	Mg 279.079	-391.8	-988.0	-0.0311	mg/L		
2	Mn 257.610	1942.0	821.3	0.0005	mg/L		
2	Mo 202.030	-18.4	10.1	0.0005	mg/L		
2	Ni 231.604	368.7	93.5	0.0018	mg/L		
2	Pb 220.353	185.3	0.4	0.0000	mg/L		
2	Sb 206.833	64.1	3.4	0.0008	mg/L		
2	Se 196.026	68.6	-15.7	-0.0057	mg/L		
2	Tl 190.800	191.9	3.4	0.0010	mg/L		
2	V 292.402	280.1	117.4	0.0011	mg/L		
2	Zn 213.856	-387.6	195.8	0.0018	mg/L		
3	Ag 328.068	-1205.0	-131.0	-0.0006	mg/L		
3	Al 308.215	5021.6	424.0	0.0116	mg/L		
3	As 188.979	72.9	3.5	0.0013	mg/L		
3	Ba 233.527	-713.7	151.9	0.0004	mg/L		
3	Be 313.107	157.9	572.1	0.0002	mg/L		
3	Ca 227.547	166.4	-117.0	-0.4476	mg/L		
3	Cd 228.802	66.8	-22.9	-0.0002	mg/L		

3 Co 228.616	-309.3	107.4	0.0010	mg/L
3 Cr 267.716	-236.9	-77.1	-0.0009	mg/L
3 Cu 324.754	2611.1	324.2	0.0010	mg/L
3 Fe 273.955	1598.1	-1391.8	-0.0279	mg/L
3 Mg 279.079	-546.2	-1142.3	-0.0360	mg/L
3 Mn 257.610	1880.8	760.0	0.0005	mg/L
3 Mo 202.030	-12.5	16.0	0.0008	mg/L
3 Ni 231.604	251.4	-23.8	-0.0005	mg/L
3 Pb 220.353	173.7	-11.2	-0.0007	mg/L
3 Sb 206.833	65.1	4.5	0.0011	mg/L
3 Se 196.026	73.5	-10.8	-0.0039	mg/L
3 Tl 190.800	194.1	5.5	0.0016	mg/L
3 V 292.402	343.5	180.7	0.0016	mg/L
3 Zn 213.856	-417.8	165.6	0.0016	mg/L

Mean Data ----------

ID: CCB Seq. No.: 83 Sample No.: 6 A/S Pos: 1

ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0

Data: Original Date: 11/21/02 3:46:28 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	6.5	0.0000	0.00059	mg/L				>999.9%
l 308.215	400.2	0.0110	0.00083	mg/L				7.58%
As 188.979	-2.6	-0.0010	0.00228	mg/L				229.87%
a 233.527	198.3	0.0006	0.00023	mg/L				41.01%
e 313.107	654.4	0.0002	0.00004	mg/L				17.05%
a 227.547	-46.3	-0.1769	0.25854	mg/L				146.13%
Cd 228.802	0.1	0.0000	0.00016	mg/L				>999.9%
Co 228.616	122.9	0.0012	0.00029	mg/L				25.26%
r 267.716	32.1	0.0004	0.00155	mg/L				436.04%
u 324.754	300.8	0.0009	0.00006	mg/L				6.85%
Fe 273.955	-1230.5	-0.0247	0.00313	mg/L				12.68%
Mg 279.079	-1030.0	-0.0324	0.00310	mg/L				9.54%
n 257.610	925.8	0.0006	0.00015	mg/L				25.49%
o 202.030	14.4	0.0008	0.00020	mg/L				25.77%
Ni 231.604	84.8	0.0017	0.00207	mg/L				123.28%
Pb 220.353	-4.2	-0.0003	0.00041	mg/L				143.96%
b 206.833	7.4	0.0018	0.00144	mg/L				80.98%
e 196.026	-14.7	-0.0053	0.00127	mg/L				23.84%
l 190.800	5.3	0.0015	0.00053	mg/L				34.33%
V 292.402	158.6	0.0014	0.00032	mg/L				22.53%
n 213.856	211.1	0.0020	0.00052	mg/L				25.92%

eplicate Data ----------

ID: 6149-3 F=50 Date: 11/21/02 3:49:37 PM

epl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1 Ag 328.068	-2333.1	-1259.2	-0.0062	mg/L	-0.3121	ppm
1 Al 308.215	4392842.1	4388244.6	120.3	mg/L	6014	ppm
1 As 188.979	133.4	64.0	0.0664	mg/L	3.319	ppm
1 Ba 233.527	244544.6	245410.2	0.6947	mg/L	34.73	ppm
1 Be 313.107	5381.8	5796.0	0.0021	mg/L	0.1046	ppm
1 Ca 227.547	399563.7	399280.3	1531	mg/L	76550	ppm
1 Cd 228.802	468.8	379.1	0.0030	mg/L	0.1496	ppm
1 Co 228.616	7987.9	8404.6	0.0794	mg/L	3.972	ppm
1 Cr 267.716	21943.9	22103.6	0.2401	mg/L	12.01	ppm
1 Cu 324.754	35173.9	32886.9	0.1112	mg/L	5.559	ppm
1 Fe 273.955	8648386.8	8645396.9	173.6	mg/L	8681	ppm
1 Mg 279.079	2778641.8	2778045.7	87.47	mg/L	4373	ppm
1 Mn 257.610	3801122.2	3800001.5	2.394	mg/L	119.7	ppm
1 Mo 202.030	37.6	66.1	-0.0032	mg/L	-0.1620	ppm
1 Ni 231.604	8436.0	8160.8	0.1613	mg/L	8.063	ppm
1 Pb 220.353	1397.3	1212.4	0.0920	mg/L	4.602	ppm
1 Sb 206.833	145.6	85.0	0.0025	mg/L	0.1234	ppm
1 Se 196.026	-21.8	-106.1	0.0050	mg/L	0.2497	ppm
1 Tl 190.800	346.5	157.9	0.0029	mg/L	0.1444	ppm
1 V 292.402	37416.9	37254.2	0.3341	mg/L	16.71	ppm
1 Zn 213.856	65296.0	65879.4	0.6030	mg/L	30.15	ppm

2	Ag 328.068	-2075.7	-1001.8	-0.0050	mg/L	-0.2483 ppm
2	Al 308.215	4436120.0	4431522.4	121.5	mg/L	6073 ppm
2	As 188.979	146.9	77.5	0.0725	mg/L	3.626 ppm
2	Ba 233.527	249842.9	250708.5	0.7097	mg/L	35.48 ppm
2	Be 313.107	5652.2	6066.4	0.0022	mg/L	0.1095 ppm
2	Ca 227.547	410053.8	409770.4	1571	mg/L	78560 ppm
2	Cd 228.802	549.6	459.9	0.0036	mg/L	0.1815 ppm
2	Co 228.616	7676.1	8092.8	0.0765	mg/L	3.825 ppm
2	Cr 267.716	20927.5	21087.3	0.2288	mg/L	11.44 ppm
2	Cu 324.754	36111.4	33824.5	0.1142	mg/L	5.710 ppm
2	Fe 273.955	8715901.2	8712911.4	175.0	mg/L	8749 ppm
2	Mg 279.079	2789256.8	2788660.6	87.80	mg/L	4390 ppm
2	Mn 257.610	3822185.9	3821065.2	2.407	mg/L	120.4 ppm
2	Mo 202.030	-0.5	28.0	-0.0053	mg/L	-0.2654 ppm
2	Ni 231.604	7988.1	7712.9	0.1524	mg/L	7.620 ppm
2	Pb 220.353	1535.8	1350.9	0.1015	mg/L	5.076 ppm
2	Sb 206.833	101.1	40.5	-0.0079	mg/L	-0.3969 ppm
2	Se 196.026	-106.2	-190.5	-0.0253	mg/L	-1.267 ppm
2	Tl 190.800	311.8	123.3	-0.0075	mg/L	-0.3747 ppm
2	V 292.402	38619.8	38457.0	0.3449	mg/L	17.25 ppm
2	Zn 213.856	66547.9	67131.3	0.6146	mg/L	30.73 ppm
3	Ag 328.068	-2054.2	-980.2	-0.0049	mg/L	-0.2429 ppm
3	Al 308.215	4461103.1	4456505.5	122.1	mg/L	6107 ppm
3	As 188.979	114.5	45.1	0.0593	mg/L	2.966 ppm
3	Ba 233.527	245133.0	245998.6	0.6963	mg/L	34.82 ppm
3	Be 313.107	5664.8	6079.0	0.0022	mg/L	0.1097 ppm
3	Ca 227.547	402653.4	402369.9	1543	mg/L	77140 ppm
3	Cd 228.802	473.0	383.3	0.0030	mg/L	0.1512 ppm
3	Co 228.616	7637.0	8053.7	0.0761	mg/L	3.807 ppm
3	Cr 267.716	21031.8	21191.6	0.2300	mg/L	11.50 ppm
3	Cu 324.754	35410.7	33123.8	0.1120	mg/L	5.600 ppm
3	Fe 273.955	8731264.7	8728274.9	175.3	mg/L	8764 ppm
3	Mg 279.079	2802474.1	2801877.9	88.22	mg/L	4411 ppm
3	Mn 257.610	3857162.5	3856041.8	2.429	mg/L	121.5 ppm
3	Mo 202.030	-23.5	5.0	-0.0065	mg/L	-0.3269 ppm
3	Ni 231.604	7993.0	7717.8	0.1525	mg/L	7.625 ppm
3	Pb 220.353	1465.1	1280.2	0.0967	mg/L	4.836 ppm
3	Sb 206.833	123.6	63.0	-0.0026	mg/L	-0.1309 ppm
3	Se 196.026	-32.6	-116.9	0.0014	mg/L	0.0718 ppm
3	Tl 190.800	339.1	150.6	0.0002	mg/L	0.0119 ppm
3	V 292.402	38019.8	37857.0	0.3395	mg/L	16.98 ppm
3	Zn 213.856	65383.5	65966.9	0.6036	mg/L	30.18 ppm

Mean Data ----------

ID: 6149-3 F=50 Seq. No.: 84 Sample No.: 60 A/S Pos: 68
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:49:37 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-1080.4	-0.0054	0.00077	mg/L	-0.2678	0.03847	ppm	14.37%
Al 308.215	4425424.1	121.3	0.95	mg/L	6065	47.3	ppm	0.78%
As 188.979	62.2	0.0661	0.00660	mg/L	3.304	0.3301	ppm	9.99%
Ba 233.527	247372.4	0.7002	0.00822	mg/L	35.01	0.411	ppm	1.17%
Be 313.107	5980.5	0.0022	0.00006	mg/L	0.1079	0.00289	ppm	2.67%
Ca 227.547	403806.8	1548	20.6	mg/L	77410	1031.5	ppm	1.33%
Cd 228.802	407.4	0.0032	0.00036	mg/L	0.1608	0.01795	ppm	11.16%
Co 228.616	8183.7	0.0774	0.00182	mg/L	3.868	0.0909	ppm	2.35%
Cr 267.716	21460.9	0.2330	0.00620	mg/L	11.65	0.310	ppm	2.66%
Cu 324.754	33278.4	0.1125	0.00155	mg/L	5.623	0.0777	ppm	1.38%
Fe 273.955	8695527.7	174.6	0.89	mg/L	8731	44.3	ppm	0.51%
Mg 279.079	2789528.1	87.83	0.376	mg/L	4391	18.8	ppm	0.43%
Mn 257.610	3825702.9	2.410	0.0178	mg/L	120.5	0.89	ppm	0.74%
Mo 202.030	33.1	-0.0050	0.00167	mg/L	-0.2514	0.08332	ppm	33.14%
Ni 231.604	7863.8	0.1554	0.00508	mg/L	7.769	0.2541	ppm	3.27%
Pb 220.353	1281.2	0.0968	0.00473	mg/L	4.838	0.2367	ppm	4.89%
Sb 206.833	62.8	-0.0027	0.00520	mg/L	-0.1348	0.26016	ppm	192.98%
Se 196.026	-137.8	-0.0063	0.01658	mg/L	-0.3151	0.82890	ppm	263.09%
Tl 190.800	143.9	-0.0015	0.00539	mg/L	-0.0728	0.26972	ppm	370.44%
V 292.402	37856.1	0.3395	0.00539	mg/L	16.98	0.270	ppm	1.59%
Zn 213.856	66325.9	0.6071	0.00655	mg/L	30.35	0.328	ppm	1.08%

plicate Data
ID: 6149-4 F=50 Date: 11/21/02 3:52:14 PM

pl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-1772.2	-698.2	-0.0035	mg/L	-0.1731	ppm
1	Al 308.215	3207666.1	3203068.6	87.79	mg/L	4390	ppm
1	As 188.979	106.8	37.4	0.0450	mg/L	2.249	ppm
1	Ba 233.527	146070.0	146935.6	0.4159	mg/L	20.80	ppm
1	Be 313.107	2787.7	3201.9	0.0012	mg/L	0.0578	ppm
1	Ca 227.547	293102.8	292819.4	1123	mg/L	56140	ppm
1	Cd 228.802	267.4	177.6	0.0014	mg/L	0.0701	ppm
1	Co 228.616	5170.0	5586.7	0.0528	mg/L	2.641	ppm
1	Cr 267.716	14441.6	14601.4	0.1615	mg/L	8.073	ppm
1	Cu 324.754	24240.5	21953.5	0.0748	mg/L	3.741	ppm
1	Fe 273.955	6426678.0	6423688.2	129.0	mg/L	6450	ppm
1	Mg 279.079	1576140.0	1575543.8	49.61	mg/L	2480	ppm
1	Mn 257.610	3082949.0	3081828.3	1.942	mg/L	97.08	ppm
1	Mo 202.030	-37.9	-9.4	-0.0055	mg/L	-0.2753	ppm
1	Ni 231.604	4394.9	4119.7	0.0814	mg/L	4.070	ppm
1	Pb 220.353	846.2	661.3	0.0531	mg/L	2.653	ppm
1	Sb 206.833	110.3	49.7	-0.0008	mg/L	-0.0375	ppm
1	Se 196.026	-45.7	-130.0	-0.0148	mg/L	-0.7381	ppm
1	Tl 190.800	316.6	128.0	0.0059	mg/L	0.2960	ppm
1	V 292.402	27927.9	27765.1	0.2490	mg/L	12.45	ppm
1	Zn 213.856	28374.2	28957.6	0.2595	mg/L	12.97	ppm
2	Ag 328.068	-1420.8	-346.8	-0.0017	mg/L	-0.0860	ppm
2	Al 308.215	3240766.6	3236169.0	88.70	mg/L	4435	ppm
2	As 188.979	109.6	40.1	0.0466	mg/L	2.331	ppm
2	Ba 233.527	148645.0	149510.6	0.4232	mg/L	21.16	ppm
2	Be 313.107	2825.6	3239.8	0.0012	mg/L	0.0585	ppm
2	Ca 227.547	299107.8	298824.3	1146	mg/L	57290	ppm
2	Cd 228.802	298.3	208.5	0.0016	mg/L	0.0823	ppm
2	Co 228.616	5341.6	5758.3	0.0544	mg/L	2.722	ppm
2	Cr 267.716	14526.1	14685.9	0.1624	mg/L	8.119	ppm
2	Cu 324.754	24960.7	22673.8	0.0771	mg/L	3.856	ppm
2	Fe 273.955	6476545.2	6473555.4	130.0	mg/L	6500	ppm
2	Mg 279.079	1601907.9	1601311.7	50.42	mg/L	2521	ppm
2	Mn 257.610	3118542.8	3117422.1	1.964	mg/L	98.20	ppm
2	Mo 202.030	-41.6	-13.1	-0.0057	mg/L	-0.2871	ppm
2	Ni 231.604	4438.2	4163.0	0.0823	mg/L	4.113	ppm
2	Pb 220.353	699.5	514.6	0.0434	mg/L	2.169	ppm
2	Sb 206.833	75.1	14.5	-0.0093	mg/L	-0.4628	ppm
2	Se 196.026	3.2	-81.1	0.0033	mg/L	0.1629	ppm
2	Tl 190.800	336.9	148.3	0.0116	mg/L	0.5783	ppm
2	V 292.402	28507.9	28345.1	0.2542	mg/L	12.71	ppm
2	Zn 213.856	28805.8	29389.2	0.2634	mg/L	13.17	ppm
3	Ag 328.068	-1697.5	-623.5	-0.0031	mg/L	-0.1545	ppm
3	Al 308.215	3117056.8	3112459.2	85.31	mg/L	4265	ppm
3	As 188.979	113.1	43.7	0.0475	mg/L	2.377	ppm
3	Ba 233.527	146664.4	147530.0	0.4176	mg/L	20.88	ppm
3	Be 313.107	2725.3	3139.5	0.0011	mg/L	0.0567	ppm
3	Ca 227.547	294376.5	294093.0	1128	mg/L	56380	ppm
3	Cd 228.802	281.0	191.3	0.0015	mg/L	0.0755	ppm
3	Co 228.616	5285.7	5702.4	0.0539	mg/L	2.695	ppm
3	Cr 267.716	14415.1	14574.8	0.1612	mg/L	8.058	ppm
3	Cu 324.754	24466.9	22179.9	0.0754	mg/L	3.769	ppm
3	Fe 273.955	6263750.5	6260760.7	125.7	mg/L	6286	ppm
3	Mg 279.079	1579252.4	1578656.3	49.70	mg/L	2485	ppm
3	Mn 257.610	3008353.4	3007232.7	1.895	mg/L	94.73	ppm
3	Mo 202.030	11.3	39.8	-0.0028	mg/L	-0.1387	ppm
3	Ni 231.604	4437.2	4162.0	0.0822	mg/L	4.112	ppm
3	Pb 220.353	736.0	551.1	0.0456	mg/L	2.279	ppm
3	Sb 206.833	86.8	26.2	-0.0061	mg/L	-0.3071	ppm
3	Se 196.026	52.4	-31.9	0.0201	mg/L	1.003	ppm
3	Tl 190.800	292.7	104.2	-0.0002	mg/L	-0.0086	ppm
3	V 292.402	27820.9	27658.2	0.2481	mg/L	12.40	ppm
3	Zn 213.856	29180.7	29764.1	0.2674	mg/L	13.37	ppm

Mean Data

ID: 6149-4 F=50 Seq. No.: 85 Sample No.: 61 A/S Pos: 69
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:52:14 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	-556.2	-0.0028	0.00092	mg/L	-0.1379	0.04588	ppm	33.28%
Al 308.215	3183898.9	87.27	1.755	mg/L	4363	87.8	ppm	2.01%
As 188.979	40.4	0.0464	0.00130	mg/L	2.319	0.0648	ppm	2.80%
Ba 233.527	147992.1	0.4189	0.00382	mg/L	20.95	0.191	ppm	0.91%
Be 313.107	3193.7	0.0012	0.00002	mg/L	0.0576	0.00091	ppm	1.58%
Ca 227.547	295245.6	1132	12.1	mg/L	56600	606.4	ppm	1.07%
Cd 228.802	192.5	0.0015	0.00012	mg/L	0.0760	0.00611	ppm	8.05%
Co 228.616	5682.5	0.0537	0.00083	mg/L	2.686	0.0414	ppm	1.54%
Cr 267.716	14620.7	0.1617	0.00064	mg/L	8.083	0.0321	ppm	0.40%
Cu 324.754	22269.1	0.0758	0.00120	mg/L	3.789	0.0602	ppm	1.59%
Fe 273.955	6386001.4	128.2	2.23	mg/L	6412	111.7	ppm	1.74%
Mg 279.079	1585170.6	49.91	0.443	mg/L	2495	22.1	ppm	0.89%
Mn 257.610	3068827.7	1.933	0.0354	mg/L	96.67	1.771	ppm	1.83%
Mo 202.030	5.7	-0.0047	0.00165	mg/L	-0.2337	0.08247	ppm	35.29%
Ni 231.604	4148.2	0.0820	0.00049	mg/L	4.098	0.0244	ppm	0.60%
Pb 220.353	575.7	0.0473	0.00508	mg/L	2.367	0.2538	ppm	10.72%
Sb 206.833	30.1	-0.0054	0.00430	mg/L	-0.2691	0.21516	ppm	79.94%
Se 196.026	-81.0	0.0029	0.01742	mg/L	0.1426	0.87079	ppm	610.56%
Tl 190.800	126.8	0.0058	0.00587	mg/L	0.2886	0.29354	ppm	101.72%
V 292.402	27922.8	0.2504	0.00332	mg/L	12.52	0.166	ppm	1.32%
Zn 213.856	29370.3	0.2634	0.00398	mg/L	13.17	0.199	ppm	1.51%

Replicate Data

ID: 6149-5 F=50 Date: 11/21/02 3:55:10 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-1593.4	-519.5	-0.0026	mg/L	-0.1288	ppm
1	Al 308.215	1835070.9	1830473.3	50.17	mg/L	2509	ppm
1	As 188.979	25.8	-43.6	0.0375	mg/L	1.874	ppm
1	Ba 233.527	174319.4	175185.0	0.4959	mg/L	24.79	ppm
1	Be 313.107	1551.6	1965.8	0.0007	mg/L	0.0355	ppm
1	Ca 227.547	542156.1	541872.7	2072	mg/L	103600	ppm
1	Cd 228.802	396.9	307.1	0.0024	mg/L	0.1212	ppm
1	Co 228.616	3191.8	3608.5	0.0341	mg/L	1.706	ppm
1	Cr 267.716	10089.4	10249.2	0.1133	mg/L	5.667	ppm
1	Cu 324.754	19231.8	16944.9	0.0532	mg/L	2.660	ppm
1	Fe 273.955	3906034.5	3903044.6	78.38	mg/L	3919	ppm
1	Mg 279.079	2098158.1	2097561.9	66.04	mg/L	3302	ppm
1	Mn 257.610	3149379.1	3148258.4	1.983	mg/L	99.17	ppm
1	Mo 202.030	-42.6	-14.1	-0.0038	mg/L	-0.1895	ppm
1	Ni 231.604	3520.0	3244.8	0.0641	mg/L	3.206	ppm
1	Pb 220.353	1004.1	819.2	0.0650	mg/L	3.249	ppm
1	Sb 206.833	103.2	42.5	0.0038	mg/L	0.1879	ppm
1	Se 196.026	33.1	-51.2	0.0014	mg/L	0.0686	ppm
1	Tl 190.800	275.8	87.2	0.0083	mg/L	0.4144	ppm
1	V 292.402	17879.4	17716.7	0.1589	mg/L	7.945	ppm
1	Zn 213.856	53057.5	53640.9	0.4976	mg/L	24.88	ppm
2	Ag 328.068	-1645.0	-571.0	-0.0028	mg/L	-0.1415	ppm
2	Al 308.215	1912559.9	1907962.3	52.29	mg/L	2615	ppm
2	As 188.979	31.8	-37.7	0.0420	mg/L	2.102	ppm
2	Ba 233.527	164045.7	164911.3	0.4668	mg/L	23.34	ppm
2	Be 313.107	1415.2	1829.4	0.0007	mg/L	0.0330	ppm
2	Ca 227.547	565318.4	565034.9	2161	mg/L	108100	ppm
2	Cd 228.802	407.5	317.8	0.0025	mg/L	0.1254	ppm
2	Co 228.616	3176.3	3593.0	0.0340	mg/L	1.698	ppm
2	Cr 267.716	9456.6	9616.4	0.1063	mg/L	5.317	ppm
2	Cu 324.754	18476.9	16190.0	0.0508	mg/L	2.541	ppm
2	Fe 273.955	4041679.7	4038689.9	81.11	mg/L	4055	ppm
2	Mg 279.079	2171661.5	2171065.3	68.36	mg/L	3418	ppm
2	Mn 257.610	3280757.2	3279636.4	2.066	mg/L	103.3	ppm
2	Mo 202.030	-40.8	-12.3	-0.0038	mg/L	-0.1901	ppm

2	Ni 231.604	3513.8	3238.6	0.0640	mg/L	3.200 ppm
2	Pb 220.353	1020.3	835.4	0.0665	mg/L	3.325 ppm
2	Sb 206.833	90.0	29.4	0.0007	mg/L	0.0355 ppm
2	Se 196.026	33.5	-50.8	0.0022	mg/L	0.1082 ppm
2	Tl 190.800	277.6	89.1	0.0082	mg/L	0.4104 ppm
2	V 292.402	16944.6	16781.9	0.1505	mg/L	7.526 ppm
2	Zn 213.856	49970.9	50554.3	0.4682	mg/L	23.41 ppm
3	Ag 328.068	-1607.1	-533.1	-0.0026	mg/L	-0.1321 ppm
3	Al 308.215	1911070.2	1906472.6	52.25	mg/L	2613 ppm
3	As 188.979	39.2	-30.2	0.0446	mg/L	2.231 ppm
3	Ba 233.527	163820.9	164686.5	0.4662	mg/L	23.31 ppm
3	Be 313.107	1441.1	1855.3	0.0007	mg/L	0.0335 ppm
3	Ca 227.547	562374.1	562090.7	2150	mg/L	107500 ppm
3	Cd 228.802	397.2	307.5	0.0024	mg/L	0.1213 ppm
3	Co 228.616	3212.2	3628.9	0.0343	mg/L	1.715 ppm
3	Cr 267.716	9601.4	9761.2	0.1079	mg/L	5.397 ppm
3	Cu 324.754	18651.7	16364.8	0.0514	mg/L	2.569 ppm
3	Fe 273.955	4054675.8	4051686.0	81.37	mg/L	4068 ppm
3	Mg 279.079	2167330.1	2166734.0	68.22	mg/L	3411 ppm
3	Mn 257.610	3260393.3	3259272.5	2.053	mg/L	102.7 ppm
3	Mo 202.030	-42.2	-13.7	-0.0039	mg/L	-0.1942 ppm
3	Ni 231.604	3534.3	3259.1	0.0644	mg/L	3.220 ppm
3	Pb 220.353	1018.5	833.6	0.0663	mg/L	3.317 ppm
3	Sb 206.833	93.2	32.5	0.0014	mg/L	0.0703 ppm
3	Se 196.026	35.5	-48.8	0.0030	mg/L	0.1495 ppm
3	Tl 190.800	281.0	92.5	0.0092	mg/L	0.4576 ppm
3	V 292.402	16737.6	16574.9	0.1487	mg/L	7.433 ppm
3	Zn 213.856	50238.1	50821.4	0.4707	mg/L	23.54 ppm

ean Data ----------

D: 6149-5 F=50 Seq. No.: 86 Sample No.: 62 A/S Pos: 70

Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 3:55:10 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-541.2	-0.0027	0.00013	mg/L	-0.1341	0.00662	ppm	4.94%
l 308.215	1881636.1	51.57	1.215	mg/L	2579	60.7	ppm	2.36%
s 188.979	-37.2	0.0414	0.00362	mg/L	2.069	0.1808	ppm	8.74%
a 233.527	168260.9	0.4763	0.01698	mg/L	23.81	0.849	ppm	3.56%
Be 313.107	1883.5	0.0007	0.00003	mg/L	0.0340	0.00131	ppm	3.85%
a 227.547	556332.8	2128	48.2	mg/L	106400	2411.3	ppm	2.27%
d 228.802	310.8	0.0025	0.00005	mg/L	0.1226	0.00239	ppm	1.95%
o 228.616	3610.1	0.0341	0.00017	mg/L	1.706	0.0085	ppm	0.50%
Cr 267.716	9875.6	0.1092	0.00367	mg/L	5.460	0.1833	ppm	3.36%
u 324.754	16499.9	0.0518	0.00124	mg/L	2.590	0.0620	ppm	2.39%
e 273.955	3997806.8	80.28	1.653	mg/L	4014	82.7	ppm	2.06%
g 279.079	2145120.4	67.54	1.299	mg/L	3377	64.9	ppm	1.92%
Mn 257.610	3229055.8	2.034	0.0445	mg/L	101.7	2.23	ppm	2.19%
Mo 202.030	-13.4	-0.0038	0.00005	mg/L	-0.1913	0.00253	ppm	1.32%
i 231.604	3247.5	0.0642	0.00021	mg/L	3.209	0.0104	ppm	0.32%
b 220.353	829.4	0.0659	0.00083	mg/L	3.297	0.0416	ppm	1.26%
Sb 206.833	34.8	0.0020	0.00160	mg/L	0.0979	0.07983	ppm	81.55%
Se 196.026	-50.2	0.0022	0.00081	mg/L	0.1088	0.04044	ppm	37.18%
l 190.800	89.6	0.0085	0.00052	mg/L	0.4275	0.02614	ppm	6.11%
292.402	17024.5	0.1527	0.00546	mg/L	7.634	0.2728	ppm	3.57%
Zn 213.856	51672.2	0.4788	0.01630	mg/L	23.94	0.815	ppm	3.40%

eplicate Data ----------

D: 6149-6 F=50 Date: 11/21/02 3:58:45 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1399.4	-325.4	-0.0016	mg/L	-0.0807	ppm
1	Al 308.215	1989199.6	1984602.1	54.39	mg/L	2720	ppm
1	As 188.979	-1.5	-70.9	0.0304	mg/L	1.521	ppm
1	Ba 233.527	170290.3	171155.9	0.4845	mg/L	24.22	ppm
1	Be 313.107	484.0	898.2	0.0003	mg/L	0.0162	ppm
1	Ca 227.547	585036.5	584753.0	2236	mg/L	111800	ppm
1	Cd 228.802	486.8	397.1	0.0031	mg/L	0.1567	ppm

1	Co 228.616	2459.6	2876.3	0.0272	mg/L	1.359 ppm
1	Cr 267.716	10433.5	10593.3	0.1171	mg/L	5.857 ppm
1	Cu 324.754	13023.1	10736.1	0.0337	mg/L	1.685 ppm
1	Fe 273.955	3172345.3	3169355.5	63.65	mg/L	3182 ppm
1	Mg 279.079	2118999.8	2118403.7	66.70	mg/L	3335 ppm
1	Mn 257.610	2411836.4	2410715.7	1.519	mg/L	75.94 ppm
1	Mo 202.030	-76.9	-48.4	-0.0026	mg/L	-0.1282 ppm
1	Ni 231.604	2966.3	2691.1	0.0532	mg/L	2.659 ppm
1	Pb 220.353	586.7	401.8	0.0379	mg/L	1.893 ppm
1	Sb 206.833	88.0	27.4	0.0006	mg/L	0.0307 ppm
1	Se 196.026	59.8	-24.4	0.0063	mg/L	0.3170 ppm
1	Tl 190.800	273.6	85.0	0.0096	mg/L	0.4804 ppm
1	V 292.402	13603.4	13440.6	0.1205	mg/L	6.027 ppm
1	Zn 213.856	19647.0	20230.4	0.1841	mg/L	9.204 ppm
2	Ag 328.068	-1375.1	-301.1	-0.0015	mg/L	-0.0746 ppm
2	Al 308.215	2039956.7	2035359.1	55.79	mg/L	2789 ppm
2	As 188.979	17.3	-52.1	0.0391	mg/L	1.956 ppm
2	Ba 233.527	169390.1	170255.8	0.4819	mg/L	24.10 ppm
2	Be 313.107	502.4	916.6	0.0003	mg/L	0.0165 ppm
2	Ca 227.547	600280.1	599996.6	2295	mg/L	114700 ppm
2	Cd 228.802	464.4	374.6	0.0030	mg/L	0.1478 ppm
2	Co 228.616	2463.1	2879.8	0.0272	mg/L	1.361 ppm
2	Cr 267.716	10490.3	10650.1	0.1178	mg/L	5.888 ppm
2	Cu 324.754	12992.5	10705.6	0.0336	mg/L	1.680 ppm
2	Fe 273.955	3233837.6	3230847.7	64.88	mg/L	3244 ppm
2	Mg 279.079	2156464.6	2155868.4	67.88	mg/L	3394 ppm
2	Mn 257.610	2467644.2	2466523.5	1.554	mg/L	77.70 ppm
2	Mo 202.030	-81.8	-53.3	-0.0028	mg/L	-0.1413 ppm
2	Ni 231.604	2926.1	2650.9	0.0524	mg/L	2.619 ppm
2	Pb 220.353	578.5	393.6	0.0376	mg/L	1.880 ppm
2	Sb 206.833	91.7	31.1	0.0014	mg/L	0.0713 ppm
2	Se 196.026	45.3	-39.0	0.0013	mg/L	0.0667 ppm
2	Tl 190.800	269.8	81.3	0.0082	mg/L	0.4106 ppm
2	V 292.402	13741.8	13579.0	0.1218	mg/L	6.089 ppm
2	Zn 213.856	19469.6	20053.0	0.1823	mg/L	9.113 ppm
3	Ag 328.068	-1392.0	-318.0	-0.0016	mg/L	-0.0788 ppm
3	Al 308.215	1989242.9	1984645.3	54.40	mg/L	2720 ppm
3	As 188.979	-0.2	-69.6	0.0308	mg/L	1.539 ppm
3	Ba 233.527	165319.5	166185.1	0.4704	mg/L	23.52 ppm
3	Be 313.107	316.2	730.4	0.0003	mg/L	0.0132 ppm
3	Ca 227.547	583499.0	583215.6	2231	mg/L	111500 ppm
3	Cd 228.802	468.5	378.7	0.0030	mg/L	0.1495 ppm
3	Co 228.616	2410.7	2827.4	0.0267	mg/L	1.336 ppm
3	Cr 267.716	10066.3	10226.1	0.1131	mg/L	5.654 ppm
3	Cu 324.754	12907.8	10620.8	0.0333	mg/L	1.667 ppm
3	Fe 273.955	3177141.8	3174151.9	63.74	mg/L	3187 ppm
3	Mg 279.079	2112723.0	2112126.8	66.50	mg/L	3325 ppm
3	Mn 257.610	2400866.6	2399745.9	1.512	mg/L	75.59 ppm
3	Mo 202.030	-89.3	-60.8	-0.0032	mg/L	-0.1612 ppm
3	Ni 231.604	2924.2	2649.0	0.0523	mg/L	2.617 ppm
3	Pb 220.353	563.3	378.4	0.0363	mg/L	1.814 ppm
3	Sb 206.833	99.2	38.6	0.0034	mg/L	0.1699 ppm
3	Se 196.026	33.3	-51.0	-0.0033	mg/L	-0.1633 ppm
3	Tl 190.800	276.8	88.2	0.0105	mg/L	0.5259 ppm
3	V 292.402	13366.7	13204.0	0.1184	mg/L	5.921 ppm
3	Zn 213.856	19177.1	19760.5	0.1796	mg/L	8.981 ppm

Mean Data ----------

ID: 6149-6 F=50 Seq. No.: 87 Sample No.: 63 A/S Pos: 71
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:58:45 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	-314.9	-0.0016	0.00006	mg/L	-0.0780	0.00309	ppm	3.96%
Al 308.215	2001535.5	54.86	0.803	mg/L	2743	40.1	ppm	1.46%
As 188.979	-64.2	0.0334	0.00492	mg/L	1.672	0.2459	ppm	14.71%
Ba 233.527	169198.9	0.4790	0.00750	mg/L	23.95	0.375	ppm	1.57%
Be 313.107	848.4	0.0003	0.00004	mg/L	0.0153	0.00185	ppm	12.09%
Ca 227.547	589321.7	2254	35.5	mg/L	112700	1774.0	ppm	1.57%

l	228.802	383.5	0.0030	0.00009	mg/L	0.1513	0.00472 ppm	3.12%
)	228.616	2861.1	0.0270	0.00028	mg/L	1.352	0.0139 ppm	1.02%
Cr	267.716	10489.8	0.1160	0.00255	mg/L	5.800	0.1273 ppm	2.19%
Cu	324.754	10687.5	0.0335	0.00019	mg/L	1.677	0.0094 ppm	0.56%
Fe	273.955	3191451.7	64.09	0.687	mg/L	3205	34.3 ppm	1.07%
g	279.079	2128799.6	67.03	0.745	mg/L	3351	37.2 ppm	1.11%
n	257.610	2425661.7	1.528	0.0226	mg/L	76.41	1.128 ppm	1.48%
Mo	202.030	-54.2	-0.0029	0.00033	mg/L	-0.1436	0.01658 ppm	11.55%
Ni	231.604	2663.7	0.0526	0.00047	mg/L	2.632	0.0235 ppm	0.89%
)	220.353	391.3	0.0373	0.00085	mg/L	1.863	0.0425 ppm	2.28%
)	206.833	32.3	0.0018	0.00143	mg/L	0.0906	0.07159 ppm	78.99%
Se	196.026	-38.1	0.0015	0.00480	mg/L	0.0735	0.24022 ppm	326.95%
Tl	190.800	84.9	0.0094	0.00116	mg/L	0.4723	0.05809 ppm	12.30%
	292.402	13407.9	0.1203	0.00170	mg/L	6.013	0.0850 ppm	1.41%
n	213.856	20014.7	0.1820	0.00223	mg/L	9.099	0.1117 ppm	1.23%

Replicate Data ----------

D: 6149-7 F=50 Date: 11/21/02 4:02:20 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1457.6	-383.6	-0.0019	mg/L	-0.0951	ppm
1	Al 308.215	1790308.5	1785711.0	48.94	mg/L	2447	ppm
1	As 188.979	-14.1	-83.5	0.0344	mg/L	1.722	ppm
1	Ba 233.527	147400.4	148266.0	0.4197	mg/L	20.98	ppm
1	Be 313.107	138.4	552.6	0.0002	mg/L	0.0100	ppm
1	Ca 227.547	674091.5	673808.0	2577	mg/L	128900	ppm
1	Cd 228.802	409.4	319.6	0.0025	mg/L	0.1261	ppm
1	Co 228.616	2246.2	2662.9	0.0252	mg/L	1.259	ppm
1	Cr 267.716	10360.9	10520.7	0.1163	mg/L	5.817	ppm
1	Cu 324.754	9877.1	7590.2	0.0238	mg/L	1.191	ppm
1	Fe 273.955	2770851.8	2767862.0	55.58	mg/L	2779	ppm
1	Mg 279.079	2261352.7	2260756.5	71.18	mg/L	3559	ppm
1	Mn 257.610	2105715.5	2104594.8	1.326	mg/L	66.30	ppm
1	Mo 202.030	-102.5	-74.0	-0.0039	mg/L	-0.1960	ppm
1	Ni 231.604	2983.7	2708.5	0.0535	mg/L	2.676	ppm
1	Pb 220.353	319.2	134.3	0.0209	mg/L	1.044	ppm
1	Sb 206.833	84.0	23.4	0.0000	mg/L	-0.0004	ppm
1	Se 196.026	31.8	-52.4	-0.0059	mg/L	-0.2931	ppm
1	Tl 190.800	274.9	86.4	0.0125	mg/L	0.6243	ppm
1	V 292.402	13067.6	12904.9	0.1157	mg/L	5.787	ppm
1	Zn 213.856	14945.1	15528.5	0.1406	mg/L	7.029	ppm
2	Ag 328.068	-1172.3	-98.4	-0.0005	mg/L	-0.0244	ppm
2	Al 308.215	1765961.4	1761363.8	48.28	mg/L	2414	ppm
2	As 188.979	10.3	-59.1	0.0425	mg/L	2.125	ppm
2	Ba 233.527	146447.6	147313.2	0.4170	mg/L	20.85	ppm
2	Be 313.107	296.3	710.5	0.0003	mg/L	0.0128	ppm
2	Ca 227.547	661052.7	660769.2	2527	mg/L	126400	ppm
2	Cd 228.802	423.4	333.6	0.0026	mg/L	0.1316	ppm
2	Co 228.616	2286.4	2703.1	0.0256	mg/L	1.278	ppm
2	Cr 267.716	10298.2	10457.9	0.1156	mg/L	5.782	ppm
2	Cu 324.754	9938.0	7651.1	0.0240	mg/L	1.201	ppm
2	Fe 273.955	2749154.5	2746164.7	55.15	mg/L	2757	ppm
2	Mg 279.079	2233317.1	2232721.0	70.30	mg/L	3515	ppm
2	Mn 257.610	2066199.1	2065078.4	1.301	mg/L	65.05	ppm
2	Mo 202.030	-110.6	-82.1	-0.0043	mg/L	-0.2175	ppm
2	Ni 231.604	2986.9	2711.7	0.0536	mg/L	2.679	ppm
2	Pb 220.353	318.5	133.6	0.0206	mg/L	1.031	ppm
2	Sb 206.833	91.7	31.0	0.0019	mg/L	0.0935	ppm
2	Se 196.026	39.0	-45.3	-0.0033	mg/L	-0.1667	ppm
2	Tl 190.800	267.9	79.3	0.0105	mg/L	0.5269	ppm
2	V 292.402	12865.8	12703.1	0.1139	mg/L	5.696	ppm
2	Zn 213.856	15100.1	15683.5	0.1421	mg/L	7.104	ppm
3	Ag 328.068	-1245.0	-171.1	-0.0008	mg/L	-0.0424	ppm
3	Al 308.215	1753455.7	1748858.2	47.93	mg/L	2397	ppm
3	As 188.979	-7.2	-76.6	0.0358	mg/L	1.790	ppm
3	Ba 233.527	144818.5	145684.1	0.4124	mg/L	20.62	ppm
3	Be 313.107	197.9	612.1	0.0002	mg/L	0.0110	ppm
3	Ca 227.547	661247.6	660964.1	2528	mg/L	126400	ppm

3	Cd 228.802	412.5	322.7	0.0025	mg/L	0.1274 ppm
3	Co 228.616	2281.5	2698.2	0.0255	mg/L	1.275 ppm
3	Cr 267.716	10128.4	10288.2	0.1138	mg/L	5.688 ppm
3	Cu 324.754	9717.5	7430.6	0.0233	mg/L	1.166 ppm
3	Fe 273.955	2722621.7	2719631.9	54.62	mg/L	2731 ppm
3	Mg 279.079	2224995.5	2224399.4	70.04	mg/L	3502 ppm
3	Mn 257.610	2066898.1	2065777.4	1.301	mg/L	65.07 ppm
3	Mo 202.030	-113.0	-84.4	-0.0045	mg/L	-0.2237 ppm
3	Ni 231.604	2999.1	2723.9	0.0538	mg/L	2.691 ppm
3	Pb 220.353	315.8	130.9	0.0204	mg/L	1.022 ppm
3	Sb 206.833	84.6	23.9	0.0002	mg/L	0.0123 ppm
3	Se 196.026	55.1	-29.2	0.0024	mg/L	0.1185 ppm
3	Tl 190.800	267.9	79.4	0.0107	mg/L	0.5346 ppm
3	V 292.402	12630.1	12467.4	0.1118	mg/L	5.591 ppm
3	Zn 213.856	15129.1	15712.5	0.1424	mg/L	7.121 ppm

Mean Data ----------

ID: 6149-7 F=50 Seq. No.: 88 Sample No.: 64 A/S Pos: 72
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 4:02:20 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-217.7	-0.0011	0.00073	mg/L	-0.0540	0.03674	ppm	68.10%
Al 308.215	1765311.0	48.38	0.514	mg/L	2419	25.7	ppm	1.06%
As 188.979	-73.1	0.0376	0.00432	mg/L	1.879	0.2160	ppm	11.50%
Ba 233.527	147087.7	0.4164	0.00370	mg/L	20.82	0.185	ppm	0.89%
Be 313.107	625.1	0.0002	0.00003	mg/L	0.0113	0.00144	ppm	12.75%
Ca 227.547	665180.5	2544	28.6	mg/L	127200	1429.0	ppm	1.12%
Cd 228.802	325.3	0.0026	0.00006	mg/L	0.1284	0.00289	ppm	2.25%
Co 228.616	2688.1	0.0254	0.00021	mg/L	1.270	0.0104	ppm	0.82%
Cr 267.716	10422.3	0.1152	0.00133	mg/L	5.762	0.0665	ppm	1.15%
Cu 324.754	7557.3	0.0237	0.00036	mg/L	1.186	0.0179	ppm	1.51%
Fe 273.955	2744552.9	55.12	0.485	mg/L	2756	24.3	ppm	0.88%
Mg 279.079	2239292.3	70.51	0.600	mg/L	3525	30.0	ppm	0.85%
Mn 257.610	2078483.5	1.309	0.0142	mg/L	65.47	0.712	ppm	1.09%
Mo 202.030	-80.2	-0.0042	0.00029	mg/L	-0.2124	0.01452	ppm	6.83%
Ni 231.604	2714.7	0.0536	0.00016	mg/L	2.682	0.0080	ppm	0.30%
Pb 220.353	132.9	0.0207	0.00023	mg/L	1.033	0.0115	ppm	1.11%
Sb 206.833	26.1	0.0007	0.00102	mg/L	0.0351	0.05095	ppm	145.13%
Se 196.026	-42.3	-0.0023	0.00422	mg/L	-0.1138	0.21081	ppm	185.31%
Tl 190.800	81.7	0.0112	0.00108	mg/L	0.5619	0.05411	ppm	9.63%
V 292.402	12691.8	0.1138	0.00196	mg/L	5.691	0.0982	ppm	1.73%
Zn 213.856	15641.5	0.1417	0.00098	mg/L	7.085	0.0490	ppm	0.69%

Replicate Data ----------

ID: 6149-8 F=50 Date: 11/21/02 4:05:35 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1479.7	-405.7	-0.0020	mg/L	-0.1006	ppm
1	Al 308.215	3069049.2	3064451.6	83.99	mg/L	4200	ppm
1	As 188.979	14.1	-55.4	0.0369	mg/L	1.846	ppm
1	Ba 233.527	199338.1	200203.7	0.5667	mg/L	28.34	ppm
1	Be 313.107	1859.9	2274.2	0.0008	mg/L	0.0410	ppm
1	Ca 227.547	579353.7	579070.3	2217	mg/L	110800	ppm
1	Cd 228.802	630.9	541.1	0.0043	mg/L	0.2135	ppm
1	Co 228.616	3847.3	4264.0	0.0403	mg/L	2.015	ppm
1	Cr 267.716	15012.6	15172.4	0.1678	mg/L	8.388	ppm
1	Cu 324.754	20181.5	17894.5	0.0607	mg/L	3.036	ppm
1	Fe 273.955	4955476.1	4952486.3	99.46	mg/L	4973	ppm
1	Mg 279.079	2748486.3	2747890.1	86.52	mg/L	4326	ppm
1	Mn 257.610	3229084.9	3227964.2	2.034	mg/L	101.7	ppm
1	Mo 202.030	-92.4	-63.9	-0.0072	mg/L	-0.3622	ppm
1	Ni 231.604	4422.3	4147.1	0.0819	mg/L	4.097	ppm
1	Pb 220.353	871.3	686.4	0.0585	mg/L	2.923	ppm
1	Sb 206.833	85.5	24.9	-0.0056	mg/L	-0.2786	ppm
1	Se 196.026	72.2	-12.1	0.0195	mg/L	0.9726	ppm
1	Tl 190.800	328.6	140.1	0.0154	mg/L	0.7695	ppm
1	V 292.402	20015.7	19853.0	0.1781	mg/L	8.903	ppm
1	Zn 213.856	35698.4	36281.8	0.3317	mg/L	16.58	ppm

2	Ag 328.068	-1572.8	-498.9	-0.0025	mg/L	-0.1236 ppm
2	Al 308.215	3093814.0	3089216.4	84.67	mg/L	4234 ppm
2	As 188.979	26.4	-43.0	0.0417	mg/L	2.087 ppm
2	Ba 233.527	200393.9	201259.5	0.5697	mg/L	28.49 ppm
2	Be 313.107	1603.4	2017.6	0.0007	mg/L	0.0364 ppm
2	Ca 227.547	580361.4	580077.9	2221	mg/L	111000 ppm
2	Cd 228.802	517.4	427.6	0.0034	mg/L	0.1687 ppm
2	Co 228.616	3758.6	4175.3	0.0395	mg/L	1.973 ppm
2	Cr 267.716	15149.1	15308.9	0.1693	mg/L	8.464 ppm
2	Cu 324.754	20165.7	17878.8	0.0607	mg/L	3.035 ppm
2	Fe 273.955	4984399.5	4981409.6	100.0	mg/L	5002 ppm
2	Mg 279.079	2757894.6	2757298.4	86.81	mg/L	4341 ppm
2	Mn 257.610	3239690.3	3238569.6	2.040	mg/L	102.0 ppm
2	Mo 202.030	40.4	68.9	-0.0002	mg/L	-0.0116 ppm
2	Ni 231.604	4403.9	4128.7	0.0816	mg/L	4.079 ppm
2	Pb 220.353	985.2	800.3	0.0661	mg/L	3.307 ppm
2	Sb 206.833	157.1	96.5	0.0115	mg/L	0.5733 ppm
2	Se 196.026	60.0	-24.3	0.0152	mg/L	0.7583 ppm
2	Tl 190.800	259.0	70.4	-0.0050	mg/L	-0.2525 ppm
2	V 292.402	19970.9	19808.1	0.1777	mg/L	8.883 ppm
2	Zn 213.856	35248.3	35831.7	0.3274	mg/L	16.37 ppm
3	Ag 328.068	-1581.2	-507.2	-0.0025	mg/L	-0.1257 ppm
3	Al 308.215	3086801.3	3082203.7	84.48	mg/L	4224 ppm
3	As 188.979	9.1	-60.4	0.0352	mg/L	1.761 ppm
3	Ba 233.527	199416.4	200282.0	0.5669	mg/L	28.35 ppm
3	Be 313.107	1731.8	2146.0	0.0008	mg/L	0.0387 ppm
3	Ca 227.547	581383.8	581100.4	2225	mg/L	111200 ppm
3	Cd 228.802	567.7	477.9	0.0038	mg/L	0.1886 ppm
3	Co 228.616	3945.5	4362.2	0.0412	mg/L	2.062 ppm
3	Cr 267.716	15493.1	15652.9	0.1731	mg/L	8.654 ppm
3	Cu 324.754	20502.7	18215.8	0.0617	mg/L	3.087 ppm
3	Fe 273.955	4960126.8	4957136.9	99.55	mg/L	4978 ppm
3	Mg 279.079	2750229.6	2749633.4	86.57	mg/L	4329 ppm
3	Mn 257.610	3248283.1	3247162.4	2.046	mg/L	102.3 ppm
3	Mo 202.030	-74.1	-45.6	-0.0063	mg/L	-0.3140 ppm
3	Ni 231.604	4494.9	4219.7	0.0834	mg/L	4.169 ppm
3	Pb 220.353	897.1	712.2	0.0602	mg/L	3.012 ppm
3	Sb 206.833	91.8	31.2	-0.0042	mg/L	-0.2119 ppm
3	Se 196.026	-13.3	-97.6	-0.0116	mg/L	-0.5797 ppm
3	Tl 190.800	305.1	116.5	0.0085	mg/L	0.4235 ppm
3	V 292.402	20589.2	20426.5	0.1832	mg/L	9.160 ppm
3	Zn 213.856	36074.7	36658.1	0.3352	mg/L	16.76 ppm

Mean Data ----------

ID: 6149-8 F=50 Seq. No.: 89 Sample No.: 65 A/S Pos: 73

ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 4:05:35 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	-470.6	-0.0023	0.00028	mg/L	-0.1166	0.01397	ppm	11.98%
Al 308.215	3078623.9	84.38	0.350	mg/L	4219	17.5	ppm	0.41%
As 188.979	-52.9	0.0380	0.00338	mg/L	1.898	0.1692	ppm	8.92%
a 233.527	200581.7	0.5678	0.00167	mg/L	28.39	0.083	ppm	0.29%
e 313.107	2145.9	0.0008	0.00005	mg/L	0.0387	0.00231	ppm	5.98%
a 227.547	580082.9	2221	3.9	mg/L	111000	194.2	ppm	0.17%
Cd 228.802	482.2	0.0038	0.00045	mg/L	0.1903	0.02244	ppm	11.79%
o 228.616	4267.2	0.0403	0.00088	mg/L	2.017	0.0442	ppm	2.19%
r 267.716	15378.0	0.1700	0.00274	mg/L	8.502	0.1369	ppm	1.61%
u 324.754	17996.4	0.0611	0.00059	mg/L	3.053	0.0296	ppm	0.97%
Fe 273.955	4963677.6	99.68	0.312	mg/L	4984	15.6	ppm	0.31%
g 279.079	2751607.3	86.64	0.158	mg/L	4332	7.9	ppm	0.18%
n 257.610	3237898.7	2.040	0.0061	mg/L	102.0	0.30	ppm	0.30%
o 202.030	-13.5	-0.0046	0.00380	mg/L	-0.2293	0.19003	ppm	82.89%
Ni 231.604	4165.2	0.0823	0.00095	mg/L	4.115	0.0475	ppm	1.15%
Pb 220.353	733.0	0.0616	0.00402	mg/L	3.081	0.2008	ppm	6.52%
b 206.833	50.8	0.0006	0.00948	mg/L	0.0276	0.47378	ppm	>999.9%
e 196.026	-44.6	0.0077	0.01682	mg/L	0.3838	0.84120	ppm	219.20%
Tl 190.800	109.0	0.0063	0.01040	mg/L	0.3135	0.51980	ppm	165.80%
V 292.402	20029.2	0.1796	0.00309	mg/L	8.982	0.1546	ppm	1.72%

Zn 213.856	36257.2	0.3314	0.00393 mg/L	16.57	0.196 ppm	1.19%

Replicate Data
ID: 6149-9 F=50
Date: 11/21/02 4:08:11 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1963.2	-889.2	-0.0044	mg/L	-0.2204	ppm
1	Al 308.215	4047962.1	4043364.5	110.8	mg/L	5541	ppm
1	As 188.979	117.6	48.1	0.0604	mg/L	3.019	ppm
1	Ba 233.527	186002.3	186867.9	0.5290	mg/L	26.45	ppm
1	Be 313.107	1012.1	1426.3	0.0005	mg/L	0.0257	ppm
1	Ca 227.547	406883.0	406599.5	1558	mg/L	77920	ppm
1	Cd 228.802	311.4	221.7	0.0017	mg/L	0.0875	ppm
1	Co 228.616	6110.1	6526.8	0.0617	mg/L	3.085	ppm
1	Cr 267.716	18620.3	18780.1	0.2077	mg/L	10.38	ppm
1	Cu 324.754	26519.3	24232.3	0.0830	mg/L	4.150	ppm
1	Fe 273.955	7531316.4	7528326.6	151.2	mg/L	7559	ppm
1	Mg 279.079	2622721.0	2622124.8	82.56	mg/L	4128	ppm
1	Mn 257.610	3294053.9	3292933.2	2.075	mg/L	103.7	ppm
1	Mo 202.030	-17.6	10.9	-0.0053	mg/L	-0.2645	ppm
1	Ni 231.604	5887.9	5612.7	0.1109	mg/L	5.545	ppm
1	Pb 220.353	1312.5	1127.6	0.0871	mg/L	4.355	ppm
1	Sb 206.833	180.9	120.2	0.0132	mg/L	0.6584	ppm
1	Se 196.026	-54.5	-138.8	-0.0130	mg/L	-0.6475	ppm
1	Tl 190.800	269.7	81.1	-0.0145	mg/L	-0.7250	ppm
1	V 292.402	33500.9	33338.1	0.2990	mg/L	14.95	ppm
1	Zn 213.856	175540.2	176123.5	1.645	mg/L	82.25	ppm
2	Ag 328.068	-1812.1	-738.1	-0.0037	mg/L	-0.1830	ppm
2	Al 308.215	4000586.3	3995988.7	109.5	mg/L	5476	ppm
2	As 188.979	89.3	19.8	0.0488	mg/L	2.438	ppm
2	Ba 233.527	184157.4	185023.0	0.5237	mg/L	26.19	ppm
2	Be 313.107	800.5	1214.7	0.0004	mg/L	0.0219	ppm
2	Ca 227.547	399429.7	399146.2	1530	mg/L	76500	ppm
2	Cd 228.802	522.4	432.6	0.0034	mg/L	0.1707	ppm
2	Co 228.616	6043.5	6460.2	0.0611	mg/L	3.053	ppm
2	Cr 267.716	18265.2	18425.0	0.2037	mg/L	10.19	ppm
2	Cu 324.754	26531.9	24245.0	0.0830	mg/L	4.149	ppm
2	Fe 273.955	7464818.4	7461828.6	149.8	mg/L	7492	ppm
2	Mg 279.079	2591389.4	2590793.2	81.57	mg/L	4079	ppm
2	Mn 257.610	3242221.1	3241100.3	2.042	mg/L	102.1	ppm
2	Mo 202.030	-50.6	-22.1	-0.0070	mg/L	-0.3494	ppm
2	Ni 231.604	5638.0	5362.8	0.1060	mg/L	5.298	ppm
2	Pb 220.353	1239.2	1054.3	0.0820	mg/L	4.101	ppm
2	Sb 206.833	133.3	72.7	0.0020	mg/L	0.0998	ppm
2	Se 196.026	-41.6	-125.9	-0.0086	mg/L	-0.4286	ppm
2	Tl 190.800	314.0	125.4	-0.0013	mg/L	-0.0632	ppm
2	V 292.402	32970.7	32808.0	0.2942	mg/L	14.71	ppm
2	Zn 213.856	173635.2	174218.6	1.627	mg/L	81.36	ppm
3	Ag 328.068	-1773.3	-699.3	-0.0035	mg/L	-0.1733	ppm
3	Al 308.215	4103876.4	4099278.8	112.4	mg/L	5618	ppm
3	As 188.979	69.0	-0.4	0.0408	mg/L	2.039	ppm
3	Ba 233.527	184069.7	184935.3	0.5235	mg/L	26.17	ppm
3	Be 313.107	748.0	1162.3	0.0004	mg/L	0.0210	ppm
3	Ca 227.547	397020.0	396736.5	1521	mg/L	76040	ppm
3	Cd 228.802	431.0	341.3	0.0027	mg/L	0.1347	ppm
3	Co 228.616	6084.0	6500.7	0.0614	mg/L	3.072	ppm
3	Cr 267.716	18826.9	18986.6	0.2099	mg/L	10.50	ppm
3	Cu 324.754	26835.7	24548.8	0.0841	mg/L	4.204	ppm
3	Fe 273.955	7640081.6	7637091.8	153.4	mg/L	7668	ppm
3	Mg 279.079	2638176.8	2637580.6	83.05	mg/L	4152	ppm
3	Mn 257.610	3297927.9	3296807.2	2.077	mg/L	103.9	ppm
3	Mo 202.030	16.6	45.1	-0.0036	mg/L	-0.1781	ppm
3	Ni 231.604	5826.2	5551.0	0.1097	mg/L	5.484	ppm
3	Pb 220.353	1221.9	1037.0	0.0800	mg/L	3.999	ppm
3	Sb 206.833	72.5	11.8	-0.0130	mg/L	-0.6483	ppm
3	Se 196.026	1.3	-83.0	0.0079	mg/L	0.3932	ppm
3	Tl 190.800	306.5	118.0	-0.0044	mg/L	-0.2211	ppm
3	V 292.402	32894.9	32732.2	0.2936	mg/L	14.68	ppm

3 Zn 213.856	172462.4	173045.8	1.616 mg/L	80.79 ppm	

Mean Data

ID: 6149-9 F=50 Seq. No.: 90 Sample No.: 66 A/S Pos: 74
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 4:08:11 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-775.6	-0.0038	0.00050	mg/L	-0.1922	0.02487	ppm	12.94%
Al 308.215	4046210.7	110.9	1.42	mg/L	5545	70.9	ppm	1.28%
As 188.979	22.5	0.0500	0.00986	mg/L	2.499	0.4928	ppm	19.72%
Ba 233.527	185608.8	0.5254	0.00309	mg/L	26.27	0.154	ppm	0.59%
Be 313.107	1267.8	0.0005	0.00005	mg/L	0.0229	0.00252	ppm	11.03%
Ca 227.547	400827.4	1536	19.7	mg/L	76820	982.6	ppm	1.28%
Cd 228.802	331.9	0.0026	0.00084	mg/L	0.1310	0.04176	ppm	31.89%
Co 228.616	6495.9	0.0614	0.00032	mg/L	3.070	0.0159	ppm	0.52%
Cr 267.716	18730.6	0.2071	0.00314	mg/L	10.36	0.157	ppm	1.52%
Cu 324.754	24342.0	0.0833	0.00064	mg/L	4.167	0.0319	ppm	0.76%
Fe 273.955	7542415.6	151.5	1.78	mg/L	7573	88.8	ppm	1.17%
Mg 279.079	2616832.9	82.39	0.751	mg/L	4120	37.5	ppm	0.91%
Mn 257.610	3276946.9	2.065	0.0196	mg/L	103.2	0.98	ppm	0.95%
Mo 202.030	11.3	-0.0053	0.00171	mg/L	-0.2640	0.08563	ppm	32.43%
Ni 231.604	5508.8	0.1089	0.00257	mg/L	5.443	0.1286	ppm	2.36%
Pb 220.353	1073.0	0.0830	0.00366	mg/L	4.151	0.1832	ppm	4.41%
Sb 206.833	68.2	0.0007	0.01311	mg/L	0.0366	0.65565	ppm	>999.9%
Se 196.026	-115.9	-0.0046	0.01097	mg/L	-0.2276	0.54869	ppm	241.04%
Tl 190.800	108.2	-0.0067	0.00691	mg/L	-0.3364	0.34562	ppm	102.73%
V 292.402	32959.4	0.2956	0.00296	mg/L	14.78	0.148	ppm	1.00%
Zn 213.856	174462.7	1.629	0.0147	mg/L	81.47	0.737	ppm	0.90%

Replicate Data

ID: 6149-10 F=50 Date: 11/21/02 4:10:52 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-3605.9	-2531.9	-0.0126	mg/L	-0.6276	ppm
1	Al 308.215	9121663.2	9117065.7	249.9	mg/L	12490	ppm
1	As 188.979	412.9	343.5	0.1554	mg/L	7.769	ppm
1	Ba 233.527	295657.9	296523.5	0.8394	mg/L	41.97	ppm
1	Be 313.107	23559.8	23974.0	0.0087	mg/L	0.4326	ppm
1	Ca 227.547	186164.8	185881.3	719.6	mg/L	35980	ppm
1	Cd 228.802	224.0	134.3	0.0011	mg/L	0.0530	ppm
1	Co 228.616	21478.2	21894.9	0.2070	mg/L	10.35	ppm
1	Cr 267.716	39419.5	39579.3	0.4280	mg/L	21.40	ppm
1	Cu 324.754	53820.9	51534.0	0.1796	mg/L	8.982	ppm
1	Fe 273.955	19436082.0	19433092.2	390.3	mg/L	19510	ppm
1	Mg 279.079	3570822.1	3570225.9	112.4	mg/L	5621	ppm
1	Mn 257.610	4333796.4	4332675.6	2.730	mg/L	136.5	ppm
1	Mo 202.030	155.0	183.5	-0.0054	mg/L	-0.2715	ppm
1	Ni 231.604	21188.2	20913.0	0.4132	mg/L	20.66	ppm
1	Pb 220.353	2839.2	2654.3	0.1913	mg/L	9.565	ppm
1	Sb 206.833	246.9	186.3	0.0083	mg/L	0.4169	ppm
1	Se 196.026	-244.2	-328.5	-0.0200	mg/L	-0.9987	ppm
1	Tl 190.800	413.7	225.2	-0.0309	mg/L	-1.547	ppm
1	V 292.402	92882.0	92719.2	0.8316	mg/L	41.58	ppm
1	Zn 213.856	90107.0	90690.4	0.8141	mg/L	40.70	ppm
2	Ag 328.068	-3640.3	-2566.3	-0.0127	mg/L	-0.6361	ppm
2	Al 308.215	9257869.1	9253271.5	253.6	mg/L	12680	ppm
2	As 188.979	368.7	299.3	0.1378	mg/L	6.888	ppm
2	Ba 233.527	289677.9	290543.5	0.8224	mg/L	41.12	ppm
2	Be 313.107	23042.5	23456.7	0.0085	mg/L	0.4233	ppm
2	Ca 227.547	180727.6	180444.1	698.9	mg/L	34940	ppm
2	Cd 228.802	288.8	199.0	0.0016	mg/L	0.0785	ppm
2	Co 228.616	21717.1	22133.8	0.2092	mg/L	10.46	ppm
2	Cr 267.716	38147.7	38307.4	0.4138	mg/L	20.69	ppm
2	Cu 324.754	52684.4	50397.5	0.1763	mg/L	8.816	ppm
2	Fe 273.955	19700565.7	19697575.9	395.6	mg/L	19780	ppm
2	Mg 279.079	3483879.0	3483282.9	109.7	mg/L	5484	ppm
2	Mn 257.610	4214360.4	4213239.7	2.654	mg/L	132.7	ppm

2	Mo 202.030	111.7	140.2	-0.0079	mg/L	-0.3965 ppm
2	Ni 231.604	21270.3	20995.1	0.4149	mg/L	20.74 ppm
2	Pb 220.353	2829.7	2644.8	0.1908	mg/L	9.538 ppm
2	Sb 206.833	198.5	137.9	-0.0032	mg/L	-0.1580 ppm
2	Se 196.026	-221.6	-305.9	-0.0104	mg/L	-0.5219 ppm
2	Tl 190.800	419.5	230.9	-0.0306	mg/L	-1.528 ppm
2	V 292.402	89605.2	89442.5	0.8022	mg/L	40.11 ppm
2	Zn 213.856	87812.5	88395.9	0.7919	mg/L	39.59 ppm
3	Ag 328.068	-3929.7	-2855.8	-0.0142	mg/L	-0.7078 ppm
3	Al 308.215	9288021.8	9283424.2	254.4	mg/L	12720 ppm
3	As 188.979	410.0	340.6	0.1541	mg/L	7.704 ppm
3	Ba 233.527	295577.9	296443.5	0.8391	mg/L	41.96 ppm
3	Be 313.107	23516.3	23930.5	0.0086	mg/L	0.4318 ppm
3	Ca 227.547	184457.7	184174.2	713.2	mg/L	35660 ppm
3	Cd 228.802	343.4	253.7	0.0020	mg/L	0.1001 ppm
3	Co 228.616	21930.2	22346.9	0.2112	mg/L	10.56 ppm
3	Cr 267.716	39131.5	39291.3	0.4246	mg/L	21.23 ppm
3	Cu 324.754	53976.2	51689.3	0.1804	mg/L	9.022 ppm
3	Fe 273.955	19774889.5	19771899.7	397.1	mg/L	19850 ppm
3	Mg 279.079	3551767.8	3551171.7	111.8	mg/L	5591 ppm
3	Mn 257.610	4296523.1	4295402.4	2.706	mg/L	135.3 ppm
3	Mo 202.030	209.7	238.2	-0.0028	mg/L	-0.1398 ppm
3	Ni 231.604	21166.8	20891.5	0.4128	mg/L	20.64 ppm
3	Pb 220.353	2915.3	2730.5	0.1966	mg/L	9.829 ppm
3	Sb 206.833	156.8	96.2	-0.0135	mg/L	-0.6773 ppm
3	Se 196.026	-207.0	-291.3	-0.0048	mg/L	-0.2379 ppm
3	Tl 190.800	386.5	197.9	-0.0405	mg/L	-2.026 ppm
3	V 292.402	92229.5	92066.7	0.8257	mg/L	41.29 ppm
3	Zn 213.856	89657.3	90240.7	0.8091	mg/L	40.46 ppm

Mean Data ----------

ID: 6149-10 F=50
Sample Qty: 1.0000 mL
Seq. No.: 91 Sample No.: 67 A/S Pos: 75
Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 4:10:52 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	-2651.3	-0.0131	0.00088	mg/L	-0.6572	0.04409	ppm	6.71%
Al 308.215	9217920.5	252.6	2.43	mg/L	12630	121.5	ppm	0.96%
As 188.979	327.8	0.1491	0.00982	mg/L	7.454	0.4911	ppm	6.59%
Ba 233.527	294503.5	0.8336	0.00971	mg/L	41.68	0.485	ppm	1.16%
Be 313.107	23787.1	0.0086	0.00010	mg/L	0.4292	0.00518	ppm	1.21%
Ca 227.547	183499.9	710.5	10.59	mg/L	35530	529.4	ppm	1.49%
Cd 228.802	195.6	0.0015	0.00047	mg/L	0.0772	0.02359	ppm	30.55%
Co 228.616	22125.2	0.2091	0.00214	mg/L	10.46	0.107	ppm	1.02%
Cr 267.716	39059.3	0.4221	0.00742	mg/L	21.11	0.371	ppm	1.76%
Cu 324.754	51207.0	0.1788	0.00219	mg/L	8.940	0.1093	ppm	1.22%
Fe 273.955	19634189.3	394.3	3.58	mg/L	19710	178.8	ppm	0.91%
Mg 279.079	3534893.5	111.3	1.44	mg/L	5565	71.9	ppm	1.29%
Mn 257.610	4280439.3	2.697	0.0385	mg/L	134.8	1.92	ppm	1.43%
Mo 202.030	187.3	-0.0054	0.00257	mg/L	-0.2693	0.12837	ppm	47.67%
Ni 231.604	20933.2	0.4136	0.00108	mg/L	20.68	0.054	ppm	0.26%
Pb 220.353	2676.5	0.1929	0.00321	mg/L	9.644	0.1607	ppm	1.67%
Sb 206.833	140.1	-0.0028	0.01095	mg/L	-0.1395	0.54729	ppm	392.40%
Se 196.026	-308.6	-0.0117	0.00769	mg/L	-0.5862	0.38446	ppm	65.59%
Tl 190.800	218.0	-0.0340	0.00565	mg/L	-1.700	0.2826	ppm	16.62%
V 292.402	91409.5	0.8198	0.01556	mg/L	40.99	0.778	ppm	1.90%
Zn 213.856	89775.7	0.8050	0.01165	mg/L	40.25	0.583	ppm	1.45%

Replicate Data ----------

ID: 6149-11 F=50 Date: 11/21/02 4:13:39 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-2940.4	-1866.5	-0.0093	mg/L	-0.4626	ppm
1	Al 308.215	3360093.7	3355496.1	91.97	mg/L	4598	ppm
1	As 188.979	94.2	24.7	0.0603	mg/L	3.013	ppm
1	Ba 233.527	325242.0	326107.6	0.9231	mg/L	46.16	ppm
1	Be 313.107	5626.9	6041.1	0.0022	mg/L	0.1090	ppm
1	Ca 227.547	497320.8	497037.3	1904	mg/L	95190	ppm

1	Cd 228.802	595.4	505.6	0.0040	mg/L	0.1995	ppm
1	Co 228.616	24708.2	25124.9	0.2375	mg/L	11.88	ppm
1	Cr 267.716	16884.8	17044.6	0.1885	mg/L	9.424	ppm
1	Cu 324.754	22794.0	20507.1	0.0701	mg/L	3.506	ppm
1	Fe 273.955	6258272.7	6255282.9	125.6	mg/L	6281	ppm
1	Mg 279.079	2549979.7	2549383.5	80.27	mg/L	4013	ppm
1	Mn 257.610	11383729.0	11382608.3	7.171	mg/L	358.6	ppm
1	Mo 202.030	-35.1	-6.6	-0.0052	mg/L	-0.2612	ppm
1	Ni 231.604	11029.9	10754.7	0.2125	mg/L	10.63	ppm
1	Pb 220.353	1116.0	931.1	0.0741	mg/L	3.707	ppm
1	Sb 206.833	62.3	1.7	-0.0130	mg/L	-0.6508	ppm
1	Se 196.026	-44.3	-128.6	-0.0156	mg/L	-0.7786	ppm
1	Tl 190.800	272.5	84.0	-0.0064	mg/L	-0.3218	ppm
1	V 292.402	30181.8	30019.1	0.2692	mg/L	13.46	ppm
1	Zn 213.856	57636.2	58219.6	0.5358	mg/L	26.79	ppm
2	Ag 328.068	-2672.9	-1599.0	-0.0079	mg/L	-0.3963	ppm
2	Al 308.215	3298222.5	3293625.0	90.27	mg/L	4514	ppm
2	As 188.979	121.9	52.4	0.0697	mg/L	3.486	ppm
2	Ba 233.527	319134.3	319999.9	0.9058	mg/L	45.29	ppm
2	Be 313.107	5593.0	6007.2	0.0022	mg/L	0.1084	ppm
2	Ca 227.547	485248.4	484964.9	1858	mg/L	92880	ppm
2	Cd 228.802	665.1	575.3	0.0045	mg/L	0.2270	ppm
2	Co 228.616	25099.3	25516.0	0.2412	mg/L	12.06	ppm
2	Cr 267.716	17256.0	17415.8	0.1926	mg/L	9.629	ppm
2	Cu 324.754	22399.5	20112.5	0.0688	mg/L	3.438	ppm
2	Fe 273.955	6126023.9	6123034.1	123.0	mg/L	6148	ppm
2	Mg 279.079	2496274.3	2495678.2	78.58	mg/L	3929	ppm
2	Mn 257.610	11034446.9	11033326.2	6.951	mg/L	347.6	ppm
2	Mo 202.030	-57.7	-29.2	-0.0063	mg/L	-0.3161	ppm
2	Ni 231.604	11134.2	10858.9	0.2146	mg/L	10.73	ppm
2	Pb 220.353	1046.8	861.9	0.0693	mg/L	3.463	ppm
2	Sb 206.833	87.9	27.3	-0.0069	mg/L	-0.3428	ppm
2	Se 196.026	-85.7	-170.0	-0.0313	mg/L	-1.563	ppm
2	Tl 190.800	262.2	73.7	-0.0088	mg/L	-0.4404	ppm
2	V 292.402	29772.8	29610.0	0.2656	mg/L	13.28	ppm
2	Zn 213.856	56176.2	56759.6	0.5223	mg/L	26.12	ppm
3	Ag 328.068	-2632.4	-1558.4	-0.0077	mg/L	-0.3863	ppm
3	Al 308.215	3303942.4	3299344.8	90.43	mg/L	4521	ppm
3	As 188.979	93.7	24.2	0.0593	mg/L	2.963	ppm
3	Ba 233.527	319778.7	320644.3	0.9076	mg/L	45.38	ppm
3	Be 313.107	5666.7	6080.9	0.0022	mg/L	0.1097	ppm
3	Ca 227.547	487683.7	487400.3	1867	mg/L	93350	ppm
3	Cd 228.802	482.9	393.2	0.0031	mg/L	0.1551	ppm
3	Co 228.616	24341.0	24757.7	0.2340	mg/L	11.70	ppm
3	Cr 267.716	16761.2	16921.0	0.1871	mg/L	9.355	ppm
3	Cu 324.754	23010.0	20723.1	0.0709	mg/L	3.543	ppm
3	Fe 273.955	6324042.3	6321052.5	126.9	mg/L	6347	ppm
3	Mg 279.079	2500973.4	2500377.3	78.73	mg/L	3936	ppm
3	Mn 257.610	11403977.0	11402856.3	7.184	mg/L	359.2	ppm
3	Mo 202.030	-3.7	24.9	-0.0036	mg/L	-0.1806	ppm
3	Ni 231.604	10793.1	10517.9	0.2078	mg/L	10.39	ppm
3	Pb 220.353	1078.9	894.0	0.0714	mg/L	3.572	ppm
3	Sb 206.833	64.6	3.9	-0.0124	mg/L	-0.6218	ppm
3	Se 196.026	0.6	-83.7	0.0013	mg/L	0.0633	ppm
3	Tl 190.800	234.2	45.7	-0.0176	mg/L	-0.8789	ppm
3	V 292.402	29990.4	29827.6	0.2675	mg/L	13.38	ppm
3	Zn 213.856	56794.1	57377.5	0.5277	mg/L	26.39	ppm

lean Data ----------

ID: 6149-11 F=50 Seq. No.: 92 Sample No.: 68 A/S Pos: 76
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 4:13:39 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-1674.6	-0.0083	0.00083	mg/L	-0.4151	0.04148	ppm	9.99%
l 308.215	3316155.3	90.89	0.937	mg/L	4545	46.9	ppm	1.03%
s 188.979	33.8	0.0631	0.00577	mg/L	3.154	0.2886	ppm	9.15%
Ba 233.527	322250.6	0.9122	0.00950	mg/L	45.61	0.475	ppm	1.04%
Be 313.107	6043.1	0.0022	0.00001	mg/L	0.1090	0.00067	ppm	0.61%

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Ca 227.547	489800.8	1876	24.4	mg/L	93800	1221.7	ppm	1.30%
Cd 228.802	491.4	0.0039	0.00073	mg/L	0.1939	0.03628	ppm	18.71%
Co 228.616	25132.9	0.2376	0.00358	mg/L	11.88	0.179	ppm	1.51%
Cr 267.716	17127.1	0.1894	0.00285	mg/L	9.469	0.1424	ppm	1.50%
Cu 324.754	20447.6	0.0699	0.00106	mg/L	3.496	0.0532	ppm	1.52%
Fe 273.955	6233123.1	125.2	2.03	mg/L	6259	101.3	ppm	1.62%
Mg 279.079	2515146.3	79.19	0.936	mg/L	3960	46.8	ppm	1.18%
Mn 257.610	11272930.3	7.102	0.1309	mg/L	355.1	6.54	ppm	1.84%
Mo 202.030	-3.6	-0.0051	0.00136	mg/L	-0.2526	0.06817	ppm	26.98%
Ni 231.604	10710.5	0.2116	0.00345	mg/L	10.58	0.173	ppm	1.63%
Pb 220.353	895.7	0.0716	0.00245	mg/L	3.581	0.1223	ppm	3.42%
Sb 206.833	10.9	-0.0108	0.00340	mg/L	-0.5385	0.17008	ppm	31.59%
Se 196.026	-127.4	-0.0152	0.01627	mg/L	-0.7595	0.81346	ppm	107.10%
Tl 190.800	67.8	-0.0109	0.00587	mg/L	-0.5470	0.29348	ppm	53.65%
V 292.402	29818.9	0.2674	0.00184	mg/L	13.37	0.092	ppm	0.69%
Zn 213.856	57452.2	0.5286	0.00679	mg/L	26.43	0.339	ppm	1.28%

Replicate Data ----------
ID: 6149-12 F=50
Date: 11/21/02 4:16:25 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-3074.5	-2000.5	-0.0099	mg/L	-0.4958	ppm
1	Al 308.215	5552746.2	5548148.6	152.1	mg/L	7603	ppm
1	As 188.979	309.0	239.5	0.1110	mg/L	5.549	ppm
1	Ba 233.527	295826.3	296691.9	0.8398	mg/L	41.99	ppm
1	Be 313.107	6512.8	6927.0	0.0025	mg/L	0.1250	ppm
1	Ca 227.547	134686.1	134402.6	520.6	mg/L	26030	ppm
1	Cd 228.802	415.9	326.2	0.0026	mg/L	0.1287	ppm
1	Co 228.616	14457.7	14874.4	0.1406	mg/L	7.030	ppm
1	Cr 267.716	27073.7	27233.5	0.2938	mg/L	14.69	ppm
1	Cu 324.754	62455.5	60168.6	0.2024	mg/L	10.12	ppm
1	Fe 273.955	14715836.6	14712846.7	295.5	mg/L	14770	ppm
1	Mg 279.079	2805859.0	2805262.9	88.32	mg/L	4416	ppm
1	Mn 257.610	6411260.9	6410140.2	4.039	mg/L	201.9	ppm
1	Mo 202.030	152.7	181.2	-0.0019	mg/L	-0.0936	ppm
1	Ni 231.604	13734.0	13458.8	0.2659	mg/L	13.30	ppm
1	Pb 220.353	2629.1	2444.2	0.1718	mg/L	8.589	ppm
1	Sb 206.833	170.7	110.1	0.0010	mg/L	0.0481	ppm
1	Se 196.026	-150.2	-234.5	-0.0073	mg/L	-0.3641	ppm
1	Tl 190.800	334.3	145.8	-0.0266	mg/L	-1.329	ppm
1	V 292.402	69358.1	69195.3	0.6206	mg/L	31.03	ppm
1	Zn 213.856	136260.2	136843.6	1.259	mg/L	62.97	ppm
2	Ag 328.068	-2960.4	-1886.4	-0.0094	mg/L	-0.4676	ppm
2	Al 308.215	5528564.2	5523966.7	151.4	mg/L	7570	ppm
2	As 188.979	295.6	226.1	0.1062	mg/L	5.310	ppm
2	Ba 233.527	304100.1	304965.7	0.8633	mg/L	43.16	ppm
2	Be 313.107	6709.1	7123.3	0.0026	mg/L	0.1285	ppm
2	Ca 227.547	137994.6	137711.1	533.2	mg/L	26660	ppm
2	Cd 228.802	465.6	375.8	0.0030	mg/L	0.1483	ppm
2	Co 228.616	14434.2	14850.9	0.1404	mg/L	7.019	ppm
2	Cr 267.716	27311.4	27471.2	0.2965	mg/L	14.82	ppm
2	Cu 324.754	64815.0	62528.1	0.2098	mg/L	10.49	ppm
2	Fe 273.955	14669096.1	14666106.2	294.5	mg/L	14730	ppm
2	Mg 279.079	2876961.3	2876365.1	90.56	mg/L	4528	ppm
2	Mn 257.610	6342753.3	6341632.6	3.995	mg/L	199.8	ppm
2	Mo 202.030	182.2	210.7	-0.0003	mg/L	-0.0137	ppm
2	Ni 231.604	13723.8	13448.6	0.2657	mg/L	13.29	ppm
2	Pb 220.353	2605.2	2420.3	0.1702	mg/L	8.510	ppm
2	Sb 206.833	145.5	84.9	-0.0051	mg/L	-0.2539	ppm
2	Se 196.026	-81.7	-166.0	0.0174	mg/L	0.8679	ppm
2	Tl 190.800	262.1	73.6	-0.0474	mg/L	-2.370	ppm
2	V 292.402	70760.9	70598.1	0.6332	mg/L	31.66	ppm
2	Zn 213.856	140020.2	140603.6	1.295	mg/L	64.75	ppm
3	Ag 328.068	-3040.7	-1966.7	-0.0097	mg/L	-0.4875	ppm
3	Al 308.215	5656858.9	5652261.4	154.9	mg/L	7746	ppm
3	As 188.979	279.1	209.7	0.0995	mg/L	4.975	ppm
3	Ba 233.527	299146.1	300011.7	0.8492	mg/L	42.46	ppm
3	Be 313.107	6650.3	7064.5	0.0025	mg/L	0.1275	ppm

3	Ca 227.547	135285.5	135002.0	523.0	mg/L	26150 ppm
3	Cd 228.802	422.5	332.8	0.0026	mg/L	0.1313 ppm
3	Co 228.616	13682.7	14099.4	0.1333	mg/L	6.664 ppm
3	Cr 267.716	25692.0	25851.8	0.2784	mg/L	13.92 ppm
3	Cu 324.754	63439.7	61152.7	0.2057	mg/L	10.29 ppm
3	Fe 273.955	14942322.4	14939332.6	300.0	mg/L	15000 ppm
3	Mg 279.079	2831573.0	2830976.9	89.13	mg/L	4457 ppm
3	Mn 257.610	6449979.1	6448858.4	4.063	mg/L	203.1 ppm
3	Mo 202.030	186.2	214.7	-0.0003	mg/L	-0.0136 ppm
3	Ni 231.604	13246.5	12971.3	0.2563	mg/L	12.82 ppm
3	Pb 220.353	2390.9	2206.0	0.1560	mg/L	7.799 ppm
3	Sb 206.833	181.7	121.0	0.0038	mg/L	0.1881 ppm
3	Se 196.026	-105.9	-190.2	0.0100	mg/L	0.4990 ppm
3	Tl 190.800	336.8	148.3	-0.0270	mg/L	-1.349 ppm
3	V 292.402	70117.6	69954.9	0.6274	mg/L	31.37 ppm
3	Zn 213.856	137261.6	137845.0	1.268	mg/L	63.42 ppm

an Data ----------

: 6149-12 F=50 Seq. No.: 93 Sample No.: 69 A/S Pos: 77
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 4:16:25 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	-1951.2	-0.0097	0.00029	mg/L	-0.4836	0.01453	ppm	3.00%
308.215	5574792.2	152.8	1.87	mg/L	7640	93.4	ppm	1.22%
188.979	225.1	0.1056	0.00577	mg/L	5.278	0.2884	ppm	5.46%
233.527	300556.4	0.8508	0.01179	mg/L	42.54	0.589	ppm	1.39%
Be 313.107	7038.3	0.0025	0.00004	mg/L	0.1270	0.00182	ppm	1.43%
Ca 227.547	135705.3	525.6	6.71	mg/L	26280	335.5	ppm	1.28%
228.802	344.9	0.0027	0.00021	mg/L	0.1361	0.01064	ppm	7.82%
228.616	14608.2	0.1381	0.00417	mg/L	6.904	0.2084	ppm	3.02%
Cr 267.716	26852.1	0.2896	0.00974	mg/L	14.48	0.487	ppm	3.36%
Cu 324.754	61283.1	0.2060	0.00369	mg/L	10.30	0.184	ppm	1.79%
273.955	14772761.9	296.7	2.93	mg/L	14830	146.7	ppm	0.99%
279.079	2837535.0	89.34	1.134	mg/L	4467	56.7	ppm	1.27%
Mn 257.610	6400210.4	4.032	0.0342	mg/L	201.6	1.71	ppm	0.85%
Mo 202.030	202.2	-0.0008	0.00092	mg/L	-0.0403	0.04617	ppm	114.62%
231.604	13292.9	0.2627	0.00550	mg/L	13.13	0.275	ppm	2.10%
220.353	2356.8	0.1660	0.00870	mg/L	8.300	0.4352	ppm	5.24%
Sb 206.833	105.3	-0.0001	0.00452	mg/L	-0.0059	0.22589	ppm	>999.9%
Se 196.026	-196.9	0.0067	0.01265	mg/L	0.3342	0.63231	ppm	189.18%
190.800	122.6	-0.0337	0.01191	mg/L	-1.683	0.5954	ppm	35.38%
292.402	69916.1	0.6271	0.00630	mg/L	31.35	0.315	ppm	1.00%
213.856	138430.8	1.274	0.0185	mg/L	63.71	0.925	ppm	1.45%

plicate Data ----------

: CCV 1379B Date: 11/21/02 4:19:30 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	204017.1	205091.1	1.017	mg/L		
1	Al 308.215	189293.1	184695.5	5.062	mg/L		
1	As 188.979	1396.3	1326.8	0.5146	mg/L		
1	Ba 233.527	1834459.1	1835324.7	5.195	mg/L		
1	Be 313.107	1420394.0	1420808.2	0.5128	mg/L		
1	Ca 227.547	13683.8	13400.3	51.25	mg/L		
1	Cd 228.802	132288.9	132199.2	1.043	mg/L		
1	Co 228.616	220903.6	221320.3	2.092	mg/L		
1	Cr 267.716	46057.1	46216.9	0.5110	mg/L		
1	Cu 324.754	667709.3	665422.4	2.089	mg/L		
1	Fe 273.955	260837.9	257848.1	5.178	mg/L		
1	Mg 279.079	826797.0	826200.9	26.01	mg/L		
1	Mn 257.610	3345790.6	3344669.9	2.107	mg/L		
1	Mo 202.030	38395.3	38423.8	2.035	mg/L		
1	Ni 231.604	105336.0	105060.8	2.076	mg/L		
1	Pb 220.353	7804.8	7619.9	0.5099	mg/L		
1	Sb 206.833	8701.0	8640.4	2.052	mg/L		
1	Se 196.026	1496.7	1412.4	0.5146	mg/L		
1	Tl 190.800	1975.6	1787.1	0.5196	mg/L		
1	V 292.402	226968.0	226805.2	2.034	mg/L		

1	Zn 213.856	216006.8	216590.2	2.043 mg/L
2	Ag 328.068	196924.8	197998.8	0.9815 mg/L
2	Al 308.215	184241.5	179644.0	4.924 mg/L
2	As 188.979	1389.2	1319.7	0.5117 mg/L
2	Ba 233.527	1792711.4	1793577.0	5.077 mg/L
2	Be 313.107	1396712.4	1397126.6	0.5042 mg/L
2	Ca 227.547	13409.6	13126.1	50.20 mg/L
2	Cd 228.802	127654.0	127564.2	1.007 mg/L
2	Co 228.616	213536.9	213953.6	2.022 mg/L
2	Cr 267.716	44371.6	44531.4	0.4924 mg/L
2	Cu 324.754	650797.8	648510.9	2.036 mg/L
2	Fe 273.955	252695.6	249705.7	5.015 mg/L
2	Mg 279.079	807585.7	806989.6	25.41 mg/L
2	Mn 257.610	3252050.6	3250929.9	2.048 mg/L
2	Mo 202.030	37572.6	37601.1	1.992 mg/L
2	Ni 231.604	102863.9	102588.7	2.027 mg/L
2	Pb 220.353	7719.4	7534.5	0.5041 mg/L
2	Sb 206.833	8607.5	8546.8	2.030 mg/L
2	Se 196.026	1493.2	1408.9	0.5132 mg/L
2	Tl 190.800	1955.0	1766.5	0.5136 mg/L
2	V 292.402	218299.3	218136.6	1.956 mg/L
2	Zn 213.856	209734.0	210317.4	1.984 mg/L
3	Ag 328.068	202053.9	203127.9	1.007 mg/L
3	Al 308.215	188128.2	183530.6	5.030 mg/L
3	As 188.979	1392.6	1323.1	0.5132 mg/L
3	Ba 233.527	1811050.0	1811915.6	5.129 mg/L
3	Be 313.107	1404683.0	1405097.2	0.5071 mg/L
3	Ca 227.547	13722.0	13438.6	51.40 mg/L
3	Cd 228.802	131271.8	131182.0	1.035 mg/L
3	Co 228.616	219813.3	220230.0	2.082 mg/L
3	Cr 267.716	45680.9	45840.7	0.5069 mg/L
3	Cu 324.754	659856.0	657569.1	2.064 mg/L
3	Fe 273.955	255829.4	252839.6	5.078 mg/L
3	Mg 279.079	818077.0	817480.9	25.74 mg/L
3	Mn 257.610	3309224.1	3308103.4	2.084 mg/L
3	Mo 202.030	38426.4	38454.9	2.037 mg/L
3	Ni 231.604	104716.1	104440.9	2.064 mg/L
3	Pb 220.353	7740.5	7555.6	0.5056 mg/L
3	Sb 206.833	8630.7	8570.1	2.035 mg/L
3	Se 196.026	1496.7	1412.4	0.5145 mg/L
3	Tl 190.800	1970.7	1782.1	0.5181 mg/L
3	V 292.402	225647.6	225484.9	2.022 mg/L
3	Zn 213.856	214889.2	215472.6	2.032 mg/L

Mean Data ----------

ID: CCV 1379B Seq. No.: 94 Sample No.: 5 A/S Pos: 6
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 4:19:30 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	202072.6	1.002	0.0182	mg/L				1.81%
Al 308.215	182623.4	5.005	0.0725	mg/L				1.45%
As 188.979	1323.2	0.5132	0.00145	mg/L				0.28%
Ba 233.527	1813605.8	5.134	0.0592	mg/L				1.15%
Be 313.107	1407677.3	0.5080	0.00435	mg/L				0.86%
Ca 227.547	13321.7	50.95	0.652	mg/L				1.28%
Cd 228.802	130315.1	1.029	0.0192	mg/L				1.87%
Co 228.616	218501.3	2.065	0.0376	mg/L				1.82%
Cr 267.716	45529.6	0.5034	0.00978	mg/L				1.94%
Cu 324.754	657167.5	2.063	0.0266	mg/L				1.29%
Fe 273.955	253464.4	5.090	0.0825	mg/L				1.62%
Mg 279.079	816890.4	25.72	0.303	mg/L				1.18%
Mn 257.610	3301234.4	2.080	0.0298	mg/L				1.43%
Mo 202.030	38159.9	2.021	0.0257	mg/L				1.27%
Ni 231.604	104030.1	2.056	0.0254	mg/L				1.24%
Pb 220.353	7570.0	0.5065	0.00297	mg/L				0.59%
Sb 206.833	8585.8	2.039	0.0114	mg/L				0.56%
Se 196.026	1411.2	0.5141	0.00075	mg/L				0.15%
Tl 190.800	1778.6	0.5171	0.00313	mg/L				0.60%

292.402	223475.6	2.004	0.0419 mg/L	2.09%
213.856	214126.7	2.019	0.0316 mg/L	1.56%

Replicate Data ----------

: CCB Date: 11/21/02 4:22:57 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-988.4	85.5	0.0004	mg/L		
1	Al 308.215	4888.8	291.2	0.0080	mg/L		
1	As 188.979	64.0	-5.4	-0.0021	mg/L		
1	Ba 233.527	-501.0	364.6	0.0010	mg/L		
1	Be 313.107	157.4	571.6	0.0002	mg/L		
1	Ca 227.547	222.9	-60.6	-0.2317	mg/L		
1	Cd 228.802	97.0	7.2	0.0001	mg/L		
1	Co 228.616	-376.7	40.0	0.0004	mg/L		
1	Cr 267.716	-127.9	31.9	0.0004	mg/L		
1	Cu 324.754	2588.9	302.0	0.0009	mg/L		
1	Fe 273.955	4216.5	1226.7	0.0246	mg/L		
1	Mg 279.079	-641.9	-1238.1	-0.0390	mg/L		
1	Mn 257.610	2563.9	1443.2	0.0009	mg/L		
1	Mo 202.030	0.9	29.4	0.0016	mg/L		
1	Ni 231.604	376.5	101.3	0.0020	mg/L		
1	Pb 220.353	187.0	2.1	0.0001	mg/L		
1	Sb 206.833	62.0	1.4	0.0003	mg/L		
1	Se 196.026	77.4	-6.8	-0.0025	mg/L		
1	Tl 190.800	199.5	10.9	0.0032	mg/L		
1	V 292.402	296.4	133.7	0.0012	mg/L		
1	Zn 213.856	-211.8	371.6	0.0035	mg/L		
2	Ag 328.068	-879.0	194.9	0.0010	mg/L		
2	Al 308.215	4765.3	167.7	0.0046	mg/L		
2	As 188.979	68.4	-1.0	-0.0004	mg/L		
2	Ba 233.527	-727.8	137.9	0.0004	mg/L		
2	Be 313.107	167.8	582.0	0.0002	mg/L		
2	Ca 227.547	306.2	22.7	0.0869	mg/L		
2	Cd 228.802	87.8	-2.0	0.0000	mg/L		
2	Co 228.616	-344.9	71.8	0.0007	mg/L		
2	Cr 267.716	-114.9	44.9	0.0005	mg/L		
2	Cu 324.754	2366.3	79.3	0.0002	mg/L		
2	Fe 273.955	3733.8	743.9	0.0149	mg/L		
2	Mg 279.079	-591.2	-1187.4	-0.0374	mg/L		
2	Mn 257.610	2229.1	1108.4	0.0007	mg/L		
2	Mo 202.030	-20.1	8.4	0.0004	mg/L		
2	Ni 231.604	351.3	76.1	0.0015	mg/L		
2	Pb 220.353	176.0	-8.9	-0.0006	mg/L		
2	Sb 206.833	64.2	3.6	0.0009	mg/L		
2	Se 196.026	73.6	-10.7	-0.0039	mg/L		
2	Tl 190.800	192.8	4.3	0.0012	mg/L		
2	V 292.402	307.9	145.2	0.0013	mg/L		
2	Zn 213.856	-316.9	266.5	0.0025	mg/L		
3	Ag 328.068	-941.3	132.7	0.0007	mg/L		
3	Al 308.215	4853.9	256.3	0.0070	mg/L		
3	As 188.979	65.0	-4.5	-0.0017	mg/L		
3	Ba 233.527	-679.4	186.2	0.0005	mg/L		
3	Be 313.107	4.7	418.9	0.0002	mg/L		
3	Ca 227.547	281.3	-2.2	-0.0084	mg/L		
3	Cd 228.802	85.8	-3.9	0.0000	mg/L		
3	Co 228.616	-326.3	90.4	0.0009	mg/L		
3	Cr 267.716	-77.5	82.3	0.0009	mg/L		
3	Cu 324.754	2454.0	167.1	0.0005	mg/L		
3	Fe 273.955	3499.2	509.4	0.0102	mg/L		
3	Mg 279.079	-482.6	-1078.7	-0.0340	mg/L		
3	Mn 257.610	1982.0	861.3	0.0005	mg/L		
3	Mo 202.030	-29.0	-0.5	0.0000	mg/L		
3	Ni 231.604	389.3	114.0	0.0023	mg/L		
3	Pb 220.353	177.6	-7.3	-0.0005	mg/L		
3	Sb 206.833	51.0	-9.6	-0.0023	mg/L		
3	Se 196.026	78.6	-5.7	-0.0021	mg/L		
3	Tl 190.800	191.5	3.0	0.0009	mg/L		

3	V 292.402	229.7	66.9	0.0006 mg/L
3	Zn 213.856	-380.5	202.9	0.0019 mg/L

Mean Data

ID: CCB Seq. No.: 95 Sample No.: 6 A/S Pos: 1
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 4:22:57 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	137.7	0.0007	0.00027	mg/L				39.84%
Al 308.215	238.4	0.0065	0.00175	mg/L				26.71%
As 188.979	-3.6	-0.0014	0.00088	mg/L				63.19%
Ba 233.527	229.5	0.0006	0.00034	mg/L				52.02%
Be 313.107	524.2	0.0002	0.00003	mg/L				17.41%
Ca 227.547	-13.3	-0.0511	0.16352	mg/L				320.27%
Cd 228.802	0.4	0.0000	0.00005	mg/L				>999.9%
Co 228.616	67.4	0.0006	0.00024	mg/L				37.80%
Cr 267.716	53.0	0.0006	0.00029	mg/L				49.28%
Cu 324.754	182.8	0.0006	0.00035	mg/L				61.35%
Fe 273.955	826.7	0.0166	0.00734	mg/L				44.24%
Mg 279.079	-1168.1	-0.0368	0.00256	mg/L				6.97%
Mn 257.610	1137.6	0.0007	0.00018	mg/L				25.67%
Mo 202.030	12.4	0.0007	0.00081	mg/L				123.69%
Ni 231.604	97.1	0.0019	0.00038	mg/L				19.87%
Pb 220.353	-4.7	-0.0003	0.00040	mg/L				127.57%
Sb 206.833	-1.5	-0.0004	0.00170	mg/L				459.40%
Se 196.026	-7.8	-0.0028	0.00095	mg/L				33.91%
Tl 190.800	6.1	0.0018	0.00124	mg/L				70.55%
V 292.402	115.3	0.0010	0.00038	mg/L				36.64%
Zn 213.856	280.3	0.0026	0.00080	mg/L				30.39%

Replicate Data

ID: 6149-13 F=50 Date: 11/21/02 4:26:07 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-3178.3	-2104.4	-0.0104	mg/L	-0.5216	ppm
1	Al 308.215	5404567.0	5399969.4	148.0	mg/L	7400	ppm
1	As 188.979	329.0	259.5	0.1444	mg/L	7.219	ppm
1	Ba 233.527	801293.6	802159.2	2.271	mg/L	113.5	ppm
1	Be 313.107	13531.0	13945.2	0.0050	mg/L	0.2516	ppm
1	Ca 227.547	377578.5	377295.0	1450	mg/L	72510	ppm
1	Cd 228.802	1107.0	1017.3	0.0080	mg/L	0.4014	ppm
1	Co 228.616	17639.2	18055.9	0.1707	mg/L	8.534	ppm
1	Cr 267.716	29298.7	29458.5	0.3177	mg/L	15.89	ppm
1	Cu 324.754	141440.1	139153.2	0.4516	mg/L	22.58	ppm
1	Fe 273.955	16114423.8	16111434.0	323.6	mg/L	16180	ppm
1	Mg 279.079	3488641.3	3488045.2	109.8	mg/L	5491	ppm
1	Mn 257.610	9125573.6	9124452.9	5.749	mg/L	287.4	ppm
1	Mo 202.030	117.7	146.2	-0.0048	mg/L	-0.2407	ppm
1	Ni 231.604	16121.6	15846.4	0.3131	mg/L	15.66	ppm
1	Pb 220.353	4115.8	3930.9	0.2742	mg/L	13.71	ppm
1	Sb 206.833	166.1	105.4	-0.0018	mg/L	-0.0921	ppm
1	Se 196.026	-122.3	-206.6	0.0116	mg/L	0.5788	ppm
1	Tl 190.800	397.2	208.7	-0.0100	mg/L	-0.4982	ppm
1	V 292.402	76337.6	76174.9	0.6832	mg/L	34.16	ppm
1	Zn 213.856	126837.8	127421.2	1.168	mg/L	58.38	ppm
2	Ag 328.068	-2983.6	-1909.7	-0.0095	mg/L	-0.4733	ppm
2	Al 308.215	5340644.1	5336046.5	146.3	mg/L	7313	ppm
2	As 188.979	319.3	249.9	0.1405	mg/L	7.025	ppm
2	Ba 233.527	798684.3	799549.9	2.263	mg/L	113.2	ppm
2	Be 313.107	13510.1	13924.3	0.0050	mg/L	0.2513	ppm
2	Ca 227.547	376469.6	376186.2	1446	mg/L	72290	ppm
2	Cd 228.802	1080.7	991.0	0.0078	mg/L	0.3911	ppm
2	Co 228.616	17550.4	17967.1	0.1698	mg/L	8.492	ppm
2	Cr 267.716	29020.4	29180.2	0.3147	mg/L	15.74	ppm
2	Cu 324.754	141306.1	139019.2	0.4510	mg/L	22.55	ppm
2	Fe 273.955	15923261.5	15920271.6	319.7	mg/L	15990	ppm
2	Mg 279.079	3473912.7	3473316.5	109.4	mg/L	5468	ppm

2	Mn 257.610	9028825.1	9027704.4	5.688	mg/L	284.4 ppm
2	Mo 202.030	187.5	216.1	-0.0010	mg/L	-0.0483 ppm
2	Ni 231.604	16161.6	15886.4	0.3139	mg/L	15.70 ppm
2	Pb 220.353	4054.1	3869.2	0.2700	mg/L	13.50 ppm
2	Sb 206.833	175.8	115.1	0.0008	mg/L	0.0388 ppm
2	Se 196.026	-141.8	-226.1	0.0035	mg/L	0.1748 ppm
2	Tl 190.800	355.0	166.4	-0.0214	mg/L	-1.071 ppm
2	V 292.402	75013.3	74850.5	0.6713	mg/L	33.57 ppm
2	Zn 213.856	127339.6	127923.0	1.173	mg/L	58.63 ppm
3	Ag 328.068	-2911.4	-1837.4	-0.0091	mg/L	-0.4554 ppm
3	Al 308.215	5201054.8	5196457.2	142.4	mg/L	7121 ppm
3	As 188.979	331.1	261.6	0.1451	mg/L	7.256 ppm
3	Ba 233.527	804189.0	805054.6	2.279	mg/L	113.9 ppm
3	Be 313.107	13468.0	13882.3	0.0050	mg/L	0.2505 ppm
3	Ca 227.547	377887.9	377604.4	1451	mg/L	72560 ppm
3	Cd 228.802	1053.3	963.6	0.0076	mg/L	0.3803 ppm
3	Co 228.616	17797.9	18214.6	0.1722	mg/L	8.609 ppm
3	Cr 267.716	29185.3	29345.0	0.3167	mg/L	15.84 ppm
3	Cu 324.754	142387.1	140100.2	0.4542	mg/L	22.71 ppm
3	Fe 273.955	15619160.3	15616170.5	313.6	mg/L	15680 ppm
3	Mg 279.079	3497322.7	3496726.5	110.1	mg/L	5505 ppm
3	Mn 257.610	8786115.4	8784994.7	5.535	mg/L	276.7 ppm
3	Mo 202.030	142.7	171.2	-0.0031	mg/L	-0.1551 ppm
3	Ni 231.604	16258.9	15983.7	0.3158	mg/L	15.79 ppm
3	Pb 220.353	4163.1	3978.2	0.2771	mg/L	13.86 ppm
3	Sb 206.833	218.3	157.7	0.0113	mg/L	0.5629 ppm
3	Se 196.026	-182.7	-267.0	-0.0129	mg/L	-0.6461 ppm
3	Tl 190.800	395.1	206.6	-0.0083	mg/L	-0.4148 ppm
3	V 292.402	75408.5	75245.8	0.6749	mg/L	33.74 ppm
3	Zn 213.856	127840.8	128424.2	1.178	mg/L	58.90 ppm

Mean Data ----------

ID: 6149-13 F=50 Seq. No.: 96 Sample No.: 70 A/S Pos: 78
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 4:26:07 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-1950.5	-0.0097	0.00068	mg/L	-0.4834	0.03422	ppm	7.08%
Al 308.215	5310824.4	145.6	2.85	mg/L	7278	142.6	ppm	1.96%
As 188.979	257.0	0.1433	0.00249	mg/L	7.166	0.1243	ppm	1.73%
a 233.527	802254.5	2.271	0.0078	mg/L	113.5	0.39	ppm	0.34%
e 313.107	13917.2	0.0050	0.00001	mg/L	0.2511	0.00058	ppm	0.23%
a 227.547	377028.5	1449	2.8	mg/L	72450	140.9	ppm	0.19%
Cd 228.802	990.6	0.0078	0.00021	mg/L	0.3909	0.01059	ppm	2.71%
o 228.616	18079.2	0.1709	0.00119	mg/L	8.545	0.0593	ppm	0.69%
r 267.716	29327.9	0.3164	0.00152	mg/L	15.82	0.076	ppm	0.48%
u 324.754	139424.2	0.4523	0.00165	mg/L	22.61	0.083	ppm	0.37%
Fe 273.955	15882625.4	319.0	5.02	mg/L	15950	250.8	ppm	1.57%
Mg 279.079	3486029.4	109.8	0.37	mg/L	5488	18.6	ppm	0.34%
n 257.610	8979050.6	5.657	0.1102	mg/L	282.9	5.51	ppm	1.95%
o 202.030	177.8	-0.0030	0.00193	mg/L	-0.1480	0.09639	ppm	65.11%
Ni 231.604	15905.5	0.3143	0.00140	mg/L	15.71	0.070	ppm	0.44%
Pb 220.353	3926.1	0.2738	0.00359	mg/L	13.69	0.180	ppm	1.31%
b 206.833	126.1	0.0034	0.00693	mg/L	0.1698	0.34660	ppm	204.07%
e 196.026	-233.2	0.0007	0.01248	mg/L	0.0358	0.62419	ppm	>999.9%
Tl 190.800	193.9	-0.0132	0.00714	mg/L	-0.6612	0.35701	ppm	53.99%
V 292.402	75423.7	0.6764	0.00610	mg/L	33.82	0.305	ppm	0.90%
n 213.856	127922.8	1.173	0.0053	mg/L	58.64	0.263	ppm	0.45%

Replicate Data ----------

ID: 6149-14 F=50 Date: 11/21/02 4:28:46 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-3573.5	-2499.6	-0.0124	mg/L	-0.6195	ppm
1	Al 308.215	6168293.0	6163695.4	168.9	mg/L	8447	ppm
1	As 188.979	414.4	345.0	0.1464	mg/L	7.322	ppm
1	Ba 233.527	281968.1	282833.7	0.8006	mg/L	40.03	ppm
1	Be 313.107	18493.1	18907.3	0.0068	mg/L	0.3412	ppm

1	Ca 227.547	66341.4	66057.9	260.6	mg/L	13030	ppm
1	Cd 228.802	242.0	152.2	0.0012	mg/L	0.0601	ppm
1	Co 228.616	16761.4	17178.1	0.1624	mg/L	8.119	ppm
1	Cr 267.716	28045.6	28205.4	0.3029	mg/L	15.15	ppm
1	Cu 324.754	79764.5	77477.6	0.2598	mg/L	12.99	ppm
1	Fe 273.955	17988331.6	17985341.8	361.2	mg/L	18060	ppm
1	Mg 279.079	2946258.2	2945662.1	92.75	mg/L	4637	ppm
1	Mn 257.610	3391691.4	3390570.7	2.136	mg/L	106.8	ppm
1	Mo 202.030	125.7	154.2	-0.0059	mg/L	-0.2927	ppm
1	Ni 231.604	19608.7	19333.5	0.3820	mg/L	19.10	ppm
1	Pb 220.353	2996.4	2811.5	0.1950	mg/L	9.751	ppm
1	Sb 206.833	140.5	79.8	-0.0097	mg/L	-0.4864	ppm
1	Se 196.026	-161.1	-245.4	0.0073	mg/L	0.3651	ppm
1	Tl 190.800	404.2	215.6	-0.0188	mg/L	-0.9397	ppm
1	V 292.402	72723.6	72560.9	0.6508	mg/L	32.54	ppm
1	Zn 213.856	85256.4	85839.8	0.7714	mg/L	38.57	ppm
2	Ag 328.068	-3413.9	-2339.9	-0.0116	mg/L	-0.5800	ppm
2	Al 308.215	6355488.5	6350891.0	174.1	mg/L	8703	ppm
2	As 188.979	395.8	326.4	0.1397	mg/L	6.985	ppm
2	Ba 233.527	290830.1	291695.7	0.8257	mg/L	41.29	ppm
2	Be 313.107	18680.9	19095.2	0.0069	mg/L	0.3446	ppm
2	Ca 227.547	68446.7	68163.3	268.9	mg/L	13440	ppm
2	Cd 228.802	124.1	34.3	0.0003	mg/L	0.0135	ppm
2	Co 228.616	16671.8	17088.5	0.1615	mg/L	8.077	ppm
2	Cr 267.716	29092.7	29252.5	0.3143	mg/L	15.71	ppm
2	Cu 324.754	82626.5	80339.6	0.2692	mg/L	13.46	ppm
2	Fe 273.955	18457268.3	18454278.5	370.6	mg/L	18530	ppm
2	Mg 279.079	3028494.2	3027898.1	95.33	mg/L	4767	ppm
2	Mn 257.610	3484908.7	3483788.0	2.195	mg/L	109.7	ppm
2	Mo 202.030	148.0	176.5	-0.0050	mg/L	-0.2519	ppm
2	Ni 231.604	19257.3	18982.1	0.3751	mg/L	18.75	ppm
2	Pb 220.353	3010.2	2825.3	0.1962	mg/L	9.808	ppm
2	Sb 206.833	157.5	96.9	-0.0065	mg/L	-0.3260	ppm
2	Se 196.026	-166.7	-251.0	0.0077	mg/L	0.3871	ppm
2	Tl 190.800	413.1	224.6	-0.0184	mg/L	-0.9212	ppm
2	V 292.402	75184.5	75021.8	0.6728	mg/L	33.64	ppm
2	Zn 213.856	87317.6	87901.0	0.7898	mg/L	39.49	ppm
3	Ag 328.068	-3340.7	-2266.8	-0.0112	mg/L	-0.5618	ppm
3	Al 308.215	6142955.3	6138357.8	168.2	mg/L	8412	ppm
3	As 188.979	443.5	374.0	0.1576	mg/L	7.882	ppm
3	Ba 233.527	282965.8	283831.4	0.8034	mg/L	40.17	ppm
3	Be 313.107	18452.2	18866.4	0.0068	mg/L	0.3404	ppm
3	Ca 227.547	66839.9	66556.4	262.5	mg/L	13120	ppm
3	Cd 228.802	131.4	41.6	0.0003	mg/L	0.0164	ppm
3	Co 228.616	17296.1	17712.8	0.1674	mg/L	8.372	ppm
3	Cr 267.716	28356.6	28516.4	0.3064	mg/L	15.32	ppm
3	Cu 324.754	80287.1	78000.2	0.2613	mg/L	13.07	ppm
3	Fe 273.955	17894843.7	17891853.8	359.3	mg/L	17970	ppm
3	Mg 279.079	2952100.8	2951504.6	92.93	mg/L	4646	ppm
3	Mn 257.610	3409715.7	3408594.9	2.147	mg/L	107.4	ppm
3	Mo 202.030	99.0	127.5	-0.0072	mg/L	-0.3597	ppm
3	Ni 231.604	19769.3	19494.1	0.3852	mg/L	19.26	ppm
3	Pb 220.353	3021.5	2836.6	0.1967	mg/L	9.834	ppm
3	Sb 206.833	195.2	134.6	0.0034	mg/L	0.1680	ppm
3	Se 196.026	-185.7	-270.0	-0.0021	mg/L	-0.1069	ppm
3	Tl 190.800	398.6	210.0	-0.0200	mg/L	-1.002	ppm
3	V 292.402	73694.9	73532.2	0.6595	mg/L	32.97	ppm
3	Zn 213.856	85121.2	85704.6	0.7703	mg/L	38.52	ppm

Mean Data ----------

ID: 6149-14 F=50 Seq. No.: 97 Sample No.: 71 A/S Pos: 79

Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 4:28:46 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	-2368.8	-0.0117	0.00059	mg/L	-0.5871	0.02950	ppm	5.03%
Al 308.215	6217648.1	170.4	3.18	mg/L	8521	159.1	ppm	1.87%
As 188.979	348.5	0.1479	0.00906	mg/L	7.397	0.4532	ppm	6.13%
Ba 233.527	286120.3	0.8099	0.01374	mg/L	40.50	0.687	ppm	1.70%

e 313.107	18956.3	0.0068	0.00004 mg/L	0.3421	0.00220 ppm	0.64%
1 227.547	66925.9	264.0	4.33 mg/L	13200	216.6 ppm	1.64%
d 228.802	76.0	0.0006	0.00052 mg/L	0.0300	0.02607 ppm	86.86%
Co 228.616	17326.5	0.1638	0.00319 mg/L	8.189	0.1595 ppm	1.95%
r 267.716	28658.1	0.3079	0.00581 mg/L	15.39	0.291 ppm	1.89%
1 324.754	78605.8	0.2634	0.00505 mg/L	13.17	0.252 ppm	1.92%
e 273.955	18110491.4	363.7	6.05 mg/L	18180	302.6 ppm	1.66%
Mg 279.079	2975021.6	93.67	1.445 mg/L	4683	72.2 ppm	1.54%
Mn 257.610	3427651.2	2.159	0.0312 mg/L	108.0	1.56 ppm	1.44%
o 202.030	152.7	-0.0060	0.00109 mg/L	-0.3014	0.05447 ppm	18.07%
i 231.604	19269.9	0.3808	0.00517 mg/L	19.04	0.259 ppm	1.36%
Pb 220.353	2824.5	0.1960	0.00085 mg/L	9.798	0.0424 ppm	0.43%
Sb 206.833	103.8	-0.0043	0.00682 mg/L	-0.2148	0.34104 ppm	158.76%
e 196.026	-255.5	0.0043	0.00558 mg/L	0.2151	0.27907 ppm	129.75%
l 190.800	216.7	-0.0191	0.00085 mg/L	-0.9544	0.04241 ppm	4.44%
V 292.402	73705.0	0.6610	0.01112 mg/L	33.05	0.556 ppm	1.68%
Zn 213.856	86481.8	0.7772	0.01097 mg/L	38.86	0.549 ppm	1.41%

eplicate Data ----------
D: 6149-15 F=50 Date: 11/21/02 4:31:42 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-983.2	90.8	0.0005	mg/L	0.0225	ppm
1	Al 308.215	551680.4	547082.9	14.99	mg/L	749.7	ppm
1	As 188.979	92.9	23.4	0.0119	mg/L	0.5932	ppm
1	Ba 233.527	193256.6	194122.2	0.5495	mg/L	27.48	ppm
1	Be 313.107	-582.8	-168.6	-0.0001	mg/L	-0.0030	ppm
1	Ca 227.547	29179.0	28895.5	110.5	mg/L	5526	ppm
1	Cd 228.802	355.8	266.0	0.0021	mg/L	0.1050	ppm
1	Co 228.616	1062.4	1479.1	0.0140	mg/L	0.6991	ppm
1	Cr 267.716	3455.0	3614.8	0.0400	mg/L	1.999	ppm
1	Cu 324.754	40676.8	38389.9	0.1205	mg/L	6.026	ppm
1	Fe 273.955	1169231.3	1166241.4	23.42	mg/L	1171	ppm
1	Mg 279.079	1207712.4	1207116.3	38.01	mg/L	1900	ppm
1	Mn 257.610	2583951.8	2582831.1	1.627	mg/L	81.36	ppm
1	Mo 202.030	78.1	106.6	0.0056	mg/L	0.2824	ppm
1	Ni 231.604	2423.4	2148.2	0.0424	mg/L	2.122	ppm
1	Pb 220.353	703.3	518.4	0.0347	mg/L	1.734	ppm
1	Sb 206.833	87.3	26.7	0.0064	mg/L	0.3190	ppm
1	Se 196.026	83.2	-1.1	0.0056	mg/L	0.2788	ppm
1	Tl 190.800	225.5	37.0	0.0039	mg/L	0.1959	ppm
1	V 292.402	4942.2	4779.5	0.0429	mg/L	2.143	ppm
1	Zn 213.856	79655.4	80238.8	0.7567	mg/L	37.84	ppm
2	Ag 328.068	-1082.4	-8.4	0.0000	mg/L	-0.0021	ppm
2	Al 308.215	559800.3	555202.7	15.22	mg/L	760.9	ppm
2	As 188.979	95.3	25.9	0.0129	mg/L	0.6445	ppm
2	Ba 233.527	197767.6	198633.2	0.5623	mg/L	28.11	ppm
2	Be 313.107	-548.4	-134.2	0.0000	mg/L	-0.0024	ppm
2	Ca 227.547	30047.8	29764.3	113.8	mg/L	5692	ppm
2	Cd 228.802	358.7	269.0	0.0021	mg/L	0.1061	ppm
2	Co 228.616	1055.2	1471.9	0.0139	mg/L	0.6957	ppm
2	Cr 267.716	3458.8	3618.6	0.0400	mg/L	2.001	ppm
2	Cu 324.754	41679.6	39392.7	0.1237	mg/L	6.183	ppm
2	Fe 273.955	1183459.7	1180469.9	23.71	mg/L	1185	ppm
2	Mg 279.079	1227810.0	1227213.8	38.64	mg/L	1932	ppm
2	Mn 257.610	2617067.1	2615946.4	1.648	mg/L	82.41	ppm
2	Mo 202.030	86.1	114.6	0.0061	mg/L	0.3036	ppm
2	Ni 231.604	2413.9	2138.7	0.0423	mg/L	2.113	ppm
2	Pb 220.353	697.7	512.8	0.0343	mg/L	1.716	ppm
2	Sb 206.833	75.0	14.4	0.0034	mg/L	0.1722	ppm
2	Se 196.026	80.7	-3.6	0.0047	mg/L	0.2370	ppm
2	Tl 190.800	227.3	38.8	0.0043	mg/L	0.2168	ppm
2	V 292.402	5061.7	4898.9	0.0439	mg/L	2.197	ppm
2	Zn 213.856	81451.0	82034.4	0.7737	mg/L	38.68	ppm
3	Ag 328.068	-1060.6	13.3	0.0001	mg/L	0.0033	ppm
3	Al 308.215	556557.7	551960.1	15.13	mg/L	756.4	ppm
3	As 188.979	102.3	32.9	0.0155	mg/L	0.7770	ppm
3	Ba 233.527	193842.5	194708.1	0.5512	mg/L	27.56	ppm

3	Be 313.107	-593.5	-179.3	-0.0001	mg/L	-0.0032 ppm
3	Ca 227.547	29709.9	29426.5	112.5	mg/L	5627 ppm
3	Cd 228.802	367.5	277.7	0.0022	mg/L	0.1096 ppm
3	Co 228.616	1050.4	1467.1	0.0139	mg/L	0.6934 ppm
3	Cr 267.716	3450.6	3610.4	0.0399	mg/L	1.996 ppm
3	Cu 324.754	41081.6	38794.6	0.1218	mg/L	6.089 ppm
3	Fe 273.955	1174754.2	1171764.4	23.53	mg/L	1177 ppm
3	Mg 279.079	1221214.9	1220618.8	38.43	mg/L	1922 ppm
3	Mn 257.610	2612669.0	2611548.3	1.645	mg/L	82.27 ppm
3	Mo 202.030	72.3	100.8	0.0053	mg/L	0.2670 ppm
3	Ni 231.604	2414.7	2139.5	0.0423	mg/L	2.114 ppm
3	Pb 220.353	697.0	512.2	0.0343	mg/L	1.713 ppm
3	Sb 206.833	88.3	27.7	0.0066	mg/L	0.3310 ppm
3	Se 196.026	86.7	2.4	0.0069	mg/L	0.3432 ppm
3	Tl 190.800	223.9	35.4	0.0034	mg/L	0.1696 ppm
3	V 292.402	5019.9	4857.2	0.0436	mg/L	2.178 ppm
3	Zn 213.856	79876.6	80460.0	0.7588	mg/L	37.94 ppm

Mean Data ----------

ID: 6149-15 F=50 Seq. No.: 98 Sample No.: 72 A/S Pos: 80
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 4:31:42 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	31.9	0.0002	0.00026	mg/L	0.0079	0.01293	ppm	163.49%
Al 308.215	551415.2	15.11	0.112	mg/L	755.7	5.60	ppm	0.74%
As 188.979	27.4	0.0134	0.00190	mg/L	0.6716	0.09486	ppm	14.12%
Ba 233.527	195821.2	0.5543	0.00694	mg/L	27.72	0.347	ppm	1.25%
Be 313.107	-160.7	-0.0001	0.00001	mg/L	-0.0029	0.00043	ppm	14.66%
Ca 227.547	29362.1	112.3	1.67	mg/L	5615	83.7	ppm	1.49%
Cd 228.802	270.9	0.0021	0.00005	mg/L	0.1069	0.00240	ppm	2.25%
Co 228.616	1472.7	0.0139	0.00006	mg/L	0.6961	0.00286	ppm	0.41%
Cr 267.716	3614.6	0.0400	0.00005	mg/L	1.998	0.0023	ppm	0.11%
Cu 324.754	38859.1	0.1220	0.00158	mg/L	6.099	0.0792	ppm	1.30%
Fe 273.955	1172825.2	23.55	0.144	mg/L	1178	7.2	ppm	0.61%
Mg 279.079	1218316.3	38.36	0.323	mg/L	1918	16.1	ppm	0.84%
Mn 257.610	2603441.9	1.640	0.0113	mg/L	82.01	0.567	ppm	0.69%
Mo 202.030	107.4	0.0057	0.00037	mg/L	0.2843	0.01836	ppm	6.46%
Ni 231.604	2142.1	0.0423	0.00010	mg/L	2.116	0.0052	ppm	0.25%
Pb 220.353	514.5	0.0344	0.00023	mg/L	1.721	0.0114	ppm	0.66%
Sb 206.833	22.9	0.0055	0.00177	mg/L	0.2740	0.08843	ppm	32.27%
Se 196.026	-0.7	0.0057	0.00107	mg/L	0.2863	0.05348	ppm	18.68%
Tl 190.800	37.0	0.0039	0.00047	mg/L	0.1941	0.02366	ppm	12.19%
V 292.402	4845.2	0.0435	0.00054	mg/L	2.173	0.0272	ppm	1.25%
Zn 213.856	80911.0	0.7631	0.00923	mg/L	38.15	0.462	ppm	1.21%

Replicate Data ----------

ID: 6149-16 F=50 Date: 11/21/02 4:35:12 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1004.0	70.0	0.0003	mg/L	0.0173	ppm
1	Al 308.215	624457.7	619860.1	16.99	mg/L	849.5	ppm
1	As 188.979	95.8	26.3	0.0151	mg/L	0.7538	ppm
1	Ba 233.527	209021.8	209887.4	0.5941	mg/L	29.71	ppm
1	Be 313.107	-572.9	-158.7	-0.0001	mg/L	-0.0029	ppm
1	Ca 227.547	38878.8	38595.3	147.6	mg/L	7381	ppm
1	Cd 228.802	365.3	275.6	0.0022	mg/L	0.1088	ppm
1	Co 228.616	1167.6	1584.3	0.0150	mg/L	0.7488	ppm
1	Cr 267.716	3855.3	4015.1	0.0444	mg/L	2.220	ppm
1	Cu 324.754	44120.7	41833.8	0.1313	mg/L	6.566	ppm
1	Fe 273.955	1394628.1	1391638.3	27.95	mg/L	1397	ppm
1	Mg 279.079	1649318.4	1648722.3	51.91	mg/L	2596	ppm
1	Mn 257.610	2744010.2	2742889.5	1.728	mg/L	86.40	ppm
1	Mo 202.030	90.3	118.8	0.0063	mg/L	0.3146	ppm
1	Ni 231.604	2583.9	2308.6	0.0456	mg/L	2.281	ppm
1	Pb 220.353	740.8	555.9	0.0372	mg/L	1.860	ppm
1	Sb 206.833	89.3	28.6	0.0069	mg/L	0.3426	ppm
1	Se 196.026	81.2	-3.1	0.0061	mg/L	0.3028	ppm
1	Tl 190.800	229.3	40.7	0.0036	mg/L	0.1799	ppm

1 V 292.402	5967.0	5804.3	0.0521	mg/L	2.603 ppm
1 Zn 213.856	59389.4	59972.8	0.5656	mg/L	28.28 ppm
2 Ag 328.068	-1085.7	-11.8	-0.0001	mg/L	-0.0029 ppm
2 Al 308.215	603133.3	598535.7	16.40	mg/L	820.2 ppm
2 As 188.979	104.8	35.4	0.0185	mg/L	0.9262 ppm
2 Ba 233.527	206646.0	207511.6	0.5874	mg/L	29.37 ppm
2 Be 313.107	-409.6	4.6	0.0000	mg/L	0.0001 ppm
2 Ca 227.547	38996.6	38713.1	148.1	mg/L	7403 ppm
2 Cd 228.802	365.9	276.1	0.0022	mg/L	0.1090 ppm
2 Co 228.616	1150.7	1567.4	0.0148	mg/L	0.7408 ppm
2 Cr 267.716	3758.1	3917.9	0.0433	mg/L	2.166 ppm
2 Cu 324.754	44287.3	42000.4	0.1318	mg/L	6.592 ppm
2 Fe 273.955	1345527.8	1342537.9	26.96	mg/L	1348 ppm
2 Mg 279.079	1604278.1	1603681.9	50.49	mg/L	2525 ppm
2 Mn 257.610	2680329.9	2679209.2	1.688	mg/L	84.40 ppm
2 Mo 202.030	78.0	106.5	0.0056	mg/L	0.2820 ppm
2 Ni 231.604	2585.5	2310.3	0.0457	mg/L	2.283 ppm
2 Pb 220.353	728.2	543.3	0.0364	mg/L	1.818 ppm
2 Sb 206.833	68.7	8.1	0.0019	mg/L	0.0969 ppm
2 Se 196.026	88.4	4.1	0.0084	mg/L	0.4207 ppm
2 Tl 190.800	226.1	37.6	0.0030	mg/L	0.1482 ppm
2 V 292.402	6115.7	5952.9	0.0534	mg/L	2.669 ppm
2 Zn 213.856	59835.3	60418.7	0.5698	mg/L	28.49 ppm
3 Ag 328.068	-1031.5	42.4	0.0002	mg/L	0.0105 ppm
3 Al 308.215	630926.3	626328.7	17.17	mg/L	858.3 ppm
3 As 188.979	96.3	26.9	0.0151	mg/L	0.7559 ppm
3 Ba 233.527	198808.1	199673.8	0.5652	mg/L	28.26 ppm
3 Be 313.107	-543.9	-129.7	0.0000	mg/L	-0.0023 ppm
3 Ca 227.547	37142.7	36859.2	141.0	mg/L	7049 ppm
3 Cd 228.802	343.5	253.7	0.0020	mg/L	0.1001 ppm
3 Co 228.616	1162.3	1579.0	0.0149	mg/L	0.7463 ppm
3 Cr 267.716	3792.4	3952.2	0.0437	mg/L	2.185 ppm
3 Cu 324.754	42241.4	39954.5	0.1254	mg/L	6.271 ppm
3 Fe 273.955	1401525.0	1398535.1	28.09	mg/L	1404 ppm
3 Mg 279.079	1657256.2	1656660.0	52.16	mg/L	2608 ppm
3 Mn 257.610	2770383.5	2769262.8	1.745	mg/L	87.23 ppm
3 Mo 202.030	88.2	116.7	0.0062	mg/L	0.3091 ppm
3 Ni 231.604	2604.3	2329.1	0.0460	mg/L	2.301 ppm
3 Pb 220.353	744.5	559.6	0.0374	mg/L	1.872 ppm
3 Sb 206.833	82.4	21.8	0.0052	mg/L	0.2606 ppm
3 Se 196.026	82.9	-1.4	0.0067	mg/L	0.3348 ppm
3 Tl 190.800	230.9	42.4	0.0040	mg/L	0.2013 ppm
3 V 292.402	5783.2	5620.4	0.0504	mg/L	2.520 ppm
3 Zn 213.856	56681.1	57264.5	0.5401	mg/L	27.00 ppm

ean Data ----------

D: 6149-16 F=50 Seq. No.: 99 Sample No.: 73 A/S Pos: 81
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 4:35:12 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	33.5	0.0002	0.00021	mg/L	0.0083	0.01031	ppm	124.02%
l 308.215	614908.2	16.85	0.399	mg/L	842.7	19.93	ppm	2.37%
s 188.979	29.5	0.0162	0.00198	mg/L	0.8120	0.09897	ppm	12.19%
Ba 233.527	205690.9	0.5822	0.01513	mg/L	29.11	0.756	ppm	2.60%
Be 313.107	-94.6	0.0000	0.00003	mg/L	-0.0017	0.00157	ppm	92.08%
a 227.547	38055.9	145.6	3.97	mg/L	7278	198.5	ppm	2.73%
d 228.802	268.5	0.0021	0.00010	mg/L	0.1059	0.00505	ppm	4.77%
Co 228.616	1576.9	0.0149	0.00008	mg/L	0.7453	0.00408	ppm	0.55%
Cr 267.716	3961.7	0.0438	0.00054	mg/L	2.190	0.0272	ppm	1.24%
u 324.754	41262.9	0.1295	0.00357	mg/L	6.476	0.1783	ppm	2.75%
e 273.955	1377570.5	27.66	0.613	mg/L	1383	30.7	ppm	2.22%
g 279.079	1636354.7	51.52	0.900	mg/L	2576	45.0	ppm	1.75%
Mn 257.610	2730453.9	1.720	0.0292	mg/L	86.01	1.458	ppm	1.70%
o 202.030	114.0	0.0060	0.00035	mg/L	0.3019	0.01744	ppm	5.78%
i 231.604	2316.0	0.0458	0.00022	mg/L	2.288	0.0112	ppm	0.49%
b 220.353	552.9	0.0370	0.00057	mg/L	1.850	0.0286	ppm	1.55%
Sb 206.833	19.5	0.0047	0.00250	mg/L	0.2334	0.12508	ppm	53.60%
Se 196.026	-0.1	0.0071	0.00122	mg/L	0.3527	0.06098	ppm	17.29%

Tl 190.800	40.2	0.0035	0.00053 mg/L	0.1765	0.02668 ppm	15.12%
V 292.402	5792.5	0.0520	0.00149 mg/L	2.598	0.0747 ppm	2.88%
Zn 213.856	59218.6	0.5585	0.01610 mg/L	27.93	0.805 ppm	2.88%

Calibration Summary
Method: TTLC Date: 11/21/02 4:41:35 PM

Element	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
Ag 328.068	3	Linear-thru-Zero	0.0	201728.5	0.00000	0.999629
Al 308.215	3	Linear-thru-Zero	0.0	36485.1	0.00000	0.999817
As 188.979	3	Linear-thru-Zero	0.0	2605.5	0.00000	0.999770
Ba 233.527	3	Linear-thru-Zero	0.0	353270.2	0.00000	0.999272
Be 313.107	3	Linear-thru-Zero	0.0	2770834.2	0.00000	0.999755
Ca 227.547	3	Linear-thru-Zero	0.0	261.5	0.00000	0.999735
Cd 228.802	3	Linear-thru-Zero	0.0	126703.2	0.00000	0.999443
Co 228.616	3	Linear-thru-Zero	0.0	105787.8	0.00000	0.999180
Cr 267.716	3	Linear-thru-Zero	0.0	90436.1	0.00000	0.999515
Cu 324.754	3	Linear-thru-Zero	0.0	318559.2	0.00000	0.999411
Fe 273.955	3	Linear-thru-Zero	0.0	49795.4	0.00000	0.999686
Mg 279.079	3	Linear-thru-Zero	0.0	31760.7	0.00000	0.999341
Mn 257.610	3	Linear-thru-Zero	0.0	1587245.5	0.00000	0.999235
Mo 202.030	3	Linear-thru-Zero	0.0	18877.8	0.00000	0.999543
Ni 231.604	3	Linear-thru-Zero	0.0	50607.1	0.00000	0.999058
Pb 220.353	3	Linear-thru-Zero	0.0	14945.2	0.00000	0.999777
Sb 206.833	3	Linear-thru-Zero	0.0	4181.0	0.00000	0.999783
Se 196.026	3	Linear-thru-Zero	0.0	2753.2	0.00000	0.999567
Tl 190.800	3	Linear-thru-Zero	0.0	3439.5	0.00000	0.999429
V 292.402	3	Linear-thru-Zero	0.0	111499.4	0.00000	0.999629
Zn 213.856	3	Linear-thru-Zero	0.0	106031.3	0.00000	0.999610

Replicate Data
ID: CCV 1379B Date: 11/21/02 4:43:00 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	210814.1	211888.0	1.050	mg/L	1.050	ppm
1	Al 308.215	197367.4	192769.9	5.284	mg/L	5.284	ppm
1	As 188.979	1392.4	1322.9	0.5133	mg/L	0.5133	ppm
1	Ba 233.527	1829791.1	1830656.7	5.182	mg/L	5.182	ppm
1	Be 313.107	1422295.8	1422710.0	0.5135	mg/L	0.5135	ppm
1	Ca 227.547	14407.8	14124.3	54.02	mg/L	54.02	ppm
1	Cd 228.802	135652.3	135562.6	1.070	mg/L	1.070	ppm
1	Co 228.616	228758.7	229175.4	2.166	mg/L	2.166	ppm
1	Cr 267.716	47353.8	47513.6	0.5254	mg/L	0.5254	ppm
1	Cu 324.754	663307.3	661020.4	2.075	mg/L	2.075	ppm
1	Fe 273.955	268200.9	265211.1	5.326	mg/L	5.326	ppm
1	Mg 279.079	826229.5	825633.3	26.00	mg/L	26.00	ppm
1	Mn 257.610	3327025.2	3325904.5	2.095	mg/L	2.095	ppm
1	Mo 202.030	40363.3	40391.8	2.140	mg/L	2.140	ppm
1	Ni 231.604	109748.0	109472.8	2.163	mg/L	2.163	ppm
1	Pb 220.353	7753.9	7569.0	0.5065	mg/L	0.5065	ppm
1	Sb 206.833	8590.9	8530.2	2.025	mg/L	2.025	ppm
1	Se 196.026	1498.2	1413.9	0.5151	mg/L	0.5151	ppm
1	Tl 190.800	1955.1	1766.6	0.5136	mg/L	0.5136	ppm
1	V 292.402	234469.3	234306.6	2.101	mg/L	2.101	ppm
1	Zn 213.856	223714.8	224298.2	2.115	mg/L	2.115	ppm
2	Ag 328.068	210011.6	211085.6	1.046	mg/L	1.046	ppm
2	Al 308.215	194579.8	189982.2	5.207	mg/L	5.207	ppm
2	As 188.979	1400.2	1330.7	0.5163	mg/L	0.5163	ppm
2	Ba 233.527	1823768.1	1824633.7	5.165	mg/L	5.165	ppm
2	Be 313.107	1406192.4	1406606.6	0.5076	mg/L	0.5076	ppm
2	Ca 227.547	14114.1	13830.7	52.90	mg/L	52.90	ppm
2	Cd 228.802	135031.8	134942.0	1.065	mg/L	1.065	ppm
2	Co 228.616	225999.7	226416.4	2.140	mg/L	2.140	ppm
2	Cr 267.716	47465.5	47625.3	0.5266	mg/L	0.5266	ppm
2	Cu 324.754	660996.4	658709.5	2.068	mg/L	2.068	ppm
2	Fe 273.955	263467.4	260477.6	5.231	mg/L	5.231	ppm
2	Mg 279.079	820146.1	819550.0	25.80	mg/L	25.80	ppm

2	Mn 257.610	3311096.8	3309976.1	2.085	mg/L	2.085 ppm
2	Mo 202.030	39612.2	39640.7	2.100	mg/L	2.100 ppm
2	Ni 231.604	107765.1	107489.9	2.124	mg/L	2.124 ppm
2	Pb 220.353	7810.5	7625.6	0.5102	mg/L	0.5102 ppm
2	Sb 206.833	8698.2	8637.6	2.051	mg/L	2.051 ppm
2	Se 196.026	1501.2	1416.9	0.5162	mg/L	0.5162 ppm
2	Tl 190.800	1966.0	1777.5	0.5168	mg/L	0.5168 ppm
2	V 292.402	233600.0	233437.3	2.094	mg/L	2.094 ppm
2	Zn 213.856	221694.4	222277.8	2.096	mg/L	2.096 ppm
3	Ag 328.068	204274.2	205348.1	1.018	mg/L	1.018 ppm
3	Al 308.215	191013.0	186415.5	5.109	mg/L	5.109 ppm
3	As 188.979	1404.0	1334.5	0.5176	mg/L	0.5176 ppm
3	Ba 233.527	1820999.2	1821864.8	5.157	mg/L	5.157 ppm
3	Be 313.107	1412002.2	1412416.5	0.5097	mg/L	0.5097 ppm
3	Ca 227.547	13872.8	13589.4	51.97	mg/L	51.97 ppm
3	Cd 228.802	130917.1	130827.3	1.033	mg/L	1.033 ppm
3	Co 228.616	220011.5	220428.2	2.084	mg/L	2.084 ppm
3	Cr 267.716	45845.8	46005.6	0.5087	mg/L	0.5087 ppm
3	Cu 324.754	660419.9	658133.0	2.066	mg/L	2.066 ppm
3	Fe 273.955	258294.4	255304.5	5.127	mg/L	5.127 ppm
3	Mg 279.079	818634.1	818038.0	25.76	mg/L	25.76 ppm
3	Mn 257.610	3285470.9	3284350.2	2.069	mg/L	2.069 ppm
3	Mo 202.030	38937.2	38965.7	2.064	mg/L	2.064 ppm
3	Ni 231.604	105502.4	105227.1	2.079	mg/L	2.079 ppm
3	Pb 220.353	7827.0	7642.1	0.5113	mg/L	0.5113 ppm
3	Sb 206.833	8655.9	8595.2	2.041	mg/L	2.041 ppm
3	Se 196.026	1511.6	1427.3	0.5200	mg/L	0.5200 ppm
3	Tl 190.800	1961.9	1773.4	0.5156	mg/L	0.5156 ppm
3	V 292.402	226313.7	226150.9	2.028	mg/L	2.028 ppm
3	Zn 213.856	216194.0	216777.4	2.044	mg/L	2.044 ppm

Mean Data ----------

ID: CCV 1379B Seq. No.: 100 Sample No.: 1 A/S Pos: 6
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 4:43:00 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	209440.6	1.038	0.0177	mg/L	1.038	0.0177	ppm	1.70%
Al 308.215	189722.5	5.200	0.0873	mg/L	5.200	0.0873	ppm	1.68%
As 188.979	1329.4	0.5157	0.00218	mg/L	0.5157	0.00218	ppm	0.42%
Ba 233.527	1825718.4	5.168	0.0127	mg/L	5.168	0.0127	ppm	0.25%
Be 313.107	1413911.0	0.5103	0.00294	mg/L	0.5103	0.00294	ppm	0.58%
Ca 227.547	13848.1	52.96	1.025	mg/L	52.96	1.025	ppm	1.93%
Cd 228.802	133777.3	1.056	0.0203	mg/L	1.056	0.0203	ppm	1.92%
Co 228.616	225340.0	2.130	0.0423	mg/L	2.130	0.0423	ppm	1.98%
Cr 267.716	47048.1	0.5202	0.01000	mg/L	0.5202	0.01000	ppm	1.92%
Cu 324.754	659287.6	2.070	0.0048	mg/L	2.070	0.0048	ppm	0.23%
Fe 273.955	260331.1	5.228	0.0995	mg/L	5.228	0.0995	ppm	1.90%
Mg 279.079	821073.8	25.85	0.127	mg/L	25.85	0.127	ppm	0.49%
Mn 257.610	3306743.6	2.083	0.0132	mg/L	2.083	0.0132	ppm	0.63%
Mo 202.030	39666.1	2.101	0.0378	mg/L	2.101	0.0378	ppm	1.80%
Ni 231.604	107396.6	2.122	0.0420	mg/L	2.122	0.0420	ppm	1.98%
Pb 220.353	7612.2	0.5093	0.00256	mg/L	0.5093	0.00256	ppm	0.50%
Sb 206.833	8587.7	2.039	0.0130	mg/L	2.039	0.0130	ppm	0.64%
Se 196.026	1419.4	0.5171	0.00253	mg/L	0.5171	0.00253	ppm	0.49%
Tl 190.800	1772.5	0.5153	0.00160	mg/L	0.5153	0.00160	ppm	0.31%
V 292.402	231298.3	2.074	0.0402	mg/L	2.074	0.0402	ppm	1.94%
Zn 213.856	221117.8	2.085	0.0367	mg/L	2.085	0.0367	ppm	1.76%

Replicate Data ----------

ID: CCB Date: 11/21/02 4:46:29 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-983.0	91.0	0.0005	mg/L	0.0005	ppm
1	Al 308.215	4604.9	7.4	0.0002	mg/L	0.0002	ppm
1	As 188.979	68.4	-1.0	-0.0004	mg/L	-0.0004	ppm
1	Ba 233.527	-428.7	436.9	0.0012	mg/L	0.0012	ppm
1	Be 313.107	258.1	672.3	0.0002	mg/L	0.0002	ppm

1	Ca 227.547	202.8	-80.6	-0.3083	mg/L	-0.3083 ppm
1	Cd 228.802	115.2	25.5	0.0002	mg/L	0.0002 ppm
1	Co 228.616	-375.9	40.8	0.0004	mg/L	0.0004 ppm
1	Cr 267.716	-115.2	44.6	0.0005	mg/L	0.0005 ppm
1	Cu 324.754	2581.7	294.8	0.0009	mg/L	0.0009 ppm
1	Fe 273.955	3374.1	384.3	0.0077	mg/L	0.0077 ppm
1	Mg 279.079	-600.1	-1196.3	-0.0377	mg/L	-0.0377 ppm
1	Mn 257.610	2258.8	1138.1	0.0007	mg/L	0.0007 ppm
1	Mo 202.030	-11.2	17.3	0.0009	mg/L	0.0009 ppm
1	Ni 231.604	389.4	114.2	0.0023	mg/L	0.0023 ppm
1	Pb 220.353	174.9	-10.0	-0.0007	mg/L	-0.0007 ppm
1	Sb 206.833	73.0	12.4	0.0030	mg/L	0.0030 ppm
1	Se 196.026	69.2	-15.1	-0.0055	mg/L	-0.0055 ppm
1	Tl 190.800	189.5	1.0	0.0003	mg/L	0.0003 ppm
1	V 292.402	299.7	137.0	0.0012	mg/L	0.0012 ppm
1	Zn 213.856	-306.2	277.2	0.0026	mg/L	0.0026 ppm
2	Ag 328.068	-891.0	183.0	0.0009	mg/L	0.0009 ppm
2	Al 308.215	4570.3	-27.3	-0.0007	mg/L	-0.0007 ppm
2	As 188.979	67.1	-2.4	-0.0009	mg/L	-0.0009 ppm
2	Ba 233.527	-656.6	209.0	0.0006	mg/L	0.0006 ppm
2	Be 313.107	151.5	565.8	0.0002	mg/L	0.0002 ppm
2	Ca 227.547	282.1	-1.3	-0.0050	mg/L	-0.0050 ppm
2	Cd 228.802	104.2	14.5	0.0001	mg/L	0.0001 ppm
2	Co 228.616	-370.3	46.4	0.0004	mg/L	0.0004 ppm
2	Cr 267.716	-145.3	14.5	0.0002	mg/L	0.0002 ppm
2	Cu 324.754	2444.7	157.8	0.0005	mg/L	0.0005 ppm
2	Fe 273.955	3008.7	18.9	0.0004	mg/L	0.0004 ppm
2	Mg 279.079	-475.2	-1071.4	-0.0337	mg/L	-0.0337 ppm
2	Mn 257.610	2027.0	906.3	0.0006	mg/L	0.0006 ppm
2	Mo 202.030	-16.4	12.1	0.0006	mg/L	0.0006 ppm
2	Ni 231.604	362.8	87.6	0.0017	mg/L	0.0017 ppm
2	Pb 220.353	168.1	-16.8	-0.0011	mg/L	-0.0011 ppm
2	Sb 206.833	62.6	1.9	0.0005	mg/L	0.0005 ppm
2	Se 196.026	67.4	-16.8	-0.0061	mg/L	-0.0061 ppm
2	Tl 190.800	199.5	11.0	0.0032	mg/L	0.0032 ppm
2	V 292.402	282.7	120.0	0.0011	mg/L	0.0011 ppm
2	Zn 213.856	-376.3	207.1	0.0020	mg/L	0.0020 ppm
3	Ag 328.068	-1080.3	-6.4	0.0000	mg/L	0.0000 ppm
3	Al 308.215	4675.2	77.6	0.0021	mg/L	0.0021 ppm
3	As 188.979	66.4	-3.0	-0.0012	mg/L	-0.0012 ppm
3	Ba 233.527	-770.6	95.0	0.0003	mg/L	0.0003 ppm
3	Be 313.107	21.3	435.6	0.0002	mg/L	0.0002 ppm
3	Ca 227.547	218.2	-65.3	-0.2497	mg/L	-0.2497 ppm
3	Cd 228.802	101.3	11.5	0.0001	mg/L	0.0001 ppm
3	Co 228.616	-343.4	73.3	0.0007	mg/L	0.0007 ppm
3	Cr 267.716	-181.0	-21.2	-0.0002	mg/L	-0.0002 ppm
3	Cu 324.754	2325.1	38.2	0.0001	mg/L	0.0001 ppm
3	Fe 273.955	2913.5	-76.3	-0.0015	mg/L	-0.0015 ppm
3	Mg 279.079	-345.1	-941.2	-0.0296	mg/L	-0.0296 ppm
3	Mn 257.610	1809.3	688.6	0.0004	mg/L	0.0004 ppm
3	Mo 202.030	-22.9	5.6	0.0003	mg/L	0.0003 ppm
3	Ni 231.604	315.3	40.1	0.0008	mg/L	0.0008 ppm
3	Pb 220.353	183.9	-1.0	-0.0001	mg/L	-0.0001 ppm
3	Sb 206.833	63.2	2.6	0.0006	mg/L	0.0006 ppm
3	Se 196.026	76.9	-7.3	-0.0027	mg/L	-0.0027 ppm
3	Tl 190.800	197.0	8.5	0.0025	mg/L	0.0025 ppm
3	V 292.402	150.5	-12.2	-0.0001	mg/L	-0.0001 ppm
3	Zn 213.856	-419.9	163.5	0.0015	mg/L	0.0015 ppm

Mean Data ----------

ID: CCB Seq. No.: 101 Sample No.: 1 A/S Pos: 1
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 4:46:29 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	89.2	0.0004	0.00047	mg/L	0.0004	0.00047	ppm	106.18%
Al 308.215	19.2	0.0005	0.00147	mg/L	0.0005	0.00147	ppm	278.11%
As 188.979	-2.1	-0.0008	0.00040	mg/L	-0.0008	0.00040	ppm	48.35%
Ba 233.527	247.0	0.0007	0.00049	mg/L	0.0007	0.00049	ppm	70.48%

e	313.107	557.9	0.0002	0.00004	mg/L	0.0002	0.00004	ppm	21.25%
a	227.547	-49.1	-0.1877	0.16087	mg/L	-0.1877	0.16087	ppm	85.72%
Cd	228.802	17.2	0.0001	0.00006	mg/L	0.0001	0.00006	ppm	42.83%
Co	228.616	53.5	0.0005	0.00016	mg/L	0.0005	0.00016	ppm	32.46%
r	267.716	12.6	0.0001	0.00036	mg/L	0.0001	0.00036	ppm	260.67%
u	324.754	163.6	0.0005	0.00040	mg/L	0.0005	0.00040	ppm	78.51%
e	273.955	109.0	0.0022	0.00488	mg/L	0.0022	0.00488	ppm	223.13%
Mg	279.079	-1069.6	-0.0337	0.00402	mg/L	-0.0337	0.00402	ppm	11.92%
Mn	257.610	911.0	0.0006	0.00014	mg/L	0.0006	0.00014	ppm	24.68%
o	202.030	11.7	0.0006	0.00031	mg/L	0.0006	0.00031	ppm	50.10%
i	231.604	80.6	0.0016	0.00074	mg/L	0.0016	0.00074	ppm	46.59%
Pb	220.353	-9.3	-0.0006	0.00053	mg/L	-0.0006	0.00053	ppm	85.27%
Sb	206.833	5.6	0.0013	0.00139	mg/L	0.0013	0.00139	ppm	103.50%
e	196.026	-13.1	-0.0048	0.00184	mg/L	-0.0048	0.00184	ppm	38.63%
l	190.800	6.8	0.0020	0.00152	mg/L	0.0020	0.00152	ppm	76.68%
V	292.402	81.6	0.0007	0.00073	mg/L	0.0007	0.00073	ppm	100.10%
Zn	213.856	215.9	0.0020	0.00054	mg/L	0.0020	0.00054	ppm	26.55%

eplicate Data ----------

ID: M-BL 02M2376S Date: 11/21/02 4:49:49 PM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-910.5	163.4	0.0008	mg/L	0.0405	ppm
1	Al 308.215	4479.0	-118.6	-0.0032	mg/L	-0.1625	ppm
1	As 188.979	67.1	-2.4	-0.0009	mg/L	-0.0452	ppm
1	Ba 233.527	-762.9	102.7	0.0003	mg/L	0.0145	ppm
1	Be 313.107	-298.4	115.8	0.0000	mg/L	0.0021	ppm
1	Ca 227.547	160.9	-122.6	-0.4688	mg/L	-23.44	ppm
1	Cd 228.802	93.3	3.5	0.0000	mg/L	0.0014	ppm
1	Co 228.616	-404.9	11.8	0.0001	mg/L	0.0056	ppm
1	Cr 267.716	-23.4	136.4	0.0015	mg/L	0.0754	ppm
1	Cu 324.754	2143.9	-143.0	-0.0004	mg/L	-0.0224	ppm
1	Fe 273.955	3087.0	97.1	0.0020	mg/L	0.0975	ppm
1	Mg 279.079	-441.1	-1037.2	-0.0327	mg/L	-1.633	ppm
1	Mn 257.610	1742.3	621.6	0.0004	mg/L	0.0196	ppm
1	Mo 202.030	-29.8	-1.3	-0.0001	mg/L	-0.0035	ppm
1	Ni 231.604	373.7	98.5	0.0019	mg/L	0.0973	ppm
1	Pb 220.353	174.3	-10.6	-0.0007	mg/L	-0.0353	ppm
1	Sb 206.833	60.2	-0.4	-0.0001	mg/L	-0.0052	ppm
1	Se 196.026	80.5	-3.8	-0.0014	mg/L	-0.0682	ppm
1	Tl 190.800	191.5	2.9	0.0009	mg/L	0.0426	ppm
1	V 292.402	294.2	131.4	0.0012	mg/L	0.0589	ppm
1	Zn 213.856	-412.4	171.0	0.0016	mg/L	0.0806	ppm
2	Ag 328.068	-1184.3	-110.4	-0.0005	mg/L	-0.0274	ppm
2	Al 308.215	4642.3	44.7	0.0012	mg/L	0.0613	ppm
2	As 188.979	71.6	2.2	0.0008	mg/L	0.0419	ppm
2	Ba 233.527	-817.2	48.4	0.0001	mg/L	0.0068	ppm
2	Be 313.107	-358.2	56.0	0.0000	mg/L	0.0010	ppm
2	Ca 227.547	175.6	-107.8	-0.4124	mg/L	-20.62	ppm
2	Cd 228.802	97.2	7.4	0.0001	mg/L	0.0029	ppm
2	Co 228.616	-296.0	120.7	0.0011	mg/L	0.0571	ppm
2	Cr 267.716	-155.1	4.7	0.0001	mg/L	0.0026	ppm
2	Cu 324.754	2422.7	135.7	0.0004	mg/L	0.0213	ppm
2	Fe 273.955	2671.3	-318.5	-0.0064	mg/L	-0.3199	ppm
2	Mg 279.079	-622.1	-1218.2	-0.0384	mg/L	-1.918	ppm
2	Mn 257.610	1506.1	385.3	0.0002	mg/L	0.0121	ppm
2	Mo 202.030	-24.3	4.2	0.0002	mg/L	0.0111	ppm
2	Ni 231.604	373.3	98.1	0.0019	mg/L	0.0970	ppm
2	Pb 220.353	169.7	-15.2	-0.0010	mg/L	-0.0507	ppm
2	Sb 206.833	60.7	0.0	0.0000	mg/L	0.0006	ppm
2	Se 196.026	76.6	-7.7	-0.0028	mg/L	-0.1391	ppm
2	Tl 190.800	193.2	4.7	0.0014	mg/L	0.0682	ppm
2	V 292.402	299.6	136.9	0.0012	mg/L	0.0614	ppm
2	Zn 213.856	-463.2	120.2	0.0011	mg/L	0.0567	ppm
3	Ag 328.068	-1054.0	19.9	0.0001	mg/L	0.0049	ppm
3	Al 308.215	4739.9	142.3	0.0039	mg/L	0.1950	ppm
3	As 188.979	65.1	-4.4	-0.0017	mg/L	-0.0840	ppm
3	Ba 233.527	-901.3	-35.7	-0.0001	mg/L	-0.0051	ppm

Applied P & Ch Laboratory
780 Magnolia Ave. Chino CA 91710
(909) 590-1828 Fax: (909) 590-1498

Metal Digestion (3010/3050) Worksheet

Batch # 021236 Matrix: S Method used: 3050 Date: 11/28/02 Digested by: CC Diluted by: _____

Lot #: ASTM Type I water RW1286 HNO_3 110202 H_2SO_4 _____ HCl 110202 H_2O_2 012602

DP #	Type	Samp ID /Lot #	X (g or mL)	$V_{digest}/X = f_1$	$V_f/V_i = f_2$	$V_f'/V_i' = f_3$	$F=f_1f_2f_3$	Note
2509	Method Blank	Bl. Lot: BS-12	2.00	100/X= 50	/ =	/ =		TTC
2510	LCS1	Bl. Lot: "	2.01	/X=	/ =	/ =		T=95°C
2511	Sample-1	6148-1	2.01	/X=	/ =	/ =		
2512	MS1 on S-1	-1	2.00	/X=	/ =	/ =		
2513	MS2 on S-1	-1	2.00	/X=	/ =	/ =		
2514	Sample 2	-2	1.98	/X=	/ =	/ =		
2515	Sample 3	-3	2.00	/X=	/ =	/ =		
2516	Sample 4	-4	1.98	/X=	/ =	/ =		
2517	Sample 5	-5	1.99	/X=	/ =	/ =		
2518	Sample 6	-6	2.00	/X=	/ =	/ =		
2519	Sample 7	-7	2.00	/X=	/ =	/ =		
2520	Sample 8	-8	2.01	/X=	/ =	/ =		
2521	Sample 9	-9	2.00	/X=	/ =	/ =		
2522	Sample 10	-10	2.01	/X=	/ =	/ =		
2523	LCS2	Bl. Lot: BS-12	2.00	/X=	/ =	/ =		
2524	Sample 11	-11	1.98	/X=	/ =	/ =		
2525	Sample 12	-12	1.98	/X=	/ =	/ =		
2526	Sample 13	-13	2.00	/X=	/ =	/ =		
2527	Sample 14	-14	2.00	/X=	/ =	/ =		
2528	Sample 15	-15	2.00	/X=	/ =	/ =		
2529	Sample 16	6233-1	2.00	/X=	/ =	/ =		Composite
2530	Sample 17	-2	2.01	/X=	/ =	/ =		"
2531	Sample 18			/X=	/ =	/ =		
2532	Sample 19			/X=	/ =	/ =		
2533	Sample 20	"	11/26/02	/X=	/ =	/ =		
2534	Duplicate	6148-1	2.00	100/X= 50	/ =	/ =		

Specification of matrix spike and lab control spike

QC Type	Spiked Element *	Spike Stock Solution Lot #	Spike Stock (Rep.) Conc C_s, µg/mL	Spike Stock Volum Used V_s mL	Spike Level $T'=C_sV_s/V$ ppm or mg/L	Sample Spike T, ppm
MS1	/As/Se/Sb/M_{20}	AA- /AA- /AA- /AA 1370	/ / / 25	/ / / 4	/ / / 1	
MS2	/As/Se/Sb/M_{20}	AA- /AA- /AA- /AA- "	/ / /	/ / /	/ / /	
LCS1	/As/Se/Sb/M_{20}	AA- /AA- /AA- /AA 1338	/ / /	/ / /	/ / /	
LCS2	/As/Se/Sb/M_{20}	AA- /AA- /AA- /AA- "	/ / /	/ / /	/ / /	

* Notation: T – rep. sample spike level T' – digest solution spike level $T=f\,T'=C_sV_s/X$ M20 (or Mj) represents 20 (or j) metals (see STD logbook).
If digest needs dilution for different metals, use dilution worksheet.

APCL form 6-116 April 03, 1996 Ver. 4.0 No pencil. Use blue pen for record. Use red pen for correction.
Root-File:[CUST.DOC.AA]DIGEST_ROOT.TEX File:[CUST.DOC.AA]DIGEST.TEX

012813

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Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Hg-132

Mercury Digestion (7470/7471) Worksheet

Batch # 02M2386 Matrix: S Date: 11 / 22 / 02 Digested by: LL Diluted by: _____

Lot #: ASTM Type I water RW1386 HNO_3 020040 H_2SO_4 _____ HCl 020020 $KMnO_4$ A1308

OP #	Type	STD Lot #	$C_{std} \times V_{std}/V_f = C_i$	OP #	Type	STD Lot #	$C_{std} \times V_{std}/V_f = C_i$
1132	STD-1	AA-	× / = 0.0 μg/L	1136	STD-5	AA-	× / = 5.0 μg/L
1133	STD-2	AA-	× / = 0.5 μg/L	1137	STD-6	AA-	× / = 10.0 μg/L
1134	STD-3	AA-	× / = 1.0 μg/L	1138	STD-7	AA-	× / = μg/L
1135	STD-4	AA-	× / = 2.0 μg/L	1139	STD-8	AA-	× / = μg/L

LL 11-22-02

OP #	Type	Samp ID /Lot #	X (g or mL)	$V_{digest}/X = f_1$	$V_f/V_i = f_2$	$V_f'/V_i' = f_3$	$F = f_1 f_2 f_3$	Note
1140	Method Blank	Bl. Lot: BS-12	0.60	100.0/X=166.7	/ =	/ =		begin: 12:50 end: 1:25
1141	LCS1	Bl. Lot: ↓	0.60	100.0/X=	/ =	/ =		95°C 35 min
1142	Sample-1	6148-1	0.60	100.0/X=	/ =	/ =		
1143	MS1 on S-1	↓	0.60	100.0/X=	/ =	/ =		
1144	MS2 on S-1	↓	0.60	100.0/X=	/ =	/ =		
1145	Sample 2	2	0.60	100.0/X=	/ =	/ =		
1146	Sample 3	3	0.59	100.0/X=	/ =	/ =		
1147	Sample 4	4	0.60	100.0/X=	/ =	/ =		
1148	Sample 5	5	0.60	100.0/X=	/ =	/ =		
1149	Sample 6	6	0.60	100.0/X=	/ =	/ =		
1150	Sample 7	7	0.61	100.0/X=	/ =	/ =		
1151	Sample 8	8	0.61	100.0/X=	/ =	/ =		
1152	Sample 9	9	0.61	100.0/X=	/ =	/ =		
1153	Sample 10	10	0.59	100.0/X=	/ =	/ =		
1154	LCS2	Bl. Lot: BS-12	0.60	100.0/X=	/ =	/ =		
1155	Sample 11	6148-11	0.61	100.0/X=	/ =	/ =		
1156	Sample 12	12	0.59	100.0/X=	/ =	/ =		
1157	Sample 13	13	0.59	100.0/X=	/ =	/ =		
1158	Sample 14	14	0.60	100.0/X=	/ =	/ =		
1159	Sample 15	15	0.60	100.0/X=	/ =	/ =		
1160	Sample 16	6269-1	0.60	100.0/X=	/ =	/ =		
1161	Sample 17	6284-1	0.60	100.0/X=	/ =	/ =		
1162	Sample 18	2	0.60	100.0/X=	/ =	/ =		
1163	Sample 19	3	0.60	100.0/X=	/ =	/ =		
1164	Sample 20	4	0.60	100.0/X=	/ =	/ =		
1165	Duplicate	6148-1	0.61	100.0/X=	/ =	/ =		

MS/MSD Specification

Op #	STD Lot #	$C_{STD}(\mu g/L) \times V_{STD}(mL)/X(g \text{ or } mL) = T$
1143	AA-1409	5000 × 0.1 /X= 833.3 ppb
1144	AA- ↓	↓ × ↓ /X= ↓ ppb

LCS/LCSD Specification

Op #	STD Lot #	$C_{STD}(\mu g/L) \times V_{STD}(mL)/X(g \text{ or } mL) = T$
1141	AA-1410	5000 × 0.1 /X= 833.3 ppb
1154	AA- ↓	↓ × ↓ /X= ↓ ppb

Example-File [CUST_DOC.AA]HG1.TEX Seed-File [ ]CAL_HG.TEX, BODY_HG.TEX, MSD_HG.TEX Root-File: [ ]HG_ROOT.TEX File:HG1.TEX
APCL form 6-110 Aug. 31, 1994 Ver. 3.0 No pencil. Use blue pen for record. Use red pen for correction

012814

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Level D Data Package Deliverables

Wet Chemistry

Applied P & Ch Laboratory

012815

Applied P & Ch Laboratory

Wet Analysis Results for Method ASTM-D2216

Client Name:	CDM Federal Programs Corp.	Project No:		Anal. Method	ASTM-D2216
Project ID:	San Miguel Island	Service ID:	026148	Collected by:	Dave Lange

Component Name: MOISTURE
CAS No: 7732-18-5

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
02-6148-1	SMI-014-ASS	Soil	11/13/02	11/14/02	11/15/02	02W5243	%Moisture	0.5	7.6	
02-6148-2	SMI-015-ASS	Soil	11/13/02	11/14/02	11/15/02	02W5243	%Moisture	0.5	8.1	
02-6148-3	SMI-017-ASS	Soil	11/13/02	11/14/02	11/15/02	02W5243	%Moisture	0.5	5.9	
02-6148-4	SMI-018-ASS	Soil	11/13/02	11/14/02	11/15/02	02W5243	%Moisture	0.5	6.1	
02-6148-5	SMI-019-ASS	Soil	11/13/02	11/14/02	11/15/02	02W5243	%Moisture	0.5	4.9	
02-6148-6	SMI-020-ASS	Soil	11/13/02	11/14/02	11/15/02	02W5243	%Moisture	0.5	5.3	
02-6148-7	SMI-021-ASS	Soil	11/13/02	11/14/02	11/15/02	02W5243	%Moisture	0.5	5.7	
02-6148-8	SMI-022-ASS	Soil	11/13/02	11/14/02	11/15/02	02W5243	%Moisture	0.5	3.2	
02-6148-9	SMI-023-CRS	Soil	11/13/02	11/14/02	11/15/02	02W5243	%Moisture	0.5	3.4	
02-6148-10	SMI-024-CRS	Soil	11/13/02	11/14/02	11/15/02	02W5243	%Moisture	0.5	4.2	
02-6148-11	SMI-026-BSS	Soil	11/13/02	11/14/02	11/15/02	02W5243	%Moisture	0.5	2.8	
02-6148-12	SMI-016-ASS	Soil	11/13/02	11/14/02	11/15/02	02W5243	%Moisture	0.5	13.0	
02-6148-13	SMI-319-ASS	Soil	11/13/02	11/14/02	11/15/02	02W5243	%Moisture	0.5	3.8	
02-6148-14	SMI-025-CRS	Soil	11/13/02	11/14/02	11/15/02	02W5243	%Moisture	0.5	3.8	
02-6148-15	SMI-326-BSS	Soil	11/13/02	11/14/02	11/15/02	02W5243	%Moisture	0.5	2.9	

Note: Q - Qualifier
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL

012817

Wet Chemistry QC Report B
Duplicate Results

Matrix: Soil

APCL Service ID: 02-6148

Analysis	Batch ID	Analysis Date	Sample Name	Unit	Result	Duplicate Result	RPD %	RPD Control limit
Moisture	02W5243	11/15/2002	SMI-014-ASS	% moisture	7.63	7.25	5	20

Note: N/A = Not applicable; NR: Not requested; NC= Not Calculated; ND: Not detected.

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Tel: (909) 590-1828 Fax: (909) 590-1498

Moisture (ASTM D2216) Worksheet

Batch # 02W5242 SOP: G-86
Date 11/5/02 Analyst SKL

Batch # 02W5243 SOP: G-86
Date 11/5/02 Analyst SKL

	Sample ID	Container Weight W_0, g	Before Drying W_1, g	After Drying W_2, g	Moisture $\frac{W_1-W_2}{W_1-W_0}\times100\%$		Sample ID	Container Weight W_0, g	Before Drying W_1, g	After Drying W_2, g	Moisture $\frac{W_1-W_2}{W_1-W_0}\times100\%$
Smpl-1	6121-2	22.86	43.47	39.39	19.41	Smpl-1	6148-1	21.53	40.93	39.45	7.63
Smpl-2	-3	21.25	40.85	38.44	12.30	Smpl-2	-2	22.76	40.36	38.93	8.13
Smpl-3	-4	22.31	45.58	43.95	7.01	Smpl-3	-3	21.46	45.27	43.87	5.88
Smpl-4	-5	21.71	42.37	38.42	18.96	Smpl-4	-4	22.96	46.93	45.47	6.09
Smpl-5	-6	21.25	41.11	39.08	10.22	Smpl-5	-5	23.45	41.53	40.64	4.92
Smpl-6	6141-1	20.80	42.84	39.75	5.44	Smpl-6	-6	22.47	49.68	48.23	5.33
Smpl-7	-2	23.51	48.67	47.32	5.37	Smpl-7	-7	21.88	38.50	37.37	5.66
Smpl-8	-3	22.69	43.28	42.11	5.68	Smpl-8	-8	22.47	44.69	43.99	3.05
Smpl-9	-4	22.45	44.36	43.37	4.52	Smpl-9	-9	22.18	43.89	43.16	3.36
Smpl-10	-5	23.57	40.91	39.20	9.83	Smpl-10	-10	23.05	44.09	43.21	4.18
Smpl-11	-6	23.85	47.52	46.55	4.10	Smpl-11	-11	23.07	49.60	48.86	2.79
Smpl-12	-7	22.66	39.56	37.82	10.30	Smpl-12	-12	21.76	41.63	39.05	12.98
Smpl-13	-8	24.02	43.72	43.40	1.62	Smpl-13	-13	21.89	43.02	42.22	3.79
Smpl-14	-9	22.45	41.72	40.01	8.87	Smpl-14	-14	22.97	42.61	41.86	3.82
Smpl-15	-10	22.64	43.23	41.14	10.15	Smpl-15	-15	22.75	46.87	46.18	2.86
Smpl-16	-11	21.03	40.79	38.46	11.78	Smpl-16	6151-1	20.69	43.98	41.07	12.50
Smpl-17	-12	22.36	39.30	37.64	9.80	Smpl-17	6154-1	23.58	48.30	47.10	4.85
Smpl-18	-13	21.45	40.34	37.91	12.86	Smpl-18	6111-1	22.15	43.19	40.37	13.40
Smpl-19	-14	22.98	42.95	41.13	9.11	Smpl-19	-2	22.79	43.80	42.22	7.52
Smpl-20	-15	22.74	40.98	39.53	7.95	Smpl-20					
MD	6121-2	22.91	43.52	39.44	19.41	MD	6148-1	23.01	45.50	43.87	7.25

Footnote/Anomaly:

012818

No pencil. Use blue pen for record. Use red pen for correction.

Calibration Worksheet

Weight Set S/N: 12006

Date	Lab Balance Balance #	1 g ±0.05g	10 g ±0.1g	200 g ±0.5g	Note (C)	Digital Balance Balance #	1 g ±0.02g	10 g ±0.05g	200 g ±0.10g	Note (D) (C) (AR)	Analytical Balance Balance #	1 g ±0.0002g	10 g ±0.0005g	200 g ±0.0010g	Note (D) (C) (AR)	Calib. by
11/12/02	A-01	not	in use		✓	B-01	1.00	10.00	200.00	✓ ✓ ✓	C-01	1.0000	10.0001	200.0003	✓ ✓ ✓	
	A-02					B-5	1.00	10.00	199.97	✓ ✓ ✓	C-02	1.0000	10.0004	200.0007	✓ ✓ ✓	
	A-03	1.00	10.0	200.0	✓	B-6	1.00	10.00	200.01	✓ ✓ ✓	C-					
	A-04					B-7	1.00	10.04	200.00	✓ ✓ ✓	C-					
	A-		11/12/02			B-					C-		11/12/02			
	A-					B-		11/12/02			C-					
11/13/2	A-01	not	in use		✓	B-01	1.00	10.00	200.01	✓ ✓ ✓	C-01	1.0000	10.0002	200.0004	✓ ✓ ✓	
	A-02					B-5	1.00	10.00	200.00	✓ ✓ ✓	C-02	1.0000	10.0004	200.0007	✓ ✓ ✓	
	A-03	1.00	10.0	200.0	✓	B-6	1.00	10.01	200.03	✓ ✓ ✓	C-					
	A-04					B-7	1.00	9.99	200.00	✓ ✓ ✓	C-					
	A-		11/13/02			B-					C-		11/13/02			
	A-					B-		11/13/02			C-					
11/14/02	A-01	not	in use		✓	B-01	1.00	10.00	200.01	✓ ✓ ✓	C-01	1.0000	10.0001	200.0004	✓ ✓ ✓	
	A-02					B-5	1.00	10.00	200.00	✓ ✓ ✓	C-02	1.0002	10.0005	200.0007	✓ ✓ ✓	
	A-03	1.00	10.0	200.0	✓	B-6	1.00	10.01	200.03	✓ ✓ ✓	C-					
	A-04					B-7	1.00	9.99	200.00	✓ ✓ ✓	C-					
	A-		11/14/02			B-					C-		11/14/02			
	A-					B-		11/14/02			C-					
11/15/02	A-01	not	in use		✓	B-01	1.00	10.00	200.01	✓ ✓ ✓	C-01	1.0000	10.0001	200.0003	✓ ✓ ✓	
	A-02					B-5	1.00	10.00	199.99	✓ ✓ ✓	C-02	1.0002	10.0005	200.0007	✓ ✓ ✓	
	A-03	1.00	10.0	200.0	✓	B-6	1.00	10.01	200.02	✓ ✓ ✓	C-					
	A-04					B-7	1.00	10.00	200.00	✓ ✓ ✓	C-					
	A-		11/15/02			B-					C-		11/15/02			
	A-					B-		11/15/02			C-					

Notation: (C) – Cleanliness; (D) – Display; (AR) – Auto Rezeroing.

APCL [illegible]-213. [illegible]

APCL

Applied Physics & Chemistry Laboratory

13760 Magnolia Ave. Chino CA 91710
Tel. (909) 590-1828 Fax (909) 590-1498

December 16, 2002

CDM Federal Programs Corp.
Attention: Matt Brookshire
3760 Convoy St., Ste 210
San Diego CA 92111

Dear Matt,

This package contains samples in our Service ID 02-6149 and your project San Miguel Island Job#2606. Enclosed please find:

(1) Original Analytical Report.
(2) One diskette containing EDD deliverable.
(3) One original and one compact disk of Level D of Data Package Deliverable.
(4) Original Chain of custody record.

If anything is missing or you have any questions, please feel free to contact me.

Respectfully submitted,

Regina Kirakozova
Associate QA/QC Director
Applied P & Ch Laboratory

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
CDM Federal Programs Corp.
Attention: Dave Lange
3760 Convoy St , Ste 210
San Diego CA 92111
Tel: (858)268-3383 Fax: (858)268-9677

Service ID #: 801-026149
Collected by: Dave Lange
Collected on: 11/13-14/02

Received: 11/14/02
Extracted: N/A
Tested: 11/15-22/02
Reported: 11/26/02

Sample Description: Soil
Project Description: San Miguel Island Job#2606

Analysis of Soil Samples

Component Analyzed	Method	Unit	PQL	Analysis Result SMI-027-BSS 02-06149-1	SMI-028-BSS 02-06149-2	SMI-029-DTS 02-06149-3	SMI-030-DTS 02-06149-4
MOISTURE	ASTM-D2216	%Moisture	0.5	3.4	4.0	5.8	5.5
PRIORITY POLLUTANT METALS (CWA) (13)							
Dilution Factor				1	1	1	1
ANTIMONY	6010B	mg/kg	1	0.30J	0.22J	<1.1	<1.1
ARSENIC	6010B	mg/kg	0.3	2.0	1.4	3.5	2.5
BERYLLIUM	6010B	mg/kg	0.2	<0.21	<0.21	0.11J	0.061J
CADMIUM	6010B	mg/kg	0.2	0.044J	0.048J	0.17J	0.080J
CHROMIUM	6010B	mg/kg	0.5	2.2	1.6	12.4	8.5
COPPER	6010B	mg/kg	0.5	0.53	0.71	6.0	4.0
LEAD	6010B	mg/kg	0.3	0.41	0.34	5.1	2.5
MERCURY	7471A	mg/kg	0.08	0.033J	0.022J	0.038J	0.018J
NICKEL	6010B	mg/kg	0.3	1.3	0.77	8.2	4.3
SELENIUM	6010B	mg/kg	0.5	<0.52	<0.52	<0.53	0.15J
SILVER	6010B	mg/kg	0.1	0.025J	0.037J	<0.11	<0.11
THALLIUM	6010B	mg/kg	0.5	0.64	0.61	<0.53	0.31J
ZINC	6010B	mg/kg	1	3.6	2.9	32.2	13.9

Component Analyzed	Method	Unit	PQL	Analysis Result SMI-031-DTS 02-06149-5	SMI-032-DTS 02-06149-6	SMI-033-DTS 02-06149-7	SMI-034-DTS 02-06149-8
MOISTURE	ASTM-D2216	%Moisture	0.5	6.0	5.3	3.0	3.1
PRIORITY POLLUTANT METALS (CWA) (13)							
Dilution Factor				1	1	1	1
ANTIMONY	6010B	mg/kg	1	<1.1	<1.1	<1.0	<1.0
ARSENIC	6010B	mg/kg	0.3	2.2	1.8	1.9	2.0
BERYLLIUM	6010B	mg/kg	0.2	0.036J	0.016J	0.012J	0.040J
CADMIUM	6010B	mg/kg	0.2	0.13J	0.16J	0.13J	0.20J
CHROMIUM	6010B	mg/kg	0.5	5.8	6.1	5.9	8.8
COPPER	6010B	mg/kg	0.5	2.8	1.8	1.2	3.1
LEAD	6010B	mg/kg	0.3	3.5	2.0	1.1	3.2
MERCURY	7471A	mg/kg	0.08	0.042J	0.025J	0.013J	0.035J
NICKEL	6010B	mg/kg	0.3	3.4	2.8	2.8	4.2
SELENIUM	6010B	mg/kg	0.5	<0.53	<0.53	<0.52	0.40J
SILVER	6010B	mg/kg	0.1	<0.11	<0.11	<0.10	<0.10
THALLIUM	6010B	mg/kg	0.5	0.45J	0.50J	0.58	0.32J
ZINC	6010B	mg/kg	1	25.5	9.6	7.3	17.1

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result SMI-035-DTS 02-06149-9	SMI-036-DTS 02-06149-10	SMI-037-DTS 02-06149-11	SMI-038-DTS 02-06149-12
MOISTURE	ASTM-D2216	%Moisture	0.5	4.8	12.1	4.0	3.6
PRIORITY POLLUTANT METALS (CWA) (13)							
Dilution Factor				1	1	1	1
ANTIMONY	6010B	mg/kg	1	<1.1	<1.1	<1.0	<1.0
ARSENIC	6010B	mg/kg	0.3	2.6	8.5	3.3	5.5
BERYLLIUM	6010B	mg/kg	0.2	0.024J	0.49	0.11J	0.13J
CADMIUM	6010B	mg/kg	0.2	0.14J	0.088J	0.20J	0.14J
CHROMIUM	6010B	mg/kg	0.5	10.9	24.0	9.9	15.0
COPPER	6010B	mg/kg	0.5	4.4	10.2	3.6	10.7
LEAD	6010B	mg/kg	0.3	4.4	11.0	3.7	8.6
MERCURY	7471A	mg/kg	0.08	0.024J	0.041J	0.021J	0.023J
NICKEL	6010B	mg/kg	0.3	5.7	23.5	11.0	13.6
SELENIUM	6010B	mg/kg	0.5	<0.53	<0.57	<0.52	0.35J
SILVER	6010B	mg/kg	0.1	<0.11	<0.11	<0.10	<0.10
THALLIUM	6010B	mg/kg	0.5	<0.53	<0.57	<0.52	<0.52
ZINC	6010B	mg/kg	1	85.6	45.8	27.5	66.1

Component Analyzed	Method	Unit	PQL	Analysis Result SMI-039-DTS 02-06149-13	SMI-040-DTS 02-06149-14	SMI-041-BLN 02-06149-15	SMI-042-BLN 02-06149-16
MOISTURE	ASTM-D2216	%Moisture	0.5	12.6	7.3	61.9	61.9
PRIORITY POLLUTANT METALS (CWA) (13)							
Dilution Factor				1	1	1	1
ANTIMONY	6010B	mg/kg	1	0.19J	<1.1	0.72J	0.61J
ARSENIC	6010B	mg/kg	0.3	8.2	8.0	1.8	2.1
BERYLLIUM	6010B	mg/kg	0.2	0.29	0.37	<0.53	<0.52
CADMIUM	6010B	mg/kg	0.2	0.45	0.032J	0.28J	0.28J
CHROMIUM	6010B	mg/kg	0.5	18.1	16.6	5.2	5.7
COPPER	6010B	mg/kg	0.5	25.9	14.2	16.0	17.0
LEAD	6010B	mg/kg	0.3	15.7	10.6	4.5	4.9
MERCURY	7471A	mg/kg	0.08	0.058J	0.033J	0.055J	0.066J
NICKEL	6010B	mg/kg	0.3	18.0	20.5	5.6	6.0
SELENIUM	6010B	mg/kg	0.5	<0.57	0.23J	0.75J	0.93J
SILVER	6010B	mg/kg	0.1	<0.11	<0.11	<0.26	<0.26
THALLIUM	6010B	mg/kg	0.5	<0.57	<0.54	0.51J	0.46J
ZINC	6010B	mg/kg	1	67.1	41.9	100	73.3

PQL: Practical Quantitation Limit MDL: Method Detection Limit CRDL: Contract Required Detection Limit
N.D.: Not Detected or less than the practical quantitation limit "-": Analysis is not required.
J: Reported between PQL and MDL.
† All results are reported on dry basis for soil samples
Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & Ch Laboratory

Hsin-Yi Lee

From: Brookshire, Matthew [BrookshireMS@cdm.com]
Sent: Wednesday, November 20, 2002 11:23 AM
To: 'Hsin-Yi Lee'
Subject: RE: CLP Limits are in ( )

Hi Hsin Yi.

This message is in regard to the samples collected for the San Miguel project. Please perform the ICP method so that we can reach the original detection limits that were sent to you as Attachment 2 of the scope of work. Analysis by CLP method is NOT required.

Thank you.

Matt Brookshire

-----Original Message-----
From: Hsin-Yi Lee [mailto:HsinL@apclab.com]
Sent: Wednesday, November 20, 2002 10:51 AM
To: Brookshire, Matthew
Subject: CLP Limits are in ( )

<< File: ATTACHEMENT 2 reporting limits_CLP.doc >>

If you have any questions please feel free to contact me

Hsin-Yi Lee
Project Manager
Applied Physics and Chemistry Laboratory
13760 Magnolia Ave.
Chino, CA 91710
(909)-590-1828 x113
HsinL@apclab.com

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Level D Data Package Deliverables

General Information

Project: San Miguel Island Job#2606

APCL Service ID: 02-6149

Applied P&Ch Laboratory
13760 Magnolia Ave. Chino, CA 91710
Telephone (909)590-1828
Fax (909)590-1498

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Case Narrative

Project: San Miguel Island

For CDM Federal Programs Corp.

APCL Service No: 02-6149

1. Sample Identification

The sample identifications are listed in the following table:

CDM Federal Programs Corp. Sample ID	APCL Sample ID
SMI-029-DTS	02-06149-3
SMI-030-DTS	02-06149-4
SMI-031-DTS	02-06149-5
SMI-032-DTS	02-06149-6
SMI-033-DTS	02-06149-7
SMI-034-DTS	02-06149-8
SMI-035-DTS	02-06149-9
SMI-036-DTS	02-06149-10
SMI-037-DTS	02-06149-11
SMI-038-DTS	02-06149-12
SMI-039-DTS	02-06149-13
SMI-040-DTS	02-06149-14
SMI-028-BSS	02-06149-2
SMI-027-BSS	02-06149-1
SMI-041-BLN	02-06149-15
SMI-042-BLN	02-06149-16

2. Analytical Methodology

Samples are analyzed by EPA methods

ASTM-D2216 (Moisture, percent in soil),
6010B/7471A (Priority Pollutant Metals (CWA) (13)),

3. Holding Time

All samples were extracted, digested and analyzed within the holding times defined by the appropriate EPA methods of the analyses.

4. Preservation

All samples were preserved and stored according to the appropriate EPA methods.

5. Tele-log

One e-mail requesting ICP analyses instead of CLP.

6. Anomaly

None

"I certify that these data are technically accurate, complete, and in compliance with the terms and conditions of the contract, for other than the conditions detailed above. Release of the data contained in the hardcopy data package and its electronic data deliverable submitted on diskette had been authorized by the Laboratory Manager or her/his designee, as verified by the following signature."

Respectfully submitted,

Regina Kirakozova
Associate QA/QC Director
Applied P & Ch Laboratory

Applied P & Ch Laboratory

APCL

13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Chain of Custody

Please Print in pen

Page 1 of 2

Client: CDM Contact: Dave Lange Tel #: 858-268-3383 Fax #: 858-268-9677

Address: 3760 Convoy St. Suite 210 City: San Diego State: CA Zip code: 92111

Bill to:

Project Name/Code San Miguel Island Job # 2606 P.O. #

Project Address APCL Quotation #

Due Date: ☒ regular ☐ rush: ___ days ___ hours Sampled by: Dave Lange

White - With report
Yellow - Lab copy
Pink - Originator

Analysis Items: CLP METALS by method; ILM04.0; 6149

Field Sample ID No.	Sample Description	Date Collected	Time Collected	Sample Matrix	Preservation	# of Containers	CLP METALS by method	ILM04.0	Remarks
SMI-029-DTS		11/13/02	1315	Soil	none	1	X		ziplock baggy
SMI-030-DTS			1333				X		
SMI-031-DTS			1359				X		
SMI-032-DTS			1402				X		
SMI-033-DTS			1505				X		
SMI-034-DTS			1511				X		
SMI-035-DTS			1515				X		
SMI-036-DTS			1529				X		
SMI-037-DTS			1522				X		
SMI-038-DTS			1526				X		
SMI-039-DTS			1531				X		
SMI-040-DTS			1537				X		
SMI-028-BSS			1436				X		
SMI-027-BSS			1432				X		
—	NONE —					14 total			

QC Requirement: ☐ Regular; ☐ QA/QC Report; ☐ WIP; ☐ Raw Data; ☐ Extended Raw Data ☐ CLP; ☐ ACE ☐ AFCEE ☐ NEESA ___ (E, C or D); ☐ Other _____ (Please specify)

Sample Disposal: ☐ Return ☐ Disposal by APCL ☐ Hold for _____ days after receiving date. **If not specified, samples will be discarded 45 days after samples are received.**

Sample Conditions: ☐ Intact; ☐ Broken. Cooler Seal: ☐ Intact; ☐ Broken; ☐ None. Tag # _____ Temperature: ☐ Room ☐ Cold (_____ °C).

Relinquished by [signature] Date/Time 11/14/02 / 1350 Received by [signature] Date/Time 11/14/02 / 1350

Relinquished by Date/Time / Received by Date/Time /

APCL USE ONLY Service # Note:

Clients understand that all terms described in the proposals, quotations for this project, and/or the general terms provided in the current APCL price schedules will be followed. APCL reserves the right to terminate its service or withhold delivery of any reports, if in APCL's sole discretion the terms of the project have been broken.

APCL
Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Chain of Custody

Please Print in pen

Client: CDM Contact: Dave Lange Tel #: 858-268-3383 Fax #: 858-268-9677
Address: 3760 Convoy St. Suite 210 City: San Diego State: CA Zip code: 92111
Bill to:
Project Name/Code San Miguel Island Job # 2606 P.O. #
Project Address APCL Quotation #
Due Date: ☑ regular ☐ rush: ___ days ___ hours Sampled by: Dave Lange

White – With report
Yellow – Lab copy
Pink – Originator

Field Sample ID No.	Sample Description	Date Collected	Time Collected	Sample Matrix	Preservation	# of Containers	CLP Metals by	FLM04.0											Remarks
SMI-041-BLN	Field Blanks	11/14/02	1250	SOIL	NONE	1	X												
SMI-042-BLN	Field Blank	11/14/02	1252	SOIL	NONE	1	X												

6149

QC Requirement: ☐ Regular; ☐ QA/QC Report; ☐ WIP; ☐ Raw Data; ☐ Extended Raw Data ☐ CLP; ☐ ACE ☐ AFCEE ☐ NEESA ___ (E, C or D); ☐ Other _____ (Please specify)

Sample Disposal: ☐ Return ☐ Disposal by APCL ☐ Hold for _____ days after receiving date. **If not specified, samples will be discarded 45 days after samples are received.**

Sample Conditions: ☐ Intact; ☐ Broken. Cooler Seal: ☐ Intact; ☐ Broken; ☐ None. Tag # _____ Temperature: ☐ Room ☐ Cold (_____ °C).

Relinquished by [signature] Date/Time 11/14/02 / 1350 Received by [signature] Date/Time 11/14/02 / 1350
Relinquished by Date/Time / Received by Date/Time /

APCL USE ONLY Service # Note:

Clients understand that all terms described in the proposals, quotations for this project, and/or the general terms provided in the current APCL price schedules will be followed. APCL reserves the right to terminate its service or withhold delivery of any reports, if in APCL's sole discretion the terms of the project have been broken.

Part 2: Sample Information

Seq. #	Sample ID (on COC)	Sample Sub-ID	APCL Sample ID	Matrix	Cont-tainer	Preser-vative	Vol, ml Am g	# of Replica	Condition G, L, B	Collected mmddyy	Hold ?	Composite Group	TAT Days	
1	SMI-029-DIS		02-06149-3	S	P		300	1	G	111302	N	0	7	☐
2	SMI-030-DIS		02-06149-4	S	P		300	1	G	111302	N	0	7	☐
3	SMI-031-DTS		02-06149-5	S	P		300	1	G	111302	N	0	7	☐
4	SMI-032-DTS		02-06149-6	S	P		300	1	G	111302	N	0	7	☐
5	SMI-033-DIS		02-06149-7	S	P		300	1	G	111302	N	0	7	☐
6	SMI-034-DTS		02-06149-8	S	P		300	1	G	111302	N	0	7	☐
7	SMI-035-DTS		02-06149-9	S	P		300	1	G	111302	N	0	7	☐
8	SMI-036-DIS		02-06149-10	S	P		300	1	G	111302	N	0	7	☐
9	SMI-037-DTS		02-06149-11	S	P		300	1	G	111302	N	0	7	☐
10	SMI-038-DTS		02-06149-12	S	P		300	1	G	111302	N	0	7	☐
11	SMI-039-DTS		02-06149-13	S	P		300	1	G	111302	N	0	7	☐
12	SMI-040-DIS		02-06149-14	S	P		300	1	G	111302	N	0	7	☐
13	SMI-028-BSS		02-06149-2	S	P		300	1	G	111302	N	0	7	☐
14	SMI-027-BSS		02-06149-1	S	P		300	1	G	111302	N	0	7	☐
15	SMI-041-BLN		02-06149-15	S	P		300	1	G	111402	N	0	7	☐
16	SMI-042-BLN		02-06149-16	S	P		300	1	G	111402	N	0	7	☐

Part 3: Analysis Information

Test Items:

☐ *ASTM-D2216* Moisture, percent in soil

☐ *6010B/7000A* Priority Pollutant Metals (CWA) (13)

☐ *200.7/6010B* Beryllium, Be, by ICP

Seq. #	Client"s Sample ID (as given on COC)	Sample Sub-ID	APCL Sample ID	Matrix	MOISTURE	METALS	BE	
1	SMI-029-DIS		02-06149-3	S	X	X	X	☐
2	SMI-030-DTS		02-06149-4	S	X	X	X	☐
3	SMI-031-DTS		02-06149-5	S	X	X	X	☐
4	SMI-032-DTS		02-06149-6	S	X	X	X	☐
5	SMI-033-DTS		02-06149-7	S	X	X	X	☐
6	SMI-034-DTS		02-06149-8	S	X	X	X	☐
7	SMI-035-DTS		02-06149-9	S	X	X	X	☐
8	SMI-036-DTS		02-06149-10	S	X	X	X	☐
9	SMI-037-DTS		02-06149-11	S	X	X	X	☐
10	SMI-038-DTS		02-06149-12	S	X	X	X	☐
11	SMI-039-DTS		02-06149-13	S	X	X	X	☐
12	SMI-040-DTS		02-06149-14	S	X	X	X	☐
13	SMI-028-BSS		02-06149-2	S	X	X	X	☐
14	SMI-027-BSS		02-06149-1	S	X	X	X	☐
15	SMI-041-BLN		02-06149-15	S	X	X	X	☐
16	SMI-042-BLN		02-06149-16	S	X	X	X	☐

Level D Data Package Deliverables

Metals

Applied P & Ch Laboratory

012205

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp	Project No:		Collection Date:	11/21/2002
Project ID:	San Miguel Island	Service ID:	026149	Collected by:	
		Lab Sample ID:	02M2370MB01	Received Date:	11/21/2002
Sample ID:		Sample Matrix	Soil	Moisture %:	
Sample Type:	Method Blank				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1	<1	U	P		02M2370M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.3	<0.3	U	P		02M2370M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.2	0.0049	B	P		02M2370M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.2	<0.2	U	P		02M2370M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.5	<0.5	U	P		02M2370M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.5	<0.5	U	P		02M2370M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.3	<0.3	U	P		02M2370M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.08	<0.08	U	CV		02M2385H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.3	0.090	B	P		02M2370M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.5	<0.5	U	P		02M2370M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.1	<0.1	U	P		02M2370M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.5	<0.5	U	P		02M2370M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1	<1	U	P		02M2370M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp.	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026149	Collected by:	Dave Lange
		Lab Sample ID:	02-6149-1	Received Date:	11/14/2002
Sample ID:	**SMI-027-BSS**	Sample Matrix	Soil	Moisture %:	3.4
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.0	0.30	B	P		02M2370M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.31	2.0		P		02M2370M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.21	<0.21	U	P		02M2370M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.21	0.044	B	P		02M2370M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.52	2.2		P		02M2370M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.52	0.53		P		02M2370M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.31	0.41		P		02M2370M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.083	0.033	B	CV		02M2385H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.31	1.3		P		02M2370M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.52	<0.52	U	P		02M2370M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.10	0.025	B	P		02M2370M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.52	0.64		P		02M2370M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.0	3.6		P		02M2370M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL; B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control; * - Duplicate analysis out of control; W - Post digestion spike for GFAA out of control; E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026149	Collected by:	Dave Lange
		Lab Sample ID:	02-6149-2	Received Date:	11/14/2002
Sample ID:	**SMI-028-BSS**	Sample Matrix	Soil	Moisture %:	4.0
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.0	0.22	B	P		02M2370M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.31	1.4		P		02M2370M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.21	<0.21	U	P		02M2370M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.21	0.048	B	P		02M2370M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.52	1.6		P		02M2370M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.52	0.71		P		02M2370M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.31	0.34		P		02M2370M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.083	0.022	B	CV		02M2385H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.31	0.77		P		02M2370M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.52	<0.52	U	P		02M2370M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.10	0.037	B	P		02M2370M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.52	0.61		P		02M2370M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.0	2.9		P		02M2370M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026149	Collected by:	Dave Lange
		Lab Sample ID:	02-6149-3	Received Date:	11/14/2002
Sample ID:	**SMI-029-DTS**	Sample Matrix	Soil	Moisture %:	5.8
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.1	<1.1	U	P		02M2370M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.32	3.5		P		02M2370M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.21	0.11	B	P		02M2370M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.21	0.17	B	P		02M2370M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.53	12.4		P		02M2370M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.53	6.0		P		02M2370M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.32	5.1		P		02M2370M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.085	0.038	B	CV		02M2385H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.32	8.2		P		02M2370M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.53	<0.53	U	P		02M2370M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.11	<0.11	U	P		02M2370M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.53	<0.53	U	P		02M2370M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.1	32.2		P		02M2370M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026149	Collected by:	Dave Lange
		Lab Sample ID:	02-6149-4	Received Date:	11/14/2002
Sample ID:	**SMI-030-DTS**	Sample Matrix	Soil	Moisture %:	5.5
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.1	<1.1	U	P		02M2370M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.32	2.5		P		02M2370M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.21	0.061	B	P		02M2370M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.21	0.080	B	P		02M2370M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.53	8.5		P		02M2370M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.53	4.0		P		02M2370M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.32	2.5		P		02M2370M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.085	0.018	B	CV		02M2385H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.32	4.3		P		02M2370M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.53	0.15	B	P		02M2370M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.11	<0.11	U	P		02M2370M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.53	0.31	B	P		02M2370M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.1	13.9		P		02M2370M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026149	Collected by:	Dave Lange
		Lab Sample ID:	02-6149-5	Received Date:	11/14/2002
Sample ID:	**SMI-031-DTS**	Sample Matrix	Soil	Moisture %:	6.0
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.1	<1.1	U	P		02M2370M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.32	2.2		P		02M2370M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.21	0.036	B	P		02M2370M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.21	0.13	B	P		02M2370M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.53	5.8		P		02M2370M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.53	2.8		P		02M2370M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.32	3.5		P		02M2370M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.085	0.042	B	CV		02M2385H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.32	3.4		P		02M2370M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.53	<0.53	U	P		02M2370M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.11	<0.11	U	P		02M2370M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.53	0.45	B	P		02M2370M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.1	25.5		P		02M2370M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL; B - Less than RL (PQL, EQL or CRDL), but greater than IDL

Q Qualifier: N - Spike recovery out of control; * - Duplicate analysis out of control; W - Post digestion spike for GFAA out of control; E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp.	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026149	Collected by:	Dave Lange
		Lab Sample ID:	02-6149-6	Received Date:	11/14/2002
Sample ID:	**SMI-032-DTS**	Sample Matrix	Soil	Moisture %:	5.3
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.1	<1.1	U	P		02M2370M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.32	1.8		P		02M2370M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.21	0.016	B	P		02M2370M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.21	0.16	B	P		02M2370M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.53	6.1		P		02M2370M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.53	1.8		P		02M2370M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.32	2.0		P		02M2370M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.084	0.025	B	CV		02M2385H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.32	2.8		P		02M2370M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.53	<0.53	U	P		02M2370M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.11	<0.11	U	P		02M2370M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.53	0.50	B	P		02M2370M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.1	9.6		P		02M2370M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL; B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control; * - Duplicate analysis out of control; W - Post digestion spike for GFAA out of control; E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026149	Collected by:	Dave Lange
		Lab Sample ID:	02-6149-7	Received Date:	11/14/2002
Sample ID:	**SMI-033-DTS**	Sample Matrix	Soil	Moisture %:	3 0
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1 0	<1 0	U	P		02M2370M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.31	1 9		P		02M2370M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.21	0 012	B	P		02M2370M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.21	0.13	B	P		02M2370M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.52	5 9		P		02M2370M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.52	1.2		P		02M2370M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.31	1.1		P		02M2370M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.082	0.013	B	CV		02M2385H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0 31	2 8		P		02M2370M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.52	<0 52	U	P		02M2370M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.10	<0 10	U	P		02M2370M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.52	0.58		P		02M2370M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.0	7.3		P		02M2370M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL; B - Less than RL (PQL, EQL or CRDL), but greater than IDL

Q Qualifier: N - Spike recovery out of control; * - Duplicate analysis out of control; W - Post digestion spike for GFAA out of control; E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp.	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026149	Collected by:	Dave Lange
		Lab Sample ID:	02-6149-8	Received Date:	11/14/2002
Sample ID:	**SMI-034-DTS**	Sample Matrix	Soil	Moisture %:	3.1
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.0	<1.0	U	P		02M2370M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.31	2.0		P		02M2370M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.21	0.040	B	P		02M2370M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.21	0.20	B	P		02M2370M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.52	8.8		P		02M2370M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.52	3.1		P		02M2370M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.31	3.2		P		02M2370M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.083	0.035	B	CV		02M2385H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.31	4.2		P		02M2370M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.52	0.40	B	P		02M2370M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.10	<0.10	U	P		02M2370M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.52	0.32	B	P		02M2370M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.0	17.1		P		02M2370M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026149	Collected by:	Dave Lange
		Lab Sample ID:	02-6149-9	Received Date:	11/14/2002
Sample ID:	**SMI-035-DTS**	Sample Matrix	Soil	Moisture %:	4.8
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.1	<1.1	U	P		02M2370M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.32	2.6		P		02M2370M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.21	0.024	B	P		02M2370M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.21	0.14	B	P		02M2370M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.53	10.9		P		02M2370M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.53	4.4		P		02M2370M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.32	4.4		P		02M2370M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.084	0.024	B	CV		02M2385H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.32	5.7		P		02M2370M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.53	<0.53	U	P		02M2370M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.11	<0.11	U	P		02M2370M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.53	<0.53	U	P		02M2370M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.1	85.6		P		02M2370M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp.	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026149	Collected by:	Dave Lange
		Lab Sample ID:	02-6149-10	Received Date:	11/14/2002
Sample ID:	**SMI-036-DTS**	Sample Matrix	Soil	Moisture %:	12.1
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.1	<1.1	U	P		02M2370M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.34	8.5		P		02M2370M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.23	0.49		P		02M2370M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.23	0.088	B	P		02M2370M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.57	24.0		P		02M2370M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.57	10.2		P		02M2370M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.34	11.0		P		02M2370M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.091	0.041	B	CV		02M2385H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.34	23.5		P		02M2370M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.57	<0.57	U	P		02M2370M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.11	<0.11	U	P		02M2370M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.57	<0.57	U	P		02M2370M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.1	45.8		P		02M2370M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL
B - Less than RL (PQL, EQL or CRDL), but greater than IDL.

Q Qualifier: N - Spike recovery out of control
* - Duplicate analysis out of control
W - Post digestion spike for GFAA out of control
E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp.	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026149	Collected by:	Dave Lange
		Lab Sample ID:	02-6149-11	Received Date:	11/14/2002
Sample ID:	**SMI-037-DTS**	Sample Matrix	Soil	Moisture %:	4 0
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.0	<1.0	U	P		02M2370M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.31	3.3		P		02M2370M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.21	0.11	B	P		02M2370M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.21	0.20	B	P		02M2370M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.52	9.9		P		02M2370M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.52	3.6		P		02M2370M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.31	3.7		P		02M2370M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.083	0.021	B	CV		02M2385H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.31	11.0		P		02M2370M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.52	<0.52	U	P		02M2370M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.10	<0.10	U	P		02M2370M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.52	<0.52	U	P		02M2370M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.0	27.5		P		02M2370M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp.	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026149	Collected by:	Dave Lange
		Lab Sample ID:	02-6149-12	Received Date:	11/14/2002
Sample ID:	**SMI-038-DTS**	Sample Matrix	Soil	Moisture %:	3.5
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.0	<1.0	U	P		02M2370M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.31	5.5		P		02M2370M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.21	0.13	B	P		02M2370M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.21	0.14	B	P		02M2370M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.52	15.0		P		02M2370M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.52	10.7		P		02M2370M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.31	8.6		P		02M2370M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.083	0.023	B	CV		02M2385H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.31	13.6		P		02M2370M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.52	0.35	B	P		02M2370M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.10	<0.10	U	P		02M2370M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.52	<0.52	U	P		02M2370M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.0	66.1		P		02M2370M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp.	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026149	Collected by:	Dave Lange
		Lab Sample ID:	02-6149-13	Received Date:	11/14/2002
Sample ID:	**SMI-039-DTS**	Sample Matrix	Soil	Moisture %:	12 6
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.1	0.19	B	P		02M2370M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.34	8.2		P		02M2370M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.23	0.29		P		02M2370M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.23	0.45		P		02M2370M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0 57	18 1		P		02M2370M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.57	25.9		P		02M2370M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0 34	15.7		P		02M2370M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0 092	0.058	B	CV		02M2385H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.34	18.0		P		02M2370M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.57	<0.57	U	P		02M2370M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.11	<0.11	U	P		02M2370M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.57	<0 57	U	P		02M2370M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1 1	67.1		P		02M2370M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp	Project No:		Collection Date:	11/13/2002
Project ID:	San Miguel Island	Service ID:	026149	Collected by:	Dave Lange
		Lab Sample ID:	02-6149-14	Received Date:	11/14/2002
Sample ID:	**SMI-040-DTS**	Sample Matrix	Soil	Moisture %:	7.3
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	1.1	<1.1	U	P		02M2370M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.32	8.0		P		02M2370M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.22	0.37		P		02M2370M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.22	0.032	B	P		02M2370M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	0.54	16.6		P		02M2370M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	0.54	14.2		P		02M2370M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.32	10.6		P		02M2370M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.086	0.033	B	CV		02M2385H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.32	20.5		P		02M2370M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	0.54	0.23	B	P		02M2370M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.11	<0.11	U	P		02M2370M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	0.54	<0.54	U	P		02M2370M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	1.1	41.9		P		02M2370M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp.	Project No:		Collection Date:	11/14/2002
Project ID:	San Miguel Island	Service ID:	026149	Collected by:	Dave Lange
		Lab Sample ID:	02-6149-15	Received Date:	11/14/2002
Sample ID:	**SMI-041-BLN**	Sample Matrix	Soil	Moisture %:	61.9
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	2.6	0.72	B	P		02M2370M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.79	1.8		P		02M2370M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.53	<0.53	U	P		02M2370M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.53	0.28	B	P		02M2370M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	1.3	5.2		P		02M2370M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	1.3	16.0		P		02M2370M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.79	4.5		P		02M2370M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.21	0.055	B	CV		02M2385H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.79	5.6		P		02M2370M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	1.3	0.75	B	P		02M2370M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.26	<0.26	U	P		02M2370M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	1.3	0.51	B	P		02M2370M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	2.6	100		P		02M2370M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL B - Less than RL (PQL, EQL or CRDL), but greater than IDL

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	CDM Federal Programs Corp	Project No:		Collection Date:	11/14/2002
Project ID:	San Miguel Island	Service ID:	026149	Collected by:	Dave Lange
		Lab Sample ID:	02-6149-16	Received Date:	11/14/2002
Sample ID:	**SMI-042-BLN**	Sample Matrix	Soil	Moisture %:	61.9
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ANTIMONY	7440-36-0	mg/kg	2.6	0.61	B	P		02M2370M	11/21/02	11/21/02	1	6010B
ARSENIC	7440-38-2	mg/kg	0.79	2.1		P		02M2370M	11/21/02	11/21/02	1	6010B
BERYLLIUM	7440-41-7	mg/kg	0.52	<0.52	U	P		02M2370M	11/21/02	11/21/02	1	6010B
CADMIUM	7440-43-9	mg/kg	0.52	0.28	B	P		02M2370M	11/21/02	11/21/02	1	6010B
CHROMIUM	7440-47-3	mg/kg	1.3	5.7		P		02M2370M	11/21/02	11/21/02	1	6010B
COPPER	7440-50-8	mg/kg	1.3	17.0		P		02M2370M	11/21/02	11/21/02	1	6010B
LEAD	7439-92-1	mg/kg	0.79	4.9		P		02M2370M	11/21/02	11/21/02	1	6010B
MERCURY	7439-97-6	mg/kg	0.21	0.066	B	CV		02M2385H	11/22/02	11/22/02	1	7471A
NICKEL	7440-02-0	mg/kg	0.79	6.0		P		02M2370M	11/21/02	11/21/02	1	6010B
SELENIUM	7782-49-2	mg/kg	1.3	0.93	B	P		02M2370M	11/21/02	11/21/02	1	6010B
SILVER	7440-22-4	mg/kg	0.26	<0.26	U	P		02M2370M	11/21/02	11/21/02	1	6010B
THALLIUM	7440-28-0	mg/kg	1.3	0.46	B	P		02M2370M	11/21/02	11/21/02	1	6010B
ZINC	7440-66-6	mg/kg	2.6	73.3		P		02M2370M	11/21/02	11/21/02	1	6010B

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

C Qualifier: U - Not Detected or less than IDL; B - Less than RL (PQL, EQL or CRDL), but greater than IDL

Q Qualifier: N - Spike recovery out of control; * - Duplicate analysis out of control; W - Post digestion spike for GFAA out of control; E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

FORM-2A Metal

Applied P & Ch Laboratory

Initial and Continuing Calibration Verification

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026149	Sequence No.:	02M2368M
		Instrument:	ICP -M	Method:	6010B

Batch No.(s): 02M2370

Analysis Date: **11/21/02**

Concentration Units: **UG/L**

#	Analyte	ICV True	11:18 Result	%R	CCV True	11:38 Result	%R	CCV True	12:20 Result	%R	CCV True	12:55 Result	%R
1	Aluminum	10000.0	9973.22	99.7	5000.0	5136.08	102.7	5000.0	5109.74	102.2	5000.0	5076.71	101.5
2	Antimony	4000.0	3959.23	99.0	2000.0	2029.50	101.5	2000.0	2029.91	101.5	2000.0	2023.50	101.2
3	Arsenic	1000.0	1005.01	100.5	500.0	517.98	103.6	500.0	512.45	102.5	500.0	508.17	101.6
4	Barium	10000.0	9914.57	99.1	5000.0	5159.87	103.2	5000.0	5238.85	104.8	5000.0	5175.92	103.5
5	Beryllium	1000.0	996.84	99.7	500.0	507.65	101.5	500.0	514.78	103.0	500.0	507.92	101.6
6	Cadmium	2000.0	1991.51	99.6	1000.0	1030.16	103.0	1000.0	1041.33	104.1	1000.0	1034.24	103.4
7	Calcium	100000.0	99694.01	99.7	50000.0	50815.67	101.6	50000.0	51938.29	103.9	50000.0	51698.86	103.4
8	Chromium	1000.0	990.94	99.1	500.0	512.06	102.4	500.0	518.99	103.8	500.0	513.55	102.7
9	Cobalt	4000.0	3968.49	99.2	2000.0	2068.51	103.4	2000.0	2096.72	104.8	2000.0	2081.80	104.1
10	Copper	4000.0	3980.39	99.5	2000.0	2059.74	103.0	2000.0	2108.18	105.4	2000.0	2064.88	103.2
11	Iron	10000.0	9829.03	98.3	5000.0	5165.13	103.3	5000.0	5164.79	103.3	5000.0	5229.27	104.6
12	Lead	1000.0	992.37	99.2	500.0	510.85	102.2	500.0	507.70	101.5	500.0	506.40	101.3
13	Magnesium	50000.0	49514.18	99.0	25000.0	26044.82	104.2	25000.0	26175.39	104.7	25000.0	25854.37	103.4
14	Manganese	4000.0	3970.14	99.3	2000.0	2065.48	103.3	2000.0	2108.89	105.4	2000.0	2081.77	104.1
15	Nickel	4000.0	3965.79	99.1	2000.0	2067.35	103.4	2000.0	2080.47	104.0	2000.0	2064.06	103.2
16	Selenium	1000.0	991.68	99.2	500.0	519.62	103.9	500.0	516.62	103.3	500.0	516.12	103.2
17	Silver	2000.0	1989.26	99.5	1000.0	1020.44	102.0	1000.0	1030.01	103.0	1000.0	1021.95	102.2
18	Thallium	1000.0	986.60	98.7	500.0	518.52	103.7	500.0	515.91	103.2	500.0	513.54	102.7
19	Vanadium	4000.0	3968.69	99.2	2000.0	2039.20	102.0	2000.0	2062.04	103.1	2000.0	2045.48	102.3
20	Zinc	4000.0	3987.11	99.7	2000.0	2043.46	102.2	2000.0	2055.75	102.8	2000.0	2032.83	101.6
21	Molybdenum	4000.0	3966.46	99.2	2000.0	2048.77	102.4	2000.0	2058.34	102.9	2000.0	2042.60	102.1

(a) ICV Control Limit 95-105%; For Hg, 90-110%

(b) CCV Control Limit 90-110%; For Hg, 80-120%

FORM-2A Metal

Applied P & Ch Laboratory

Initial and Continuing Calibration Verification

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026149	Sequence No.:	02M2368M
		Instrument:	ICP -M	Method:	6010B
Batch No.(s):	02M2370				

Analysis Date: **11/21/02** Concentration Units: **UG/L**

#	Analyte	CCV True	13:17 Result	%R	CCV True	13:53 Result	%R	CCV True	14:32 Result	%R	CCV True	15:01 Result	%R
1	Aluminum	5000.0	5019.21	100.4	5000.0	5032.46	100.6	5000.0	4978.94	99.6	5000.0	5055.29	101.1
2	Antimony	2000.0	2042.62	102.1	2000.0	2057.80	102.9	2000.0	2056.87	102.8	2000.0	2071.83	103.6
3	Arsenic	500.0	512.73	102.5	500.0	516.09	103.2	500.0	519.29	103.9	500.0	524.15	104.8
4	Barium	5000.0	5149.48	103.0	5000.0	5143.38	102.9	5000.0	5017.65	100.4	5000.0	5107.28	102.1
5	Beryllium	500.0	511.87	102.4	500.0	516.05	103.2	500.0	508.82	101.8	500.0	520.80	104.2
6	Cadmium	1000.0	1033.13	103.3	1000.0	1044.39	104.4	1000.0	1044.87	104.5	1000.0	1063.20	106.3
7	Calcium	50000.0	51159.06	102.3	50000.0	51936.37	103.9	50000.0	52556.80	105.1	50000.0	52847.30	105.7
8	Chromium	500.0	503.01	100.6	500.0	502.57	100.5	500.0	495.18	99.0	500.0	499.19	99.8
9	Cobalt	2000.0	2073.27	103.7	2000.0	2098.14	104.9	2000.0	2097.32	104.9	2000.0	2135.46	106.8
10	Copper	2000.0	2067.03	103.4	2000.0	2087.57	104.4	2000.0	2044.22	102.2	2000.0	2087.77	104.4
11	Iron	5000.0	5180.71	103.6	5000.0	5090.05	101.8	5000.0	4949.67	99.0	5000.0	5033.59	100.7
12	Lead	500.0	509.48	101.9	500.0	510.21	102.0	500.0	506.62	101.3	500.0	507.48	101.5
13	Magnesium	25000.0	25815.90	103.3	25000.0	25918.22	103.7	25000.0	25422.37	101.7	25000.0	25892.31	103.6
14	Manganese	2000.0	2085.64	104.3	2000.0	2101.08	105.1	2000.0	2068.22	103.4	2000.0	2117.27	105.9
15	Nickel	2000.0	2072.18	103.6	2000.0	2105.58	105.3	2000.0	2107.68	105.4	2000.0	2151.52	107.6
16	Selenium	500.0	513.88	102.8	500.0	514.07	102.8	500.0	506.13	101.2	500.0	503.61	100.7
17	Silver	1000.0	1007.74	100.8	1000.0	1007.18	100.7	1000.0	995.43	99.5	1000.0	1007.38	100.7
18	Thallium	500.0	515.65	103.1	500.0	514.06	102.8	500.0	510.14	102.0	500.0	512.21	102.4
19	Vanadium	2000.0	2000.62	100.0	2000.0	1992.40	99.6	2000.0	1965.96	98.3	2000.0	1983.11	99.2
20	Zinc	2000.0	2035.17	101.8	2000.0	2065.29	103.3	2000.0	2049.08	102.5	2000.0	2077.77	103.9
21	Molybdenum	2000.0	2026.92	101.3	2000.0	2041.62	102.1	2000.0	2040.81	102.0	2000.0	2060.78	103.0

(a) ICV Control Limit 95-105%; For Hg, 90-110%

(b) CCV Control Limit 90-110%; For Hg, 80-120%

012224

FORM-2A Metal

Applied P & Ch Laboratory

Initial and Continuing Calibration Verification

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026149	Sequence No.:	02M2368M
		Instrument:	ICP -M	Method:	6010B
Batch No.(s):	02M2370				

Analysis Date: **11/21/02** Concentration Units: **UG/L**

#	Analyte	CCV True	15:43 Result	%R	CCV True	16:20 Result	%R	CCV True	16:43 Result	%R	CCV True	17:22 Result	%R
1	Aluminum	5000.0	5072.82	101.5	5000.0	5005.42	100.1	5000.0	5200.00	104.0	5000.0	5139.09	102.8
2	Antimony	2000.0	2064.61	103.2	2000.0	2038.87	101.9	2000.0	2038.84	101.9	2000.0	2034.37	101.7
3	Arsenic	500.0	523.94	104.8	500.0	513.16	102.6	500.0	515.71	103.1	500.0	514.54	102.9
4	Barium	5000.0	5144.60	102.9	5000.0	5133.76	102.7	5000.0	5168.05	103.4	5000.0	5173.60	103.5
5	Beryllium	500.0	520.80	104.2	500.0	508.03	101.6	500.0	510.28	102.1	500.0	511.14	102.2
6	Cadmium	1000.0	1059.48	105.9	1000.0	1028.51	102.9	1000.0	1055.83	105.6	1000.0	1045.18	104.5
7	Calcium	50000.0	52763.33	105.5	50000.0	50951.04	101.9	50000.0	52964.51	105.9	50000.0	52088.34	104.2
8	Chromium	500.0	505.49	101.1	500.0	503.45	100.7	500.0	520.24	104.0	500.0	514.35	102.9
9	Cobalt	2000.0	2124.94	106.2	2000.0	2065.47	103.3	2000.0	2130.11	106.5	2000.0	2106.62	105.3
10	Copper	2000.0	2097.00	104.8	2000.0	2062.94	103.1	2000.0	2069.59	103.5	2000.0	2068.02	103.4
11	Iron	5000.0	5030.69	100.6	5000.0	5090.12	101.8	5000.0	5228.01	104.6	5000.0	5239.46	104.8
12	Lead	500.0	508.62	101.7	500.0	506.52	101.3	500.0	509.34	101.9	500.0	508.13	101.6
13	Magnesium	25000.0	25983.36	103.9	25000.0	25720.14	102.9	25000.0	25851.86	103.4	25000.0	25864.11	103.5
14	Manganese	2000.0	2114.68	105.7	2000.0	2079.85	104.0	2000.0	2083.32	104.2	2000.0	2088.11	104.4
15	Nickel	2000.0	2130.58	106.5	2000.0	2055.64	102.8	2000.0	2122.17	106.1	2000.0	2103.88	105.2
16	Selenium	500.0	510.54	102.1	500.0	514.10	102.8	500.0	517.11	103.4	500.0	514.17	102.8
17	Silver	1000.0	1015.84	101.6	1000.0	1001.71	100.2	1000.0	1038.23	103.8	1000.0	1025.38	102.5
18	Thallium	500.0	512.90	102.6	500.0	517.10	103.4	500.0	515.33	103.1	500.0	516.24	103.2
19	Vanadium	2000.0	2006.83	100.3	2000.0	2004.28	100.2	2000.0	2074.43	103.7	2000.0	2047.00	102.4
20	Zinc	2000.0	2075.06	103.8	2000.0	2019.47	101.0	2000.0	2085.40	104.3	2000.0	2058.44	102.9
21	Molybdenum	2000.0	2064.44	103.2	2000.0	2021.42	101.1	2000.0	2101.20	105.1	2000.0	2073.80	103.7

(a) ICV Control Limit 95-105%; For Hg, 90-110%.

(b) CCV Control Limit 90-110%; For Hg, 80-120%.

012225

FORM-2A Metal

Applied P & Ch Laboratory

Initial and Continuing Calibration Verification

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026149	Sequence No.:	02M2368M
		Instrument:	ICP -M	Method:	6010B
Batch No.(s):	02M2370				

Analysis Date: **11/21/02** Concentration Units: **UG/L**

#	Analyte	CCV True	18:16 Result	%R	True	Result	%R	True	Result	%R	True	Result	%R
1	Aluminum	5000.0	4973.20	99.5									
2	Antimony	2000.0	1979.78	99.0									
3	Arsenic	500.0	499.98	100.0									
4	Barium	5000.0	5026.36	100.5									
5	Beryllium	500.0	493.51	98.7									
6	Cadmium	1000.0	1005.77	100.6									
7	Calcium	50000.0	50489.67	101.0									
8	Chromium	500.0	492.92	98.6									
9	Cobalt	2000.0	2034.94	101.7									
10	Copper	2000.0	2009.70	100.5									
11	Iron	5000.0	5011.84	100.2									
12	Lead	500.0	492.71	98.5									
13	Magnesium	25000.0	25364.15	101.5									
14	Manganese	2000.0	2027.01	101.4									
15	Nickel	2000.0	2031.44	101.6									
16	Selenium	500.0	503.49	100.7									
17	Silver	1000.0	992.91	99.3									
18	Thallium	500.0	502.37	100.5									
19	Vanadium	2000.0	1971.82	98.6									
20	Zinc	2000.0	2028.26	101.4									
21	Molybdenum	2000.0	2005.12	100.3									

(a) ICV Control Limit 95-105%; For Hg, 90-110%

(b) CCV Control Limit 90-110%; For Hg, 80-120%

012226

FORM-2A Metal

Applied P & Ch Laboratory

Initial and Continuing Calibration Verification

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026149	Sequence No.:	02M2384H
		Instrument:	CV -H	Method:	7471A
Batch No.(s):	02M2385				

Analysis Date: **11/22/02** Concentration Units: **UG/L**

#	Analyte	ICV True	ICV 12:16 Result	ICV %R	CCV True	CCV 12:39 Result	CCV %R	CCV True	CCV 13:01 Result	CCV %R	CCV True	CCV 13:59 Result	CCV %R
1	Mercury	7.5	7.65	102.0	5.0	5.13	102.6	5.0	5.19	103.8	5.0	5.22	104.4

(a) ICV Control Limit 95-105%; For Hg, 90-110%.

(b) CCV Control Limit 90-110%; For Hg, 80-120%.

012227

FORM-2A Metal

Applied P & Ch Laboratory

Initial and Continuing Calibration Verification

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026149	Sequence No.:	02M2384H
		Instrument:	CV -H	Method:	7471A

Batch No.(s): 02M2385

Analysis Date: **11/22/02**

Concentration Units: **UG/L**

#	Analyte	CCV True	14:22 Result	%R	CCV True	14:44 Result	%R	CCV True	15:19 Result	%R	CCV True	15:42 Result	%R
1	Mercury	5.0	5.06	101.2	5.0	5.09	101.9	5.0	5.25	105.1	5.0	4.90	98.0

(a) ICV Control Limit 95-105%; For Hg, 90-110%

(b) CCV Control Limit 90-110%; For Hg, 80-120%

012228

FORM-2A Metal

Applied P & Ch Laboratory

Initial and Continuing Calibration Verification

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026149	Sequence No.:	02M2384H
		Instrument:	CV -H	Method:	7471A

Batch No.(s): 02M2385

Analysis Date: **11/22/02** Concentration Units: **UG/L**

#	Analyte	CCV True	16:05 Result	%R	CCV True	16:24 Result	%R	True	Result	%R	True	Result	%R
1	Mercury	5.0	4.90	98.0	5.0	4.88	97.6						

(a) ICV Control Limit 95-105%; For Hg, 90-110%.

(b) CCV Control Limit 90-110%; For Hg, 80-120%.

012229

FORM-2B Metal

Applied P & Ch Laboratory

CRDL Standard For AA and ICP

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026149	Sequence No.:	02M2368M
		Instrument:	ICP -M	Method:	6010B

Batch No (s): 02M2370

Analysis Date: **11/21/02**

Concentration Units: **UG/L**

#	Analyte	True	11:28 Found	R%	Time Found	R%
1	Aluminum	200.0	223.18	111.6		
2	Antimony	10.0	11.76	117.6		
3	Arsenic	10.0	11.91	119.1		
4	Barium	5.0	6.77	135.4		
5	Beryllium	2.0	2.23	111.5		
6	Cadmium	2.0	2.33	116.4		
7	Calcium	500.0	640.58	128.1		
8	Chromium	2.0	2.92	146.1		
9	Cobalt	20.0	26.14	130.7		
10	Copper	20.0	19.38	96.9		
11	Iron	50.0	26.70	53.4		
12	Lead	3.0	3.01	100.3		
13	Magnesium		7.65			
14	Manganese	10.0	11.06	110.6		
15	Nickel	40.0	48.68	121.7		
16	Selenium	5.0	4.42	88.4		
17	Silver	10.0	10.66	106.6		
18	Thallium	10.0	10.57	105.7		
19	Vanadium	10.0	11.82	118.2		
20	Zinc	20.0	23.45	117.2		
21	Molybdenum	20.0	23.06	115.3		

FORM-3 Metal

Applied P & Ch Laboratory

Metal ICB/CCB Summary

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026149	Sequence No.:	02M2368M
		Instrument:	ICP -M	Method:	6010B

Batch No (s): 02M2370

Analysis Date: **11/21/02** Concentration Units: **UG/L**

#	Analyte	ICB Result	11:25 C	CCB Result	11:43 C	CCB Result	12:25 C	CCB Result	13:00 C	CCB Result	13:22 C
1	Aluminum	5.60	U	5.60	U	5.60	U	5.60	U	8.12	B
2	Antimony	2.30	U	2.30	U	2.39	B	2.30	U	2.30	U
3	Arsenic	1.60	U	1.60	U	1.60	U	1.60	U	1.60	U
4	Barium	0.38	U	0.38	U	0.43	B	0.38	U	0.38	U
5	Beryllium	0.15	B	0.14	B	0.13	B	0.10	B	0.13	B
6	Cadmium	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U
7	Calcium	-427.32	B	173.00	U	-184.28	B	173.00	U	258.69	B
8	Chromium	0.64	B	0.66	B	0.59	B	0.88	B	0.41	U
9	Cobalt	1.57	B	0.68	B	1.30	B	0.99	B	0.77	B
10	Copper	0.80	U	0.80	U	0.82	B	0.80	U	0.80	U
11	Iron	-27.74	B	-14.96	B	-15.45	B	5.25	B	28.91	B
12	Lead	0.70	U	0.70	U	0.70	U	0.70	U	-0.89	B
13	Magnesium	17.00	U	86.78	B	17.00	U	17.00	U	17.00	U
14	Manganese	0.34	B	0.34	U	0.40	B	0.36	B	0.76	B
15	Nickel	2.27	B	3.06	B	3.20	B	2.25	B	2.52	B
16	Selenium	2.80	U	2.80	U	2.80	U	2.80	U	-2.85	B
17	Silver	0.42	U	0.42	U	0.42	U	0.42	U	0.42	U
18	Thallium	1.50	U	1.91	B	1.50	U	1.50	U	1.50	U
19	Vanadium	0.60	B	0.90	B	0.68	B	0.89	B	1.26	B
20	Zinc	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U
21	Molybdenum	0.27	U	0.27	U	0.45	B	0.27	U	0.27	U

FORM-3 Metal

Applied P & Ch Laboratory

Metal ICB/CCB Summary

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026149	Sequence No.:	02M2368M
		Instrument:	ICP -M	Method:	6010B
Batch No.(s):	02M2370				

Analysis Date: **11/21/02**

Concentration Units: **UG/L**

#	Analyte	CCB Result	13:57 C	CCB Result	14:35 C	CCB Result	15:05 C	CCB Result	15:47 C	CCB Result	16:23 C
1	Aluminum	12.31	B	15.41	B	14.55	B	10.97	B	6.53	B
2	Antimony	2.30	U	2.30	U	2.30	U	2.30	U	2.30	U
3	Arsenic	1.60	U	1.60	U	1.60	U	1.60	U	1.60	U
4	Barium	0.70	B	0.66	B	0.38	U	0.56	B	0.65	B
5	Beryllium	0.19	B	0.21	B	0.13	B	0.24	B	0.19	B
6	Cadmium	0.21	U	0.21	U	0.21	U	0.21	U	0.21	U
7	Calcium	173.00	U	173.00	U	173.00	U	-176.92	B	173.00	U
8	Chromium	0.57	B	0.76	B	0.41	U	0.41	U	0.59	B
9	Cobalt	1.89	B	1.13	B	0.46	U	1.16	B	0.64	B
10	Copper	0.92	B	0.80	U	0.80	U	0.94	B	0.80	U
11	Iron	9.99	B	-6.57	B	4.80	U	-24.71	B	16.60	B
12	Lead	0.70	U	0.70	U	0.70	U	0.70	U	0.70	U
13	Magnesium	17.00	U	17.00	U	-27.73	B	-32.43	B	-36.78	B
14	Manganese	0.98	B	0.55	B	0.45	B	0.58	B	0.72	B
15	Nickel	3.40	B	1.49	B	0.79	U	1.68	B	1.92	B
16	Selenium	2.80	U	2.80	U	2.80	U	-5.34	B	-2.82	B
17	Silver	0.42	U	0.42	U	0.42	U	0.42	U	0.68	B
18	Thallium	1.50	U	1.50	U	1.50	U	1.54	B	1.76	B
19	Vanadium	0.71	B	1.19	B	1.22	B	1.42	B	1.03	B
20	Zinc	3.60	B	2.53	B	2.10	U	2.10	U	2.64	B
21	Molybdenum	0.90	B	0.84	B	0.29	B	0.76	B	0.66	B

012232

FORM-3 Metal

Applied P & Ch Laboratory

Metal ICB/CCB Summary

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026149	Sequence No.:	02M2368M
		Instrument:	ICP -M	Method:	6010B

Batch No.(s): 02M2370

Analysis Date: **11/21/02**

Concentration Units: **UG/L**

#	Analyte	CCB Result	16:47 C	CCB Result	17:25 C	CCB Result	18:21 C	CCB Result	Time C	CCB Result	Time C
1	Aluminum	5.60	U	5.60	U	6.91	B				
2	Antimony	2.30	U	2.30	U	2.30	U				
3	Arsenic	1.60	U	1.60	U	1.60	U				
4	Barium	0.70	B	0.92	B	0.38	U				
5	Beryllium	0.20	B	0.20	B	0.09	B				
6	Cadmium	0.21	U	0.21	U	0.21	U				
7	Calcium	-187.67	B	-196.72	B	-224.63	B				
8	Chromium	0.41	U	0.41	U	0.75	B				
9	Cobalt	0.51	B	1.05	B	0.46	U				
10	Copper	0.80	U	0.80	U	1.47	B				
11	Iron	4.80	U	18.85	B	-5.70	B				
12	Lead	0.70	U	0.70	U	0.70	U				
13	Magnesium	-33.68	B	-45.26	B	17.00	U				
14	Manganese	0.57	B	0.77	B	0.34	U				
15	Nickel	1.59	B	2.20	B	1.86	B				
16	Selenium	-4.75	B	-3.30	B	2.80	U				
17	Silver	0.44	B	0.42	U	0.42	U				
18	Thallium	1.98	B	2.45	B	1.83	B				
19	Vanadium	0.73	B	0.99	B	1.01	B				
20	Zinc	2.10	U	2.10	U	4.94	B				
21	Molybdenum	0.62	B	0.65	B	0.27	U				

FORM-3 Metal

Applied P & Ch Laboratory

Metal ICB/CCB Summary

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026149	Sequence No.:	02M2384H
		Instrument:	CV -H	Method:	7471A

Batch No.(s): 02M2385

Analysis Date: **11/22/02**

Concentration Units: **UG/L**

#	Analyte	ICB Result	12:17 C	CCB Result	12:40 C	CCB Result	13:03 C	CCB Result	14:01 C	CCB Result	14:24 C
1	Mercury	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U

012234

FORM-3 Metal

Applied P & Ch Laboratory

Metal ICB/CCB Summary

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026149	Sequence No.:	02M2384H
		Instrument:	CV -H	Method:	7471A
Batch No.(s):	02M2385				

Analysis Date: **11/22/02**

Concentration Units: **UG/L**

#	Analyte	CCB Result	14:46 C	CCB Result	15:21 C	CCB Result	15:44 C	CCB Result	16:07 C	CCB Result	16:26 C
1	Mercury	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U

012235

FORM-4 Metal

Applied P & Ch Laboratory

ICP Interference Check Sample

Client Name: CDM Federal Programs Corp.
Project Name: San Miguel Island

Project No:
Service ID: 026149
ICP ID Number: ICP -M

Lab Code: APCL
Sequence No : 02M2368M

Batch No.(s): 02M2370

Analysis Date: **11/21/02**

Concentration Units: **UG/L**

#	Analyte	Expected Sol. A	Expected Sol. AB	Initial 11:31 Sol. A	Found 11:34 Sol. AB	%R	Final 18:09 Sol. A	Found 18:12 Sol. AB	%R
1	Aluminum	500000	500000	493587	481459.2	96.3	514101	487876.8	97.6
2	Antimony	0	1000	2	957.5	95.7	2	986.6	98.7
3	Arsenic	0	1000	1	949.0	94.9	-5	975.3	97.5
4	Barium	0	500	4	519.8	104.0	4	529.0	105.8
5	Beryllium	0	500	0	481.1	96.2	0	497.8	99.6
6	Cadmium	0	1000	0	967.6	96.8	-1	998.7	99.9
7	Calcium	500000	500000	522495	504931.5	101.0	544079	523150.5	104.6
8	Chromium	0	500	4	499.4	99.9	4	507.1	101.4
9	Cobalt	0	500	4	467.0	93.4	4	480.8	96.2
10	Copper	0	500	1	491.1	98.2	7	514.7	102.9
11	Iron	200000	200000	185078	181986.7	91.0	191047	183511.5	91.8
12	Lead	0	1000	2	918.2	91.8	4	950.5	95.0
13	Magnesium	500000	500000	485792	474032.8	94.8	504296	481002.4	96.2
14	Manganese	0	500	0	486.0	97.2	0	502.3	100.5
15	Nickel	0	1000	5	904.0	90.4	1	931.2	93.1
16	Selenium	0	1000	-6	945.5	94.6	8	981.4	98.1
17	Silver	0	1000	-2	1014.7	101.5	-3	1036.8	103.7
18	Thallium	0	1000	0	888.4	88.8	5	916.7	91.7
19	Vanadium	0	500	-3	482.5	96.5	-2	490.1	98.0
20	Zinc	0	1000	-4	953.2	95.3	9	1006.8	100.7
21	Molybdenum	0	1000	2	936.7	93.7	1	967.1	96.7

FORM-5A Metal

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 6010B

Client Name:	CDM Federal Programs Corp.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	026149
Project ID:	San Miguel Island	Project No:		Sample Matrix:	Soil
		Batch No:	02M2370M		
MS Filename:	-	Date Analyzed:	112102	Time Analyzed:	15:29
MSD Filename:	-	Date Analyzed:	112102	Time Analyzed:	15:33
MS Sample No:	**SMI-027-BSS**	Sample Lab ID:	0261491	Moisture, %	3.4

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
ANTIMONY	mg/kg	25.9	0.30	23.2	88	75-125
ARSENIC	mg/kg	25.9	2.0	26.0	93	75-125
BERYLLIUM	mg/kg	10.4	0	9.13	88	75-125
CADMIUM	mg/kg	12.9	0.044	12.2	94	75-125
CHROMIUM	mg/kg	51.8	2.2	46.5	86	75-125
COPPER	mg/kg	51.8	0.53	45.9	88	75-125
LEAD	mg/kg	155	0.41	135	87	75-125
NICKEL	mg/kg	51.8	1.3	46.4	87	75-125
SELENIUM	mg/kg	25.9	0	23.3	90	75-125
SILVER	mg/kg	51.8	0.025	48.4	93	75-125
THALLIUM	mg/kg	25.9	0.64	22.2	83	75-125
ZINC	mg/kg	25.9	3.6	26.5	88	75-125
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
ANTIMONY	mg/kg	25.9	23.2	88	0	20	75-125
ARSENIC	mg/kg	25.9	26.0	93	0	20	75-125
BERYLLIUM	mg/kg	10.4	9.02	87	1	20	75-125
CADMIUM	mg/kg	12.9	12.3	95	1	20	75-125
CHROMIUM	mg/kg	51.8	46.9	86	0	20	75-125
COPPER	mg/kg	51.8	46.5	89	1	20	75-125
LEAD	mg/kg	155	135	87	0	20	75-125
NICKEL	mg/kg	51.8	46.6	87	0	20	75-125
SELENIUM	mg/kg	25.9	23.3	90	0	20	75-125
SILVER	mg/kg	51.8	48.6	94	1	20	75-125
THALLIUM	mg/kg	25.9	22.3	84	1	20	75-125
ZINC	mg/kg	25.9	26.7	89	1	20	75-125
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

FORM-5A Metal

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 7471A

Client Name:	CDM Federal Programs Corp.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	026149
Project ID:	San Miguel Island	Project No:		Sample Matrix:	Soil
		Batch No:	02M2385H		
MS Filename:	-	Date Analyzed:	112202	Time Analyzed:	14:14
MSD Filename:	-	Date Analyzed:	112202	Time Analyzed:	14:16
MS Sample No:	**SMI-027-BSS**	Sample Lab ID:	0261491	Moisture, %	3.4

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
MERCURY	mg/kg	0.863	0.033	0.908	101	75-125
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
MERCURY	mg/kg	0.863	0.872	97	4	20	75-125
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

FORM-5B Metal

Applied P & Ch Laboratory

Post Digest Spike Sample Recovery

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026149	Sequence No.:	02M2368M
		Batch No :	02M2370	Method:	6010B
Spike Sample No. :	02-6149-01	Matrix:	SOIL	Instrument:	ICP -M
Client Sample No.:	**SMI-027-BSS**	Analysis Date:	11/21/02		

Concentration Units: **UG/L**

#	Analyte	Spiked Sample Result(SSR)	15:36 C	Sample Result(SR)	15:19 C	Spike Added(SA)	% Rec.	Control Limit	Q
1	Aluminum	13843.3945		12456.8496		2000.00	69.3		
2	Antimony	470.6886		5.7059	B	500.00	93.0	75-125	
3	Arsenic	527.7953		38.1273		500.00	97.9	75-125	
4	Barium	3876.4568		216.9276		4000.00	91.5	75-125	
5	Beryllium	181.7882		-0.2541	U	200.00	90.9	75-125	
6	Cadmium	250.9714		0.8508	B	250.00	100.0	75-125	
7	Calcium	2280577.5000		2357450.0000		20000.00	-384.4		
8	Chromium	951.6329		43.1143		1000.00	90.9	75-125	
9	Cobalt	954.1002		8.9447	B	1000.00	94.5	75-125	
10	Copper	947.0293		10.2317		1000.00	93.7	75-125	
11	Iron	26340.1367		26534.3418		1000.00	-19.4		
12	Lead	2757.1689		7.9107		3000.00	91.6	75-125	
13	Magnesium	39606.3633		32095.6875		10000.00	75.1	75-125	
14	Manganese	1778.4723		904.2783		1000.00	87.4	75-125	
15	Nickel	961.8234		24.7655		1000.00	93.7	75-125	
16	Selenium	475.8348		-0.9888	U	500.00	95.2	75-125	
17	Silver	991.0497		0.4773	B	1000.00	99.1	75-125	
18	Thallium	452.5726		12.3966		500.00	88.0	75-125	
19	Vanadium	1924.2139		51.7419		2000.00	93.6	75-125	
20	Zinc	550.7350		68.8950		500.00	96.4	75-125	
21	Molybdenum	1885.2368		-2.0433	U	2000.00	94.3	75-125	

012239

FORM-5B Metal

Applied P & Ch Laboratory

Post Digest Spike Sample Recovery

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026149	Sequence No.:	02M2384H
		Batch No.:	02M2385	Method:	7471A
Spike Sample No. :	02-6149-01	Matrix:	SOIL	Instrument:	CV -H
Client Sample No.:	**SMI-027-BSS**	Analysis Date:	11/22/02		

Concentration Units: **UG/L**

#	Analyte	Spiked Sample Result(SSR)	14:18 C	Sample Result(SR)	14:08 C	Spike Added(SA)	% Rec.	Control Limit	Q
1	Mercury	5.1586		0.1888	B	5.00	99.4	75-125	

012240

FORM-6 Metal

Applied P & Ch Laboratory

Duplicates Verification

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026149	Sequence No :	02M2368M
		Batch No.:	02M2370	Method:	6010B
Spike Sample No.	02-6149-01	Matrix:	SOIL	Instrument:	ICP -M
Client Sample No.	**SMI-027-BSS**	% Solid:	96.58	Analysis Date:	11/21/02

Concentration Unit: **mg/Kg**

#	Analyte	15:19 Sample(s)	C	15:22 Duplicate	C	RPD(%)	Q
1	Aluminum	644.8980		646.6785		0.3	
2	Antimony	0.2954	B	0.1946	B	41.2	
3	Arsenic	1.9739		1.8689		5.5	
4	Barium	11.2305		11.1817		0.4	
5	Beryllium	-0.0132	U	-0.0185	U		
6	Cadmium	0.0440	B	0.0400	B	9.6	
7	Calcium	122046.4844		122285.4609		0.2	
8	Chromium	2.2321		2.2200		0.5	
9	Cobalt	0.4631	B	0.4539	B	2.0	
10	Copper	0.5297		0.4864	B	8.5	
11	Iron	1373.6975		1375.1085		0.1	
12	Lead	0.4095		0.3982		2.8	
13	Magnesium	1661.6116		1663.4158		0.1	
14	Manganese	46.8150		46.9647		0.3	
15	Nickel	1.2821		1.2445		3.0	
16	Selenium	-0.0512	U	-0.0843	U		
17	Silver	0.0247	B	-0.0026	U	200.0	
18	Thallium	0.6418		0.4743	B	30.0	
19	Vanadium	2.6787		2.7141		1.3	
20	Zinc	3.5667		3.5562		0.3	
21	Molybdenum	-0.1058	U	-0.1547	U		

012241

FORM-6 Metal

Applied P & Ch Laboratory

Duplicates Verification

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026149	Sequence No :	02M2384H
		Batch No :	02M2385	Method:	7471A
Spike Sample No.	02-6149-01	Matrix:	SOIL	Instrument:	CV -H
Client Sample No.	**SMI-027-BSS**	% Solid:	96.58	Analysis Date:	11/22/02

Concentration Unit: **mg/Kg**

#	Analyte	14:08 Sample(s)	C	14:10 Duplicate	C	RPD(%)	Q
1	Mercury	0.0326	B	0.0326	B	0.1	

012242

FORM-7 Metal

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 6010B

Client Name:	CDM Federal Programs Corp.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	026149
Project ID:	San Miguel Island	Project No:		Sample Matrix:	Soil
		Batch No:	02M2370M		
LCS Filename:	-	Date Analyzed:	112102	Time Analyzed:	15:12
LCSD Filename:	-	Date Analyzed:	112102	Time Analyzed:	15:15

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
ANTIMONY	mg/kg	25	0	24.7	99	80-120
ARSENIC	mg/kg	25	0	25.8	103	80-120
BERYLLIUM	mg/kg	10	0	9.93	99	80-120
CADMIUM	mg/kg	12.5	0	13.1	105	80-120
CHROMIUM	mg/kg	50	0	49.4	99	80-120
COPPER	mg/kg	50	0	50.2	100	80-120
LEAD	mg/kg	150	0	155	103	80-120
NICKEL	mg/kg	50	0	53.4	107	80-120
SELENIUM	mg/kg	25	0	24.8	99	80-120
SILVER	mg/kg	50	0	48.5	97	80-120
THALLIUM	mg/kg	25	0	26.2	105	80-120
ZINC	mg/kg	25	0	26.6	106	80-120
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
ANTIMONY	mg/kg	25	24.7	99	0	20	80-120
ARSENIC	mg/kg	25	26.0	104	1	20	80-120
BERYLLIUM	mg/kg	10	10.0	100	1	20	80-120
CADMIUM	mg/kg	12.5	13.3	106	1	20	80-120
CHROMIUM	mg/kg	50	49.9	100	1	20	80-120
COPPER	mg/kg	50	50.7	101	1	20	80-120
LEAD	mg/kg	150	157	105	2	20	80-120
NICKEL	mg/kg	50	53.8	108	1	20	80-120
SELENIUM	mg/kg	25	24.8	99	0	20	80-120
SILVER	mg/kg	50	49.0	98	1	20	80-120
THALLIUM	mg/kg	25	26.4	106	1	20	80-120
ZINC	mg/kg	25	26.8	107	1	20	80-120
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

FORM-7 Metal

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 7471A

Client Name:	CDM Federal Programs Corp.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	026149
Project ID:	San Miguel Island	Project No:		Sample Matrix:	Soil
		Batch No:	02M2385H		
LCS Filename:	-	Date Analyzed:	112202	Time Analyzed:	14:04
LCSD Filename:	-	Date Analyzed:	112202	Time Analyzed:	14:06

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
MERCURY	mg/kg	0 833	0	0.826	99	80-120
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
MERCURY	mg/kg	0.833	0 822	99	0	20	80-120
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

FORM-9 Metal

Applied P & Ch Laboratory

ICP Serial Dilutions

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026149	Sequence No.:	02M2368M
		Batch No.:	02M2370	Method:	6010B
Dilution Sample No.:	02-6149-01	Matrix:	SOIL	Instrument:	ICP -M
Client Sample No.:	**SMI-027-BSS**	Analysis Date:	11/21/02		

Concentration Units: **UG/L**

#	Analyte	Initial Sample Results(I)	15:19 C	Serial Dilut Results(S)	15:26 C	% Diff.	Q
1	Aluminum	12456.85		13811.56		10.9	E
2	Antimony	5.71	B	9.70	U	100.0	
3	Arsenic	38.13		30.17		20.9	
4	Barium	216.93		246.23		13.5	E
5	Beryllium	-0.25	U	-0.20	U		
6	Cadmium	0.85	B	0.48	U	100.0	
7	Calcium	2357450.00		2544809.25		7.9	
8	Chromium	43.11		47.70	B	10.6	E
9	Cobalt	8.94	B	11.70	B	30.9	
10	Copper	10.23		9.13	B	10.8	
11	Iron	26534.34		30249.34		14.0	E
12	Lead	7.91		3.88	B	50.9	
13	Magnesium	32095.69		36718.77		14.4	E
14	Manganese	904.28		1026.99		13.6	E
15	Nickel	24.77		29.63	B	19.7	
16	Selenium	-0.99	U	-26.61	U		
17	Silver	0.48	B	0.26	U	100.0	
18	Thallium	12.40		8.31	B	33.0	
19	Vanadium	51.74		59.97		15.9	E
20	Zinc	68.89		70.10	B	1.8	
21	Molybdenum	-2.04	U	-3.55	U		

012245

FORM-9 Metal

Applied P & Ch Laboratory

ICP Serial Dilutions

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026149	Sequence No.:	02M2384H
		Batch No.:	02M2385	Method:	7471A
Dilution Sample No :	02-6149-01	Matrix:	SOIL	Instrument:	CV -H
Client Sample No.:	**SMI-027-BSS**	Analysis Date:	11/22/02		

Concentration Units: **UG/L**

#	Analyte	Initial Sample Results(I)	14:08 C	Serial Dilut Results(S)	14:12 C	% Diff.	Q
1	Mercury	0.19	B	0.19	B	2.9	

012246

FORM-14 Metal

Applied P & Ch Laboratory

Analysis Run Log

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026149	Sequence No :	02M2368M
		Instrument:	ICP -M	Method:	6010B
Batch No.(s):	02M2370	Start Date:	11/21/02	End Date:	11/21/02

#	APCL Sample No.	D/F	Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Mo	Sr	Ti	Sn	Li	B	Si
1	Calib Blank	1.00	11:04	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
2	STD1 1346A	1.00	11:07	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
3	STD2 1346B	1.00	11:11	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
4	STD3 1346C	1.00	11:14	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
5	ICV 1379A	1.00	11:18	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
6	ICB	1.00	11:25	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
7	CRI A1415	1.00	11:28	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
8	ICSA 1362	1.00	11:31	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
9	ICSAB 1364	1.00	11:34	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
10	CCV 1379B	1.00	11:38	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
11	CCB	1.00	11:43	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
12	M-BL 02M2368S	1.00	11:47	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
13	LCS-02M2368	1.00	11:51	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
14	LCSD-02M2368	1.00	11:54	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
15	6141-1 S F=50	1.00	11:58	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
16	6141-1 D F=50	1.00	12:02	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
17	6141-1 1/5 F=25	5.00	12:05	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
18	6141-1 MS F=50	1.00	12:09	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
19	6141-1 MSD F=50	1.00	12:12	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
20	6141-1 PS F=50	1.00	12:16	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
21	CCV 1379B	1.00	12:20	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
22	CCB	1.00	12:25	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
23	6141-2 F=50	1.00	12:28	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
24	6141-3 F=50	1.00	12:30	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
25	6141-4 F=50	1.00	12:33	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
26	6141-5 F=50	1.00	12:37	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
27	6141-6 F=50	1.00	12:40	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
28	6141-7 F=50	1.00	12:43	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
29	6141-8 F=50	1.00	12:46	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
30	6141-9 F=50	1.00	12:48	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
31	6141-10 F=50	1.00	12:51	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
32	CCV 1379B	1.00	12:55	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
33	CCB	1.00	13:00	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
34	6141-11 F=50	1.00	13:03	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
35	6141-12 F=50	1.00	13:05	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
36	6141-13 F=50	1.00	13:08	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
37	6141-14 F=50	1.00	13:11	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
38	6141-15 F=50	1.00	13:14	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
39	CCV 1379B	1.00	13:17	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
40	CCB	1.00	13:22	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						

FORM-14 Metal

Applied P & Ch Laboratory

Analysis Run Log

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026149	Sequence No.:	02M2368M
		Instrument:	ICP -M	Method:	6010B
Batch No.(s):	02M2370	Start Date:	11/21/02	End Date:	11/21/02

#	APCL Sample No.	D/F	Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Mo	Sr	Ti	Sn	Li	B	Si
41	M-BL 02M2369S	1.00	13:26	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
42	LCS-02M2369	1.00	13:29	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
43	LCSD-02M2369	1.00	13:33	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
44	6148-1 S F=50	1.00	13:35	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
45	6148-1 D F=50	1.00	13:38	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
46	6148-1 1/5 F=25	5.00	13:41	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
47	6148-1 MS F=50	1.00	13:44	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
48	6148-1 MSD F=50	1.00	13:47	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
49	6148-1 PS F=50	1.00	13:50	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
50	CCV 1379B	1.00	13:53	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
51	CCB	1.00	13:57	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
52	6148-2 F=50	1.00	13:59	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
53	6148-3 F=50	1.00	14:03	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
54	6148-4 F=50	1.00	14:07	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
55	6148-5 F=50	1.00	14:10	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
56	6148-6 F=50	1.00	14:14	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
57	6148-7 F=50	1.00	14:17	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
58	6148-8 F=50	1.00	14:21	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
59	6148-9 F=50	1.00	14:24	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
60	6148-10 F=50	1.00	14:28	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
61	CCV 1379B	1.00	14:32	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
62	CCB	1.00	14:35	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
63	6148-11 F=50	1.00	14:38	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
64	6148-12 F=50	1.00	14:41	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
65	6148-13 F=50	1.00	14:45	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
66	6148-14 F=50	1.00	14:48	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
67	6148-15 F=50	1.00	14:52	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
68	6233-1 F=50	1.00	14:54	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
69	6233-2 F=50	1.00	14:57	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
70	CCV 1379B	1.00	15:01	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
71	CCB	1.00	15:05	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
72	M-BL 02M2370S	1.00	15:08	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
73	LCS-02M2370	1.00	15:12	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
74	LCSD-02M2370	1.00	15:15	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
75	6149-1 S F=50	1.00	15:19	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
76	6149-1 D F=50	1.00	15:22	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
77	6149-1 1/5 F=25	5.00	15:26	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
78	6149-1 MS F=50	1.00	15:29	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
79	6149-1 MSD F=50	1.00	15:33	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
80	6149-1 PS F=50	1.00	15:36	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						

FORM-14 Metal

Applied P & Ch Laboratory

Analysis Run Log

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026149	Sequence No.:	02M2368M
		Instrument:	ICP -M	Method:	6010B
Batch No.(s):	02M2370	Start Date:	11/21/02	End Date:	11/21/02

#	APCL Sample No.	D/F	Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Mo	Sr	Ti	Sn	Li	B	Si
81	6149-2 F=50	1.00	15:40	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
82	CCV 1379B	1.00	15:43	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
83	CCB	1.00	15:47	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
84	6149-3 F=50	1.00	15:49	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
85	6149-4 F=50	1.00	15:52	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
86	6149-5 F=50	1.00	15:56	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
87	6149-6 F=50	1.00	15:59	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
88	6149-7 F=50	1.00	16:03	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
89	6149-8 F=50	1.00	16:05	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
90	6149-9 F=50	1.00	16:08	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
91	6149-10 F=50	1.00	16:11	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
92	6149-11 F=50	1.00	16:13	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
93	6149-12 F=50	1.00	16:16	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
94	CCV 1379B	1.00	16:20	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
95	CCB	1.00	16:23	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
96	6149-13 F=50	1.00	16:26	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
97	6149-14 F=50	1.00	16:29	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
98	6149-15 F=50	1.00	16:32	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
99	6149-16 F=50	1.00	16:36	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
100	CCV 1379B	1.00	16:43	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
101	CCB	1.00	16:47	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
102	M-BL 02M2376S	1.00	16:50	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
103	LCS-02M2376	1.00	16:54	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
104	LCSD-02M2376	1.00	16:57	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
105	6252-6 S F=50	1.00	17:00	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
106	6252-6 D F=50	1.00	17:03	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
107	6252-6 1/5 F=25	5.00	17:06	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
108	6252-6 MS F=50	1.00	17:09	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
109	6252-6 MSD F=50	1.00	17:12	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
110	6252-6 PS F=50	1.00	17:15	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
111	6252-5 F=50	1.00	17:18	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
112	CCV 1379B	1.00	17:22	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
113	CCB	1.00	17:25	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
114	6252-4 F=50	1.00	17:28	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
115	6252-3 F=50	1.00	17:31	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
116	6252-2 F=50	1.00	17:34	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
117	6252-1 F=50	1.00	17:37	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
118	6232-1 F=50	1.00	17:41	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
119	6225-1 F=50	1.00	17:43	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
120	6228-1 F=250	5.00	17:46	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						

FORM-14 Metal

Applied P & Ch Laboratory

Analysis Run Log

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026149	Sequence No.:	02M2368M
		Instrument:	ICP -M	Method:	6010B
Batch No.(s):	02M2370	Start Date:	11/21/02	End Date:	11/21/02

#	APCL Sample No.	D/F	Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Mo	Sr	Ti	Sn	Li	B	Si
121	6228-2 F=50	1.00	17:50	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
122	6228-1 F=25000	500.00	18:03	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
123	6228-2 F=25000	500.00	18:06	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
124	ICSA 1362	1.00	18:09	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
125	ICSAB 1364	1.00	18:12	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
126	CCV 1379B	1.00	18:16	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
127	CCB	1.00	18:21	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						
128	DLC A1314	1.00	18:25	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√		√	√		√	√	√	√						

FORM-14 Metal

Applied P & Ch Laboratory

Analysis Run Log

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026149	Sequence No.:	02M2384H
		Instrument:	CV -H	Method:	7471A
Batch No.(s):	02M2385	Start Date:	11/22/02	End Date:	11/22/02

#	APCL Sample No.	D/F	Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Mo	Sr	Ti	Sn	Li	B	Si
1	Calib Blank	1.00	11:21															√															
2	A1411 0.2PPB	1.00	11:23															√															
3	A1411 1PPB	1.00	11:25															√															
4	A1411 5PPB	1.00	11:27															√															
5	A1411 7.5PPB	1.00	11:28															√															
6	A1411 10PPB	1.00	11:30															√															
7	ICV A1412	1.00	12:16															√															
8	ICB	1.00	12:17															√															
9	M-BL 02M2384S	1.00	12:19															√															
10	LCS-02M2384	1.00	12:21															√															
11	LCSD-02M2384	1.00	12:23															√															
12	6141-1 S F=166.	1.00	12:25															√															
13	6141-1 D F=166.	1.00	12:27															√															
14	6141-1 1/5 F=83	5.00	12:29															√															
15	6141-1 MS F=166	1.00	12:31															√															
16	6141-1 MSD F=16	1.00	12:33															√															
17	6141-1 PS F=166	1.00	12:35															√															
18	6141-2 F=166.7	1.00	12:37															√															
19	CCV A1413	1.00	12:39															√															
20	CCB	1.00	12:40															√															
21	6141-3 F=166.7	1.00	12:42															√															
22	6141-4 F=166.7	1.00	12:44															√															
23	6141-5 F=166.7	1.00	12:46															√															
24	6141-6 F=166.7	1.00	12:48															√															
25	6141-7 F=166.7	1.00	12:50															√															
26	6141-8 F=166.7	1.00	12:52															√															
27	6141-9 F=166.7	1.00	12:54															√															
28	6141-10 F=166.7	1.00	12:56															√															
29	6141-11 F=166.7	1.00	12:58															√															
30	6141-12 F=166.7	1.00	13:00															√															
31	CCV A1413	1.00	13:01															√															
32	CCB	1.00	13:03															√															
33	6141-13 F=166.7	1.00	13:05															√															
34	6141-14 F=166.7	1.00	13:07															√															
35	6141-15 F=166.7	1.00	13:09															√															
36	6219-1 F=166.7	1.00	13:11															√															
37	6252-5 F=166.7	1.00	13:13															√															
38	6252-6 F=166.7	1.00	13:15															√															
39	CCV A1413	1.00	13:59															√															
40	CCB	1.00	14:01															√															

FORM-14 Metal

Applied P & Ch Laboratory

Analysis Run Log

Client Name:	CDM Federal Programs Corp.	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026149	Sequence No.:	02M2384F
		Instrument:	CV -H	Method:	7471A
Batch No.(s):	02M2385	Start Date:	11/22/02	End Date:	11/22/02

#	APCL Sample No.	D/F	Time	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Hg Ni K Se Ag Na Tl V Zn Mo Sr Ti Sn Li B Si
41	M-BL 02M2385S	1.00	14:02	√
42	LCS-02M2385	1.00	14:04	√
43	LCSD-02M2385	1.00	14:06	√
44	6149-1 S F=166.	1.00	14:08	√
45	6149-1 D F=166.	1.00	14:10	√
46	6149-1 1/5 F=83	5.00	14:12	√
47	6149-1 MS F=166	1.00	14:14	√
48	6149-1 MSD F=16	1.00	14:16	√
49	6149-1 PS F=166	1.00	14:18	√
50	6149-2 F=166.7	1.00	14:20	√
51	CCV A1413	1.00	14:22	√
52	CCB	1.00	14:24	√
53	6149-3 F=166.7	1.00	14:25	√
54	6149-4 F=166.7	1.00	14:27	√
55	6149-5 F=166.7	1.00	14:29	√
56	6149-6 F=166.7	1.00	14:31	√
57	6149-7 F=166.7	1.00	14:33	√
58	6149-8 F=166.7	1.00	14:35	√
59	6149-9 F=166.7	1.00	14:37	√
60	6149-10 F=166.7	1.00	14:39	√
61	6149-11 F=166.7	1.00	14:41	√
62	6149-12 F=166.7	1.00	14:43	√
63	CCV A1413	1.00	14:44	√
64	CCB	1.00	14:46	√
65	6149-13 F=166.7	1.00	14:48	√
66	6149-14 F=166.7	1.00	14:50	√
67	6149-15 F=166.7	1.00	14:52	√
68	6149-16 F=166.7	1.00	14:54	√
69	6252-1 F=166.7	1.00	14:56	√
70	6252-2 F=166.7	1.00	14:58	√
71	6252-3 F=166.7	1.00	15:00	√
72	6252-4 F=166.7	1.00	15:02	√
73	CCV A1413	1.00	15:19	√
74	CCB	1.00	15:21	√
75	M-BL 02M2386S	1.00	15:23	√
76	LCS-02M2386	1.00	15:25	√
77	LCSD-02M2386	1.00	15:27	√
78	6148-1 S F=166.	1.00	15:29	√
79	6148-1 D F=166.	1.00	15:31	√
80	6148-1 1/5 F=83	5.00	15:32	√

FORM-14 Metal

Applied P & Ch Laboratory

Analysis Run Log

Client Name:	CDM Federal Programs Corp	Project No:		Lab Code:	APCL
Project Name:	San Miguel Island	Service ID:	026149	Sequence No.:	02M2384H
		Instrument:	CV -H	Method:	7471A
Batch No.(s):	02M2385	Start Date:	11/22/02	End Date:	11/22/02

#	APCL Sample No.	D/F	Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Mo	Sr	Ti	Sn	Li	B	Si
81	6148-1 MS F=166	1.00	15:34															√															
82	6148-1 MSD F=16	1.00	15:36															√															
83	6148-1 PS F=166	1.00	15:38															√															
84	6148-2 F=166.7	1.00	15:40															√															
85	CCV A1413	1.00	15:42															√															
86	CCB	1.00	15:44															√															
87	6148-3 F=166.7	1.00	15:46															√															
88	6148-4 F=166.7	1.00	15:48															√															
89	6148-5 F=166.7	1.00	15:50															√															
90	6148-6 F=166.7	1.00	15:52															√															
91	6148-7 F=166.7	1.00	15:54															√															
92	6148-8 F=166.7	1.00	15:55															√															
93	6148-9 F=166.7	1.00	15:57															√															
94	6148-10 F=166.7	1.00	15:59															√															
95	6148-11 F=166.7	1.00	16:01															√															
96	6148-12 F=166.7	1.00	16:03															√															
97	CCV A1413	1.00	16:05															√															
98	CCB	1.00	16:07															√															
99	6148-13 F=166.7	1.00	16:09															√															
100	6148-14 F=166.7	1.00	16:10															√															
101	6148-15 F=166.7	1.00	16:12															√															
102	6269-1 F=166.7	1.00	16:14															√															
103	6284-1 F=166.7	1.00	16:16															√															
104	6284-2 F=166.7	1.00	16:18															√															
105	6284-3 F=166.7	1.00	16:20															√															
106	6284-4 F=166.7	1.00	16:22															√															
107	CCV A1413	1.00	16:24															√															
108	CCB	1.00	16:26															√															

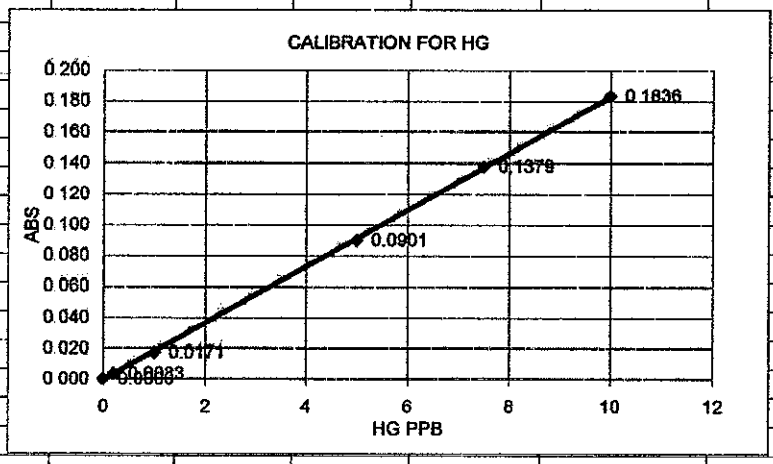
MERCURY RAW DATA

02M2384H
02M2385
02M2386

CALIBRATION REPORT FOR HG

Add Hg

HG PPB	ABS	HG PPB	SLOPE		R		Instrument: H
0	0.0000	0.000	*0.01831*		0.99991	Method Description: 7470A/7471A/245.2	
0.2	0.0033	0.179					Analyst: Xi
1	0.0171	0.936					
5	0.0901	4.920					
7.5	0.1379	7.530					
10	0.1836	10.023					

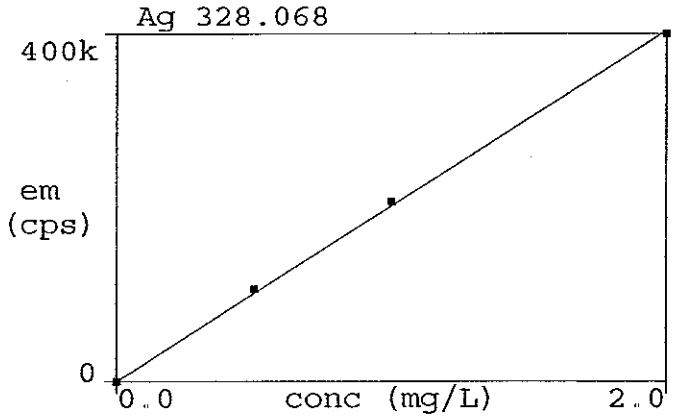


Sample_ID	EL	Sam_Date	Sam_Time	ABS	HG PB	Sam-Hg PPB	F
Calib Blank	Hg	11/22/02	11:21:19	0			1
A1411 0.2PPB	Hg	11/22/02	11:23:12	0.003276			1
A1411 1PPB	Hg	11/22/02	11:25:06	0.017149			1
A1411 5PPB	Hg	11/22/02	11:27:00	0.090107			1
A1411 7.5PPB	Hg	11/22/02	11:28:57	0.137912			1
A1411 10PPB	Hg	11/22/02	11:30:53	0.183562			1
ICV A1412	Hg	11/22/02	12:16:03	0.14004	7.646472	7.64647201	1
ICB	Hg	11/22/02	12:17:58	-5.16E-05	-0.0028178	-0.0028178	1
M-BL 02M2384S	Hg	11/22/02	12:19:50	-6.52E-05	-0.0035641	-0.5941488	166.69
LCS-02M2384	Hg	11/22/02	12:21:44	0.09564	5.2221409	870.530864	166.69
LCSD-02M2384	Hg	11/22/02	12:23:38	0.095691	5.2248958	870.990115	166.69
6141-1 S F=166.7	Hg	11/22/02	12:25:32	0.003096	0.1690327	28.1777524	166.69
6141-1 D F=166.7	Hg	11/22/02	12:27:27	0.003031	0.1655053	27.589734	166.69
6141-1 1/5 F=833.5	Hg	11/22/02	12:29:24	0.00067	0.0366087	30.5133235	833.5
6141-1 MS F=166.7	Hg	11/22/02	12:31:22	0.089459	4.8846124	814.264877	166.69
6141-1 MSD F=166.7	Hg	11/22/02	12:33:21	0.090575	4.9455624	824.425236	166.69
6141-1 PS F=166.7	Hg	11/22/02	12:35:16	0.09238	5.0441115	840.853373	166.69
6141-2 F=166.7	Hg	11/22/02	12:37:08	0.002508	0.1369657	22.8321856	166.69
CCV A1413	Hg	11/22/02	12:39:03	0.093922	5.1283287	5.1283287	1
CCB	Hg	11/22/02	12:40:58	3.11E-05	0.0016971	0.00169707	1
6141-3 F=166.7	Hg	11/22/02	12:42:51	0.003003	0.163965	27.3329585	166.69
6141-4 F=166.7	Hg	11/22/02	12:44:44	0.002024	0.1105116	18.4222757	166.69
6141-5 F=166.7	Hg	11/22/02	12:46:37	0.001692	0.0924089	15.4045626	166.69
6141-6 F=166.7	Hg	11/22/02	12:48:30	0.001591	0.0868977	14.4858523	166.69
6141-7 F=166.7	Hg	11/22/02	12:50:24	0.003167	0.1729242	28.8264717	166.69
6141-8 F=166.7	Hg	11/22/02	12:52:19	0.003081	0.1682364	28.0450075	166.69
6141-9 F=166.7	Hg	11/22/02	12:54:14	0.002432	0.1327904	22.1361624	166.69
6141-10 F=166.7	Hg	11/22/02	12:56:08	0.003863	0.2109199	35.1603495	166.69

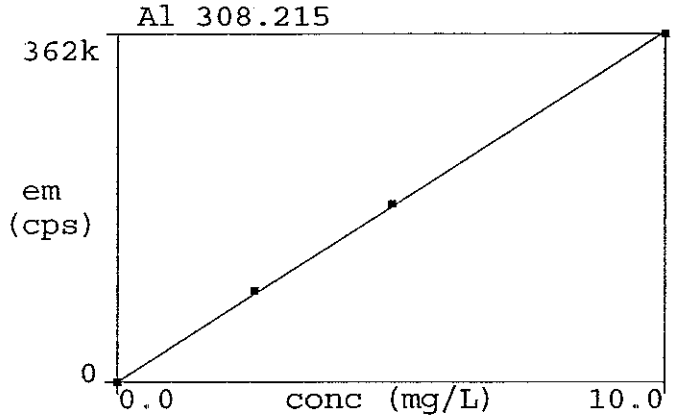
6141-11 F=166.7	Hg	11/22/02	12:58:03	0.002645	0.1444224	24.0752185	166.69	
6141-12 F=166.7	Hg	11/22/02	13:00:00	0.002991	0.1633011	27.2222867	166.69	
CCV A1413	Hg	11/22/02	13:01:59	0.095044	5.1896086	5.18960859	1	
CCB	Hg	11/22/02	13:03:54	-9.9E-06	-0.0005441	-0.0005441	1	
6141-13 F=166.7	Hg	11/22/02	13:05:49	0.00495	0.2702697	45.0539583	166.69	
6141-14 F=166.7	Hg	11/22/02	13:07:46	0.004345	0.2372569	39.5507177	166.69	
6141-15 F=166.7	Hg	11/22/02	13:09:44	0.004762	0.2600024	43.3424066	166.69	
6219-1 F=166.7	Hg	11/22/02	13:11:38	0.00094	0.0513463	8.55943434	166.69	
6252-5 F=166.7	Hg	11/22/02	13:13:29	0.003529	0.1927088	32.1245603	166.69	
6252-6 F=166.7	Hg	11/22/02	13:15:20	0.000898	0.0490288	8.17309707	166.69	
CCV A1413	Hg	11/22/02	13:59:11	0.09561	5.2205142	5.22051419	1	
CCB	Hg	11/22/02	14:01:06	2.77E-05	0.001512	0.00151199	1	
M-BL 02M2385S	Hg	11/22/02	14:02:58	-1.18E-05	-0.0006474	-0.1079238	166.69	
LCS-02M2385	Hg	11/22/02	14:04:51	0.090748	4.9550316	826.00376	166.69	
LCSD-02M2385	Hg	11/22/02	14:06:45	0.090365	4.9341107	822.516244	166.69	
6149-1 S F=166.7	Hg	11/22/02	14:08:38	0.003458	0.1888047	31.4737366	166.69	
6149-1 D F=166.7	Hg	11/22/02	14:10:31	0.003456	0.1886897	31.4545679	166.69	
6149-1 1/5 F=833.5	Hg	11/22/02	14:12:26	0.000712	0.0388624	32.3918444	833.5	
6149-1 MS F=166.7	Hg	11/22/02	14:14:21	0.096314	5.2589284	876.663347	166.69	
6149-1 MSD F=166.7	Hg	11/22/02	14:16:17	0.09253	5.0523235	842.222311	166.69	
6149-1 PS F=166.7	Hg	11/22/02	14:18:13	0.094463	5.1578731	859.817429	166.69	
6149-2 F=166.7	Hg	11/22/02	14:20:10	0.002273	0.1241103	20.6891861	166.69	
CCV A1413	Hg	11/22/02	14:22:08	0.092711	5.062203	5.06220301	1	
CCB	Hg	11/22/02	14:24:04	-1.52E-05	-0.0008317	-0.0008317	1	
6149-3 F=166.7	Hg	11/22/02	14:25:58	0.003901	0.2130102	35.5087956	166.69	
6149-4 F=166.7	Hg	11/22/02	14:27:56	0.001912	0.1044158	17.4061124	166.69	
6149-5 F=166.7	Hg	11/22/02	14:29:53	0.004373	0.2387891	39.806139	166.69	
6149-6 F=166.7	Hg	11/22/02	14:31:47	0.002624	0.1432524	23.8801664	166.69	
6149-7 F=166.7	Hg	11/22/02	14:33:38	0.001384	0.0755935	12.6014434	166.69	
6149-8 F=166.7	Hg	11/22/02	14:35:30	0.003737	0.2040581	34.0164819	166.69	
6149-9 F=166.7	Hg	11/22/02	14:37:21	0.002529	0.1380804	23.0180073	166.69	
6149-10 F=166.7	Hg	11/22/02	14:39:14	0.004003	0.2185516	36.4325477	166.69	
6149-11 F=166.7	Hg	11/22/02	14:41:07	0.002241	0.1223591	20.3972564	166.69	
6149-12 F=166.7	Hg	11/22/02	14:43:00	0.002421	0.1321859	22.0353907	166.69	
CCV A1413	Hg	11/22/02	14:44:57	0.093295	5.0940581	5.09405812	1	
CCB	Hg	11/22/02	14:46:52	3.71E-06	0.000203	0.00020298	1	
6149-13 F=166.7	Hg	11/22/02	14:48:44	0.005606	0.3061241	51.0308782	166.69	
6149-14 F=166.7	Hg	11/22/02	14:50:36	0.003331	0.1818675	30.317305	166.69	
6149-15 F=166.7	Hg	11/22/02	14:52:31	0.002279	0.1244454	20.745056	166.69	
6149-16 F=166.7	Hg	11/22/02	14:54:26	0.002777	0.1516134	25.2739515	166.69	
6252-1 F=166.7	Hg	11/22/02	14:56:22	0.004164	0.2273524	37.8996368	166.69	
6252-2 F=166.7	Hg	11/22/02	14:58:18	0.000842	0.0459786	7.66462626	166.69	
6252-3 F=166.7	Hg	11/22/02	15:00:15	0.006192	0.3380914	56.3598396	166.69	
6252-4 F=166.7	Hg	11/22/02	15:02:11	0.003494	0.1907794	31.8029175	166.69	
CCV A1413	Hg	11/22/02	15:19:58	0.096206	5.2530328	5.25303282	1	
CCB	Hg	11/22/02	15:21:53	5.69E-06	0.0003111	0.00031113	1	
M-BL 02M2386S	Hg	11/22/02	15:23:43	-3.93E-05	-0.0021462	-0.3577753	166.69	
LCS-02M2386	Hg	11/22/02	15:25:34	0.086361	4.7154706	786.068933	166.69	
LCSD-02M2386	Hg	11/22/02	15:27:26	0.086604	4.7287594	788.284183	166.69	
6148-1 S F=166.7	Hg	11/22/02	15:29:16	0.009906	0.5408683	90.1627511	166.69	
6148-1 D F=166.7	Hg	11/22/02	15:31:07	0.010562	0.5767322	96.1412625	166.69	
6148-1 1/5 F=833.5	Hg	11/22/02	15:32:59	0.001938	0.1058185	88.1997046	833.5	
6148-1 MS F=166.7	Hg	11/22/02	15:34:52	0.102421	5.5923559	932.245713	166.69	
6148-1 MSD F=166.7	Hg	11/22/02	15:36:46	0.098208	5.3623432	893.9026	166.69	
6148-1 PS F=166.7	Hg	11/22/02	15:38:39	0.099631	5.4400678	906.859293	166.69	
6148-2 F=166.7	Hg	11/22/02	15:40:33	0.008246	0.4502616	75.0586113	166.69	
CCV A1413	Hg	11/22/02	15:42:30	0.089702	4.8978946	4.89789456	1	
CCB	Hg	11/22/02	15:44:25	4.63E-06	0.0002531	0.00025312	1	
6148-3 F=166.7	Hg	11/22/02	15:46:19	0.00307	0.1676138	27.9412275	166.69	

Calibration

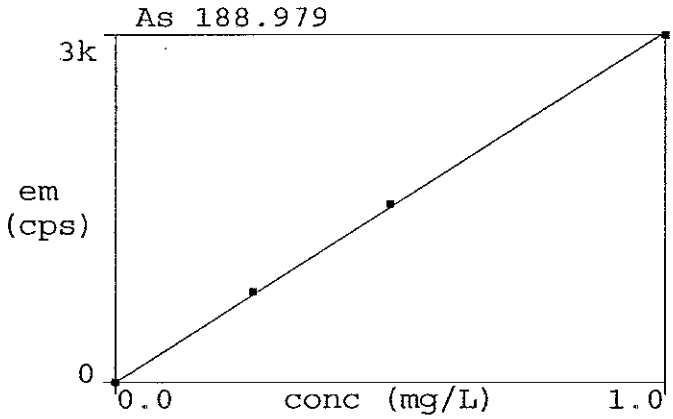
Method: TTLC
Result: 02M2368M



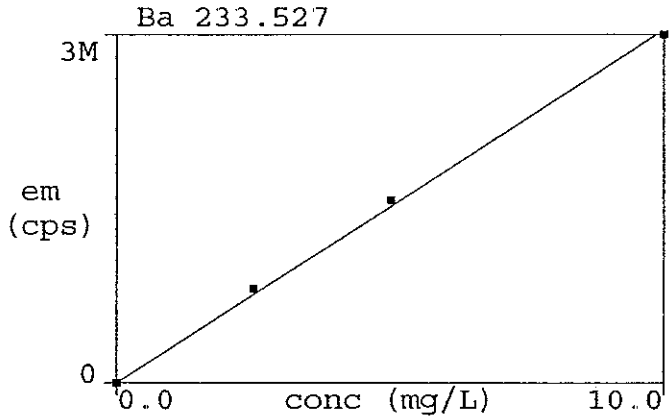
Calib.Eq'n: Linear-thru-Zero
1 Corr. Coeff.: 0.9996



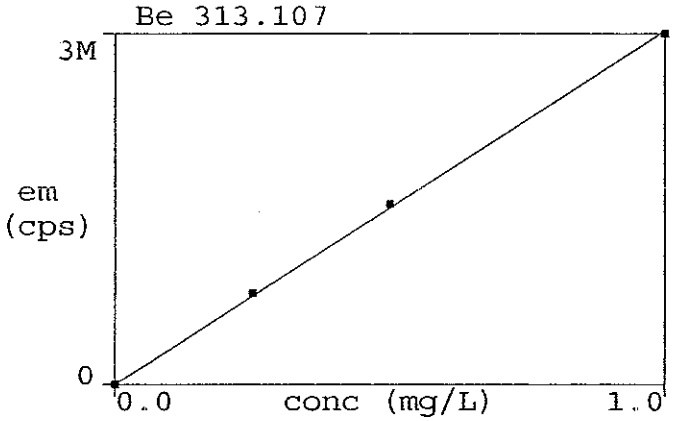
Calib.Eq'n: Linear-thru-Zero
2 Corr. Coeff.: 0.9998



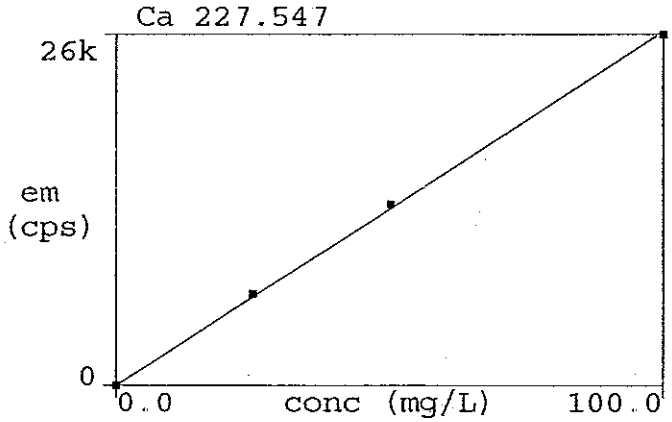
Calib.Eq'n: Linear-thru-Zero
3 Corr. Coeff.: 0.9998



Calib.Eq'n: Linear-thru-Zero
4 Corr. Coeff.: 0.9993



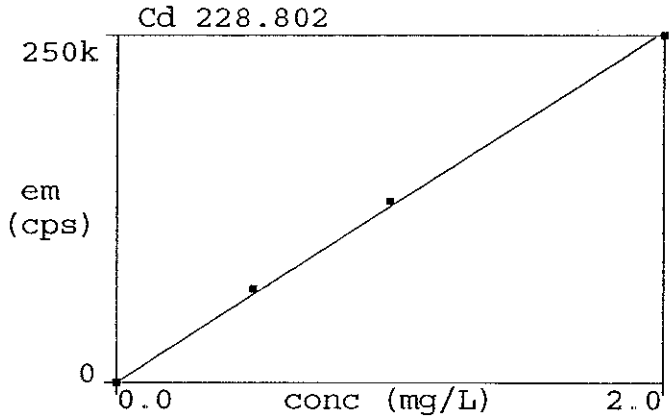
Calib.Eq'n: Linear-thru-Zero
5 Corr. Coeff.: 0.9998



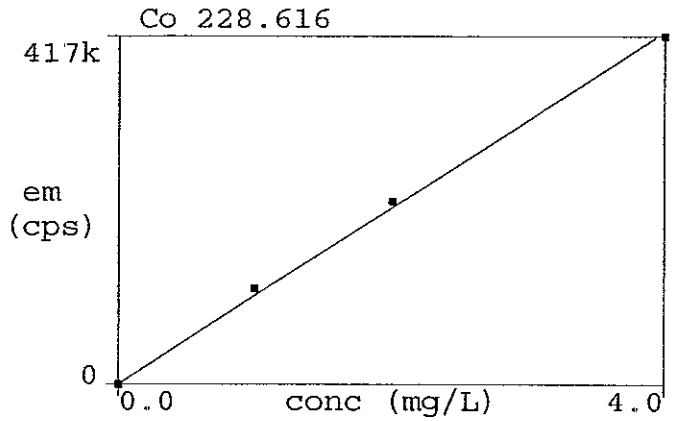
Calib.Eq'n: Linear-thru-Zero
6 Corr. Coeff.: 0.9997

Calibration

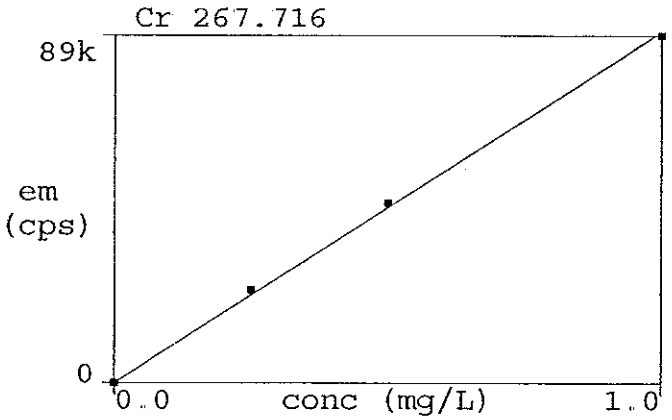
Method: TTLC
Result: 02M2368M



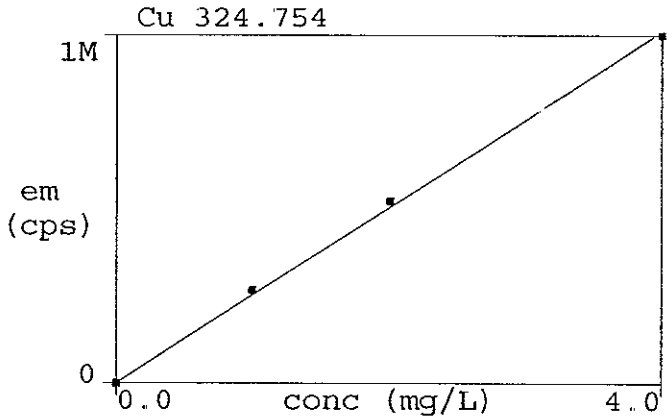
Calib.Eq'n: Linear-thru-Zero
7 Corr. Coeff.: 0.9994



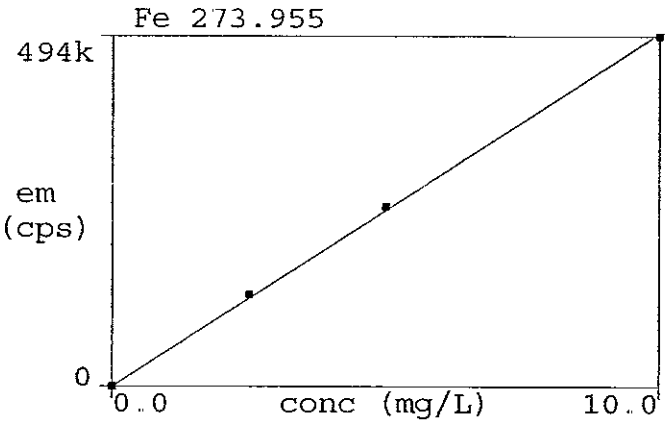
Calib.Eq'n: Linear-thru-Zero
8 Corr. Coeff.: 0.9992



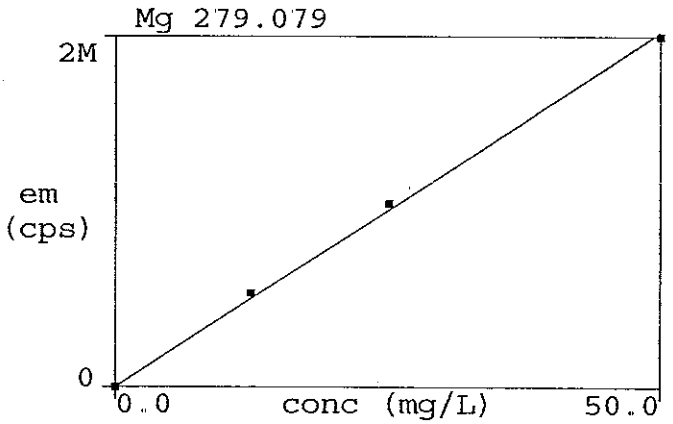
Calib.Eq'n: Linear-thru-Zero
9 Corr. Coeff.: 0.9995



Calib.Eq'n: Linear-thru-Zero
10 Corr. Coeff.: 0.9994



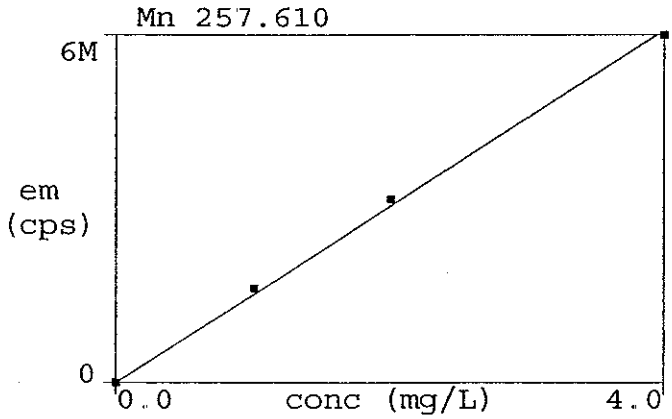
Calib.Eq'n: Linear-thru-Zero
11 Corr. Coeff.: 0.9997



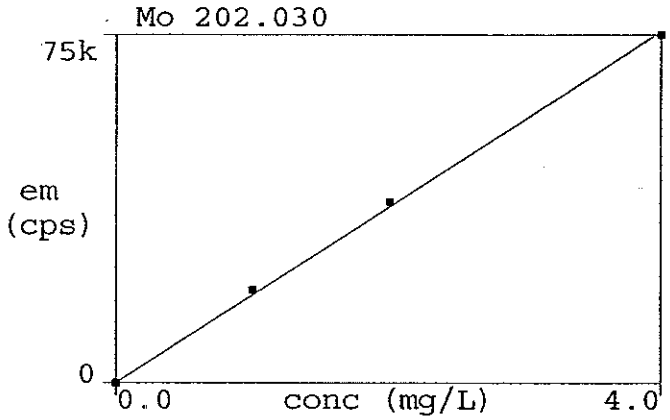
Calib.Eq'n: Linear-thru-Zero
12 Corr. Coeff.: 0.9993

Calibration

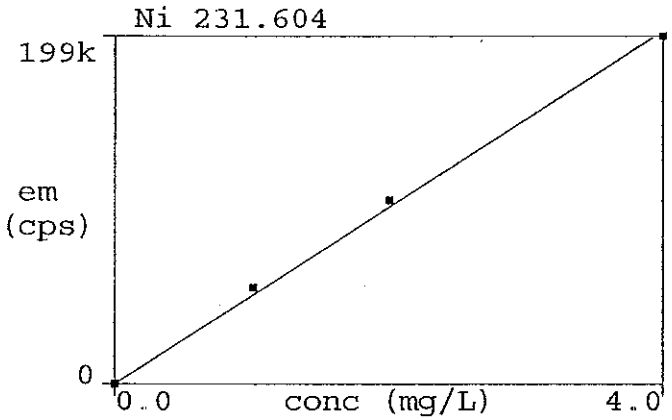
Method: TTLC
Result: 02M2368M



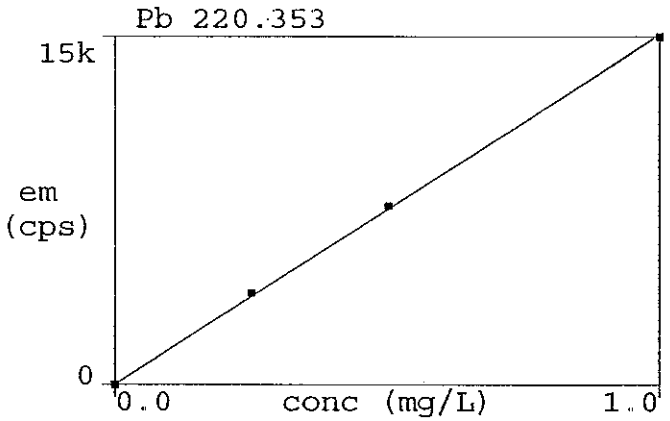
Calib. Eq'n: Linear-thru-Zero
13 Corr. Coeff.: 0.9992



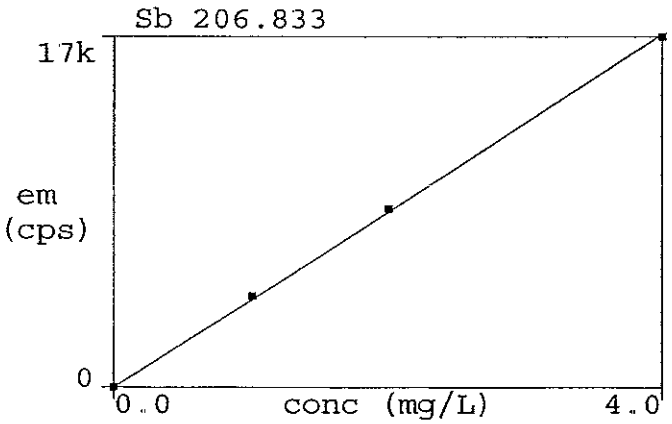
Calib. Eq'n: Linear-thru-Zero
14 Corr. Coeff.: 0.9995



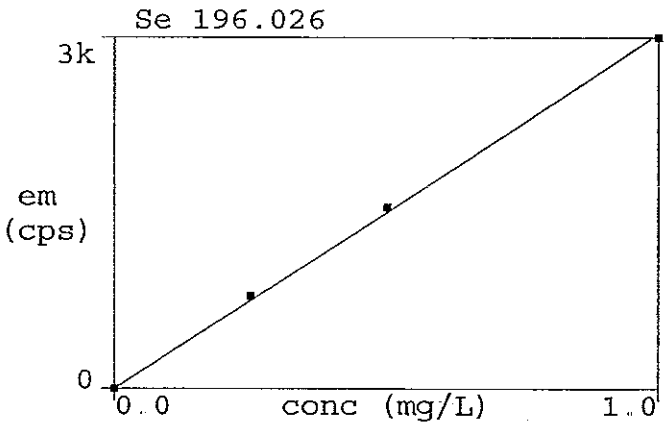
Calib. Eq'n: Linear-thru-Zero
15 Corr. Coeff.: 0.9991



Calib. Eq'n: Linear-thru-Zero
16 Corr. Coeff.: 0.9998



Calib. Eq'n: Linear-thru-Zero
17 Corr. Coeff.: 0.9998

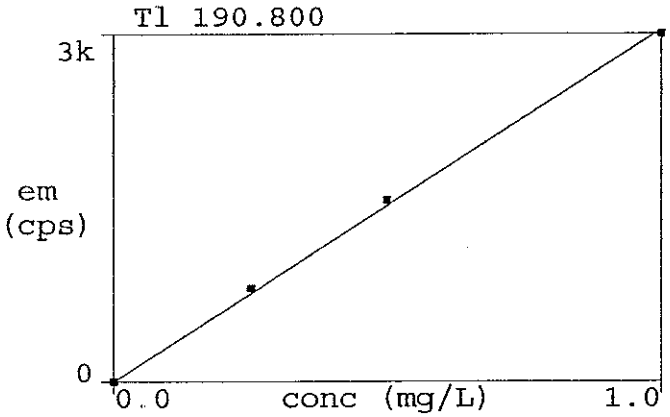


Calib. Eq'n: Linear-thru-Zero
18 Corr. Coeff.: 0.9996

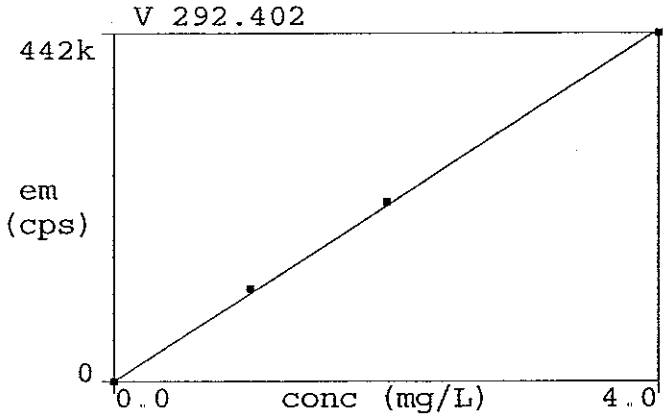
012261

Calibration

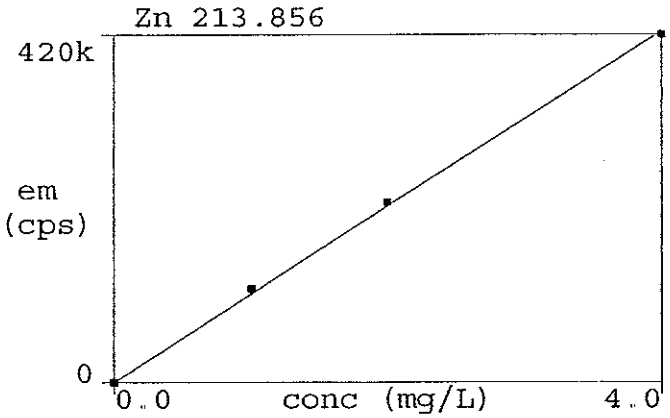
Method: TTLC
Result: 02M2368M



Calib.Eq'n: Linear-thru-Zero
19 Corr. Coeff.: 0.9994



Calib.Eq'n: Linear-thru-Zero
20 Corr. Coeff.: 0.9996



Calib.Eq'n: Linear-thru-Zero
21 Corr. Coeff.: 0.9996

Method: TTLC
Results: 02M2368M
Sample Info: 02m2368m
Method Description: 6010B/200.7--TILC 11/20/02

IEC: 02miecm.iec
Spectra Stored: Yes
User: User1

MSF:
Method Stored: Yes
Date: 11/21/02 11:01:58 AM

Replicate Data
ID: Calib Blank
Date: 11/21/02 11:03:18 AM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units
1	Ag 328.068	-1025.0	-1025.0	0	mg/L
1	Al 308.215	4540.7	4540.7	0	mg/L
1	As 188.979	69.8	69.8	0	mg/L
1	Ba 233.527	-811.1	-811.1	0	mg/L
1	Be 313.107	-400.2	-400.2	0	mg/L
1	Ca 227.547	270.3	270.3	0	mg/L
1	Cd 228.802	86.3	86.3	0	mg/L
1	Co 228.616	-411.4	-411.4	0	mg/L
1	Cr 267.716	-127.3	-127.3	0	mg/L
1	Cu 324.754	2313.7	2313.7	0	mg/L
1	Fe 273.955	3317.1	3317.1	0	mg/L
1	Mg 279.079	672.0	672.0	0	mg/L
1	Mn 257.610	1086.8	1086.8	0	mg/L
1	Mo 202.030	-30.6	-30.6	0	mg/L
1	Ni 231.604	297.7	297.7	0	mg/L
1	Pb 220.353	198.8	198.8	0	mg/L
1	Sb 206.833	67.0	67.0	0	mg/L
1	Se 196.026	85.8	85.8	0	mg/L
1	Tl 190.800	189.4	189.4	0	mg/L
1	V 292.402	184.7	184.7	0	mg/L
1	Zn 213.856	-575.8	-575.8	0	mg/L
2	Ag 328.068	-1163.1	-1163.1	0	mg/L
2	Al 308.215	4609.7	4609.7	0	mg/L
2	As 188.979	66.9	66.9	0	mg/L
2	Ba 233.527	-918.2	-918.2	0	mg/L
2	Be 313.107	-365.7	-365.7	0	mg/L
2	Ca 227.547	314.7	314.7	0	mg/L
2	Cd 228.802	93.2	93.2	0	mg/L
2	Co 228.616	-462.0	-462.0	0	mg/L
2	Cr 267.716	-151.0	-151.0	0	mg/L
2	Cu 324.754	2214.7	2214.7	0	mg/L
2	Fe 273.955	2850.1	2850.1	0	mg/L
2	Mg 279.079	583.5	583.5	0	mg/L
2	Mn 257.610	1046.9	1046.9	0	mg/L
2	Mo 202.030	-24.7	-24.7	0	mg/L
2	Ni 231.604	230.0	230.0	0	mg/L
2	Pb 220.353	183.2	183.2	0	mg/L
2	Sb 206.833	59.0	59.0	0	mg/L
2	Se 196.026	81.2	81.2	0	mg/L
2	Tl 190.800	193.8	193.8	0	mg/L
2	V 292.402	150.9	150.9	0	mg/L
2	Zn 213.856	-579.3	-579.3	0	mg/L
3	Ag 328.068	-1033.8	-1033.8	0	mg/L
3	Al 308.215	4642.4	4642.4	0	mg/L
3	As 188.979	71.7	71.7	0	mg/L
3	Ba 233.527	-867.5	-867.5	0	mg/L
3	Be 313.107	-476.7	-476.7	0	mg/L
3	Ca 227.547	265.3	265.3	0	mg/L
3	Cd 228.802	89.7	89.7	0	mg/L
3	Co 228.616	-376.7	-376.7	0	mg/L
3	Cr 267.716	-201.1	-201.1	0	mg/L
3	Cu 324.754	2332.4	2332.4	0	mg/L
3	Fe 273.955	2802.4	2802.4	0	mg/L
3	Mg 279.079	532.9	532.9	0	mg/L
3	Mn 257.610	1228.5	1228.5	0	mg/L
3	Mo 202.030	-30.3	-30.3	0	mg/L
3	Ni 231.604	297.9	297.9	0	mg/L

3	Pb 220.353	172.7	172.7	0 mg/L
3	Sb 206.833	55.9	55.9	0 mg/L
3	Se 196.026	85.9	85.9	0 mg/L
3	Tl 190.800	182.3	182.3	0 mg/L
3	V 292.402	152.6	152.6	0 mg/L
3	Zn 213.856	-595.1	-595.1	0 mg/L

Mean Data

ID: Calib Blank Seq. No.: 1 A/S Pos: 1
Data: Original Date: 11/21/02 11:03:18 AM

Element	Mean Corr. Intensity	Std.Dev.	RSD	Conc.	Calib Units
g 328.068	-1074.0	77.29	7.20%	0	mg/L
l 308.215	4597.6	51.90	1.13%	0	mg/L
As 188.979	69.4	2.42	3.49%	0	mg/L
Ba 233.527	-865.6	53.60	6.19%	0	mg/L
e 313.107	-414.2	56.81	13.72%	0	mg/L
a 227.547	283.5	27.21	9.60%	0	mg/L
Cd 228.802	89.8	3.45	3.84%	0	mg/L
Co 228.616	-416.7	42.88	10.29%	0	mg/L
r 267.716	-159.8	37.69	23.59%	0	mg/L
u 324.754	2286.9	63.28	2.77%	0	mg/L
re 273.955	2989.8	284.38	9.51%	0	mg/L
Mg 279.079	596.1	70.41	11.81%	0	mg/L
n 257.610	1120.7	95.42	8.51%	0	mg/L
o 202.030	-28.5	3.31	11.60%	0	mg/L
i 231.604	275.2	39.13	14.22%	0	mg/L
Pb 220.353	184.9	13.14	7.11%	0	mg/L
b 206.833	60.6	5.74	9.47%	0	mg/L
e 196.026	84.3	2.70	3.20%	0	mg/L
l 190.800	188.5	5.81	3.08%	0	mg/L
V 292.402	162.7	19.06	11.71%	0	mg/L
Zn 213.856	-583.4	10.25	1.76%	0	mg/L

eplicate Data

ID: STD1 1346A Date: 11/21/02 11:06:51 AM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units
1	Ag 328.068	400148.7	401222.6	2.0000	mg/L
1	Al 308.215	369295.5	364697.9	10.00	mg/L
1	As 188.979	2667.7	2598.3	1.000	mg/L
1	Ba 233.527	3481527.0	3482392.6	10.0000	mg/L
1	Be 313.107	2744519.1	2744933.3	1.00000	mg/L
1	Ca 227.547	26348.2	26064.7	100.0	mg/L
1	Cd 228.802	250748.1	250658.3	2.000	mg/L
1	Co 228.616	417241.8	417658.5	4.0000	mg/L
1	Cr 267.716	89862.7	90022.4	1.0000	mg/L
1	Cu 324.754	1260834.7	1258547.8	4.0000	mg/L
1	Fe 273.955	496564.6	493574.8	10.00	mg/L
1	Mg 279.079	1571948.2	1571352.1	50.00	mg/L
1	Mn 257.610	6226975.4	6225854.7	4.0000	mg/L
1	Mo 202.030	74748.5	74777.0	4.000	mg/L
1	Ni 231.604	199252.0	198976.8	4.0000	mg/L
1	Pb 220.353	15018.7	14833.8	1.000	mg/L
1	Sb 206.833	16667.7	16607.1	4.000	mg/L
1	Se 196.026	2792.3	2708.0	1.000	mg/L
1	Tl 190.800	3572.7	3384.2	1.000	mg/L
1	V 292.402	444467.0	444304.2	4.0000	mg/L
1	Zn 213.856	419061.5	419644.9	4.000	mg/L
2	Ag 328.068	396263.9	397337.9	2.0000	mg/L
2	Al 308.215	365080.7	360483.2	10.00	mg/L
2	As 188.979	2642.7	2573.2	1.000	mg/L
2	Ba 233.527	3546294.1	3547159.7	10.0000	mg/L
2	Be 313.107	2800716.3	2801130.5	1.00000	mg/L
2	Ca 227.547	25848.5	25565.0	100.0	mg/L
2	Cd 228.802	248235.9	248146.2	2.000	mg/L
2	Co 228.616	413705.7	414122.4	4.0000	mg/L
2	Cr 267.716	88706.5	88866.3	1.0000	mg/L

2	Cu 324.754	1252485.2	1250198.3	4.0000 mg/L
2	Fe 273.955	498376.6	495386.8	10.00 mg/L
2	Mg 279.079	1557508.6	1556912.5	50.00 mg/L
2	Mn 257.610	6368363.5	6367242.8	4.0000 mg/L
2	Mo 202.030	74134.4	74162.9	4.000 mg/L
2	Ni 231.604	198520.3	198245.1	4.0000 mg/L
2	Pb 220.353	15012.2	14827.3	1.000 mg/L
2	Sb 206.833	16657.5	16596.8	4.000 mg/L
2	Se 196.026	2812.1	2727.8	1.000 mg/L
2	Tl 190.800	3586.2	3397.7	1.000 mg/L
2	V 292.402	437862.8	437700.1	4.0000 mg/L
2	Zn 213.856	416624.0	417207.4	4.000 mg/L
3	Ag 328.068	399407.6	400481.5	2.0000 mg/L
3	Al 308.215	366860.2	362262.6	10.00 mg/L
3	As 188.979	2656.3	2586.8	1.000 mg/L
3	Ba 233.527	3425911.4	3426777.0	10.0000 mg/L
3	Be 313.107	2700522.7	2700936.9	1.00000 mg/L
3	Ca 227.547	26447.0	26163.5	100.0 mg/L
3	Cd 228.802	252733.4	252643.7	2.000 mg/L
3	Co 228.616	419806.3	420223.0	4.0000 mg/L
3	Cr 267.716	89368.8	89528.5	1.0000 mg/L
3	Cu 324.754	1269745.5	1267458.5	4.0000 mg/L
3	Fe 273.955	495024.7	492034.9	10.00 mg/L
3	Mg 279.079	1575121.7	1574525.6	50.00 mg/L
3	Mn 257.610	6193016.5	6191895.7	4.0000 mg/L
3	Mo 202.030	75186.2	75214.7	4.000 mg/L
3	Ni 231.604	201332.5	201057.3	4.0000 mg/L
3	Pb 220.353	15038.2	14853.4	1.000 mg/L
3	Sb 206.833	16670.2	16609.6	4.000 mg/L
3	Se 196.026	2823.3	2739.0	1.000 mg/L
3	Tl 190.800	3603.4	3414.9	1.000 mg/L
3	V 292.402	443993.9	443831.2	4.0000 mg/L
3	Zn 213.856	423034.4	423617.8	4.000 mg/L

Mean Data ----------

ID: STD1 1346A Seq. No.: 2 A/S Pos: 2
Data: Original Date: 11/21/02 11:06:51 AM

Element	Mean Corr. Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	399680.7	2062.51	0.52%	2.0000	mg/L
Al 308.215	362481.2	2115.86	0.58%	10.00	mg/L
As 188.979	2586.1	12.56	0.49%	1.000	mg/L
Ba 233.527	3485443.1	60249.29	1.73%	10.0000	mg/L
Be 313.107	2749000.2	50220.48	1.83%	1.00000	mg/L
Ca 227.547	25931.1	320.82	1.24%	100.0	mg/L
Cd 228.802	250482.7	2253.88	0.90%	2.000	mg/L
Co 228.616	417334.6	3063.14	0.73%	4.0000	mg/L
Cr 267.716	89472.4	580.10	0.65%	1.0000	mg/L
Cu 324.754	1258734.9	8631.66	0.69%	4.0000	mg/L
Fe 273.955	493665.5	1677.78	0.34%	10.00	mg/L
Mg 279.079	1567596.7	9387.89	0.60%	50.00	mg/L
Mn 257.610	6261664.4	92996.78	1.49%	4.0000	mg/L
Mo 202.030	74718.2	528.36	0.71%	4.000	mg/L
Ni 231.604	199426.4	1459.02	0.73%	4.0000	mg/L
Pb 220.353	14838.1	13.57	0.09%	1.000	mg/L
Sb 206.833	16604.5	6.75	0.04%	4.000	mg/L
Se 196.026	2725.0	15.68	0.58%	1.000	mg/L
Tl 190.800	3398.9	15.39	0.45%	1.000	mg/L
V 292.402	441945.2	3683.95	0.83%	4.0000	mg/L
Zn 213.856	420156.7	3235.71	0.77%	4.000	mg/L

Replicate Data ----------

ID: STD2 1346B Date: 11/21/02 11:10:27 AM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units
1	Ag 328.068	209176.9	210250.9	1.0000	mg/L
1	Al 308.215	193515.3	188917.8	5.000	mg/L
1	As 188.979	1393.1	1323.7	0.500	mg/L

012264-A

1	Ba 233.527	1827558.3	1828423.9	5.0000	mg/L
1	Be 313.107	1415411.0	1415825.2	0.50000	mg/L
1	Ca 227.547	13944.8	13661.3	50.00	mg/L
1	Cd 228.802	133284.9	133195.2	1.000	mg/L
1	Co 228.616	223186.5	223603.2	2.0000	mg/L
1	Cr 267.716	47067.3	47227.1	0.5000	mg/L
1	Cu 324.754	659648.1	657361.2	2.0000	mg/L
1	Fe 273.955	262462.3	259472.4	5.000	mg/L
1	Mg 279.079	823762.7	823166.5	25.000	mg/L
1	Mn 257.610	3301186.3	3300065.6	2.0000	mg/L
1	Mo 202.030	39598.1	39626.6	2.000	mg/L
1	Ni 231.604	107704.7	107429.5	2.0000	mg/L
1	Pb 220.353	7805.4	7620.5	0.500	mg/L
1	Sb 206.833	8558.1	8497.5	2.000	mg/L
1	Se 196.026	1497.6	1413.3	0.5000	mg/L
1	Tl 190.800	1966.4	1777.9	0.500	mg/L
1	V 292.402	232061.5	231898.7	2.0000	mg/L
1	Zn 213.856	220891.3	221474.7	2.000	mg/L
2	Ag 328.068	205103.3	206177.2	1.0000	mg/L
2	Al 308.215	188915.7	184318.1	5.000	mg/L
2	As 188.979	1403.3	1333.8	0.500	mg/L
2	Ba 233.527	1809148.8	1810014.4	5.0000	mg/L
2	Be 313.107	1392048.5	1392462.7	0.50000	mg/L
2	Ca 227.547	13618.3	13334.8	50.00	mg/L
2	Cd 228.802	130296.4	130206.7	1.000	mg/L
2	Co 228.616	218244.5	218661.2	2.0000	mg/L
2	Cr 267.716	46391.3	46551.0	0.5000	mg/L
2	Cu 324.754	652818.3	650531.4	2.0000	mg/L
2	Fe 273.955	255860.1	252870.3	5.000	mg/L
2	Mg 279.079	813324.2	812728.1	25.000	mg/L
2	Mn 257.610	3261797.7	3260677.0	2.0000	mg/L
2	Mo 202.030	38591.3	38619.8	2.000	mg/L
2	Ni 231.604	104525.2	104250.0	2.0000	mg/L
2	Pb 220.353	7794.3	7609.4	0.500	mg/L
2	Sb 206.833	8591.7	8531.0	2.000	mg/L
2	Se 196.026	1506.2	1422.0	0.5000	mg/L
2	Tl 190.800	1955.8	1767.3	0.500	mg/L
2	V 292.402	228607.2	228444.4	2.0000	mg/L
2	Zn 213.856	215445.8	216029.2	2.000	mg/L
3	Ag 328.068	202502.6	203576.6	1.0000	mg/L
3	Al 308.215	187681.1	183083.5	5.000	mg/L
3	As 188.979	1398.4	1329.0	0.500	mg/L
3	Ba 233.527	1855163.3	1856028.9	5.0000	mg/L
3	Be 313.107	1442309.6	1442723.8	0.50000	mg/L
3	Ca 227.547	13450.5	13167.0	50.00	mg/L
3	Cd 228.802	128429.5	128339.8	1.000	mg/L
3	Co 228.616	214212.2	214628.9	2.0000	mg/L
3	Cr 267.716	45453.5	45613.3	0.5000	mg/L
3	Cu 324.754	672028.3	669741.4	2.0000	mg/L
3	Fe 273.955	254403.5	251413.7	5.000	mg/L
3	Mg 279.079	834150.9	833554.8	25.000	mg/L
3	Mn 257.610	3327908.6	3326787.9	2.0000	mg/L
3	Mo 202.030	38189.4	38217.9	2.000	mg/L
3	Ni 231.604	103847.3	103572.1	2.0000	mg/L
3	Pb 220.353	7780.4	7595.5	0.500	mg/L
3	Sb 206.833	8584.4	8523.8	2.000	mg/L
3	Se 196.026	1493.8	1409.5	0.5000	mg/L
3	Tl 190.800	1968.4	1779.8	0.500	mg/L
3	V 292.402	223691.9	223529.2	2.0000	mg/L
3	Zn 213.856	212776.3	213359.7	2.000	mg/L

ean Data

D: STD2 1346B — Seq. No.: 3 — A/S Pos: 3

Data: Original — Date: 11/21/02 11:10:27 AM

lement	Mean Corr. Intensity	Std.Dev.	RSD	Conc.	Calib Units
g 328.068	206668.2	3364.15	1.63%	1.0000	mg/L
Al 308.215	185439.8	3074.62	1.66%	5.000	mg/L
s 188.979	1328.8	5.06	0.38%	0.500	mg/L

Ba 233.527	1831489.1	23159.92	1.26%	5.0000 mg/L
Be 313.107	1417003.9	25151.23	1.77%	0.50000 mg/L
Ca 227.547	13387.7	251.36	1.88%	50.00 mg/L
Cd 228.802	130580.5	2449.18	1.88%	1.000 mg/L
Co 228.616	218964.4	4494.82	2.05%	2.0000 mg/L
Cr 267.716	46463.8	810.41	1.74%	0.5000 mg/L
Cu 324.754	659211.3	9737.70	1.48%	2.0000 mg/L
Fe 273.955	254585.5	4294.46	1.69%	5.000 mg/L
Mg 279.079	823149.8	10413.37	1.27%	25.000 mg/L
Mn 257.610	3295843.5	33257.08	1.01%	2.0000 mg/L
Mo 202.030	38821.4	725.64	1.87%	2.000 mg/L
Ni 231.604	105083.8	2059.48	1.96%	2.0000 mg/L
Pb 220.353	7608.5	12.49	0.16%	0.500 mg/L
Sb 206.833	8517.4	17.65	0.21%	2.000 mg/L
Se 196.026	1414.9	6.39	0.45%	0.5000 mg/L
Tl 190.800	1775.0	6.74	0.38%	0.500 mg/L
V 292.402	227957.4	4205.98	1.85%	2.0000 mg/L
Zn 213.856	216954.5	4135.85	1.91%	2.000 mg/L

Replicate Data ----------

ID: STD3 1346C Date: 11/21/02 11:14:00 AM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units
1	Ag 328.068	106381.1	107455.0	0.5000	mg/L
1	Al 308.215	100542.5	95944.9	2.500	mg/L
1	As 188.979	755.7	686.3	0.250	mg/L
1	Ba 233.527	954470.8	955336.4	2.5000	mg/L
1	Be 313.107	722920.2	723334.4	0.25000	mg/L
1	Ca 227.547	7085.6	6802.1	25.00	mg/L
1	Cd 228.802	68390.8	68301.1	0.500	mg/L
1	Co 228.616	115784.3	116201.0	1.0000	mg/L
1	Cr 267.716	24225.5	24385.3	0.2500	mg/L
1	Cu 324.754	343221.2	340934.3	1.0000	mg/L
1	Fe 273.955	135001.9	132012.1	2.500	mg/L
1	Mg 279.079	426284.1	425688.0	12.500	mg/L
1	Mn 257.610	1721541.1	1720420.3	1.0000	mg/L
1	Mo 202.030	19907.4	19935.9	1.000	mg/L
1	Ni 231.604	55647.9	55372.7	1.0000	mg/L
1	Pb 220.353	4098.8	3913.9	0.250	mg/L
1	Sb 206.833	4436.6	4376.0	1.000	mg/L
1	Se 196.026	806.4	722.1	0.250	mg/L
1	Tl 190.800	1104.8	916.3	0.250	mg/L
1	V 292.402	120595.1	120432.4	1.0000	mg/L
1	Zn 213.856	112474.2	113057.6	1.000	mg/L
2	Ag 328.068	102949.8	104023.7	0.5000	mg/L
2	Al 308.215	97600.9	93003.4	2.500	mg/L
2	As 188.979	740.3	670.8	0.250	mg/L
2	Ba 233.527	925363.6	926229.2	2.5000	mg/L
2	Be 313.107	707766.4	708180.6	0.25000	mg/L
2	Ca 227.547	6989.1	6705.6	25.00	mg/L
2	Cd 228.802	65839.4	65749.6	0.500	mg/L
2	Co 228.616	111440.9	111857.6	1.0000	mg/L
2	Cr 267.716	23338.2	23497.9	0.2500	mg/L
2	Cu 324.754	331966.2	329679.3	1.0000	mg/L
2	Fe 273.955	131601.8	128612.0	2.500	mg/L
2	Mg 279.079	414611.5	414015.4	12.500	mg/L
2	Mn 257.610	1659841.6	1658720.9	1.0000	mg/L
2	Mo 202.030	19744.3	19772.8	1.000	mg/L
2	Ni 231.604	54362.8	54087.6	1.0000	mg/L
2	Pb 220.353	4038.2	3853.3	0.250	mg/L
2	Sb 206.833	4372.6	4311.9	1.000	mg/L
2	Se 196.026	812.6	728.3	0.250	mg/L
2	Tl 190.800	1092.9	904.4	0.250	mg/L
2	V 292.402	114862.7	114700.0	1.0000	mg/L
2	Zn 213.856	109558.6	110142.0	1.000	mg/L
3	Ag 328.068	105718.3	106792.3	0.5000	mg/L
3	Al 308.215	99642.2	95044.6	2.500	mg/L
3	As 188.979	742.8	673.4	0.250	mg/L

3	Ba 233.527	943367.8	944233.4	2.5000 mg/L
3	Be 313.107	718683.2	719097.4	0.25000 mg/L
3	Ca 227.547	7076.4	6792.9	25.00 mg/L
3	Cd 228.802	67912.9	67823.2	0.500 mg/L
3	Co 228.616	114355.5	114772.2	1.0000 mg/L
3	Cr 267.716	23874.2	24034.0	0.2500 mg/L
3	Cu 324.754	340814.6	338527.7	1.0000 mg/L
3	Fe 273.955	133643.2	130653.4	2.500 mg/L
3	Mg 279.079	422404.6	421808.5	12.500 mg/L
3	Mn 257.610	1703410.9	1702290.2	1.0000 mg/L
3	Mo 202.030	20017.6	20046.1	1.000 mg/L
3	Ni 231.604	55442.3	55167.1	1.0000 mg/L
3	Pb 220.353	4096.7	3911.8	0.250 mg/L
3	Sb 206.833	4416.5	4355.9	1.000 mg/L
3	Se 196.026	807.7	723.4	0.250 mg/L
3	Tl 190.800	1103.1	914.6	0.250 mg/L
3	V 292.402	118408.3	118245.5	1.0000 mg/L
3	Zn 213.856	112579.9	113163.3	1.000 mg/L

Mean Data ----------

ID: STD3 1346C Seq. No.: 4 A/S Pos: 4
Data: Original Date: 11/21/02 11:14:00 AM

Element	Mean Corr. Intensity	Std.Dev.	RSD	Conc.	Calib Units
g 328.068	106090.3	1820.17	1.72%	0.5000	mg/L
l 308.215	94664.3	1507.20	1.59%	2.500	mg/L
s 188.979	676.8	8.29	1.22%	0.250	mg/L
Ba 233.527	941933.0	14689.30	1.56%	2.5000	mg/L
e 313.107	716870.8	7818.43	1.09%	0.25000	mg/L
a 227.547	6766.9	53.27	0.79%	25.00	mg/L
d 228.802	67291.3	1356.34	2.02%	0.500	mg/L
Co 228.616	114277.0	2213.63	1.94%	1.0000	mg/L
r 267.716	23972.4	446.85	1.86%	0.2500	mg/L
u 324.754	336380.4	5926.81	1.76%	1.0000	mg/L
e 273.955	130425.8	1711.45	1.31%	2.500	mg/L
Mg 279.079	420504.0	5944.64	1.41%	12.500	mg/L
Mn 257.610	1693810.5	31711.73	1.87%	1.0000	mg/L
o 202.030	19918.3	137.51	0.69%	1.000	mg/L
i 231.604	54875.8	690.30	1.26%	1.0000	mg/L
Pb 220.353	3893.0	34.44	0.88%	0.250	mg/L
Sb 206.833	4347.9	32.76	0.75%	1.000	mg/L
e 196.026	724.6	3.29	0.45%	0.250	mg/L
l 190.800	911.8	6.45	0.71%	0.250	mg/L
v 292.402	117792.6	2892.91	2.46%	1.0000	mg/L
Zn 213.856	112121.0	1714.68	1.53%	1.000	mg/L

alibration Summary ----------

ethod: TTLC Date: 11/21/02 11:14:59 AM

lement	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
Ag 328.068	3	Linear-thru-Zero	0.0	201728.5	0.00000	0.999629
l 308.215	3	Linear-thru-Zero	0.0	36485.1	0.00000	0.999817
s 188.979	3	Linear-thru-Zero	0.0	2605.5	0.00000	0.999770
a 233.527	3	Linear-thru-Zero	0.0	353270.2	0.00000	0.999272
Be 313.107	3	Linear-thru-Zero	0.0	2770834.2	0.00000	0.999755
a 227.547	3	Linear-thru-Zero	0.0	261.5	0.00000	0.999735
d 228.802	3	Linear-thru-Zero	0.0	126703.2	0.00000	0.999443
o 228.616	3	Linear-thru-Zero	0.0	105787.8	0.00000	0.999180
Cr 267.716	3	Linear-thru-Zero	0.0	90436.1	0.00000	0.999515
Cu 324.754	3	Linear-thru-Zero	0.0	318559.2	0.00000	0.999411
e 273.955	3	Linear-thru-Zero	0.0	49795.4	0.00000	0.999686
g 279.079	3	Linear-thru-Zero	0.0	31760.7	0.00000	0.999341
n 257.610	3	Linear-thru-Zero	0.0	1587245.5	0.00000	0.999235
Mo 202.030	3	Linear-thru-Zero	0.0	18877.8	0.00000	0.999543
i 231.604	3	Linear-thru-Zero	0.0	50607.1	0.00000	0.999058
b 220.353	3	Linear-thru-Zero	0.0	14945.2	0.00000	0.999777
b 206.833	3	Linear-thru-Zero	0.0	4181.0	0.00000	0.999783
Se 196.026	3	Linear-thru-Zero	0.0	2753.2	0.00000	0.999567
l 190.800	3	Linear-thru-Zero	0.0	3439.5	0.00000	0.999429

V 292.402	3	Linear-thru-Zero	0.0	111499.4	0.00000	0.999629
Zn 213.856	3	Linear-thru-Zero	0.0	106031.3	0.00000	0.999610

Replicate Data ----------
ID: ICV 1379A Date: 11/21/02 11:17:39 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	401722.2	402796.1	1.997	mg/L		
1	Al 308.215	368702.4	364104.8	9.980	mg/L		
1	As 188.979	2691.0	2621.6	1.017	mg/L		
1	Ba 233.527	3444801.6	3445667.2	9.754	mg/L		
1	Be 313.107	2712524.2	2712938.4	0.9791	mg/L		
1	Ca 227.547	26348.2	26064.7	99.69	mg/L		
1	Cd 228.802	252726.5	252636.8	1.994	mg/L		
1	Co 228.616	419525.5	419942.2	3.970	mg/L		
1	Cr 267.716	89989.8	90149.6	0.9968	mg/L		
1	Cu 324.754	1268126.1	1265839.2	3.974	mg/L		
1	Fe 273.955	493116.0	490126.1	9.843	mg/L		
1	Mg 279.079	1571204.3	1570608.2	49.45	mg/L		
1	Mn 257.610	6179472.5	6178351.8	3.892	mg/L		
1	Mo 202.030	74591.8	74620.3	3.953	mg/L		
1	Ni 231.604	199723.1	199447.9	3.941	mg/L		
1	Pb 220.353	15115.0	14930.1	0.9990	mg/L		
1	Sb 206.833	16910.2	16849.5	4.001	mg/L		
1	Se 196.026	2825.7	2741.4	0.9987	mg/L		
1	Tl 190.800	3603.1	3414.5	0.9883	mg/L		
1	V 292.402	444661.9	444499.2	3.987	mg/L		
1	Zn 213.856	420234.0	420817.4	3.969	mg/L		
2	Ag 328.068	398252.0	399325.9	1.980	mg/L		
2	Al 308.215	367921.9	363324.4	9.958	mg/L		
2	As 188.979	2652.8	2583.4	1.002	mg/L		
2	Ba 233.527	3483257.0	3484122.6	9.862	mg/L		
2	Be 313.107	2750715.0	2751129.2	0.9929	mg/L		
2	Ca 227.547	26100.4	25816.9	98.74	mg/L		
2	Cd 228.802	250783.2	250693.5	1.979	mg/L		
2	Co 228.616	417247.7	417664.4	3.948	mg/L		
2	Cr 267.716	88793.3	88953.1	0.9836	mg/L		
2	Cu 324.754	1265313.5	1263026.6	3.965	mg/L		
2	Fe 273.955	492071.4	489081.6	9.822	mg/L		
2	Mg 279.079	1570100.5	1569504.4	49.42	mg/L		
2	Mn 257.610	6265085.3	6263964.6	3.946	mg/L		
2	Mo 202.030	74725.9	74754.4	3.960	mg/L		
2	Ni 231.604	200676.8	200401.6	3.960	mg/L		
2	Pb 220.353	15002.7	14817.8	0.9915	mg/L		
2	Sb 206.833	16686.4	16625.8	3.948	mg/L		
2	Se 196.026	2799.8	2715.6	0.9893	mg/L		
2	Tl 190.800	3598.6	3410.1	0.9870	mg/L		
2	V 292.402	439130.9	438968.2	3.937	mg/L		
2	Zn 213.856	421154.9	421738.3	3.977	mg/L		
3	Ag 328.068	400676.2	401750.2	1.992	mg/L		
3	Al 308.215	368790.6	364193.0	9.982	mg/L		
3	As 188.979	2638.7	2569.2	0.9965	mg/L		
3	Ba 233.527	3576912.8	3577778.4	10.13	mg/L		
3	Be 313.107	2821782.6	2822196.8	1.019	mg/L		
3	Ca 227.547	26599.9	26316.4	100.7	mg/L		
3	Cd 228.802	253750.2	253660.5	2.002	mg/L		
3	Co 228.616	421429.3	421846.0	3.988	mg/L		
3	Cr 267.716	89586.9	89746.6	0.9924	mg/L		
3	Cu 324.754	1277388.7	1275101.7	4.003	mg/L		
3	Fe 273.955	492103.2	489113.4	9.822	mg/L		
3	Mg 279.079	1578302.4	1577706.3	49.67	mg/L		
3	Mn 257.610	6463567.3	6462446.6	4.071	mg/L		
3	Mo 202.030	75231.2	75259.7	3.987	mg/L		
3	Ni 231.604	202517.5	202242.2	3.996	mg/L		
3	Pb 220.353	14930.7	14745.8	0.9867	mg/L		
3	Sb 206.833	16607.5	16546.9	3.929	mg/L		
3	Se 196.026	2793.8	2709.5	0.9871	mg/L		
3	Tl 190.800	3589.8	3401.3	0.9845	mg/L		

3 V 292.402	444214.4	444051.7	3.983 mg/L
3 Zn 213.856	425136.7	425720.1	4.015 mg/L

Mean Data

: ICV 1379A — Seq. No.: 5 — Sample No.: 1 — A/S Pos: 5
mple Qty: 1.0000 g — Prep. Vol.: 1.0 L — Dilution: 1.0: 1.0
Data: Original — Date: 11/21/02 11:17:39 AM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	401290.7	1.989	0.0088	mg/L				0.44%
l 308.215	363874.1	9.973	0.0131	mg/L				0.13%
188.979	2591.4	1.005	0.0104	mg/L				1.04%
233.527	3502522.8	9.915	0.1923	mg/L				1.94%
313.107	2762088.1	0.9968	0.02001	mg/L				2.01%
a 227.547	26066.0	99.69	0.955	mg/L				0.96%
228.802	252330.2	1.992	0.0119	mg/L				0.60%
228.616	419817.5	3.968	0.0198	mg/L				0.50%
267.716	89616.4	0.9909	0.00673	mg/L				0.68%
u 324.754	1267989.2	3.980	0.0198	mg/L				0.50%
e 273.955	489440.4	9.829	0.0119	mg/L				0.12%
279.079	1572606.3	49.51	0.140	mg/L				0.28%
257.610	6301587.6	3.970	0.0918	mg/L				2.31%
o 202.030	74878.1	3.966	0.0179	mg/L				0.45%
i 231.604	200697.3	3.966	0.0281	mg/L				0.71%
220.353	14831.2	0.9924	0.00621	mg/L				0.63%
206.833	16674.1	3.959	0.0374	mg/L				0.95%
e 196.026	2722.2	0.9917	0.00617	mg/L				0.62%
l 190.800	3408.7	0.9866	0.00196	mg/L				0.20%
292.402	442506.3	3.969	0.0276	mg/L				0.69%
213.856	422758.6	3.987	0.0246	mg/L				0.62%

Replicate Data

: ICB — Date: 11/21/02 11:24:44 AM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-1010.5	63.5	0.0003	mg/L		
1	Al 308.215	4607.4	9.8	0.0003	mg/L		
1	As 188.979	61.9	-7.6	-0.0029	mg/L		
1	Ba 233.527	-769.5	96.1	0.0003	mg/L		
1	Be 313.107	71.9	486.1	0.0002	mg/L		
1	Ca 227.547	214.8	-68.7	-0.2627	mg/L		
1	Cd 228.802	102.7	13.0	0.0001	mg/L		
1	Co 228.616	-188.0	228.7	0.0022	mg/L		
1	Cr 267.716	-50.4	109.3	0.0012	mg/L		
1	Cu 324.754	2189.2	-97.7	-0.0003	mg/L		
1	Fe 273.955	1767.4	-1222.4	-0.0245	mg/L		
1	Mg 279.079	503.7	-92.4	-0.0029	mg/L		
1	Mn 257.610	1663.0	542.3	0.0003	mg/L		
1	Mo 202.030	-23.9	4.6	0.0002	mg/L		
1	Ni 231.604	439.9	164.6	0.0033	mg/L		
1	Pb 220.353	166.4	-18.5	-0.0012	mg/L		
1	Sb 206.833	67.7	7.1	0.0017	mg/L		
1	Se 196.026	78.7	-5.6	-0.0020	mg/L		
1	Tl 190.800	187.0	-1.6	-0.0005	mg/L		
1	V 292.402	187.8	25.1	0.0002	mg/L		
1	Zn 213.856	-501.8	81.6	0.0008	mg/L		
2	Ag 328.068	-1090.6	-16.6	-0.0001	mg/L		
2	Al 308.215	4450.2	-147.3	-0.0040	mg/L		
2	As 188.979	66.7	-2.8	-0.0011	mg/L		
2	Ba 233.527	-716.3	149.3	0.0004	mg/L		
2	Be 313.107	-90.7	323.5	0.0001	mg/L		
2	Ca 227.547	184.3	-99.2	-0.3794	mg/L		
2	Cd 228.802	109.0	19.3	0.0002	mg/L		
2	Co 228.616	-289.2	127.5	0.0012	mg/L		
2	Cr 267.716	-138.7	21.1	0.0002	mg/L		
2	Cu 324.754	2348.4	61.4	0.0002	mg/L		
2	Fe 273.955	1592.9	-1397.0	-0.0281	mg/L		
2	Mg 279.079	562.9	-33.3	-0.0010	mg/L		

2	Mn 257.610	1695.0	574.3	0.0004 mg/L
2	Mo 202.030	-32.9	-4.4	-0.0002 mg/L
2	Ni 231.604	341.7	66.5	0.0013 mg/L
2	Pb 220.353	191.5	6.6	0.0004 mg/L
2	Sb 206.833	52.5	-8.1	-0.0019 mg/L
2	Se 196.026	74.9	-9.4	-0.0034 mg/L
2	Tl 190.800	190.6	2.1	0.0006 mg/L
2	V 292.402	164.2	1.5	0.0000 mg/L
2	Zn 213.856	-522.5	60.9	0.0006 mg/L
3	Ag 328.068	-961.3	112.6	0.0006 mg/L
3	Al 308.215	4494.8	-102.7	-0.0028 mg/L
3	As 188.979	73.2	3.7	0.0014 mg/L
3	Ba 233.527	-808.2	57.4	0.0002 mg/L
3	Be 313.107	-1.1	413.2	0.0001 mg/L
3	Ca 227.547	116.2	-167.3	-0.6398 mg/L
3	Cd 228.802	98.8	9.0	0.0001 mg/L
3	Co 228.616	-274.3	142.4	0.0013 mg/L
3	Cr 267.716	-117.8	42.0	0.0005 mg/L
3	Cu 324.754	2383.7	96.8	0.0003 mg/L
3	Fe 273.955	1465.6	-1524.2	-0.0306 mg/L
3	Mg 279.079	428.7	-167.5	-0.0053 mg/L
3	Mn 257.610	1633.2	512.5	0.0003 mg/L
3	Mo 202.030	-33.5	-4.9	-0.0003 mg/L
3	Ni 231.604	388.4	113.2	0.0022 mg/L
3	Pb 220.353	181.7	-3.2	-0.0002 mg/L
3	Sb 206.833	57.1	-3.5	-0.0008 mg/L
3	Se 196.026	81.1	-3.2	-0.0012 mg/L
3	Tl 190.800	190.4	1.9	0.0006 mg/L
3	V 292.402	337.8	175.0	0.0016 mg/L
3	Zn 213.856	-528.5	54.8	0.0005 mg/L

Mean Data ----------

ID: ICB Seq. No.: 6 Sample No.: 2 A/S Pos: 1
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 11:24:44 AM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	53.2	0.0003	0.00032	mg/L				122.72%
Al 308.215	-80.1	-0.0022	0.00222	mg/L				101.09%
As 188.979	-2.2	-0.0008	0.00218	mg/L				257.54%
Ba 233.527	100.9	0.0003	0.00013	mg/L				45.70%
Be 313.107	407.6	0.0001	0.00003	mg/L				19.98%
Ca 227.547	-111.7	-0.4273	0.19308	mg/L				45.18%
Cd 228.802	13.8	0.0001	0.00004	mg/L				37.41%
Co 228.616	166.2	0.0016	0.00052	mg/L				32.88%
Cr 267.716	57.5	0.0006	0.00051	mg/L				80.21%
Cu 324.754	20.2	0.0001	0.00033	mg/L				513.50%
Fe 273.955	-1381.2	-0.0277	0.00304	mg/L				10.97%
Mg 279.079	-97.7	-0.0031	0.00212	mg/L				68.80%
Mn 257.610	543.0	0.0003	0.00002	mg/L				5.69%
Mo 202.030	-1.6	-0.0001	0.00029	mg/L				345.50%
Ni 231.604	114.8	0.0023	0.00097	mg/L				42.76%
Pb 220.353	-5.0	-0.0003	0.00085	mg/L				251.20%
Sb 206.833	-1.5	-0.0004	0.00187	mg/L				517.95%
Se 196.026	-6.1	-0.0022	0.00114	mg/L				51.58%
Tl 190.800	0.8	0.0002	0.00060	mg/L				252.32%
V 292.402	67.2	0.0006	0.00084	mg/L				140.05%
Zn 213.856	65.8	0.0006	0.00013	mg/L				21.32%

Replicate Data ----------

ID: CRI A1415 Date: 11/21/02 11:28:04 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	1053.8	2127.8	0.0105	mg/L	0.0105	ppm
1	Al 308.215	12757.6	8160.0	0.2237	mg/L	0.2237	ppm
1	As 188.979	102.2	32.8	0.0126	mg/L	0.0126	ppm
1	Ba 233.527	1591.1	2456.7	0.0070	mg/L	0.0070	ppm
1	Be 313.107	5893.8	6308.0	0.0023	mg/L	0.0023	ppm

1	Ca 227.547	462.9	179.4	0.6863 mg/L	0.6863 ppm
1	Cd 228.802	458.5	368.7	0.0029 mg/L	0.0029 ppm
1	Co 228.616	2428.9	2845.6	0.0269 mg/L	0.0269 ppm
1	Cr 267.716	150.6	310.4	0.0034 mg/L	0.0034 ppm
1	Cu 324.754	8574.6	6287.7	0.0197 mg/L	0.0197 ppm
1	Fe 273.955	4435.0	1445.2	0.0290 mg/L	0.0290 ppm
1	Mg 279.079	846.8	250.7	0.0079 mg/L	0.0079 ppm
1	Mn 257.610	19190.6	18069.9	0.0114 mg/L	0.0114 ppm
1	Mo 202.030	405.7	434.2	0.0230 mg/L	0.0230 ppm
1	Ni 231.604	2787.4	2512.1	0.0496 mg/L	0.0496 ppm
1	Pb 220.353	235.0	50.1	0.0034 mg/L	0.0034 ppm
1	Sb 206.833	117.9	57.2	0.0137 mg/L	0.0137 ppm
1	Se 196.026	97.7	13.4	0.0049 mg/L	0.0049 ppm
1	Tl 190.800	221.3	32.7	0.0095 mg/L	0.0095 ppm
1	V 292.402	1529.4	1366.6	0.0123 mg/L	0.0123 ppm
1	Zn 213.856	1906.6	2490.0	0.0235 mg/L	0.0235 ppm
2	Ag 328.068	975.3	2049.3	0.0102 mg/L	0.0102 ppm
2	Al 308.215	12720.3	8122.8	0.2226 mg/L	0.2226 ppm
2	As 188.979	96.9	27.4	0.0105 mg/L	0.0105 ppm
2	Ba 233.527	1456.4	2322.0	0.0066 mg/L	0.0066 ppm
2	Be 313.107	5583.8	5998.0	0.0022 mg/L	0.0022 ppm
2	Ca 227.547	404.0	120.5	0.4609 mg/L	0.4609 ppm
2	Cd 228.802	355.5	265.8	0.0021 mg/L	0.0021 ppm
2	Co 228.616	2278.4	2695.1	0.0255 mg/L	0.0255 ppm
2	Cr 267.716	121.0	280.8	0.0031 mg/L	0.0031 ppm
2	Cu 324.754	8462.1	6175.1	0.0194 mg/L	0.0194 ppm
2	Fe 273.955	4348.5	1358.7	0.0273 mg/L	0.0273 ppm
2	Mg 279.079	861.9	265.8	0.0084 mg/L	0.0084 ppm
2	Mn 257.610	18438.5	17317.8	0.0109 mg/L	0.0109 ppm
2	Mo 202.030	412.1	440.6	0.0233 mg/L	0.0233 ppm
2	Ni 231.604	2722.9	2447.7	0.0484 mg/L	0.0484 ppm
2	Pb 220.353	233.4	48.5	0.0032 mg/L	0.0032 ppm
2	Sb 206.833	106.8	46.1	0.0110 mg/L	0.0110 ppm
2	Se 196.026	97.3	13.0	0.0047 mg/L	0.0047 ppm
2	Tl 190.800	223.3	34.8	0.0101 mg/L	0.0101 ppm
2	V 292.402	1448.9	1286.1	0.0115 mg/L	0.0115 ppm
2	Zn 213.856	1896.3	2479.7	0.0234 mg/L	0.0234 ppm
3	Ag 328.068	1199.9	2273.8	0.0113 mg/L	0.0113 ppm
3	Al 308.215	12742.9	8145.4	0.2233 mg/L	0.2233 ppm
3	As 188.979	102.3	32.9	0.0126 mg/L	0.0126 ppm
3	Ba 233.527	1531.6	2397.2	0.0068 mg/L	0.0068 ppm
3	Be 313.107	5818.4	6232.6	0.0022 mg/L	0.0022 ppm
3	Ca 227.547	486.0	202.5	0.7746 mg/L	0.7746 ppm
3	Cd 228.802	339.9	250.1	0.0020 mg/L	0.0020 ppm
3	Co 228.616	2337.5	2754.2	0.0260 mg/L	0.0260 ppm
3	Cr 267.716	41.9	201.7	0.0022 mg/L	0.0022 ppm
3	Cu 324.754	8349.6	6062.7	0.0190 mg/L	0.0190 ppm
3	Fe 273.955	4173.9	1184.1	0.0238 mg/L	0.0238 ppm
3	Mg 279.079	808.6	212.4	0.0067 mg/L	0.0067 ppm
3	Mn 257.610	18377.3	17256.6	0.0109 mg/L	0.0109 ppm
3	Mo 202.030	402.6	431.2	0.0228 mg/L	0.0228 ppm
3	Ni 231.604	2705.6	2430.4	0.0480 mg/L	0.0480 ppm
3	Pb 220.353	221.2	36.3	0.0024 mg/L	0.0024 ppm
3	Sb 206.833	104.7	44.1	0.0105 mg/L	0.0105 ppm
3	Se 196.026	94.3	10.0	0.0036 mg/L	0.0036 ppm
3	Tl 190.800	230.0	41.5	0.0121 mg/L	0.0121 ppm
3	V 292.402	1463.3	1300.5	0.0117 mg/L	0.0117 ppm
3	Zn 213.856	1905.5	2488.9	0.0235 mg/L	0.0235 ppm

Mean Data ----------

ID: CRI A1415 Seq. No.: 7 Sample No.: 1 A/S Pos: 9

ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0

Data: Original Date: 11/21/02 11:28:04 AM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	2150.3	0.0107	0.00056	mg/L	0.0107	0.00056	ppm	5.30%
Al 308.215	8142.7	0.2232	0.00051	mg/L	0.2232	0.00051	ppm	0.23%
As 188.979	31.0	0.0119	0.00119	mg/L	0.0119	0.00119	ppm	10.02%
a 233.527	2392.0	0.0068	0.00019	mg/L	0.0068	0.00019	ppm	2.82%

1	V 292.402	54441.4	54278.7	0.4868 mg/L
1	Zn 213.856	105061.7	105645.1	0.9675 mg/L
2	Ag 328.068	201188.5	202262.5	1.003 mg/L
2	Al 308.215	17806562.4	17801964.9	487.9 mg/L
2	As 188.979	2596.8	2527.4	0.9665 mg/L
2	Ba 233.527	180750.5	181616.1	0.5141 mg/L
2	Be 313.107	1310946.7	1311360.9	0.4733 mg/L
2	Ca 227.547	129243.2	128959.7	497.3 mg/L
2	Cd 228.802	121046.5	120956.8	0.9546 mg/L
2	Co 228.616	48347.5	48764.2	0.4610 mg/L
2	Cr 267.716	44931.2	45091.0	0.4940 mg/L
2	Cu 324.754	153995.1	151708.2	0.4847 mg/L
2	Fe 273.955	9168541.7	9165551.8	184.1 mg/L
2	Mg 279.079	15192272.1	15191675.9	478.3 mg/L
2	Mn 257.610	774439.3	773318.6	0.4802 mg/L
2	Mo 202.030	17923.8	17952.3	0.9438 mg/L
2	Ni 231.604	45231.1	44955.9	0.8883 mg/L
2	Pb 220.353	13539.4	13354.5	0.9209 mg/L
2	Sb 206.833	4230.4	4169.8	0.9599 mg/L
2	Se 196.026	2695.4	2611.1	0.9685 mg/L
2	Tl 190.800	3667.4	3478.9	0.9008 mg/L
2	V 292.402	53543.3	53380.6	0.4788 mg/L
2	Zn 213.856	102063.5	102646.9	0.9347 mg/L
3	Ag 328.068	203284.5	204358.5	1.013 mg/L
3	Al 308.215	17446743.8	17442146.2	478.1 mg/L
3	As 188.979	2564.4	2495.0	0.9548 mg/L
3	Ba 233.527	182436.1	183301.7	0.5189 mg/L
3	Be 313.107	1326920.6	1327334.8	0.4790 mg/L
3	Ca 227.547	131248.6	130965.1	504.9 mg/L
3	Cd 228.802	122806.9	122717.2	0.9685 mg/L
3	Co 228.616	49141.1	49557.8	0.4685 mg/L
3	Cr 267.716	45399.4	45559.2	0.4993 mg/L
3	Cu 324.754	156292.0	154005.1	0.4917 mg/L
3	Fe 273.955	8988912.1	8985922.3	180.5 mg/L
3	Mg 279.079	14969854.6	14969258.5	471.3 mg/L
3	Mn 257.610	783976.9	782856.2	0.4863 mg/L
3	Mo 202.030	17482.9	17511.4	0.9206 mg/L
3	Ni 231.604	46071.2	45796.0	0.9049 mg/L
3	Pb 220.353	13404.3	13219.4	0.9114 mg/L
3	Sb 206.833	4127.6	4066.9	0.9356 mg/L
3	Se 196.026	2581.4	2497.1	0.9268 mg/L
3	Tl 190.800	3560.9	3372.3	0.8719 mg/L
3	V 292.402	53885.7	53723.0	0.4818 mg/L
3	Zn 213.856	103966.4	104549.8	0.9573 mg/L

Mean Data ----------

ID: ICSAB 1364 Seq. No.: 9 Sample No.: 4 A/S Pos: 8
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 11:34:01 AM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	204696.8	1.015	0.0130	mg/L				1.28%
Al 308.215	17566096.7	481.5	5.60	mg/L				1.16%
As 188.979	2480.3	0.9490	0.02101	mg/L				2.21%
Ba 233.527	183635.5	0.5198	0.00624	mg/L				1.20%
Be 313.107	1332921.3	0.4811	0.00896	mg/L				1.86%
Ca 227.547	130968.1	504.9	7.66	mg/L				1.52%
Cd 228.802	122596.5	0.9676	0.01249	mg/L				1.29%
Co 228.616	49401.7	0.4670	0.00544	mg/L				1.17%
Cr 267.716	45575.4	0.4994	0.00548	mg/L				1.10%
Cu 324.754	153778.2	0.4911	0.00611	mg/L				1.24%
Fe 273.955	9062098.6	182.0	1.87	mg/L				1.02%
Mg 279.079	15055626.8	474.0	3.75	mg/L				0.79%
Mn 257.610	782521.6	0.4860	0.00574	mg/L				1.18%
Mo 202.030	17817.1	0.9367	0.01401	mg/L				1.50%
Ni 231.604	45748.1	0.9040	0.01520	mg/L				1.68%
Pb 220.353	13318.7	0.9182	0.00594	mg/L				0.65%
Sb 206.833	4159.0	0.9575	0.02075	mg/L				2.17%
Se 196.026	2548.2	0.9455	0.02120	mg/L				2.24%

l 190.800	3431.7	0.8884	0.01485 mg/L	1.67%
292.402	53794.1	0.4825	0.00407 mg/L	0.84%
Zn 213.856	104280.6	0.9532	0.01676 mg/L	1.76%

Replicate Data
ID: CCV 1379B Date: 11/21/02 11:37:08 AM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	209213.4	210287.4	1.042	mg/L		
1	Al 308.215	197145.4	192547.8	5.277	mg/L		
1	As 188.979	1419.7	1350.3	0.5237	mg/L		
1	Ba 233.527	1831112.3	1831977.9	5.186	mg/L		
1	Be 313.107	1406709.2	1407123.4	0.5078	mg/L		
1	Ca 227.547	13773.5	13490.0	51.59	mg/L		
1	Cd 228.802	133417.4	133327.6	1.052	mg/L		
1	Co 228.616	222703.8	223120.5	2.109	mg/L		
1	Cr 267.716	47391.0	47550.8	0.5258	mg/L		
1	Cu 324.754	659478.4	657191.4	2.063	mg/L		
1	Fe 273.955	266505.8	263516.0	5.292	mg/L		
1	Mg 279.079	832180.6	831584.5	26.18	mg/L		
1	Mn 257.610	3292861.3	3291740.6	2.074	mg/L		
1	Mo 202.030	39219.5	39248.0	2.079	mg/L		
1	Ni 231.604	106178.8	105903.6	2.093	mg/L		
1	Pb 220.353	7884.1	7699.2	0.5152	mg/L		
1	Sb 206.833	8683.5	8622.9	2.047	mg/L		
1	Se 196.026	1527.4	1443.1	0.5258	mg/L		
1	Tl 190.800	1984.4	1795.9	0.5221	mg/L		
1	V 292.402	233167.9	233005.2	2.090	mg/L		
1	Zn 213.856	219350.6	219934.0	2.074	mg/L		
2	Ag 328.068	203779.2	204853.2	1.015	mg/L		
2	Al 308.215	191946.8	187349.2	5.135	mg/L		
2	As 188.979	1395.5	1326.1	0.5143	mg/L		
2	Ba 233.527	1826183.4	1827049.0	5.172	mg/L		
2	Be 313.107	1416197.9	1416612.1	0.5113	mg/L		
2	Ca 227.547	13533.2	13249.8	50.68	mg/L		
2	Cd 228.802	129652.0	129562.3	1.023	mg/L		
2	Co 228.616	217194.9	217611.6	2.057	mg/L		
2	Cr 267.716	45670.1	45829.9	0.5068	mg/L		
2	Cu 324.754	658880.3	656593.4	2.061	mg/L		
2	Fe 273.955	260527.1	257537.3	5.172	mg/L		
2	Mg 279.079	829536.8	828940.7	26.10	mg/L		
2	Mn 257.610	3274606.2	3273485.5	2.062	mg/L		
2	Mo 202.030	38572.7	38601.2	2.045	mg/L		
2	Ni 231.604	104809.7	104534.5	2.066	mg/L		
2	Pb 220.353	7787.5	7602.6	0.5087	mg/L		
2	Sb 206.833	8582.4	8521.8	2.023	mg/L		
2	Se 196.026	1509.0	1424.8	0.5190	mg/L		
2	Tl 190.800	1968.5	1779.9	0.5175	mg/L		
2	V 292.402	225498.9	225336.1	2.021	mg/L		
2	Zn 213.856	215700.5	216283.9	2.040	mg/L		
3	Ag 328.068	201339.0	202412.9	1.003	mg/L		
3	Al 308.215	186872.4	182274.8	4.996	mg/L		
3	As 188.979	1399.9	1330.5	0.5159	mg/L		
3	Ba 233.527	1808591.4	1809457.0	5.122	mg/L		
3	Be 313.107	1395689.8	1396104.0	0.5039	mg/L		
3	Ca 227.547	13402.5	13119.0	50.18	mg/L		
3	Cd 228.802	128774.1	128684.3	1.016	mg/L		
3	Co 228.616	215321.1	215737.8	2.039	mg/L		
3	Cr 267.716	45386.5	45546.3	0.5036	mg/L		
3	Cu 324.754	656953.2	654666.2	2.055	mg/L		
3	Fe 273.955	253536.1	250546.3	5.032	mg/L		
3	Mg 279.079	821678.0	821081.9	25.85	mg/L		
3	Mn 257.610	3271172.6	3270051.9	2.060	mg/L		
3	Mo 202.030	38151.4	38179.9	2.022	mg/L		
3	Ni 231.604	103705.2	103430.0	2.044	mg/L		
3	Pb 220.353	7787.6	7602.7	0.5087	mg/L		
3	Sb 206.833	8558.9	8498.3	2.018	mg/L		
3	Se 196.026	1495.5	1411.2	0.5141	mg/L		

3 Tl 190.800	1963.1	1774.6	0.5159	mg/L
3 V 292.402	223928.9	223766.1	2.007	mg/L
3 Zn 213.856	213211.7	213795.1	2.016	mg/L

Mean Data

ID: CCV 1379B Seq. No.: 10 Sample No.: 5 A/S Pos: 6
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 11:37:08 AM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	205851.2	1.020	0.0200	mg/L				1.96%
Al 308.215	187390.6	5.136	0.1408	mg/L				2.74%
As 188.979	1335.6	0.5180	0.00506	mg/L				0.98%
Ba 233.527	1822828.0	5.160	0.0335	mg/L				0.65%
Be 313.107	1406613.2	0.5076	0.00370	mg/L				0.73%
Ca 227.547	13286.3	50.82	0.720	mg/L				1.42%
Cd 228.802	130524.7	1.030	0.0195	mg/L				1.89%
Co 228.616	218823.3	2.069	0.0363	mg/L				1.75%
Cr 267.716	46309.0	0.5121	0.01199	mg/L				2.34%
Cu 324.754	656150.3	2.060	0.0041	mg/L				0.20%
Fe 273.955	257199.9	5.165	0.1304	mg/L				2.52%
Mg 279.079	827202.3	26.04	0.172	mg/L				0.66%
Mn 257.610	3278426.0	2.065	0.0073	mg/L				0.36%
Mo 202.030	38676.4	2.049	0.0285	mg/L				1.39%
Ni 231.604	104622.7	2.067	0.0245	mg/L				1.18%
Pb 220.353	7634.8	0.5109	0.00373	mg/L				0.73%
Sb 206.833	8547.6	2.030	0.0155	mg/L				0.76%
Se 196.026	1426.4	0.5196	0.00586	mg/L				1.13%
Tl 190.800	1783.4	0.5185	0.00322	mg/L				0.62%
V 292.402	227369.2	2.039	0.0443	mg/L				2.17%
Zn 213.856	216671.0	2.043	0.0291	mg/L				1.43%

Replicate Data

ID: CCB Date: 11/21/02 11:42:58 AM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-1126.9	-52.9	-0.0003	mg/L		
1	Al 308.215	4611.1	13.6	0.0004	mg/L		
1	As 188.979	60.3	-9.2	-0.0035	mg/L		
1	Ba 233.527	-736.9	128.7	0.0004	mg/L		
1	Be 313.107	-35.5	378.7	0.0001	mg/L		
1	Ca 227.547	367.1	83.6	0.3198	mg/L		
1	Cd 228.802	96.5	6.8	0.0001	mg/L		
1	Co 228.616	-326.9	89.8	0.0008	mg/L		
1	Cr 267.716	-135.9	23.9	0.0003	mg/L		
1	Cu 324.754	2294.3	7.4	0.0000	mg/L		
1	Fe 273.955	2474.5	-515.3	-0.0103	mg/L		
1	Mg 279.079	3479.1	2883.0	0.0908	mg/L		
1	Mn 257.610	1136.3	15.6	0.0000	mg/L		
1	Mo 202.030	-26.7	1.8	0.0001	mg/L		
1	Ni 231.604	384.1	108.9	0.0022	mg/L		
1	Pb 220.353	198.8	13.9	0.0009	mg/L		
1	Sb 206.833	60.5	-0.1	0.0000	mg/L		
1	Se 196.026	76.1	-8.2	-0.0030	mg/L		
1	Tl 190.800	202.0	13.4	0.0039	mg/L		
1	V 292.402	313.9	151.2	0.0014	mg/L		
1	Zn 213.856	-553.2	30.2	0.0003	mg/L		
2	Ag 328.068	-1159.0	-85.0	-0.0004	mg/L		
2	Al 308.215	4585.5	-12.1	-0.0003	mg/L		
2	As 188.979	69.0	-0.4	-0.0002	mg/L		
2	Ba 233.527	-770.9	94.7	0.0003	mg/L		
2	Be 313.107	-30.2	384.0	0.0001	mg/L		
2	Ca 227.547	209.3	-74.1	-0.2836	mg/L		
2	Cd 228.802	91.8	2.1	0.0000	mg/L		
2	Co 228.616	-350.4	66.3	0.0006	mg/L		
2	Cr 267.716	-92.4	67.4	0.0007	mg/L		
2	Cu 324.754	2293.3	6.4	0.0000	mg/L		
2	Fe 273.955	2282.0	-707.8	-0.0142	mg/L		

2	Mg 279.079	3389.7	2793.5	0.0880 mg/L
2	Mn 257.610	913.9	-206.8	-0.0001 mg/L
2	Mo 202.030	-24.2	4.3	0.0002 mg/L
2	Ni 231.604	444.3	169.0	0.0033 mg/L
2	Pb 220.353	181.9	-3.0	-0.0002 mg/L
2	Sb 206.833	69.1	8.4	0.0020 mg/L
2	Se 196.026	80.9	-3.4	-0.0012 mg/L
2	Tl 190.800	192.7	4.2	0.0012 mg/L
2	V 292.402	254.0	91.3	0.0008 mg/L
2	Zn 213.856	-554.5	28.9	0.0003 mg/L
3	Ag 328.068	-1069.3	4.7	0.0000 mg/L
3	Al 308.215	4698.5	100.9	0.0028 mg/L
3	As 188.979	67.9	-1.6	-0.0006 mg/L
3	Ba 233.527	-806.2	59.4	0.0002 mg/L
3	Be 313.107	11.1	425.3	0.0002 mg/L
3	Ca 227.547	315.5	32.0	0.1225 mg/L
3	Cd 228.802	103.4	13.6	0.0001 mg/L
3	Co 228.616	-357.2	59.5	0.0006 mg/L
3	Cr 267.716	-72.2	87.6	0.0010 mg/L
3	Cu 324.754	2266.0	-21.0	-0.0001 mg/L
3	Fe 273.955	1978.5	-1011.3	-0.0203 mg/L
3	Mg 279.079	3188.5	2592.4	0.0816 mg/L
3	Mn 257.610	924.1	-196.6	-0.0001 mg/L
3	Mo 202.030	-29.5	-1.0	-0.0001 mg/L
3	Ni 231.604	461.6	186.4	0.0037 mg/L
3	Pb 220.353	178.5	-6.4	-0.0004 mg/L
3	Sb 206.833	57.3	-3.3	-0.0008 mg/L
3	Se 196.026	85.8	1.6	0.0006 mg/L
3	Tl 190.800	190.6	2.1	0.0006 mg/L
3	V 292.402	222.1	59.4	0 0005 mg/L
3	Zn 213.856	-582.5	0.9	0.0000 mg/L

Mean Data ----------

D: CCB Seq. No.: 11 Sample No.: 6 A/S Pos: 1
mple Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 11:42:58 AM

ement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-44.4	-0.0002	0.00023	mg/L				102.29%
Al 308.215	34.1	0.0009	0.00162	mg/L				173.48%
s 188.979	-3.7	-0.0014	0.00182	mg/L				128.08%
a 233.527	94.3	0.0003	0.00010	mg/L				36.75%
Be 313.107	396.0	0.0001	0.00001	mg/L				6.45%
Ca 227.547	13.8	0.0529	0.30765	mg/L				581.43%
d 228.802	7.5	0.0001	0.00005	mg/L				77.66%
o 228.616	71.9	0.0007	0.00015	mg/L				22.10%
r 267.716	59.6	0.0007	0.00036	mg/L				54.65%
Cu 324.754	-2.4	0.0000	0.00005	mg/L				673.43%
e 273.955	-744.8	-0.0150	0.00502	mg/L				33.58%
g 279.079	2756.3	0.0868	0.00469	mg/L				5.40%
n 257.610	-129.3	-0.0001	0.00008	mg/L				97.11%
Mo 202.030	1.7	0.0001	0.00014	mg/L				152.77%
Ni 231.604	154.8	0.0031	0.00080	mg/L				26.26%
b 220.353	1.5	0.0001	0.00073	mg/L				713.22%
b 206.833	1.7	0.0004	0.00145	mg/L				363.37%
Se 196.026	-3.3	-0.0012	0.00177	mg/L				145.85%
Tl 190.800	6.6	0.0019	0.00176	mg/L				92.15%
292.402	100.6	0.0009	0.00042	mg/L				46.31%
n 213.856	20.0	0.0002	0.00016	mg/L				82.69%

Replicate Data ----------

D: M-BL 02M2368S Date: 11/21/02 11:47:05 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-965.2	108.7	0.0005	mg/L	0.0270	ppm
1	Al 308.215	4492.7	-104.8	-0.0029	mg/L	-0.1437	ppm
1	As 188.979	71.1	1.6	0.0006	mg/L	0.0311	ppm
1	Ba 233.527	-841.8	23.8	0.0001	mg/L	0.0034	ppm

1	Be 313.107	-109.5	304.7	0.0001	mg/L	0.0055	ppm
1	Ca 227.547	222.4	-61.0	-0.2334	mg/L	-11.67	ppm
1	Cd 228.802	101.7	12.0	0.0001	mg/L	0.0047	ppm
1	Co 228.616	-266.7	150.0	0.0014	mg/L	0.0709	ppm
1	Cr 267.716	-241.6	-81.8	-0.0009	mg/L	-0.0452	ppm
1	Cu 324.754	2409.4	122.5	0.0004	mg/L	0.0192	ppm
1	Fe 273.955	1827.4	-1162.4	-0.0233	mg/L	-1.167	ppm
1	Mg 279.079	2311.6	1715.5	0.0540	mg/L	2.701	ppm
1	Mn 257.610	862.9	-257.8	-0.0002	mg/L	-0.0081	ppm
1	Mo 202.030	-33.2	-4.7	-0.0003	mg/L	-0.0126	ppm
1	Ni 231.604	433.9	158.7	0.0031	mg/L	0.1568	ppm
1	Pb 220.353	161.9	-23.0	-0.0015	mg/L	-0.0770	ppm
1	Sb 206.833	60.7	0.0	0.0000	mg/L	0.0004	ppm
1	Se 196.026	81.6	-2.7	-0.0010	mg/L	-0.0488	ppm
1	Tl 190.800	196.0	7.5	0.0022	mg/L	0.1086	ppm
1	V 292.402	241.4	78.7	0.0007	mg/L	0.0353	ppm
1	Zn 213.856	-522.4	61.0	0.0006	mg/L	0.0287	ppm
2	Ag 328.068	-1191.2	-117.2	-0.0006	mg/L	-0.0291	ppm
2	Al 308.215	4530.2	-67.4	-0.0018	mg/L	-0.0924	ppm
2	As 188.979	72.5	3.1	0.0012	mg/L	0.0595	ppm
2	Ba 233.527	-817.1	48.5	0.0001	mg/L	0.0069	ppm
2	Be 313.107	-111.2	303.0	0.0001	mg/L	0.0055	ppm
2	Ca 227.547	183.0	-100.4	-0.3841	mg/L	-19.20	ppm
2	Cd 228.802	98.2	8.4	0.0001	mg/L	0.0033	ppm
2	Co 228.616	-403.4	13.3	0.0001	mg/L	0.0063	ppm
2	Cr 267.716	-210.8	-51.0	-0.0006	mg/L	-0.0282	ppm
2	Cu 324.754	2322.9	35.9	0.0001	mg/L	0.0056	ppm
2	Fe 273.955	1745.1	-1244.8	-0.0250	mg/L	-1.250	ppm
2	Mg 279.079	2186.3	1590.2	0.0501	mg/L	2.503	ppm
2	Mn 257.610	825.9	-294.9	-0.0002	mg/L	-0.0093	ppm
2	Mo 202.030	-30.5	-2.0	-0.0001	mg/L	-0.0053	ppm
2	Ni 231.604	354.5	79.3	0.0016	mg/L	0.0783	ppm
2	Pb 220.353	185.1	0.2	0.0000	mg/L	0.0006	ppm
2	Sb 206.833	66.6	6.0	0.0014	mg/L	0.0716	ppm
2	Se 196.026	86.7	2.4	0.0009	mg/L	0.0435	ppm
2	Tl 190.800	190.3	1.7	0.0005	mg/L	0.0251	ppm
2	V 292.402	231.2	68.5	0.0006	mg/L	0.0307	ppm
2	Zn 213.856	-518.3	65.1	0.0006	mg/L	0.0307	ppm
3	Ag 328.068	-1175.3	-101.3	-0.0005	mg/L	-0.0251	ppm
3	Al 308.215	4586.7	-10.9	-0.0003	mg/L	-0.0149	ppm
3	As 188.979	67.8	-1.7	-0.0006	mg/L	-0.0318	ppm
3	Ba 233.527	-837.9	27.7	0.0001	mg/L	0.0039	ppm
3	Be 313.107	-483.3	-69.1	0.0000	mg/L	-0.0012	ppm
3	Ca 227.547	279.7	-3.7	-0.0142	mg/L	-0.7098	ppm
3	Cd 228.802	102.0	12.2	0.0001	mg/L	0.0048	ppm
3	Co 228.616	-305.5	111.2	0.0011	mg/L	0.0526	ppm
3	Cr 267.716	-142.7	17.1	0.0002	mg/L	0.0094	ppm
3	Cu 324.754	2156.0	-130.9	-0.0004	mg/L	-0.0205	ppm
3	Fe 273.955	1680.9	-1308.9	-0.0263	mg/L	-1.314	ppm
3	Mg 279.079	2283.9	1687.7	0.0531	mg/L	2.657	ppm
3	Mn 257.610	967.2	-153.6	-0.0001	mg/L	-0.0048	ppm
3	Mo 202.030	-32.3	-3.8	-0.0002	mg/L	-0.0101	ppm
3	Ni 231.604	271.5	-3.7	-0.0001	mg/L	-0.0037	ppm
3	Pb 220.353	175.9	-9.0	-0.0006	mg/L	-0.0302	ppm
3	Sb 206.833	65.8	5.2	0.0012	mg/L	0.0621	ppm
3	Se 196.026	79.4	-4.9	-0.0018	mg/L	-0.0887	ppm
3	Tl 190.800	193.3	4.7	0.0014	mg/L	0.0688	ppm
3	V 292.402	292.0	129.2	0.0012	mg/L	0.0579	ppm
3	Zn 213.856	-526.6	56.8	0.0005	mg/L	0.0268	ppm

Mean Data ----------

ID: M-BL 02M2368S Seq. No.: 12 Sample No.: 2 A/S Pos: 10
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 11:47:05 AM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-36.6	-0.0002	0.00063	mg/L	-0.0091	0.03126	ppm	344.55%
Al 308.215	-61.0	-0.0017	0.00130	mg/L	-0.0837	0.06484	ppm	77.50%
As 188.979	1.0	0.0004	0.00093	mg/L	0.0196	0.04672	ppm	238.59%

	233.527	33.3	0.0001	0.00004	mg/L	0.0047	0.00188	ppm	39.80%
	313.107	179.5	0.0001	0.00008	mg/L	0.0032	0.00389	ppm	119.92%
Ca	227.547	-55.1	-0.2106	0.18599	mg/L	-10.53	9.299	ppm	88.33%
Cd	228.802	10.9	0.0001	0.00002	mg/L	0.0043	0.00083	ppm	19.44%
	228.616	91.5	0.0009	0.00067	mg/L	0.0432	0.03329	ppm	76.98%
	267.716	-38.6	-0.0004	0.00056	mg/L	-0.0213	0.02798	ppm	131.21%
Cu	324.754	9.2	0.0000	0.00040	mg/L	0.0014	0.02021	ppm	>999.9%
Fe	273.955	-1238.7	-0.0249	0.00147	mg/L	-1.244	0.0737	ppm	5.93%
	279.079	1664.4	0.0524	0.00207	mg/L	2.620	0.1036	ppm	3.95%
	257.610	-235.4	-0.0001	0.00005	mg/L	-0.0074	0.00231	ppm	31.12%
	202.030	-3.5	-0.0002	0.00007	mg/L	-0.0093	0.00368	ppm	39.53%
Ni	231.604	78.1	0.0015	0.00160	mg/L	0.0772	0.08023	ppm	103.98%
Pb	220.353	-10.6	-0.0007	0.00078	mg/L	-0.0356	0.03910	ppm	109.97%
	206.833	3.7	0.0009	0.00077	mg/L	0.0447	0.03864	ppm	86.44%
	196.026	-1.7	-0.0006	0.00136	mg/L	-0.0313	0.06777	ppm	216.23%
Tl	190.800	4.6	0.0013	0.00084	mg/L	0.0675	0.04179	ppm	61.94%
V	292.402	92.1	0.0008	0.00029	mg/L	0.0413	0.01459	ppm	35.30%
	213.856	60.9	0.0006	0.00004	mg/L	0.0287	0.00196	ppm	6.81%

Replicate Data ----------

ID: LCS-02M2368 Date: 11/21/02 11:50:33 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	203142.1	204216.1	1.012	mg/L	50.62	ppm
1	Al 308.215	80131.7	75534.1	2.070	mg/L	103.5	ppm
1	As 188.979	1349.4	1279.9	0.4995	mg/L	24.97	ppm
1	Ba 233.527	1495779.1	1496644.7	4.237	mg/L	211.8	ppm
1	Be 313.107	545753.6	546167.8	0.1971	mg/L	9.856	ppm
1	Ca 227.547	5583.4	5299.9	20.27	mg/L	1014	ppm
1	Cd 228.802	33310.6	33220.9	0.2622	mg/L	13.11	ppm
1	Co 228.616	112772.6	113189.3	1.070	mg/L	53.50	ppm
1	Cr 267.716	94225.2	94385.0	1.044	mg/L	52.18	ppm
1	Cu 324.754	323878.4	321591.5	1.010	mg/L	50.48	ppm
1	Fe 273.955	51131.0	48141.1	0.9668	mg/L	48.34	ppm
1	Mg 279.079	321604.4	321008.2	10.11	mg/L	505.4	ppm
1	Mn 257.610	1608949.7	1607829.0	1.013	mg/L	50.65	ppm
1	Mo 202.030	39125.7	39154.2	2.074	mg/L	103.7	ppm
1	Ni 231.604	53642.4	53367.2	1.055	mg/L	52.73	ppm
1	Pb 220.353	46986.6	46801.7	3.132	mg/L	156.6	ppm
1	Sb 206.833	2171.8	2111.2	0.4746	mg/L	23.73	ppm
1	Se 196.026	1461.0	1376.8	0.5001	mg/L	25.00	ppm
1	Tl 190.800	1999.6	1811.1	0.5266	mg/L	26.33	ppm
1	V 292.402	229833.2	229670.5	2.060	mg/L	103.0	ppm
1	Zn 213.856	56543.0	57126.4	0.5388	mg/L	26.94	ppm
2	Ag 328.068	200704.5	201778.4	1.000	mg/L	50.01	ppm
2	Al 308.215	79558.5	74960.9	2.055	mg/L	102.7	ppm
2	As 188.979	1345.0	1275.5	0.4977	mg/L	24.88	ppm
2	Ba 233.527	1484577.9	1485443.5	4.205	mg/L	210.2	ppm
2	Be 313.107	542165.4	542579.6	0.1958	mg/L	9.791	ppm
2	Ca 227.547	5542.9	5259.5	20.12	mg/L	1006	ppm
2	Cd 228.802	32565.5	32475.8	0.2563	mg/L	12.82	ppm
2	Co 228.616	110692.3	111109.0	1.050	mg/L	52.52	ppm
2	Cr 267.716	93113.8	93273.6	1.031	mg/L	51.57	ppm
2	Cu 324.754	318873.8	316586.8	0.9938	mg/L	49.69	ppm
2	Fe 273.955	50966.9	47977.1	0.9635	mg/L	48.17	ppm
2	Mg 279.079	318007.6	317411.5	9.994	mg/L	499.7	ppm
2	Mn 257.610	1585003.0	1583882.3	0.9979	mg/L	49.89	ppm
2	Mo 202.030	38700.5	38729.0	2.052	mg/L	102.6	ppm
2	Ni 231.604	52761.0	52485.7	1.037	mg/L	51.86	ppm
2	Pb 220.353	46431.7	46246.8	3.094	mg/L	154.7	ppm
2	Sb 206.833	2159.4	2098.8	0.4720	mg/L	23.60	ppm
2	Se 196.026	1448.5	1364.2	0.4955	mg/L	24.78	ppm
2	Tl 190.800	1979.4	1790.9	0.5207	mg/L	26.03	ppm
2	V 292.402	226970.3	226807.5	2.034	mg/L	101.7	ppm
2	Zn 213.856	55117.9	55701.3	0.5253	mg/L	26.27	ppm
3	Ag 328.068	201076.6	202150.6	1.002	mg/L	50.10	ppm
3	Al 308.215	79716.1	75118.5	2.059	mg/L	102.9	ppm
3	As 188.979	1354.9	1285.4	0.5016	mg/L	25.08	ppm

3 Ba 233.527	1488209.8	1489075.4	4.215	mg/L	210.8 ppm
3 Be 313.107	542770.8	543185.0	0.1960	mg/L	9.802 ppm
3 Ca 227.547	5585.1	5301.7	20.28	mg/L	1014 ppm
3 Cd 228.802	32938.2	32848.4	0.2593	mg/L	12.96 ppm
3 Co 228.616	111832.7	112249.4	1.061	mg/L	53.05 ppm
3 Cr 267.716	93905.1	94064.8	1.040	mg/L	52.01 ppm
3 Cu 324.754	321596.9	319310.0	1.002	mg/L	50.12 ppm
3 Fe 273.955	50518.5	47528.7	0.9545	mg/L	47.72 ppm
3 Mg 279.079	320020.7	319424.6	10.06	mg/L	502.9 ppm
3 Mn 257.610	1599303.3	1598182.5	1.007	mg/L	50.34 ppm
3 Mo 202.030	39155.7	39184.2	2.076	mg/L	103.8 ppm
3 Ni 231.604	53418.8	53143.6	1.050	mg/L	52.51 ppm
3 Pb 220.353	46837.8	46652.9	3.122	mg/L	156.1 ppm
3 Sb 206.833	2170.5	2109.9	0.4744	mg/L	23.72 ppm
3 Se 196.026	1465.4	1381.1	0.5016	mg/L	25.08 ppm
3 Tl 190.800	1990.6	1802.0	0.5239	mg/L	26.20 ppm
3 V 292.402	228810.6	228647.8	2.051	mg/L	102.5 ppm
3 Zn 213.856	56117.7	56701.1	0.5348	mg/L	26.74 ppm

Mean Data ----------

ID: LCS-02M2368 Seq. No.: 13 Sample No.: 3 A/S Pos: 11
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 11:50:33 AM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	202715.0	1.005	0.0065	mg/L	50.24	0.325	ppm	0.65%
Al 308.215	75204.5	2.061	0.0081	mg/L	103.1	0.41	ppm	0.39%
As 188.979	1280.3	0.4996	0.00194	mg/L	24.98	0.097	ppm	0.39%
Ba 233.527	1490387.9	4.219	0.0162	mg/L	210.9	0.81	ppm	0.38%
Be 313.107	543977.5	0.1963	0.00069	mg/L	9.816	0.0347	ppm	0.35%
Ca 227.547	5287.0	20.22	0.091	mg/L	1011	4.6	ppm	0.45%
Cd 228.802	32848.4	0.2593	0.00294	mg/L	12.96	0.147	ppm	1.13%
Co 228.616	112182.6	1.060	0.0098	mg/L	53.02	0.492	ppm	0.93%
Cr 267.716	93907.8	1.038	0.0063	mg/L	51.92	0.316	ppm	0.61%
Cu 324.754	319162.8	1.002	0.0079	mg/L	50.09	0.393	ppm	0.79%
Fe 273.955	47882.3	0.9616	0.00637	mg/L	48.08	0.318	ppm	0.66%
Mg 279.079	319281.4	10.05	0.057	mg/L	502.6	2.84	ppm	0.56%
Mn 257.610	1596631.3	1.006	0.0076	mg/L	50.30	0.380	ppm	0.75%
Mo 202.030	39022.4	2.067	0.0135	mg/L	103.4	0.67	ppm	0.65%
Ni 231.604	52998.8	1.047	0.0091	mg/L	52.36	0.453	ppm	0.86%
Pb 220.353	46567.1	3.116	0.0192	mg/L	155.8	0.96	ppm	0.62%
Sb 206.833	2106.6	0.4736	0.00145	mg/L	23.68	0.072	ppm	0.31%
Se 196.026	1374.0	0.4991	0.00318	mg/L	24.95	0.159	ppm	0.64%
Tl 190.800	1801.3	0.5237	0.00294	mg/L	26.19	0.147	ppm	0.56%
V 292.402	228375.3	2.048	0.0130	mg/L	102.4	0.65	ppm	0.64%
Zn 213.856	56509.6	0.5330	0.00690	mg/L	26.65	0.345	ppm	1.29%

Matrix Check Sample: LCS-02M2368

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
Ag 328.068	0.9998	1.005	0.007	mg/L	100.507
Al 308.215	1.998	2.061	0.008	mg/L	103.146
As 188.979	0.5004	0.4996	0.002	mg/L	99.839
Ba 233.527	4.000	4.219	0.016	mg/L	105.468
Be 313.107	0.2001	0.1963	0.001	mg/L	98.129
Ca 227.547	19.79	20.22	0.091	mg/L	102.159
Cd 228.802	0.2501	0.2593	0.003	mg/L	103.667
Co 228.616	1.001	1.060	0.010	mg/L	105.958
Cr 267.716	0.9996	1.038	0.006	mg/L	103.881
Cu 324.754	1.000	1.002	0.008	mg/L	100.187
Fe 273.955	0.9751	0.9616	0.006	mg/L	98.646
Mg 279.079	10.05	10.05	0.057	mg/L	100.003
Mn 257.610	0.9999	1.006	0.008	mg/L	100.606
Mo 202.030	2.000	2.067	0.013	mg/L	103.365
Ni 231.604	1.002	1.047	0.009	mg/L	104.572
Pb 220.353	2.999	3.116	0.019	mg/L	103.885
Sb 206.833	0.5009	0.4736	0.001	mg/L	94.548
Se 196.026	0.4994	0.4991	0.003	mg/L	99.938
Tl 190.800	0.5013	0.5237	0.003	mg/L	104.475

292.402	2.001	2.048	0.013	mg/L	102.370
213.856	0.5006	0.5330	0.007	mg/L	106.476

Replicate Data

D: LCSD-02M2368 Date: 11/21/02 11:54:05 AM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	201046.9	202120.8	1.002	mg/L	50.10	ppm
1	Al 308.215	79608.9	75011.3	2.056	mg/L	102.8	ppm
1	As 188.979	1356.6	1287.1	0.5022	mg/L	25.11	ppm
1	Ba 233.527	1492189.7	1493055.3	4.226	mg/L	211.3	ppm
1	Be 313.107	544634.5	545048.8	0.1967	mg/L	9.835	ppm
1	Ca 227.547	5621.0	5337.6	20.41	mg/L	1021	ppm
1	Cd 228.802	32609.9	32520.2	0.2567	mg/L	12.83	ppm
1	Co 228.616	111443.2	111859.9	1.057	mg/L	52.87	ppm
1	Cr 267.716	93620.6	93780.4	1.037	mg/L	51.85	ppm
1	Cu 324.754	319505.0	317218.0	0.9958	mg/L	49.79	ppm
1	Fe 273.955	50752.3	47762.4	0.9592	mg/L	47.96	ppm
1	Mg 279.079	319258.4	318662.2	10.03	mg/L	501.7	ppm
1	Mn 257.610	1592507.0	1591386.3	1.003	mg/L	50.13	ppm
1	Mo 202.030	38885.7	38914.2	2.061	mg/L	103.1	ppm
1	Ni 231.604	53184.4	52909.2	1.045	mg/L	52.27	ppm
1	Pb 220.353	46503.4	46318.5	3.099	mg/L	155.0	ppm
1	Sb 206.833	2191.0	2130.3	0.4793	mg/L	23.97	ppm
1	Se 196.026	1473.9	1389.6	0.5047	mg/L	25.24	ppm
1	Tl 190.800	1984.0	1795.4	0.5220	mg/L	26.10	ppm
1	V 292.402	227660.6	227497.9	2.040	mg/L	102.0	ppm
1	Zn 213.856	55361.0	55944.4	0.5276	mg/L	26.38	ppm
2	Ag 328.068	205646.7	206720.7	1.025	mg/L	51.24	ppm
2	Al 308.215	81494.5	76896.9	2.108	mg/L	105.4	ppm
2	As 188.979	1356.4	1287.0	0.5023	mg/L	25.12	ppm
2	Ba 233.527	1522192.9	1523058.5	4.311	mg/L	215.6	ppm
2	Be 313.107	556183.7	556597.9	0.2009	mg/L	10.04	ppm
2	Ca 227.547	5621.0	5337.6	20.41	mg/L	1021	ppm
2	Cd 228.802	33657.4	33567.7	0.2649	mg/L	13.25	ppm
2	Co 228.616	114294.4	114711.1	1.084	mg/L	54.22	ppm
2	Cr 267.716	95742.3	95902.1	1.060	mg/L	53.02	ppm
2	Cu 324.754	329378.2	327091.2	1.027	mg/L	51.34	ppm
2	Fe 273.955	51387.4	48397.5	0.9719	mg/L	48.60	ppm
2	Mg 279.079	326323.6	325727.5	10.26	mg/L	512.8	ppm
2	Mn 257.610	1634998.8	1633878.1	1.029	mg/L	51.47	ppm
2	Mo 202.030	39926.0	39954.5	2.116	mg/L	105.8	ppm
2	Ni 231.604	54467.7	54192.5	1.071	mg/L	53.54	ppm
2	Pb 220.353	47809.1	47624.2	3.187	mg/L	159.3	ppm
2	Sb 206.833	2194.5	2133.9	0.4795	mg/L	23.98	ppm
2	Se 196.026	1480.0	1395.8	0.5070	mg/L	25.35	ppm
2	Tl 190.800	2014.0	1825.5	0.5307	mg/L	26.54	ppm
2	V 292.402	233310.1	233147.3	2.091	mg/L	104.6	ppm
2	Zn 213.856	57299.3	57882.7	0.5459	mg/L	27.30	ppm
3	Ag 328.068	206907.2	207981.2	1.031	mg/L	51.55	ppm
3	Al 308.215	81917.4	77319.8	2.119	mg/L	106.0	ppm
3	As 188.979	1375.0	1305.6	0.5095	mg/L	25.48	ppm
3	Ba 233.527	1524679.0	1525544.6	4.318	mg/L	215.9	ppm
3	Be 313.107	553238.3	553652.5	0.1998	mg/L	9.991	ppm
3	Ca 227.547	5644.0	5360.5	20.50	mg/L	1025	ppm
3	Cd 228.802	33534.4	33444.6	0.2640	mg/L	13.20	ppm
3	Co 228.616	114152.4	114569.1	1.083	mg/L	54.15	ppm
3	Cr 267.716	96239.2	96398.9	1.066	mg/L	53.30	ppm
3	Cu 324.754	330098.8	327811.8	1.029	mg/L	51.45	ppm
3	Fe 273.955	51574.6	48584.8	0.9757	mg/L	48.78	ppm
3	Mg 279.079	325691.4	325095.2	10.24	mg/L	511.8	ppm
3	Mn 257.610	1631257.2	1630136.5	1.027	mg/L	51.35	ppm
3	Mo 202.030	39849.4	39877.9	2.112	mg/L	105.6	ppm
3	Ni 231.604	54164.3	53889.1	1.065	mg/L	53.24	ppm
3	Pb 220.353	47765.6	47580.7	3.184	mg/L	159.2	ppm
3	Sb 206.833	2211.4	2150.8	0.4834	mg/L	24.17	ppm
3	Se 196.026	1467.3	1383.1	0.5023	mg/L	25.12	ppm
3	Tl 190.800	2016.5	1828.0	0.5315	mg/L	26.57	ppm

3 V 292.402	234575.9	234413.2	2.102 mg/L	105.1 ppm
3 Zn 213.856	56971.6	57555.0	0.5428 mg/L	27.14 ppm

Mean Data

ID: LCSD-02M2368 Seq. No.: 14 Sample No.: 4 A/S Pos: 12
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 11:54:05 AM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	205607.6	1.019	0.0153	mg/L	50.96	0.765	ppm	1.50%
Al 308.215	76409.4	2.094	0.0337	mg/L	104.7	1.68	ppm	1.61%
As 188.979	1293.2	0.5047	0.00419	mg/L	25.23	0.209	ppm	0.83%
Ba 233.527	1513886.1	4.285	0.0512	mg/L	214.3	2.56	ppm	1.19%
Be 313.107	551766.4	0.1991	0.00217	mg/L	9.957	0.1083	ppm	1.09%
Ca 227.547	5345.2	20.44	0.051	mg/L	1022	2.5	ppm	0.25%
Cd 228.802	33177.5	0.2619	0.00452	mg/L	13.09	0.226	ppm	1.73%
Co 228.616	113713.4	1.075	0.0152	mg/L	53.75	0.759	ppm	1.41%
Cr 267.716	95360.5	1.054	0.0154	mg/L	52.72	0.769	ppm	1.46%
Cu 324.754	324040.4	1.017	0.0186	mg/L	50.86	0.929	ppm	1.83%
Fe 273.955	48248.2	0.9689	0.00866	mg/L	48.45	0.433	ppm	0.89%
Mg 279.079	323161.6	10.17	0.123	mg/L	508.7	6.15	ppm	1.21%
Mn 257.610	1618467.0	1.020	0.0148	mg/L	50.98	0.741	ppm	1.45%
Mo 202.030	39582.2	2.097	0.0307	mg/L	104.8	1.54	ppm	1.46%
Ni 231.604	53663.6	1.060	0.0133	mg/L	53.02	0.663	ppm	1.25%
Pb 220.353	47174.5	3.156	0.0496	mg/L	157.8	2.48	ppm	1.57%
Sb 206.833	2138.3	0.4808	0.00229	mg/L	24.04	0.115	ppm	0.48%
Se 196.026	1389.5	0.5047	0.00231	mg/L	25.23	0.115	ppm	0.46%
Tl 190.800	1816.3	0.5281	0.00527	mg/L	26.40	0.263	ppm	1.00%
V 292.402	231686.1	2.078	0.0330	mg/L	103.9	1.65	ppm	1.59%
Zn 213.856	57127.4	0.5388	0.00978	mg/L	26.94	0.489	ppm	1.82%

Matrix Check Sample: LCSD-02M2368

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
Ag 328.068	0.9998	1.019	0.015	mg/L	101.941
Al 308.215	1.998	2.094	0.034	mg/L	104.797
As 188.979	0.5004	0.5047	0.004	mg/L	100.859
Ba 233.527	4.000	4.285	0.051	mg/L	107.131
Be 313.107	0.2001	0.1991	0.002	mg/L	99.534
Ca 227.547	19.79	20.44	0.051	mg/L	103.271
Cd 228.802	0.2501	0.2619	0.005	mg/L	104.706
Co 228.616	1.001	1.075	0.015	mg/L	107.405
Cr 267.716	0.9996	1.054	0.015	mg/L	105.488
Cu 324.754	1.000	1.017	0.019	mg/L	101.718
Fe 273.955	0.9751	0.9689	0.009	mg/L	99.381
Mg 279.079	10.05	10.17	0.123	mg/L	101.225
Mn 257.610	0.9999	1.020	0.015	mg/L	101.982
Mo 202.030	2.000	2.097	0.031	mg/L	104.847
Ni 231.604	1.002	1.060	0.013	mg/L	105.885
Pb 220.353	2.999	3.156	0.050	mg/L	105.240
Sb 206.833	0.5009	0.4808	0.002	mg/L	95.972
Se 196.026	0.4994	0.5047	0.002	mg/L	101.060
Tl 190.800	0.5013	0.5281	0.005	mg/L	105.344
V 292.402	2.001	2.078	0.033	mg/L	103.854
Zn 213.856	0.5006	0.5388	0.010	mg/L	107.641

Replicate Data

ID: 6141-1 S F=50 Date: 11/21/02 11:57:37 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1283.3	-209.4	-0.0010	mg/L	-0.0519	ppm
1	Al 308.215	2091761.5	2087163.9	57.21	mg/L	2860	ppm
1	As 188.979	-2.0	-71.4	0.0407	mg/L	2.037	ppm
1	Ba 233.527	171924.8	172790.4	0.4891	mg/L	24.46	ppm
1	Be 313.107	1418.2	1832.5	0.0007	mg/L	0.0331	ppm
1	Ca 227.547	682550.2	682266.8	2609	mg/L	130500	ppm
1	Cd 228.802	405.7	316.0	0.0025	mg/L	0.1247	ppm

1	Co 228.616	2586.7	3003.4	0.0284	mg/L	1.420 ppm
1	Cr 267.716	11348.1	11507.9	0.1272	mg/L	6.362 ppm
1	Cu 324.754	13168.4	10881.4	0.0342	mg/L	1.708 ppm
1	Fe 273.955	3151959.8	3148969.9	63.24	mg/L	3162 ppm
1	Mg 279.079	2008328.2	2007732.1	63.21	mg/L	3161 ppm
1	Mn 257.610	2309696.9	2308576.2	1.454	mg/L	72.72 ppm
1	Mo 202.030	-57.9	-29.4	-0.0016	mg/L	-0.0779 ppm
1	Ni 231.604	3207.6	2932.4	0.0579	mg/L	2.897 ppm
1	Pb 220.353	628.9	444.0	0.0422	mg/L	2.109 ppm
1	Sb 206.833	94.4	33.7	0.0018	mg/L	0.0925 ppm
1	Se 196.026	52.0	-32.2	0.0032	mg/L	0.1590 ppm
1	Tl 190.800	280.0	91.5	0.0120	mg/L	0.5987 ppm
1	V 292.402	13924.4	13761.6	0.1234	mg/L	6.171 ppm
1	Zn 213.856	14974.2	15557.6	0.1400	mg/L	7.002 ppm
2	Ag 328.068	-1236.5	-162.5	-0.0008	mg/L	-0.0403 ppm
2	Al 308.215	2145464.7	2140867.1	58.68	mg/L	2934 ppm
2	As 188.979	-11.1	-80.6	0.0376	mg/L	1.879 ppm
2	Ba 233.527	168942.4	169808.0	0.4807	mg/L	24.03 ppm
2	Be 313.107	1318.3	1732.5	0.0006	mg/L	0.0313 ppm
2	Ca 227.547	696423.0	696139.5	2663	mg/L	133100 ppm
2	Cd 228.802	396.3	306.6	0.0024	mg/L	0.1210 ppm
2	Co 228.616	2525.4	2942.1	0.0278	mg/L	1.391 ppm
2	Cr 267.716	11248.2	11408.0	0.1261	mg/L	6.307 ppm
2	Cu 324.754	13050.3	10763.4	0.0338	mg/L	1.689 ppm
2	Fe 273.955	3213882.3	3210892.5	64.48	mg/L	3224 ppm
2	Mg 279.079	2038193.8	2037597.7	64.15	mg/L	3208 ppm
2	Mn 257.610	2354374.5	2353253.8	1.483	mg/L	74.13 ppm
2	Mo 202.030	-62.1	-33.6	-0.0018	mg/L	-0.0891 ppm
2	Ni 231.604	3158.0	2882.8	0.0570	mg/L	2.848 ppm
2	Pb 220.353	629.7	444.8	0.0425	mg/L	2.125 ppm
2	Sb 206.833	87.8	27.1	0.0003	mg/L	0.0128 ppm
2	Se 196.026	42.9	-41.4	0.0001	mg/L	0.0061 ppm
2	Tl 190.800	281.6	93.1	0.0121	mg/L	0.6056 ppm
2	V 292.402	14037.2	13874.5	0.1244	mg/L	6.222 ppm
2	Zn 213.856	15175.8	15759.2	0.1418	mg/L	7.091 ppm
3	Ag 328.068	-992.7	81.2	0.0004	mg/L	0.0201 ppm
3	Al 308.215	2135395.4	2130797.9	58.40	mg/L	2920 ppm
3	As 188.979	-12.2	-81.7	0.0374	mg/L	1.870 ppm
3	Ba 233.527	168747.6	169613.2	0.4801	mg/L	24.01 ppm
3	Be 313.107	1282.1	1696.3	0.0006	mg/L	0.0306 ppm
3	Ca 227.547	688678.2	688394.8	2633	mg/L	131600 ppm
3	Cd 228.802	384.5	294.7	0.0023	mg/L	0.1163 ppm
3	Co 228.616	2526.0	2942.7	0.0278	mg/L	1.391 ppm
3	Cr 267.716	11299.9	11459.7	0.1267	mg/L	6.336 ppm
3	Cu 324.754	13110.6	10823.6	0.0340	mg/L	1.699 ppm
3	Fe 273.955	3209218.4	3206228.5	64.39	mg/L	3219 ppm
3	Mg 279.079	2031117.8	2030521.6	63.93	mg/L	3197 ppm
3	Mn 257.610	2328255.7	2327135.0	1.466	mg/L	73.31 ppm
3	Mo 202.030	-57.4	-28.9	-0.0015	mg/L	-0.0766 ppm
3	Ni 231.604	3112.2	2837.0	0.0561	mg/L	2.803 ppm
3	Pb 220.353	633.5	448.7	0.0426	mg/L	2.132 ppm
3	Sb 206.833	92.3	31.6	0.0013	mg/L	0.0660 ppm
3	Se 196.026	47.9	-36.4	0.0019	mg/L	0.0965 ppm
3	Tl 190.800	279.9	91.4	0.0116	mg/L	0.5811 ppm
3	V 292.402	13883.8	13721.0	0.1231	mg/L	6.153 ppm
3	Zn 213.856	15101.9	15685.3	0.1411	mg/L	7.056 ppm

ean Data ----------

D: 6141-1 S F=50 Seq. No.: 15 Sample No.: 5 A/S Pos: 13
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 11:57:37 AM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-96.9	-0.0005	0.00077	mg/L	-0.0240	0.03867	ppm	161.04%
l 308.215	2119609.6	58.10	0.782	mg/L	2905	39.1	ppm	1.35%
s 188.979	-77.9	0.0386	0.00188	mg/L	1.929	0.0939	ppm	4.87%
a 233.527	170737.2	0.4833	0.00504	mg/L	24.17	0.252	ppm	1.04%
Be 313.107	1753.7	0.0006	0.00003	mg/L	0.0316	0.00127	ppm	4.02%
a 227.547	688933.7	2635	26.6	mg/L	131700	1329.5	ppm	1.01%

Cd 228.802	305.8	0.0024	0.00008 mg/L	0.1207	0.00420 ppm	3.48%
Co 228.616	2962.7	0.0280	0.00033 mg/L	1.400	0.0167 ppm	1.19%
Cr 267.716	11458.5	0.1267	0.00055 mg/L	6.335	0.0276 ppm	0.44%
Cu 324.754	10822.8	0.0340	0.00019 mg/L	1.699	0.0093 ppm	0.55%
Fe 273.955	3188697.0	64.04	0.693 mg/L	3202	34.6 ppm	1.08%
Mg 279.079	2025283.8	63.77	0.491 mg/L	3188	24.6 ppm	0.77%
Mn 257.610	2329655.0	1.468	0.0141 mg/L	73.39	0.707 ppm	0.96%
Mo 202.030	-30.7	-0.0016	0.00014 mg/L	-0.0812	0.00683 ppm	8.41%
Ni 231.604	2884.1	0.0570	0.00094 mg/L	2.849	0.0471 ppm	1.65%
Pb 220.353	445.8	0.0424	0.00024 mg/L	2.122	0.0118 ppm	0.56%
Sb 206.833	30.8	0.0011	0.00081 mg/L	0.0571	0.04060 ppm	71.10%
Se 196.026	-36.7	0.0017	0.00154 mg/L	0.0872	0.07687 ppm	88.17%
Tl 190.800	92.0	0.0119	0.00025 mg/L	0.5951	0.01265 ppm	2.13%
V 292.402	13785.7	0.1236	0.00071 mg/L	6.182	0.0357 ppm	0.58%
Zn 213.856	15667.4	0.1410	0.00089 mg/L	7.050	0.0446 ppm	0.63%

Replicate Data

ID: 6141-1 D F=50 Date: 11/21/02 12:01:14 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1261.7	-187.7	-0.0009	mg/L	-0.0465	ppm
1	Al 308.215	2165345.0	2160747.4	59.22	mg/L	2961	ppm
1	As 188.979	-7.5	-76.9	0.0412	mg/L	2.061	ppm
1	Ba 233.527	171532.9	172398.5	0.4880	mg/L	24.40	ppm
1	Be 313.107	1217.2	1631.4	0.0006	mg/L	0.0294	ppm
1	Ca 227.547	708970.9	708687.5	2710	mg/L	135500	ppm
1	Cd 228.802	378.1	288.4	0.0023	mg/L	0.1138	ppm
1	Co 228.616	2509.9	2926.6	0.0277	mg/L	1.383	ppm
1	Cr 267.716	11313.7	11473.5	0.1269	mg/L	6.343	ppm
1	Cu 324.754	12831.2	10544.2	0.0331	mg/L	1.655	ppm
1	Fe 273.955	3244775.2	3241785.3	65.10	mg/L	3255	ppm
1	Mg 279.079	2070910.3	2070314.2	65.18	mg/L	3259	ppm
1	Mn 257.610	2393039.5	2391918.8	1.507	mg/L	75.35	ppm
1	Mo 202.030	-90.7	-62.2	-0.0033	mg/L	-0.1647	ppm
1	Ni 231.604	3124.7	2849.5	0.0563	mg/L	2.815	ppm
1	Pb 220.353	624.8	439.9	0.0424	mg/L	2.119	ppm
1	Sb 206.833	95.6	35.0	0.0021	mg/L	0.1044	ppm
1	Se 196.026	54.5	-29.8	0.0045	mg/L	0.2245	ppm
1	Tl 190.800	276.1	87.5	0.0104	mg/L	0.5196	ppm
1	V 292.402	13993.9	13831.1	0.1240	mg/L	6.202	ppm
1	Zn 213.856	15132.9	15716.3	0.1413	mg/L	7.067	ppm
2	Ag 328.068	-1393.2	-319.2	-0.0016	mg/L	-0.0791	ppm
2	Al 308.215	2104020.0	2099422.4	57.54	mg/L	2877	ppm
2	As 188.979	-8.9	-78.3	0.0368	mg/L	1.839	ppm
2	Ba 233.527	163076.3	163941.9	0.4641	mg/L	23.20	ppm
2	Be 313.107	1020.0	1434.2	0.0005	mg/L	0.0259	ppm
2	Ca 227.547	679304.9	679021.4	2597	mg/L	129900	ppm
2	Cd 228.802	392.4	302.7	0.0024	mg/L	0.1194	ppm
2	Co 228.616	2488.4	2905.1	0.0275	mg/L	1.373	ppm
2	Cr 267.716	10879.0	11038.8	0.1221	mg/L	6.103	ppm
2	Cu 324.754	12513.9	10227.0	0.0321	mg/L	1.605	ppm
2	Fe 273.955	3174839.3	3171849.5	63.70	mg/L	3185	ppm
2	Mg 279.079	2005632.1	2005036.0	63.13	mg/L	3156	ppm
2	Mn 257.610	2305664.3	2304543.5	1.452	mg/L	72.60	ppm
2	Mo 202.030	-91.7	-63.2	-0.0033	mg/L	-0.1673	ppm
2	Ni 231.604	3078.1	2802.9	0.0554	mg/L	2.769	ppm
2	Pb 220.353	625.3	440.4	0.0419	mg/L	2.096	ppm
2	Sb 206.833	96.2	35.6	0.0024	mg/L	0.1217	ppm
2	Se 196.026	36.8	-47.5	-0.0023	mg/L	-0.1128	ppm
2	Tl 190.800	284.5	96.0	0.0131	mg/L	0.6568	ppm
2	V 292.402	13224.9	13062.2	0.1172	mg/L	5.858	ppm
2	Zn 213.856	15157.5	15740.9	0.1417	mg/L	7.086	ppm
3	Ag 328.068	-1263.3	-189.3	-0.0009	mg/L	-0.0469	ppm
3	Al 308.215	2053215.6	2048618.0	56.15	mg/L	2807	ppm
3	As 188.979	-16.5	-86.0	0.0341	mg/L	1.703	ppm
3	Ba 233.527	172587.5	173453.1	0.4910	mg/L	24.55	ppm
3	Be 313.107	1168.2	1582.4	0.0006	mg/L	0.0286	ppm
3	Ca 227.547	671145.2	670861.7	2566	mg/L	128300	ppm

3 Cd 228.802	394.0	304.2	0.0024	mg/L	0.1201 ppm
3 Co 228.616	2476.0	2892.7	0.0273	mg/L	1.367 ppm
3 Cr 267.716	11412.8	11572.6	0.1280	mg/L	6.398 ppm
3 Cu 324.754	13299.3	11012.4	0.0346	mg/L	1.728 ppm
3 Fe 273.955	3101193.3	3098203.5	62.22	mg/L	3111 ppm
3 Mg 279.079	1977608.4	1977012.2	62.25	mg/L	3112 ppm
3 Mn 257.610	2274694.4	2273573.7	1.432	mg/L	71.62 ppm
3 Mo 202.030	-88.0	-59.5	-0.0032	mg/L	-0.1576 ppm
3 Ni 231.604	3061.7	2786.5	0.0551	mg/L	2.753 ppm
3 Pb 220.353	634.3	449.4	0.0423	mg/L	2.117 ppm
3 Sb 206.833	87.4	26.8	0.0002	mg/L	0.0104 ppm
3 Se 196.026	53.5	-30.8	0.0035	mg/L	0.1733 ppm
3 Tl 190.800	283.3	94.8	0.0132	mg/L	0.6593 ppm
3 V 292.402	14022.8	13860.1	0.1243	mg/L	6.215 ppm
3 Zn 213.856	15245.8	15829.2	0.1427	mg/L	7.136 ppm

Mean Data

D: 6141-1 D F=50 Seq. No.: 16 Sample No.: 6 A/S Pos: 14
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 12:01:14 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-232.1	-0.0012	0.00037	mg/L	-0.0575	0.01870	ppm	32.52%
Al 308.215	2102929.3	57.64	1.539	mg/L	2882	76.9	ppm	2.67%
As 188.979	-80.4	0.0374	0.00361	mg/L	1.868	0.1806	ppm	9.67%
Ba 233.527	169931.2	0.4810	0.01476	mg/L	24.05	0.738	ppm	3.07%
Be 313.107	1549.3	0.0006	0.00004	mg/L	0.0280	0.00185	ppm	6.63%
Ca 227.547	686190.2	2624	76.1	mg/L	131200	3806.7	ppm	2.90%
Cd 228.802	298.4	0.0024	0.00007	mg/L	0.1178	0.00345	ppm	2.93%
Co 228.616	2908.1	0.0275	0.00016	mg/L	1.375	0.0081	ppm	0.59%
Cr 267.716	11361.6	0.1256	0.00314	mg/L	6.282	0.1570	ppm	2.50%
Cu 324.754	10594.5	0.0333	0.00124	mg/L	1.663	0.0620	ppm	3.73%
Fe 273.955	3170612.8	63.67	1.442	mg/L	3184	72.1	ppm	2.26%
Mg 279.079	2017454.1	63.52	1.507	mg/L	3176	75.4	ppm	2.37%
Mn 257.610	2323345.4	1.464	0.0387	mg/L	73.19	1.933	ppm	2.64%
Mo 202.030	-61.6	-0.0033	0.00010	mg/L	-0.1632	0.00502	ppm	3.07%
Ni 231.604	2813.0	0.0556	0.00065	mg/L	2.779	0.0323	ppm	1.16%
Pb 220.353	443.2	0.0422	0.00025	mg/L	2.110	0.0127	ppm	0.60%
Sb 206.833	32.5	0.0016	0.00120	mg/L	0.0788	0.05986	ppm	75.92%
Se 196.026	-36.0	0.0019	0.00364	mg/L	0.0950	0.18178	ppm	191.38%
Tl 190.800	92.8	0.0122	0.00160	mg/L	0.6119	0.07995	ppm	13.07%
V 292.402	13584.4	0.1218	0.00406	mg/L	6.092	0.2029	ppm	3.33%
Zn 213.856	15762.1	0.1419	0.00071	mg/L	7.096	0.0353	ppm	0.50%

Matrix Check Sample: 6141-1 D F=50

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	Relative % Diff.
Ag 328.068	-0.0005	-0.0012	0.000	mg/L	-82.189
Al 308.215	58.10	57.64	1.539	mg/L	0.790
As 188.979	0.0386	0.0374	0.004	mg/L	3.230
Ba 233.527	0.4833	0.4810	0.015	mg/L	0.473
Be 313.107	0.0006	0.0006	0.000	mg/L	12.377
Ca 227.547	2635	2624	76.133	mg/L	0.399
Cd 228.802	0.0024	0.0024	0.000	mg/L	2.428
Co 228.616	0.0280	0.0275	0.000	mg/L	1.860
Cr 267.716	0.1267	0.1256	0.003	mg/L	0.849
Cu 324.754	0.0340	0.0333	0.001	mg/L	2.132
Fe 273.955	64.04	63.67	1.442	mg/L	0.569
Mg 279.079	63.77	63.52	1.507	mg/L	0.387
Mn 257.610	1.468	1.464	0.039	mg/L	0.271
Mo 202.030	-0.0016	-0.0033	0.000	mg/L	-67.089
Ni 231.604	0.0570	0.0556	0.001	mg/L	2.496
Pb 220.353	0.0424	0.0422	0.000	mg/L	0.555
Sb 206.833	0.0011	0.0016	0.001	mg/L	31.980
Se 196.026	0.0017	0.0019	0.004	mg/L	8.574
Tl 190.800	0.0119	0.0122	0.002	mg/L	2.779
V 292.402	0.1236	0.1218	0.004	mg/L	1.471
Zn 213.856	0.1410	0.1419	0.001	mg/L	0.659

Replicate Data
ID: 6141-1 1/5 F=250 Date: 11/21/02 12:04:47 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1033.0	41.0	0.0002	mg/L	0.0508	ppm
1	Al 308.215	453345.0	448747.4	12.30	mg/L	3075	ppm
1	As 188.979	45.0	-24.4	0.0050	mg/L	1.259	ppm
1	Ba 233.527	37394.0	38259.6	0.1083	mg/L	27.08	ppm
1	Be 313.107	31.8	446.0	0.0002	mg/L	0.0402	ppm
1	Ca 227.547	145136.9	144853.4	554.0	mg/L	138500	ppm
1	Cd 228.802	147.9	58.2	0.0005	mg/L	0.1148	ppm
1	Co 228.616	353.3	770.0	0.0073	mg/L	1.820	ppm
1	Cr 267.716	2329.1	2488.9	0.0275	mg/L	6.880	ppm
1	Cu 324.754	4605.3	2318.4	0.0073	mg/L	1.819	ppm
1	Fe 273.955	728782.8	725792.9	14.58	mg/L	3644	ppm
1	Mg 279.079	457048.0	456451.9	14.37	mg/L	3593	ppm
1	Mn 257.610	524195.4	523074.7	0.3295	mg/L	82.39	ppm
1	Mo 202.030	-37.3	-8.8	-0.0005	mg/L	-0.1170	ppm
1	Ni 231.604	1029.1	753.9	0.0149	mg/L	3.724	ppm
1	Pb 220.353	286.3	101.4	0.0088	mg/L	2.192	ppm
1	Sb 206.833	69.2	8.6	0.0021	mg/L	0.5127	ppm
1	Se 196.026	75.7	-8.6	0.0013	mg/L	0.3151	ppm
1	Tl 190.800	212.4	23.9	0.0041	mg/L	1.014	ppm
1	V 292.402	2975.8	2813.1	0.0252	mg/L	6.307	ppm
1	Zn 213.856	2569.1	3152.5	0.0297	mg/L	7.433	ppm
2	Ag 328.068	-1253.5	-179.5	-0.0009	mg/L	-0.2225	ppm
2	Al 308.215	425400.6	420803.0	11.53	mg/L	2883	ppm
2	As 188.979	43.5	-25.9	0.0038	mg/L	0.9446	ppm
2	Ba 233.527	35249.2	36114.8	0.1022	mg/L	25.56	ppm
2	Be 313.107	43.6	457.9	0.0002	mg/L	0.0413	ppm
2	Ca 227.547	138225.6	137942.2	527.6	mg/L	131900	ppm
2	Cd 228.802	146.0	56.3	0.0004	mg/L	0.1110	ppm
2	Co 228.616	334.0	750.7	0.0071	mg/L	1.774	ppm
2	Cr 267.716	2260.7	2420.5	0.0268	mg/L	6.691	ppm
2	Cu 324.754	4546.7	2259.8	0.0071	mg/L	1.773	ppm
2	Fe 273.955	683977.8	680987.9	13.68	mg/L	3419	ppm
2	Mg 279.079	433228.2	432632.1	13.62	mg/L	3405	ppm
2	Mn 257.610	496523.0	495402.3	0.3121	mg/L	78.03	ppm
2	Mo 202.030	-37.0	-8.5	-0.0004	mg/L	-0.1124	ppm
2	Ni 231.604	1034.8	759.5	0.0150	mg/L	3.752	ppm
2	Pb 220.353	256.0	71.1	0.0066	mg/L	1.662	ppm
2	Sb 206.833	75.8	15.2	0.0036	mg/L	0.9070	ppm
2	Se 196.026	58.3	-26.0	-0.0053	mg/L	-1.329	ppm
2	Tl 190.800	202.2	13.6	0.0003	mg/L	0.0699	ppm
2	V 292.402	2972.3	2809.6	0.0252	mg/L	6.299	ppm
2	Zn 213.856	2580.7	3164.1	0.0298	mg/L	7.460	ppm
3	Ag 328.068	-1164.9	-91.0	-0.0005	mg/L	-0.1127	ppm
3	Al 308.215	420035.0	415437.4	11.39	mg/L	2847	ppm
3	As 188.979	44.9	-24.5	0.0040	mg/L	1.008	ppm
3	Ba 233.527	34496.8	35362.5	0.1001	mg/L	25.03	ppm
3	Be 313.107	-186.3	227.9	0.0001	mg/L	0.0206	ppm
3	Ca 227.547	135514.5	135231.1	517.2	mg/L	129300	ppm
3	Cd 228.802	137.0	47.3	0.0004	mg/L	0.0933	ppm
3	Co 228.616	308.8	725.5	0.0069	mg/L	1.714	ppm
3	Cr 267.716	2279.9	2439.6	0.0270	mg/L	6.744	ppm
3	Cu 324.754	4649.4	2362.5	0.0074	mg/L	1.854	ppm
3	Fe 273.955	678668.6	675678.8	13.57	mg/L	3392	ppm
3	Mg 279.079	427607.7	427011.6	13.44	mg/L	3361	ppm
3	Mn 257.610	489567.3	488446.5	0.3077	mg/L	76.93	ppm
3	Mo 202.030	-45.2	-16.7	-0.0009	mg/L	-0.2217	ppm
3	Ni 231.604	1007.2	731.9	0.0145	mg/L	3.616	ppm
3	Pb 220.353	268.0	83.1	0.0074	mg/L	1.853	ppm
3	Sb 206.833	60.8	0.1	0.0000	mg/L	0.0074	ppm
3	Se 196.026	69.6	-14.7	-0.0012	mg/L	-0.3108	ppm
3	Tl 190.800	206.2	17.7	0.0015	mg/L	0.3707	ppm
3	V 292.402	2979.4	2816.6	0.0253	mg/L	6.315	ppm
3	Zn 213.856	2579.4	3162.8	0.0298	mg/L	7.457	ppm

ean Data

D: 6141-1 1/5 F=250 Seq. No.: 17 Sample No.: 7 A/S Pos: 15
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 250.0
Data: Original Date: 11/21/02 12:04:47 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-76.5	-0.0004	0.00055	mg/L	-0.0948	0.13750	ppm	145.01%
l 308.215	428329.3	11.74	0.490	mg/L	2935	122.5	ppm	4.18%
s 188.979	-24.9	0.0043	0.00067	mg/L	1.070	0.1663	ppm	15.54%
a 233.527	36578.9	0.1035	0.00426	mg/L	25.89	1.064	ppm	4.11%
Be 313.107	377.3	0.0001	0.00005	mg/L	0.0340	0.01168	ppm	34.33%
Ca 227.547	139342.2	532.9	18.98	mg/L	133200	4744.1	ppm	3.56%
d 228.802	53.9	0.0004	0.00005	mg/L	0.1064	0.01148	ppm	10.79%
o 228.616	748.7	0.0071	0.00021	mg/L	1.769	0.0528	ppm	2.98%
Cr 267.716	2449.7	0.0271	0.00039	mg/L	6.772	0.0975	ppm	1.44%
Cu 324.754	2313.6	0.0073	0.00016	mg/L	1.816	0.0404	ppm	2.23%
e 273.955	694153.2	13.94	0.553	mg/L	3485	138.2	ppm	3.97%
g 279.079	438698.5	13.81	0.492	mg/L	3453	123.0	ppm	3.56%
n 257.610	502307.8	0.3165	0.01154	mg/L	79.12	2.885	ppm	3.65%
Mo 202.030	-11.4	-0.0006	0.00025	mg/L	-0.1504	0.06181	ppm	41.10%
i 231.604	748.5	0.0148	0.00029	mg/L	3.697	0.0721	ppm	1.95%
b 220.353	85.2	0.0076	0.00107	mg/L	1.902	0.2684	ppm	14.11%
b 206.833	8.0	0.0019	0.00180	mg/L	0.4757	0.45091	ppm	94.79%
Se 196.026	-16.4	-0.0018	0.00332	mg/L	-0.4416	0.82986	ppm	187.93%
l 190.800	18.4	0.0019	0.00193	mg/L	0.4848	0.48217	ppm	99.46%
292.402	2813.1	0.0252	0.00003	mg/L	6.307	0.0079	ppm	0.13%
n 213.856	3159.8	0.0298	0.00006	mg/L	7.450	0.0149	ppm	0.20%

Replicate Data

D: 6141-1 MS F=50 Date: 11/21/02 12:08:24 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	203997.7	205071.6	1.017	mg/L	50.83	ppm
1	Al 308.215	2071112.6	2066515.0	56.64	mg/L	2832	ppm
1	As 188.979	1230.7	1161.3	0.5189	mg/L	25.94	ppm
1	Ba 233.527	1495153.0	1496018.6	4.235	mg/L	211.7	ppm
1	Be 313.107	522622.9	523037.1	0.1888	mg/L	9.438	ppm
1	Ca 227.547	658407.3	658123.9	2517	mg/L	125900	ppm
1	Cd 228.802	31434.1	31344.3	0.2474	mg/L	12.37	ppm
1	Co 228.616	100543.6	100960.3	0.9544	mg/L	47.72	ppm
1	Cr 267.716	96800.9	96960.7	1.072	mg/L	53.61	ppm
1	Cu 324.754	308293.0	306006.1	0.9606	mg/L	48.03	ppm
1	Fe 273.955	3053109.4	3050119.6	61.25	mg/L	3063	ppm
1	Mg 279.079	2208564.7	2207968.5	69.52	mg/L	3476	ppm
1	Mn 257.610	3645920.2	3644799.5	2.296	mg/L	114.8	ppm
1	Mo 202.030	36124.4	36152.9	1.915	mg/L	95.76	ppm
1	Ni 231.604	48959.5	48684.3	0.9620	mg/L	48.10	ppm
1	Pb 220.353	41123.1	40938.2	2.751	mg/L	137.6	ppm
1	Sb 206.833	2084.3	2023.7	0.4504	mg/L	22.52	ppm
1	Se 196.026	1413.7	1329.4	0.4972	mg/L	24.86	ppm
1	Tl 190.800	1794.1	1605.5	0.4522	mg/L	22.61	ppm
1	V 292.402	230896.0	230733.2	2.069	mg/L	103.5	ppm
1	Zn 213.856	64563.5	65146.9	0.6079	mg/L	30.40	ppm
2	Ag 328.068	204001.3	205075.3	1.017	mg/L	50.83	ppm
2	Al 308.215	2046404.4	2041806.8	55.96	mg/L	2798	ppm
2	As 188.979	1248.4	1179.0	0.5247	mg/L	26.23	ppm
2	Ba 233.527	1475179.8	1476045.4	4.178	mg/L	208.9	ppm
2	Be 313.107	509420.1	509834.3	0.1840	mg/L	9.200	ppm
2	Ca 227.547	648222.5	647939.1	2478	mg/L	123900	ppm
2	Cd 228.802	31475.3	31385.5	0.2477	mg/L	12.39	ppm
2	Co 228.616	100328.3	100745.0	0.9523	mg/L	47.62	ppm
2	Cr 267.716	96998.9	97158.7	1.074	mg/L	53.72	ppm
2	Cu 324.754	311560.3	309273.4	0.9709	mg/L	48.54	ppm
2	Fe 273.955	3012055.0	3009065.1	60.43	mg/L	3021	ppm
2	Mg 279.079	2170858.4	2170262.3	68.33	mg/L	3417	ppm
2	Mn 257.610	3598854.9	3597734.2	2.267	mg/L	113.3	ppm
2	Mo 202.030	35662.0	35690.5	1.891	mg/L	94.53	ppm
2	Ni 231.604	48217.9	47942.7	0.9474	mg/L	47.37	ppm

2 Pb 220.353	40991.8	40806.9	2.742	mg/L	137.1 ppm
2 Sb 206.833	2090.7	2030.0	0.4519	mg/L	22.59 ppm
2 Se 196.026	1402.5	1318.2	0.4929	mg/L	24.65 ppm
2 Tl 190.800	1799.6	1611.0	0.4540	mg/L	22.70 ppm
2 V 292.402	232647.2	232484.5	2.085	mg/L	104.3 ppm
2 Zn 213.856	64617.1	65200.5	0.6085	mg/L	30.43 ppm
3 Ag 328.068	202495.1	203569.1	1.009	mg/L	50.46 ppm
3 Al 308.215	2060921.3	2056323.7	56.36	mg/L	2818 ppm
3 As 188.979	1245.9	1176.4	0.5240	mg/L	26.20 ppm
3 Ba 233.527	1484417.0	1485282.6	4.204	mg/L	210.2 ppm
3 Be 313.107	516441.1	516855.3	0.1865	mg/L	9.327 ppm
3 Ca 227.547	652190.7	651907.2	2493	mg/L	124700 ppm
3 Cd 228.802	31027.8	30938.0	0.2442	mg/L	12.21 ppm
3 Co 228.616	99877.4	100294.1	0.9481	mg/L	47.40 ppm
3 Cr 267.716	96149.5	96309.3	1.065	mg/L	53.25 ppm
3 Cu 324.754	311736.3	309449.4	0.9714	mg/L	48.57 ppm
3 Fe 273.955	3034061.2	3031071.4	60.87	mg/L	3044 ppm
3 Mg 279.079	2188729.9	2188133.7	68.89	mg/L	3445 ppm
3 Mn 257.610	3608435.7	3607315.0	2.273	mg/L	113.6 ppm
3 Mo 202.030	35852.6	35881.1	1.901	mg/L	95.04 ppm
3 Ni 231.604	48234.7	47959.5	0.9477	mg/L	47.38 ppm
3 Pb 220.353	40986.1	40801.2	2.742	mg/L	137.1 ppm
3 Sb 206.833	2070.3	2009.7	0.4473	mg/L	22.36 ppm
3 Se 196.026	1410.7	1326.4	0.4960	mg/L	24.80 ppm
3 Tl 190.800	1804.5	1616.0	0.4553	mg/L	22.76 ppm
3 V 292.402	229535.6	229372.8	2.057	mg/L	102.9 ppm
3 Zn 213.856	64533.5	65116.9	0.6077	mg/L	30.38 ppm

Mean Data ----------

ID: 6141-1 MS F=50 Seq. No.: 18 Sample No.: 8 A/S Pos: 16
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 12:08:24 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	204572.0	1.014	0.0043	mg/L	50.70	0.215	ppm	0.42%
Al 308.215	2054881.8	56.32	0.340	mg/L	2816	17.0	ppm	0.60%
As 188.979	1172.2	0.5225	0.00317	mg/L	26.13	0.159	ppm	0.61%
Ba 233.527	1485782.2	4.206	0.0283	mg/L	210.3	1.41	ppm	0.67%
Be 313.107	516575.6	0.1864	0.00238	mg/L	9.322	0.1192	ppm	1.28%
Ca 227.547	652656.7	2496	19.6	mg/L	124800	981.7	ppm	0.79%
Cd 228.802	31222.6	0.2464	0.00195	mg/L	12.32	0.098	ppm	0.79%
Co 228.616	100666.5	0.9516	0.00321	mg/L	47.58	0.161	ppm	0.34%
Cr 267.716	96809.6	1.070	0.0049	mg/L	53.52	0.246	ppm	0.46%
Cu 324.754	308243.0	0.9676	0.00609	mg/L	48.38	0.304	ppm	0.63%
Fe 273.955	3030085.4	60.85	0.413	mg/L	3043	20.6	ppm	0.68%
Mg 279.079	2188788.2	68.91	0.594	mg/L	3446	29.7	ppm	0.86%
Mn 257.610	3616616.2	2.279	0.0157	mg/L	113.9	0.78	ppm	0.69%
Mo 202.030	35908.2	1.902	0.0123	mg/L	95.11	0.615	ppm	0.65%
Ni 231.604	48195.5	0.9523	0.00837	mg/L	47.62	0.418	ppm	0.88%
Pb 220.353	40848.8	2.745	0.0053	mg/L	137.3	0.26	ppm	0.19%
Sb 206.833	2021.1	0.4498	0.00235	mg/L	22.49	0.118	ppm	0.52%
Se 196.026	1324.7	0.4954	0.00221	mg/L	24.77	0.110	ppm	0.45%
Tl 190.800	1610.8	0.4538	0.00156	mg/L	22.69	0.078	ppm	0.34%
V 292.402	230863.5	2.071	0.0140	mg/L	103.5	0.70	ppm	0.68%
Zn 213.856	65154.8	0.6081	0.00043	mg/L	30.40	0.021	ppm	0.07%

Matrix Check Sample: 6141-1 MS F=50

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
Ag 328.068	0.9995	1.014	0.004	mg/L	101.458
Al 308.215	60.10	56.32	0.340	mg/L	-88.704
As 188.979	0.5386	0.5225	0.003	mg/L	96.790
Ba 233.527	4.483	4.206	0.028	mg/L	93.062
Be 313.107	0.2006	0.1864	0.002	mg/L	92.900
Ca 227.547	2655	2496	19.634	mg/L	-693.738
Cd 228.802	0.2524	0.2464	0.002	mg/L	97.604
Co 228.616	1.028	0.9516	0.003	mg/L	92.358
Cr 267.716	1.127	1.070	0.005	mg/L	94.377

ı	324.754	1.034	0.9676	0.006	mg/L	93.364
ɜ	273.955	65.04	60.85	0.413	mg/L	-318.527
Mg	279.079	73.77	68.91	0.594	mg/L	51.480
Mn	257.610	2.468	2.279	0.016	mg/L	81.081
ɔ	202.030	1.998	1.902	0.012	mg/L	95.188
.	231.604	1.057	0.9523	0.008	mg/L	89.536
ɔb	220.353	3.042	2.745	0.005	mg/L	90.093
Sb	206.833	0.5011	0.4498	0.002	mg/L	89.739
^ɜ	196.026	0.5017	0.4954	0.002	mg/L	98.727
	190.800	0.5119	0.4538	0.002	mg/L	88.380
	292.402	2.124	2.071	0.014	mg/L	97.345
Zn	213.856	0.6410	0.6081	0.000	mg/L	93.412

ɜplicate Data ----------

): 6141-1 MSD F=50 Date: 11/21/02 12:12:05 PM

ɜpl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	203622.7	204696.6	1.015	mg/L	50.74	ppm
1	Al 308.215	2088909.6	2084312.0	57.13	mg/L	2856	ppm
1	As 188.979	1240.8	1171.3	0.5232	mg/L	26.16	ppm
1	Ba 233.527	1506393.1	1507258.7	4.267	mg/L	213.3	ppm
1	Be 313.107	522659.5	523073.7	0.1888	mg/L	9.439	ppm
1	Ca 227.547	663402.0	663118.5	2536	mg/L	126800	ppm
1	Cd 228.802	31611.9	31522.2	0.2488	mg/L	12.44	ppm
1	Co 228.616	100366.4	100783.1	0.9527	mg/L	47.63	ppm
1	Cr 267.716	96605.3	96765.1	1.070	mg/L	53.50	ppm
1	Cu 324.754	310401.2	308114.3	0.9672	mg/L	48.36	ppm
1	Fe 273.955	3075912.7	3072922.8	61.71	mg/L	3086	ppm
1	Mg 279.079	2221128.2	2220532.1	69.91	mg/L	3496	ppm
1	Mn 257.610	3678322.0	3677201.3	2.317	mg/L	115.8	ppm
1	Mo 202.030	35736.3	35764.8	1.895	mg/L	94.73	ppm
1	Ni 231.604	48530.5	48255.3	0.9535	mg/L	47.68	ppm
1	Pb 220.353	41009.1	40824.2	2.744	mg/L	137.2	ppm
1	Sb 206.833	2098.6	2038.0	0.4539	mg/L	22.69	ppm
1	Se 196.026	1406.3	1322.0	0.4946	mg/L	24.73	ppm
1	Tl 190.800	1785.8	1597.2	0.4496	mg/L	22.48	ppm
1	V 292.402	231854.9	231692.1	2.078	mg/L	103.9	ppm
1	Zn 213.856	64444.5	65027.9	0.6068	mg/L	30.34	ppm
2	Ag 328.068	203194.1	204268.0	1.013	mg/L	50.63	ppm
2	Al 308.215	2140799.2	2136201.6	58.55	mg/L	2927	ppm
2	As 188.979	1225.0	1155.5	0.5180	mg/L	25.90	ppm
2	Ba 233.527	1530605.2	1531470.8	4.335	mg/L	216.8	ppm
2	Be 313.107	535316.3	535730.5	0.1933	mg/L	9.667	ppm
2	Ca 227.547	672670.3	672386.9	2572	mg/L	128600	ppm
2	Cd 228.802	31024.8	30935.0	0.2442	mg/L	12.21	ppm
2	Co 228.616	99731.9	100148.6	0.9467	mg/L	47.33	ppm
2	Cr 267.716	96157.5	96317.2	1.065	mg/L	53.25	ppm
2	Cu 324.754	311424.5	309137.6	0.9704	mg/L	48.52	ppm
2	Fe 273.955	3141699.0	3138709.1	63.03	mg/L	3152	ppm
2	Mg 279.079	2248831.1	2248235.0	70.79	mg/L	3539	ppm
2	Mn 257.610	3710932.6	3709811.9	2.337	mg/L	116.9	ppm
2	Mo 202.030	35823.1	35851.6	1.899	mg/L	94.96	ppm
2	Ni 231.604	48162.9	47887.7	0.9463	mg/L	47.31	ppm
2	Pb 220.353	40886.6	40701.7	2.736	mg/L	136.8	ppm
2	Sb 206.833	2080.2	2019.6	0.4495	mg/L	22.48	ppm
2	Se 196.026	1385.7	1301.4	0.4874	mg/L	24.37	ppm
2	Tl 190.800	1797.2	1608.6	0.4526	mg/L	22.63	ppm
2	V 292.402	229814.6	229651.9	2.060	mg/L	103.0	ppm
2	Zn 213.856	63879.8	64463.2	0.6013	mg/L	30.07	ppm
3	Ag 328.068	197805.5	198879.5	0.9859	mg/L	49.29	ppm
3	Al 308.215	2075996.0	2071398.4	56.77	mg/L	2839	ppm
3	As 188.979	1217.2	1147.7	0.5137	mg/L	25.68	ppm
3	Ba 233.527	1494609.7	1495475.3	4.233	mg/L	211.7	ppm
3	Be 313.107	521774.1	522188.3	0.1885	mg/L	9.423	ppm
3	Ca 227.547	661352.7	661069.3	2528	mg/L	126400	ppm
3	Cd 228.802	30627.0	30537.3	0.2410	mg/L	12.05	ppm
3	Co 228.616	98233.6	98650.3	0.9325	mg/L	46.63	ppm
3	Cr 267.716	93800.8	93960.6	1.039	mg/L	51.95	ppm

3 Cu 324.754	308766.0	306479.1	0.9621 mg/L	48.10 ppm
3 Fe 273.955	3047407.2	3044417.3	61.14 mg/L	3057 ppm
3 Mg 279.079	2205365.3	2204769.2	69.42 mg/L	3471 ppm
3 Mn 257.610	3654476.6	3653355.9	2.302 mg/L	115.1 ppm
3 Mo 202.030	34994.2	35022.7	1.855 mg/L	92.76 ppm
3 Ni 231.604	47845.2	47570.0	0.9400 mg/L	47.00 ppm
3 Pb 220.353	40383.2	40198.4	2.702 mg/L	135.1 ppm
3 Sb 206.833	2057.5	1996.9	0.4449 mg/L	22.25 ppm
3 Se 196.026	1395.8	1311.5	0.4906 mg/L	24.53 ppm
3 Tl 190.800	1795.1	1606.6	0.4525 mg/L	22.63 ppm
3 V 292.402	224400.7	224238.0	2.011 mg/L	100.6 ppm
3 Zn 213.856	63927.3	64510.7	0.6020 mg/L	30.10 ppm

Mean Data ----------

ID: 6141-1 MSD F=50 Seq. No.: 19 Sample No.: 9 A/S Pos: 17
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 12:12:05 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	202614.7	1.004	0.0161	mg/L	50.22	0.804	ppm	1.60%
Al 308.215	2097304.0	57.48	0.940	mg/L	2874	47.0	ppm	1.64%
As 188.979	1158.2	0.5183	0.00477	mg/L	25.92	0.238	ppm	0.92%
Ba 233.527	1511401.6	4.278	0.0519	mg/L	213.9	2.60	ppm	1.21%
Be 313.107	526997.5	0.1902	0.00273	mg/L	9.510	0.1367	ppm	1.44%
Ca 227.547	665524.9	2545	23.1	mg/L	127300	1153.2	ppm	0.91%
Cd 228.802	30998.2	0.2447	0.00391	mg/L	12.23	0.196	ppm	1.60%
Co 228.616	99860.7	0.9440	0.01035	mg/L	47.20	0.518	ppm	1.10%
Cr 267.716	95681.0	1.058	0.0167	mg/L	52.90	0.833	ppm	1.57%
Cu 324.754	307910.3	0.9666	0.00421	mg/L	48.33	0.210	ppm	0.44%
Fe 273.955	3085349.8	61.96	0.971	mg/L	3098	48.6	ppm	1.57%
Mg 279.079	2224512.1	70.04	0.693	mg/L	3502	34.6	ppm	0.99%
Mn 257.610	3680123.0	2.319	0.0179	mg/L	115.9	0.89	ppm	0.77%
Mo 202.030	35546.4	1.883	0.0241	mg/L	94.15	1.207	ppm	1.28%
Ni 231.604	47904.3	0.9466	0.00678	mg/L	47.33	0.339	ppm	0.72%
Pb 220.353	40574.8	2.727	0.0223	mg/L	136.4	1.11	ppm	0.82%
Sb 206.833	2018.2	0.4494	0.00445	mg/L	22.47	0.223	ppm	0.99%
Se 196.026	1311.6	0.4909	0.00360	mg/L	24.54	0.180	ppm	0.73%
Tl 190.800	1604.2	0.4516	0.00168	mg/L	22.58	0.084	ppm	0.37%
V 292.402	228527.3	2.050	0.0345	mg/L	102.5	1.73	ppm	1.69%
Zn 213.856	64667.2	0.6033	0.00299	mg/L	30.17	0.149	ppm	0.49%

Matrix Check Sample: 6141-1 MSD F=50

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
Ag 328.068	0.9995	1.004	0.016	mg/L	100.487
Al 308.215	60.10	57.48	0.940	mg/L	-30.568
As 188.979	0.5386	0.5183	0.005	mg/L	95.945
Ba 233.527	4.483	4.278	0.052	mg/L	94.875
Be 313.107	0.2006	0.1902	0.003	mg/L	94.781
Ca 227.547	2655	2545	23.064	mg/L	-447.655
Cd 228.802	0.2524	0.2447	0.004	mg/L	96.896
Co 228.616	1.028	0.9440	0.010	mg/L	91.597
Cr 267.716	1.127	1.058	0.017	mg/L	93.129
Cu 324.754	1.034	0.9666	0.004	mg/L	93.260
Fe 273.955	65.04	61.96	0.971	mg/L	-207.544
Mg 279.079	73.77	70.04	0.693	mg/L	62.728
Mn 257.610	2.468	2.319	0.018	mg/L	85.082
Mo 202.030	1.998	1.883	0.024	mg/L	94.230
Ni 231.604	1.057	0.9466	0.007	mg/L	88.960
Pb 220.353	3.042	2.727	0.022	mg/L	89.490
Sb 206.833	0.5011	0.4494	0.004	mg/L	89.661
Se 196.026	0.5017	0.4909	0.004	mg/L	97.830
Tl 190.800	0.5119	0.4516	0.002	mg/L	87.937
V 292.402	2.124	2.050	0.035	mg/L	96.297
Zn 213.856	0.6410	0.6033	0.003	mg/L	92.469

Replicate Data ----------

ID: 6141-1 PS F=50 Date: 11/21/02 12:15:42 PM

pl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	197021.8	198095.7	0.9820	mg/L	49.10	ppm
1	Al 308.215	2085064.7	2080467.1	57.02	mg/L	2851	ppm
1	As 188.979	1257.1	1187.6	0.5287	mg/L	26.43	ppm
1	Ba 233.527	1501462.6	1502328.3	4.253	mg/L	212.6	ppm
1	Be 313.107	525708.9	526123.1	0.1899	mg/L	9.494	ppm
1	Ca 227.547	658201.1	657917.7	2516	mg/L	125800	ppm
1	Cd 228.802	30392.9	30303.1	0.2392	mg/L	11.96	ppm
1	Co 228.616	97345.9	97762.6	0.9241	mg/L	46.21	ppm
1	Cr 267.716	93284.3	93444.1	1.033	mg/L	51.66	ppm
1	Cu 324.754	300767.6	298480.7	0.9370	mg/L	46.85	ppm
1	Fe 273.955	3076493.4	3073503.5	61.72	mg/L	3086	ppm
1	Mg 279.079	2210329.9	2209733.8	69.57	mg/L	3479	ppm
1	Mn 257.610	3664438.5	3663317.8	2.308	mg/L	115.4	ppm
1	Mo 202.030	34792.3	34820.8	1.845	mg/L	92.23	ppm
1	Ni 231.604	47383.1	47107.9	0.9309	mg/L	46.54	ppm
1	Pb 220.353	39790.3	39605.4	2.662	mg/L	133.1	ppm
1	Sb 206.833	2158.8	2098.2	0.4693	mg/L	23.47	ppm
1	Se 196.026	1408.1	1323.8	0.4953	mg/L	24.76	ppm
1	Tl 190.800	1817.7	1629.2	0.4589	mg/L	22.95	ppm
1	V 292.402	222244.7	222082.0	1.992	mg/L	99.59	ppm
1	Zn 213.856	62384.9	62968.3	0.5873	mg/L	29.37	ppm
2	Ag 328.068	202180.7	203254.6	1.008	mg/L	50.38	ppm
2	Al 308.215	2057112.9	2052515.3	56.26	mg/L	2813	ppm
2	As 188.979	1244.5	1175.1	0.5239	mg/L	26.20	ppm
2	Ba 233.527	1484691.5	1485557.1	4.205	mg/L	210.3	ppm
2	Be 313.107	519183.0	519597.2	0.1875	mg/L	9.376	ppm
2	Ca 227.547	656771.4	656488.0	2511	mg/L	125500	ppm
2	Cd 228.802	31257.0	31167.2	0.2460	mg/L	12.30	ppm
2	Co 228.616	99918.9	100335.6	0.9485	mg/L	47.42	ppm
2	Cr 267.716	95612.3	95772.1	1.059	mg/L	52.95	ppm
2	Cu 324.754	314403.9	312116.9	0.9798	mg/L	48.99	ppm
2	Fe 273.955	3028557.8	3025568.0	60.76	mg/L	3038	ppm
2	Mg 279.079	2194557.1	2193961.0	69.08	mg/L	3454	ppm
2	Mn 257.610	3657217.0	3656096.3	2.303	mg/L	115.2	ppm
2	Mo 202.030	35971.9	36000.5	1.907	mg/L	95.35	ppm
2	Ni 231.604	48619.1	48343.9	0.9553	mg/L	47.76	ppm
2	Pb 220.353	41065.1	40880.2	2.747	mg/L	137.4	ppm
2	Sb 206.833	2162.1	2101.5	0.4694	mg/L	23.47	ppm
2	Se 196.026	1408.7	1324.4	0.4953	mg/L	24.76	ppm
2	Tl 190.800	1835.4	1646.9	0.4643	mg/L	23.22	ppm
2	V 292.402	229107.1	228944.4	2.053	mg/L	102.7	ppm
2	Zn 213.856	64547.7	65131.1	0.6078	mg/L	30.39	ppm
3	Ag 328.068	197187.3	198261.2	0.9828	mg/L	49.14	ppm
3	Al 308.215	2126140.6	2121543.0	58.15	mg/L	2907	ppm
3	As 188.979	1252.7	1183.3	0.5283	mg/L	26.42	ppm
3	Ba 233.527	1523878.4	1524744.0	4.316	mg/L	215.8	ppm
3	Be 313.107	532839.3	533253.5	0.1925	mg/L	9.623	ppm
3	Ca 227.547	671248.7	670965.2	2566	mg/L	128300	ppm
3	Cd 228.802	30516.8	30427.0	0.2401	mg/L	12.01	ppm
3	Co 228.616	97671.3	98088.0	0.9272	mg/L	46.36	ppm
3	Cr 267.716	93666.1	93825.8	1.037	mg/L	51.87	ppm
3	Cu 324.754	306133.6	303846.7	0.9538	mg/L	47.69	ppm
3	Fe 273.955	3119948.1	3116958.3	62.60	mg/L	3130	ppm
3	Mg 279.079	2247537.1	2246940.9	70.75	mg/L	3537	ppm
3	Mn 257.610	3736776.0	3735655.3	2.354	mg/L	117.7	ppm
3	Mo 202.030	35207.0	35235.5	1.867	mg/L	93.33	ppm
3	Ni 231.604	47094.6	46819.4	0.9252	mg/L	46.26	ppm
3	Pb 220.353	39951.0	39766.1	2.673	mg/L	133.7	ppm
3	Sb 206.833	2149.8	2089.1	0.4670	mg/L	23.35	ppm
3	Se 196.026	1414.9	1330.6	0.4979	mg/L	24.90	ppm
3	Tl 190.800	1814.9	1626.4	0.4579	mg/L	22.89	ppm
3	V 292.402	224594.4	224431.7	2.013	mg/L	100.6	ppm
3	Zn 213.856	62735.0	63318.4	0.5906	mg/L	29.53	ppm

Scan Data ----------

ID: 6141-1 PS F=50 Seq. No.: 20 Sample No.: 10 A/S Pos: 18

Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 12:15:42 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	199870.5	0.9908	0.01453	mg/L	49.54	0.727	ppm	1.47%
Al 308.215	2084841.8	57.14	0.952	mg/L	2857	47.6	ppm	1.67%
As 188.979	1182.0	0.5270	0.00265	mg/L	26.35	0.132	ppm	0.50%
Ba 233.527	1504209.8	4.258	0.0557	mg/L	212.9	2.78	ppm	1.31%
Be 313.107	526324.6	0.1900	0.00247	mg/L	9.498	0.1233	ppm	1.30%
Ca 227.547	661790.3	2531	30.5	mg/L	126600	1525.6	ppm	1.21%
Cd 228.802	30632.5	0.2418	0.00369	mg/L	12.09	0.184	ppm	1.53%
Co 228.616	98728.7	0.9333	0.01324	mg/L	46.66	0.662	ppm	1.42%
Cr 267.716	94347.4	1.043	0.0138	mg/L	52.16	0.690	ppm	1.32%
Cu 324.754	304814.8	0.9569	0.02156	mg/L	47.84	1.078	ppm	2.25%
Fe 273.955	3072009.9	61.69	0.918	mg/L	3085	45.9	ppm	1.49%
Mg 279.079	2216878.5	69.80	0.856	mg/L	3490	42.8	ppm	1.23%
Mn 257.610	3685023.1	2.322	0.0277	mg/L	116.1	1.39	ppm	1.19%
Mo 202.030	35352.3	1.873	0.0317	mg/L	93.63	1.585	ppm	1.69%
Ni 231.604	47423.7	0.9371	0.01600	mg/L	46.85	0.800	ppm	1.71%
Pb 220.353	40083.9	2.694	0.0464	mg/L	134.7	2.32	ppm	1.72%
Sb 206.833	2096.3	0.4686	0.00136	mg/L	23.43	0.068	ppm	0.29%
Se 196.026	1326.3	0.4962	0.00154	mg/L	24.81	0.077	ppm	0.31%
Tl 190.800	1634.1	0.4604	0.00346	mg/L	23.02	0.173	ppm	0.75%
V 292.402	225152.7	2.019	0.0313	mg/L	101.0	1.56	ppm	1.55%
Zn 213.856	63805.9	0.5952	0.01103	mg/L	29.76	0.551	ppm	1.85%

Matrix Check Sample: 6141-1 PS F=50

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
Ag 328.068	0.9995	0.9908	0.015	mg/L	99.127
Al 308.215	60.10	57.14	0.952	mg/L	-47.647
As 188.979	0.5386	0.5270	0.003	mg/L	97.677
Ba 233.527	4.483	4.258	0.056	mg/L	94.366
Be 313.107	0.2006	0.1900	0.002	mg/L	94.659
Ca 227.547	2655	2531	30.513	mg/L	-519.073
Cd 228.802	0.2524	0.2418	0.004	mg/L	95.741
Co 228.616	1.028	0.9333	0.013	mg/L	90.526
Cr 267.716	1.127	1.043	0.014	mg/L	91.655
Cu 324.754	1.034	0.9569	0.022	mg/L	92.288
Fe 273.955	65.04	61.69	0.918	mg/L	-234.333
Mg 279.079	73.77	69.80	0.856	mg/L	60.324
Mn 257.610	2.468	2.322	0.028	mg/L	85.391
Mo 202.030	1.998	1.873	0.032	mg/L	93.716
Ni 231.604	1.057	0.9371	0.016	mg/L	88.011
Pb 220.353	3.042	2.694	0.046	mg/L	88.393
Sb 206.833	0.5011	0.4686	0.001	mg/L	93.485
Se 196.026	0.5017	0.4962	0.002	mg/L	98.883
Tl 190.800	0.5119	0.4604	0.003	mg/L	89.694
V 292.402	2.124	2.019	0.031	mg/L	94.784
Zn 213.856	0.6410	0.5952	0.011	mg/L	90.850

Replicate Data

ID: CCV 1379B Date: 11/21/02 12:19:20 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	207244.0	208318.0	1.033	mg/L		
1	Al 308.215	191455.9	186858.4	5.121	mg/L		
1	As 188.979	1399.3	1329.9	0.5159	mg/L		
1	Ba 233.527	1805819.5	1806685.1	5.114	mg/L		
1	Be 313.107	1388243.5	1388657.7	0.5012	mg/L		
1	Ca 227.547	13903.8	13620.3	52.09	mg/L		
1	Cd 228.802	132799.4	132709.7	1.047	mg/L		
1	Co 228.616	223152.4	223569.1	2.113	mg/L		
1	Cr 267.716	46968.5	47128.3	0.5211	mg/L		
1	Cu 324.754	655846.8	653559.9	2.052	mg/L		
1	Fe 273.955	261827.7	258837.9	5.198	mg/L		
1	Mg 279.079	811803.2	811207.1	25.54	mg/L		
1	Mn 257.610	3272006.5	3270885.8	2.061	mg/L		

1	Mo 202.030	39056.3	39084.8	2.070 mg/L
1	Ni 231.604	106240.6	105965.4	2.094 mg/L
1	Pb 220.353	7819.0	7634.1	0.5108 mg/L
1	Sb 206.833	8654.8	8594.2	2.040 mg/L
1	Se 196.026	1507.9	1423.6	0.5186 mg/L
1	Tl 190.800	1960.0	1771.4	0.5150 mg/L
1	V 292.402	231048.8	230886.0	2.071 mg/L
1	Zn 213.856	217945.3	218528.7	2.061 mg/L
2	Ag 328.068	203242.3	204316.3	1.013 mg/L
2	Al 308.215	187692.6	183095.1	5.018 mg/L
2	As 188.979	1389.7	1320.3	0.5121 mg/L
2	Ba 233.527	1905660.3	1906525.9	5.397 mg/L
2	Be 313.107	1472915.1	1473329.3	0.5317 mg/L
2	Ca 227.547	13610.9	13327.4	50.97 mg/L
2	Cd 228.802	129901.9	129812.1	1.025 mg/L
2	Co 228.616	217079.8	217496.5	2.056 mg/L
2	Cr 267.716	46010.5	46170.3	0.5105 mg/L
2	Cu 324.754	694449.7	692162.7	2.173 mg/L
2	Fe 273.955	255809.4	252819.5	5.077 mg/L
2	Mg 279.079	856930.1	856333.9	26.96 mg/L
2	Mn 257.610	3440988.6	3439867.9	2.167 mg/L
2	Mo 202.030	38047.5	38076.0	2.017 mg/L
2	Ni 231.604	103594.0	103318.8	2.042 mg/L
2	Pb 220.353	7763.8	7579.0	0.5071 mg/L
2	Sb 206.833	8614.7	8554.1	2.031 mg/L
2	Se 196.026	1509.8	1425.5	0.5193 mg/L
2	Tl 190.800	1973.6	1785.0	0.5190 mg/L
2	V 292.402	225295.8	225133.0	2.019 mg/L
2	Zn 213.856	213246.0	213829.4	2.017 mg/L
3	Ag 328.068	209638.9	210712.8	1.045 mg/L
3	Al 308.215	193932.1	189334.5	5.189 mg/L
3	As 188.979	1382.2	1312.8	0.5094 mg/L
3	Ba 233.527	1838112.2	1838977.8	5.206 mg/L
3	Be 313.107	1416718.6	1417132.8	0.5114 mg/L
3	Ca 227.547	14075.1	13791.6	52.75 mg/L
3	Cd 228.802	133388.7	133299.0	1.052 mg/L
3	Co 228.616	223938.9	224355.6	2.121 mg/L
3	Cr 267.716	47348.4	47508.2	0.5253 mg/L
3	Cu 324.754	671308.9	669021.9	2.100 mg/L
3	Fe 273.955	262881.0	259891.2	5.219 mg/L
3	Mg 279.079	827103.3	826507.2	26.02 mg/L
3	Mn 257.610	3332340.8	3331220.1	2.099 mg/L
3	Mo 202.030	39381.5	39410.0	2.088 mg/L
3	Ni 231.604	106850.6	106575.4	2.106 mg/L
3	Pb 220.353	7734.9	7550.0	0.5052 mg/L
3	Sb 206.833	8562.9	8502.3	2.018 mg/L
3	Se 196.026	1489.5	1405.2	0.5119 mg/L
3	Tl 190.800	1955.5	1766.9	0.5137 mg/L
3	V 292.402	233894.2	233731.5	2.096 mg/L
3	Zn 213.856	220980.6	221564.0	2.090 mg/L

Mean Data ----------

ID: CCV 1379B Seq. No.: 21 Sample No.: 5 A/S Pos: 6
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 12:19:20 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	207782.4	1.030	0.0160	mg/L				1.56%
Al 308.215	186429.3	5.110	0.0861	mg/L				1.69%
As 188.979	1321.0	0.5124	0.00328	mg/L				0.64%
Ba 233.527	1850729.6	5.239	0.1442	mg/L				2.75%
Be 313.107	1426373.2	0.5148	0.01555	mg/L				3.02%
Ca 227.547	13579.8	51.94	0.898	mg/L				1.73%
Cd 228.802	131940.3	1.041	0.0147	mg/L				1.41%
Co 228.616	221807.1	2.097	0.0355	mg/L				1.69%
Cr 267.716	46935.6	0.5190	0.00762	mg/L				1.47%
Cu 324.754	671581.5	2.108	0.0610	mg/L				2.89%
Fe 273.955	257182.9	5.165	0.0766	mg/L				1.48%
Mg 279.079	831349.4	26.18	0.723	mg/L				2.76%

Mn 257.610	3347324.6	2.109	0.0540 mg/L	2.56%
Mo 202.030	38856.9	2.058	0.0368 mg/L	1.79%
Ni 231.604	105286.5	2.080	0.0342 mg/L	1.64%
Pb 220.353	7587.7	0.5077	0.00286 mg/L	0.56%
Sb 206.833	8550.2	2.030	0.0111 mg/L	0.55%
Se 196.026	1418.1	0.5166	0.00406 mg/L	0.79%
Tl 190.800	1774.5	0.5159	0.00274 mg/L	0.53%
V 292.402	229916.8	2.062	0.0393 mg/L	1.91%
Zn 213.856	217974.1	2.056	0.0368 mg/L	1.79%

Replicate Data ----------
ID: CCB
Date: 11/21/02 12:24:52 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-954.4	119.6	0.0006	mg/L		
1	Al 308.215	4967.4	369.8	0.0101	mg/L		
1	As 188.979	65.6	-3.9	-0.0015	mg/L		
1	Ba 233.527	-660.0	205.6	0.0006	mg/L		
1	Be 313.107	77.4	491.6	0.0002	mg/L		
1	Ca 227.547	253.7	-29.7	-0.1137	mg/L		
1	Cd 228.802	112.4	22.7	0.0002	mg/L		
1	Co 228.616	-290.7	126.0	0.0012	mg/L		
1	Cr 267.716	-113.1	46.7	0.0005	mg/L		
1	Cu 324.754	2380.0	93.1	0.0003	mg/L		
1	Fe 273.955	2526.0	-463.9	-0.0093	mg/L		
1	Mg 279.079	464.4	-131.8	-0.0041	mg/L		
1	Mn 257.610	1941.2	820.5	0.0005	mg/L		
1	Mo 202.030	-14.9	13.6	0.0007	mg/L		
1	Ni 231.604	460.4	185.2	0.0037	mg/L		
1	Pb 220.353	192.2	7.3	0.0005	mg/L		
1	Sb 206.833	72.6	12.0	0.0029	mg/L		
1	Se 196.026	85.9	1.6	0.0006	mg/L		
1	Tl 190.800	186.7	-1.9	-0.0005	mg/L		
1	V 292.402	192.0	29.3	0.0003	mg/L		
1	Zn 213.856	-493.2	90.2	0.0009	mg/L		
2	Ag 328.068	-1041.9	32.1	0.0002	mg/L		
2	Al 308.215	4657.5	59.9	0.0016	mg/L		
2	As 188.979	66.3	-3.1	-0.0012	mg/L		
2	Ba 233.527	-740.1	125.5	0.0004	mg/L		
2	Be 313.107	-23.9	390.3	0.0001	mg/L		
2	Ca 227.547	233.4	-50.1	-0.1915	mg/L		
2	Cd 228.802	117.4	27.6	0.0002	mg/L		
2	Co 228.616	-224.1	192.6	0.0018	mg/L		
2	Cr 267.716	-87.9	71.8	0.0008	mg/L		
2	Cu 324.754	2731.4	444.5	0.0014	mg/L		
2	Fe 273.955	2088.7	-901.1	-0.0181	mg/L		
2	Mg 279.079	577.1	-19.1	-0.0006	mg/L		
2	Mn 257.610	1745.0	624.3	0.0004	mg/L		
2	Mo 202.030	-16.1	12.4	0.0007	mg/L		
2	Ni 231.604	460.8	185.6	0.0037	mg/L		
2	Pb 220.353	195.9	11.0	0.0007	mg/L		
2	Sb 206.833	61.2	0.6	0.0001	mg/L		
2	Se 196.026	89.5	5.2	0.0019	mg/L		
2	Tl 190.800	188.6	0.1	0.0000	mg/L		
2	V 292.402	320.3	157.5	0.0014	mg/L		
2	Zn 213.856	-506.0	77.4	0.0007	mg/L		
3	Ag 328.068	-1141.1	-67.2	-0.0003	mg/L		
3	Al 308.215	4772.5	174.9	0.0048	mg/L		
3	As 188.979	64.2	-5.2	-0.0020	mg/L		
3	Ba 233.527	-741.4	124.2	0.0004	mg/L		
3	Be 313.107	-200.8	213.4	0.0001	mg/L		
3	Ca 227.547	218.7	-64.8	-0.2477	mg/L		
3	Cd 228.802	81.3	-8.4	-0.0001	mg/L		
3	Co 228.616	-323.6	93.1	0.0009	mg/L		
3	Cr 267.716	-119.0	40.7	0.0005	mg/L		
3	Cu 324.754	2528.8	241.8	0.0008	mg/L		
3	Fe 273.955	2047.0	-942.9	-0.0189	mg/L		
3	Mg 279.079	773.7	177.5	0.0056	mg/L		

3 Mn 257.610	1563.5	442.8	0.0003	mg/L
3 Mo 202.030	-29.1	-0.6	0.0000	mg/L
3 Ni 231.604	390.7	115.5	0.0023	mg/L
3 Pb 220.353	187.9	3.0	0.0002	mg/L
3 Sb 206.833	78.0	17.4	0.0042	mg/L
3 Se 196.026	90.8	6.5	0.0024	mg/L
3 Tl 190.800	196.4	7.9	0.0023	mg/L
3 V 292.402	202.0	39.2	0.0004	mg/L
3 Zn 213.856	-518.5	64.9	0.0006	mg/L

ean Data

ID: CCB Seq. No.: 22 Sample No.: 6 A/S Pos: 1
ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 12:24:52 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	28.2	0.0001	0.00046	mg/L				331.89%
l 308.215	201.6	0.0055	0.00429	mg/L				77.72%
As 188.979	-4.1	-0.0016	0.00040	mg/L				25.50%
Ba 233.527	151.8	0.0004	0.00013	mg/L				30.73%
e 313.107	365.1	0.0001	0.00005	mg/L				38.57%
a 227.547	-48.2	-0.1843	0.06728	mg/L				36.51%
Cd 228.802	13.9	0.0001	0.00015	mg/L				140.19%
Co 228.616	137.3	0.0013	0.00048	mg/L				36.92%
r 267.716	53.1	0.0006	0.00018	mg/L				31.10%
u 324.754	259.8	0.0008	0.00055	mg/L				67.90%
e 273.955	-769.3	-0.0154	0.00533	mg/L				34.49%
Mg 279.079	8.9	0.0003	0.00493	mg/L				>999.9%
n 257.610	629.2	0.0004	0.00012	mg/L				30.02%
o 202.030	8.5	0.0004	0.00042	mg/L				92.68%
i 231.604	162.1	0.0032	0.00080	mg/L				24.88%
Pb 220.353	7.1	0.0005	0.00027	mg/L				56.13%
Sb 206.833	10.0	0.0024	0.00206	mg/L				86.06%
e 196.026	4.4	0.0016	0.00093	mg/L				57.51%
l 190.800	2.1	0.0006	0.00150	mg/L				251.90%
V 292.402	75.4	0.0007	0.00064	mg/L				94.69%
Zn 213.856	77.5	0.0007	0.00012	mg/L				16.33%

eplicate Data

ID: 6141-2 F=50 Date: 11/21/02 12:28:01 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1782.3	-708.3	-0.0035	mg/L	-0.1756	ppm
1	Al 308.215	3510721.5	3506124.0	96.10	mg/L	4805	ppm
1	As 188.979	47.0	-22.5	0.0377	mg/L	1.887	ppm
1	Ba 233.527	195615.8	196481.4	0.5562	mg/L	27.81	ppm
1	Be 313.107	2435.8	2850.0	0.0010	mg/L	0.0514	ppm
1	Ca 227.547	455376.8	455093.3	1743	mg/L	87170	ppm
1	Cd 228.802	342.0	252.2	0.0020	mg/L	0.0995	ppm
1	Co 228.616	4831.3	5248.0	0.0496	mg/L	2.480	ppm
1	Cr 267.716	17195.7	17355.4	0.1919	mg/L	9.595	ppm
1	Cu 324.754	19808.3	17521.4	0.0607	mg/L	3.036	ppm
1	Fe 273.955	6210946.7	6207956.8	124.7	mg/L	6233	ppm
1	Mg 279.079	2331521.8	2330925.6	73.39	mg/L	3670	ppm
1	Mn 257.610	2930628.4	2929507.7	1.846	mg/L	92.28	ppm
1	Mo 202.030	-51.1	-22.6	-0.0060	mg/L	-0.3017	ppm
1	Ni 231.604	4854.4	4579.1	0.0905	mg/L	4.524	ppm
1	Pb 220.353	720.6	535.7	0.0473	mg/L	2.367	ppm
1	Sb 206.833	65.1	4.5	-0.0125	mg/L	-0.6270	ppm
1	Se 196.026	12.6	-71.7	0.0045	mg/L	0.2256	ppm
1	Tl 190.800	328.3	139.7	0.0093	mg/L	0.4633	ppm
1	V 292.402	26236.5	26073.8	0.2338	mg/L	11.69	ppm
1	Zn 213.856	27500.5	28083.9	0.2517	mg/L	12.58	ppm
2	Ag 328.068	-1689.3	-615.3	-0.0031	mg/L	-0.1525	ppm
2	Al 308.215	3449177.5	3444580.0	94.41	mg/L	4721	ppm
2	As 188.979	60.7	-8.8	0.0458	mg/L	2.291	ppm
2	Ba 233.527	205609.3	206474.9	0.5845	mg/L	29.22	ppm
2	Be 313.107	2966.7	3380.9	0.0012	mg/L	0.0610	ppm

2 Ca 227.547	483536.7	483253.3	1851 mg/L	92550 ppm
2 Cd 228.802	457.0	367.3	0.0029 mg/L	0.1449 ppm
2 Co 228.616	4997.1	5413.8	0.0512 mg/L	2.559 ppm
2 Cr 267.716	17391.5	17551.3	0.1941 mg/L	9.704 ppm
2 Cu 324.754	20863.4	18576.5	0.0639 mg/L	3.196 ppm
2 Fe 273.955	6101926.4	6098936.5	122.5 mg/L	6124 ppm
2 Mg 279.079	2292984.3	2292388.1	72.18 mg/L	3609 ppm
2 Mn 257.610	2882343.3	2881222.6	1.815 mg/L	90.76 ppm
2 Mo 202.030	-49.6	-21.1	-0.0059 mg/L	-0.2937 ppm
2 Ni 231.604	5025.1	4749.9	0.0939 mg/L	4.693 ppm
2 Pb 220.353	773.9	589.0	0.0512 mg/L	2.560 ppm
2 Sb 206.833	113.6	52.9	-0.0009 mg/L	-0.0434 ppm
2 Se 196.026	2.3	-82.0	0.0002 mg/L	0.0118 ppm
2 Tl 190.800	298.2	109.7	0.0013 mg/L	0.0664 ppm
2 V 292.402	27700.4	27537.6	0.2470 mg/L	12.35 ppm
2 Zn 213.856	27646.0	28229.3	0.2533 mg/L	12.66 ppm
3 Ag 328.068	-1585.2	-511.2	-0.0025 mg/L	-0.1267 ppm
3 Al 308.215	3557872.8	3553275.2	97.39 mg/L	4869 ppm
3 As 188.979	75.3	5.9	0.0507 mg/L	2.536 ppm
3 Ba 233.527	203044.1	203909.7	0.5772 mg/L	28.86 ppm
3 Be 313.107	2787.4	3201.6	0.0012 mg/L	0.0578 ppm
3 Ca 227.547	476736.4	476452.9	1825 mg/L	91250 ppm
3 Cd 228.802	420.7	331.0	0.0026 mg/L	0.1306 ppm
3 Co 228.616	5109.2	5525.9	0.0522 mg/L	2.612 ppm
3 Cr 267.716	17380.2	17540.0	0.1939 mg/L	9.697 ppm
3 Cu 324.754	20548.8	18261.9	0.0631 mg/L	3.154 ppm
3 Fe 273.955	6263811.9	6260822.1	125.7 mg/L	6287 ppm
3 Mg 279.079	2346289.0	2345692.8	73.86 mg/L	3693 ppm
3 Mn 257.610	2948374.9	2947254.2	1.857 mg/L	92.84 ppm
3 Mo 202.030	-80.6	-52.1	-0.0076 mg/L	-0.3820 ppm
3 Ni 231.604	4898.9	4623.7	0.0914 mg/L	4.568 ppm
3 Pb 220.353	770.5	585.6	0.0510 mg/L	2.552 ppm
3 Sb 206.833	115.4	54.8	-0.0006 mg/L	-0.0322 ppm
3 Se 196.026	30.8	-53.5	0.0114 mg/L	0.5681 ppm
3 Tl 190.800	324.6	136.1	0.0080 mg/L	0.4005 ppm
3 V 292.402	27388.8	27226.1	0.2442 mg/L	12.21 ppm
3 Zn 213.856	27890.7	28474.1	0.2553 mg/L	12.76 ppm

Mean Data ----------

ID: 6141-2 F=50
Sample Qty: 1.0000 mL
Seq. No.: 23
Prep. Vol.:
Data: Original
Sample No.: 11
1.0 mL
A/S Pos: 19
Dilution: 1.0: 50.0
Date: 11/21/02 12:28:01 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-611.6	-0.0030	0.00049	mg/L	-0.1516	0.02444	ppm	16.12%
Al 308.215	3501326.4	95.97	1.494	mg/L	4798	74.7	ppm	1.56%
As 188.979	-8.5	0.0448	0.00656	mg/L	2.238	0.3278	ppm	14.64%
Ba 233.527	202288.7	0.5726	0.01469	mg/L	28.63	0.735	ppm	2.57%
Be 313.107	3144.2	0.0011	0.00010	mg/L	0.0567	0.00487	ppm	8.59%
Ca 227.547	471599.8	1806	56.2	mg/L	90320	2809.2	ppm	3.11%
Cd 228.802	316.8	0.0025	0.00046	mg/L	0.1250	0.02322	ppm	18.57%
Co 228.616	5395.9	0.0510	0.00132	mg/L	2.550	0.0661	ppm	2.59%
Cr 267.716	17482.2	0.1933	0.00122	mg/L	9.666	0.0608	ppm	0.63%
Cu 324.754	18119.9	0.0626	0.00167	mg/L	3.129	0.0833	ppm	2.66%
Fe 273.955	6189238.5	124.3	1.66	mg/L	6215	82.9	ppm	1.33%
Mg 279.079	2323002.2	73.14	0.867	mg/L	3657	43.3	ppm	1.18%
Mn 257.610	2919328.1	1.839	0.0215	mg/L	91.96	1.076	ppm	1.17%
Mo 202.030	-31.9	-0.0065	0.00098	mg/L	-0.3258	0.04882	ppm	14.98%
Ni 231.604	4650.9	0.0919	0.00175	mg/L	4.595	0.0875	ppm	1.90%
Pb 220.353	570.1	0.0499	0.00218	mg/L	2.493	0.1092	ppm	4.38%
Sb 206.833	37.4	-0.0047	0.00680	mg/L	-0.2342	0.34019	ppm	145.27%
Se 196.026	-69.1	0.0054	0.00561	mg/L	0.2685	0.28064	ppm	104.53%
Tl 190.800	128.5	0.0062	0.00427	mg/L	0.3101	0.21336	ppm	68.81%
V 292.402	26945.8	0.2417	0.00692	mg/L	12.08	0.346	ppm	2.86%
Zn 213.856	28262.5	0.2534	0.00179	mg/L	12.67	0.089	ppm	0.71%

Replicate Data ----------

ID: 6141-3 F=50
Date: 11/21/02 12:30:37 PM

	Net	Corrected	Calib	Sample

012296

Repl#	Element	Intensity	Intensity	Conc.	Units	Conc.	Units
1	Ag 328.068	-1550.7	-476.8	-0.0024	mg/L	-0.1182	ppm
1	Al 308.215	3507890.8	3503293.2	96.02	mg/L	4801	ppm
1	As 188.979	79.5	10.0	0.0526	mg/L	2.630	ppm
1	Ba 233.527	214660.5	215526.2	0.6101	mg/L	30.50	ppm
1	Be 313.107	3375.3	3789.5	0.0014	mg/L	0.0684	ppm
1	Ca 227.547	478226.7	477943.2	1831	mg/L	91540	ppm
1	Cd 228.802	313.8	224.0	0.0018	mg/L	0.0884	ppm
1	Co 228.616	5351.0	5767.7	0.0545	mg/L	2.726	ppm
1	Cr 267.716	17762.4	17922.2	0.1982	mg/L	9.909	ppm
1	Cu 324.754	21178.9	18892.0	0.0651	mg/L	3.255	ppm
1	Fe 273.955	6298466.1	6295476.2	126.4	mg/L	6321	ppm
1	Mg 279.079	2364957.7	2364361.5	74.44	mg/L	3722	ppm
1	Mn 257.610	3067496.6	3066375.9	1.932	mg/L	96.59	ppm
1	Mo 202.030	4.6	33.1	-0.0032	mg/L	-0.1577	ppm
1	Ni 231.604	5149.0	4873.8	0.0963	mg/L	4.815	ppm
1	Pb 220.353	775.0	590.1	0.0513	mg/L	2.565	ppm
1	Sb 206.833	114.3	53.6	-0.0010	mg/L	-0.0515	ppm
1	Se 196.026	49.4	-34.9	0.0184	mg/L	0.9207	ppm
1	Tl 190.800	351.2	162.6	0.0158	mg/L	0.7897	ppm
1	V 292.402	27908.5	27745.8	0.2488	mg/L	12.44	ppm
1	Zn 213.856	28145.9	28729.3	0.2576	mg/L	12.88	ppm
2	Ag 328.068	-1484.0	-410.0	-0.0020	mg/L	-0.1016	ppm
2	Al 308.215	3577834.2	3573236.6	97.94	mg/L	4897	ppm
2	As 188.979	102.4	33.0	0.0596	mg/L	2.978	ppm
2	Ba 233.527	207357.1	208222.7	0.5894	mg/L	29.47	ppm
2	Be 313.107	3015.1	3429.3	0.0012	mg/L	0.0619	ppm
2	Ca 227.547	460470.5	460187.1	1763	mg/L	88150	ppm
2	Cd 228.802	427.4	337.6	0.0027	mg/L	0.1332	ppm
2	Co 228.616	5047.8	5464.5	0.0517	mg/L	2.583	ppm
2	Cr 267.716	17191.3	17351.1	0.1919	mg/L	9.593	ppm
2	Cu 324.754	20566.8	18279.9	0.0633	mg/L	3.163	ppm
2	Fe 273.955	6394391.4	6391401.5	128.4	mg/L	6418	ppm
2	Mg 279.079	2400909.0	2400312.8	75.57	mg/L	3779	ppm
2	Mn 257.610	3108493.5	3107372.8	1.958	mg/L	97.89	ppm
2	Mo 202.030	-77.6	-49.0	-0.0076	mg/L	-0.3790	ppm
2	Ni 231.604	5062.8	4787.6	0.0946	mg/L	4.730	ppm
2	Pb 220.353	758.8	573.9	0.0501	mg/L	2.504	ppm
2	Sb 206.833	122.7	62.1	0.0010	mg/L	0.0523	ppm
2	Se 196.026	20.5	-63.8	0.0084	mg/L	0.4185	ppm
2	Tl 190.800	302.9	114.3	0.0010	mg/L	0.0516	ppm
2	V 292.402	26907.4	26744.6	0.2399	mg/L	11.99	ppm
2	Zn 213.856	26970.1	27553.5	0.2463	mg/L	12.31	ppm
3	Ag 328.068	-1715.8	-641.8	-0.0032	mg/L	-0.1591	ppm
3	Al 308.215	3530761.3	3526163.7	96.65	mg/L	4832	ppm
3	As 188.979	25.4	-44.0	0.0307	mg/L	1.536	ppm
3	Ba 233.527	210446.7	211312.4	0.5982	mg/L	29.91	ppm
3	Be 313.107	3033.8	3448.0	0.0012	mg/L	0.0622	ppm
3	Ca 227.547	467058.4	466774.9	1788	mg/L	89400	ppm
3	Cd 228.802	402.9	313.1	0.0025	mg/L	0.1236	ppm
3	Co 228.616	5180.8	5597.5	0.0529	mg/L	2.646	ppm
3	Cr 267.716	17484.6	17644.3	0.1951	mg/L	9.755	ppm
3	Cu 324.754	21247.2	18960.3	0.0653	mg/L	3.267	ppm
3	Fe 273.955	6339676.5	6336686.6	127.3	mg/L	6363	ppm
3	Mg 279.079	2369909.2	2369313.0	74.60	mg/L	3730	ppm
3	Mn 257.610	3065744.6	3064623.9	1.931	mg/L	96.54	ppm
3	Mo 202.030	-55.1	-26.6	-0.0063	mg/L	-0.3173	ppm
3	Ni 231.604	5076.9	4801.7	0.0949	mg/L	4.744	ppm
3	Pb 220.353	665.5	480.6	0.0438	mg/L	2.192	ppm
3	Sb 206.833	74.4	13.8	-0.0105	mg/L	-0.5262	ppm
3	Se 196.026	-33.6	-117.8	-0.0115	mg/L	-0.5753	ppm
3	Tl 190.800	298.7	110.2	0.0002	mg/L	0.0123	ppm
3	V 292.402	27166.3	27003.6	0.2422	mg/L	12.11	ppm
3	Zn 213.856	27591.6	28174.9	0.2523	mg/L	12.61	ppm

Mean Data ----------

ID: 6141-3 F=50 Seq. No.: 24 Sample No.: 12 A/S Pos: 20
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 12:30:37 PM

012297

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	-509.5	-0.0025	0.00059	mg/L	-0.1263	0.02958	ppm	23.42%
Al 308.215	3534231.2	96.87	0.977	mg/L	4843	48.9	ppm	1.01%
As 188.979	-0.3	0.0476	0.01505	mg/L	2.382	0.7523	ppm	31.59%
Ba 233.527	211687.1	0.5992	0.01038	mg/L	29.96	0.519	ppm	1.73%
Be 313.107	3555.6	0.0013	0.00007	mg/L	0.0642	0.00366	ppm	5.70%
Ca 227.547	468301.7	1794	34.3	mg/L	89700	1715.5	ppm	1.91%
Cd 228.802	291.6	0.0023	0.00047	mg/L	0.1151	0.02359	ppm	20.50%
Co 228.616	5609.9	0.0530	0.00144	mg/L	2.651	0.0718	ppm	2.71%
Cr 267.716	17639.2	0.1950	0.00316	mg/L	9.752	0.1579	ppm	1.62%
Cu 324.754	18710.7	0.0646	0.00114	mg/L	3.228	0.0569	ppm	1.76%
Fe 273.955	6341188.1	127.3	0.97	mg/L	6367	48.3	ppm	0.76%
Mg 279.079	2377995.8	74.87	0.613	mg/L	3744	30.7	ppm	0.82%
Mn 257.610	3079457.6	1.940	0.0152	mg/L	97.01	0.762	ppm	0.79%
Mo 202.030	-14.2	-0.0057	0.00228	mg/L	-0.2847	0.11421	ppm	40.12%
Ni 231.604	4821.0	0.0953	0.00091	mg/L	4.763	0.0457	ppm	0.96%
Pb 220.353	548.2	0.0484	0.00399	mg/L	2.420	0.1996	ppm	8.25%
Sb 206.833	43.2	-0.0035	0.00617	mg/L	-0.1752	0.30843	ppm	176.08%
Se 196.026	-72.2	0.0051	0.01523	mg/L	0.2546	0.76133	ppm	299.01%
Tl 190.800	129.0	0.0057	0.00876	mg/L	0.2846	0.43793	ppm	153.90%
V 292.402	27164.6	0.2436	0.00466	mg/L	12.18	0.233	ppm	1.91%
Zn 213.856	28152.6	0.2521	0.00565	mg/L	12.60	0.282	ppm	2.24%

Replicate Data

ID: 6141-4 F=50 Date: 11/21/02 12:33:14 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1653.3	-579.3	-0.0029	mg/L	-0.1436	ppm
1	Al 308.215	3169490.6	3164893.1	86.74	mg/L	4337	ppm
1	As 188.979	-12.4	-81.8	0.0213	mg/L	1.064	ppm
1	Ba 233.527	168083.9	168949.5	0.4782	mg/L	23.91	ppm
1	Be 313.107	1038.5	1452.7	0.0005	mg/L	0.0262	ppm
1	Ca 227.547	520446.0	520162.5	1992	mg/L	99600	ppm
1	Cd 228.802	482.4	392.7	0.0031	mg/L	0.1549	ppm
1	Co 228.616	4309.2	4725.9	0.0447	mg/L	2.234	ppm
1	Cr 267.716	14772.2	14932.0	0.1651	mg/L	8.256	ppm
1	Cu 324.754	18419.6	16132.6	0.0558	mg/L	2.792	ppm
1	Fe 273.955	5643407.8	5640417.9	113.3	mg/L	5664	ppm
1	Mg 279.079	2358877.1	2358280.9	74.25	mg/L	3713	ppm
1	Mn 257.610	2543063.1	2541942.4	1.601	mg/L	80.07	ppm
1	Mo 202.030	-77.3	-48.8	-0.0070	mg/L	-0.3490	ppm
1	Ni 231.604	4192.9	3917.7	0.0774	mg/L	3.871	ppm
1	Pb 220.353	613.3	428.4	0.0405	mg/L	2.027	ppm
1	Sb 206.833	80.3	19.6	-0.0074	mg/L	-0.3692	ppm
1	Se 196.026	6.5	-77.8	-0.0005	mg/L	-0.0229	ppm
1	Tl 190.800	279.5	91.0	-0.0014	mg/L	-0.0712	ppm
1	V 292.402	24798.4	24635.6	0.2209	mg/L	11.05	ppm
1	Zn 213.856	25515.0	26098.4	0.2342	mg/L	11.71	ppm
2	Ag 328.068	-1394.9	-320.9	-0.0016	mg/L	-0.0795	ppm
2	Al 308.215	3043302.9	3038705.3	83.29	mg/L	4164	ppm
2	As 188.979	53.6	-15.8	0.0451	mg/L	2.255	ppm
2	Ba 233.527	164136.2	165001.8	0.4671	mg/L	23.35	ppm
2	Be 313.107	827.3	1241.6	0.0004	mg/L	0.0224	ppm
2	Ca 227.547	505210.4	504927.0	1934	mg/L	96680	ppm
2	Cd 228.802	356.4	266.7	0.0021	mg/L	0.1052	ppm
2	Co 228.616	4167.7	4584.4	0.0433	mg/L	2.167	ppm
2	Cr 267.716	14439.3	14599.1	0.1614	mg/L	8.071	ppm
2	Cu 324.754	17984.6	15697.7	0.0543	mg/L	2.715	ppm
2	Fe 273.955	5454011.0	5451021.1	109.5	mg/L	5473	ppm
2	Mg 279.079	2294663.6	2294067.4	72.23	mg/L	3611	ppm
2	Mn 257.610	2473028.0	2471907.3	1.557	mg/L	77.87	ppm
2	Mo 202.030	-36.0	-7.5	-0.0046	mg/L	-0.2323	ppm
2	Ni 231.604	3990.4	3715.2	0.0734	mg/L	3.671	ppm
2	Pb 220.353	586.8	401.9	0.0384	mg/L	1.919	ppm
2	Sb 206.833	171.2	110.6	0.0147	mg/L	0.7370	ppm
2	Se 196.026	23.0	-61.3	0.0046	mg/L	0.2319	ppm
2	Tl 190.800	244.6	56.0	-0.0106	mg/L	-0.5290	ppm

2 V 292.402	24254.9	24092.2	0.2161	mg/L	10.80 ppm
2 Zn 213.856	24791.9	25375.3	0.2278	mg/L	11.39 ppm
3 Ag 328.068	-1604.4	-530.5	-0.0026	mg/L	-0.1315 ppm
3 Al 308.215	3093761.8	3089164.2	84.67	mg/L	4233 ppm
3 As 188.979	32.3	-37.2	0.0388	mg/L	1.941 ppm
3 Ba 233.527	168547.9	169413.6	0.4796	mg/L	23.98 ppm
3 Be 313.107	953.3	1367.5	0.0005	mg/L	0.0247 ppm
3 Ca 227.547	523838.1	523554.7	2005	mg/L	100200 ppm
3 Cd 228.802	292.9	203.1	0.0016	mg/L	0.0802 ppm
3 Co 228.616	4509.7	4926.4	0.0466	mg/L	2.328 ppm
3 Cr 267.716	15303.2	15463.0	0.1710	mg/L	8.549 ppm
3 Cu 324.754	18414.9	16128.0	0.0557	mg/L	2.785 ppm
3 Fe 273.955	5519882.9	5516893.0	110.8	mg/L	5540 ppm
3 Mg 279.079	2365948.7	2365352.5	74.47	mg/L	3724 ppm
3 Mn 257.610	2557837.0	2556716.3	1.611	mg/L	80.54 ppm
3 Mo 202.030	-87.5	-59.0	-0.0074	mg/L	-0.3713 ppm
3 Ni 231.604	4376.7	4101.5	0.0810	mg/L	4.052 ppm
3 Pb 220.353	657.8	472.9	0.0435	mg/L	2.173 ppm
3 Sb 206.833	126.1	65.5	0.0036	mg/L	0.1791 ppm
3 Se 196.026	34.9	-49.4	0.0093	mg/L	0.4635 ppm
3 Tl 190.800	262.1	73.6	-0.0058	mg/L	-0.2903 ppm
3 V 292.402	25133.0	24970.3	0.2239	mg/L	11.20 ppm
3 Zn 213.856	26672.1	27255.5	0.2453	mg/L	12.27 ppm

lean Data ----------

D: 6141-4 F=50 Seq. No.: 25 Sample No.: 13 A/S Pos: 21

Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 12:33:14 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-476.9	-0.0024	0.00068	mg/L	-0.1182	0.03402	ppm	28.78%
Al 308.215	3097587.5	84.90	1.741	mg/L	4245	87.0	ppm	2.05%
s 188.979	-44.9	0.0351	0.01235	mg/L	1.754	0.6173	ppm	35.20%
a 233.527	167788.3	0.4750	0.00686	mg/L	23.75	0.343	ppm	1.44%
Be 313.107	1353.9	0.0005	0.00004	mg/L	0.0244	0.00192	ppm	7.85%
Ca 227.547	516214.7	1977	38.0	mg/L	98840	1898.7	ppm	1.92%
d 228.802	287.5	0.0023	0.00076	mg/L	0.1134	0.03806	ppm	33.55%
o 228.616	4745.6	0.0449	0.00162	mg/L	2.243	0.0812	ppm	3.62%
Cr 267.716	14998.0	0.1658	0.00482	mg/L	8.292	0.2409	ppm	2.91%
Cu 324.754	15986.1	0.0553	0.00085	mg/L	2.764	0.0427	ppm	1.55%
e 273.955	5536110.7	111.2	1.93	mg/L	5559	96.5	ppm	1.74%
g 279.079	2339233.6	73.65	1.237	mg/L	3683	61.8	ppm	1.68%
Mn 257.610	2523522.0	1.590	0.0285	mg/L	79.49	1.427	ppm	1.80%
Mo 202.030	-38.4	-0.0064	0.00149	mg/L	-0.3175	0.07462	ppm	23.50%
i 231.604	3911.4	0.0773	0.00382	mg/L	3.865	0.1909	ppm	4.94%
b 220.353	434.4	0.0408	0.00255	mg/L	2.039	0.1275	ppm	6.25%
b 206.833	65.2	0.0036	0.01106	mg/L	0.1823	0.55314	ppm	303.38%
Se 196.026	-62.8	0.0045	0.00487	mg/L	0.2242	0.24331	ppm	108.54%
l 190.800	73.5	-0.0059	0.00458	mg/L	-0.2968	0.22898	ppm	77.14%
292.402	24566.0	0.2203	0.00397	mg/L	11.02	0.199	ppm	1.80%
n 213.856	26243.1	0.2358	0.00890	mg/L	11.79	0.445	ppm	3.78%

Replicate Data ----------

D: 6141-5 F=50 Date: 11/21/02 12:36:12 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1701.0	-627.0	-0.0031	mg/L	-0.1554	ppm
1	Al 308.215	2395195.6	2390598.0	65.52	mg/L	3276	ppm
1	As 188.979	73.8	4.4	0.0333	mg/L	1.663	ppm
1	Ba 233.527	156924.1	157789.7	0.4467	mg/L	22.33	ppm
1	Be 313.107	3254.8	3669.0	0.0013	mg/L	0.0662	ppm
1	Ca 227.547	309730.1	309446.6	1186	mg/L	59300	ppm
1	Cd 228.802	289.9	200.1	0.0016	mg/L	0.0790	ppm
1	Co 228.616	5059.4	5476.1	0.0518	mg/L	2.588	ppm
1	Cr 267.716	11200.9	11360.7	0.1256	mg/L	6.281	ppm
1	Cu 324.754	21493.8	19206.9	0.0654	mg/L	3.271	ppm
1	Fe 273.955	5580592.6	5577602.8	112.0	mg/L	5601	ppm
1	Mg 279.079	2106703.4	2106107.2	66.31	mg/L	3316	ppm

1	Mn 257.610	2946174.4	2945053.7	1.855	mg/L	92.77 ppm
1	Mo 202.030	-41.1	-12.6	-0.0050	mg/L	-0.2507 ppm
1	Ni 231.604	4399.1	4123.9	0.0815	mg/L	4.074 ppm
1	Pb 220.353	931.5	746.6	0.0578	mg/L	2.889 ppm
1	Sb 206.833	98.8	38.1	-0.0011	mg/L	-0.0539 ppm
1	Se 196.026	-1.7	-86.0	-0.0023	mg/L	-0.1137 ppm
1	Tl 190.800	282.2	93.6	0.0012	mg/L	0.0601 ppm
1	V 292.402	26128.4	25965.7	0.2329	mg/L	11.64 ppm
1	Zn 213.856	31429.0	32012.4	0.2901	mg/L	14.50 ppm
2	Ag 328.068	-1554.6	-480.7	-0.0024	mg/L	-0.1191 ppm
2	Al 308.215	2413426.8	2408829.2	66.02	mg/L	3301 ppm
2	As 188.979	66.8	-2.6	0.0307	mg/L	1.533 ppm
2	Ba 233.527	156000.7	156866.3	0.4440	mg/L	22.20 ppm
2	Be 313.107	3190.1	3604.3	0.0013	mg/L	0.0650 ppm
2	Ca 227.547	310742.6	310459.2	1190	mg/L	59490 ppm
2	Cd 228.802	287.3	197.5	0.0016	mg/L	0.0779 ppm
2	Co 228.616	5057.3	5474.0	0.0517	mg/L	2.587 ppm
2	Cr 267.716	11115.3	11275.1	0.1247	mg/L	6.234 ppm
2	Cu 324.754	21807.3	19520.4	0.0664	mg/L	3.320 ppm
2	Fe 273.955	5581076.8	5578086.9	112.0	mg/L	5601 ppm
2	Mg 279.079	2100012.9	2099416.8	66.10	mg/L	3305 ppm
2	Mn 257.610	2981264.0	2980143.3	1.878	mg/L	93.88 ppm
2	Mo 202.030	-42.9	-14.4	-0.0051	mg/L	-0.2556 ppm
2	Ni 231.604	4399.5	4124.3	0.0815	mg/L	4.075 ppm
2	Pb 220.353	922.5	737.6	0.0572	mg/L	2.861 ppm
2	Sb 206.833	106.4	45.7	0.0008	mg/L	0.0376 ppm
2	Se 196.026	7.8	-76.5	0.0011	mg/L	0.0564 ppm
2	Tl 190.800	289.9	101.4	0.0034	mg/L	0.1701 ppm
2	V 292.402	26121.6	25958.8	0.2328	mg/L	11.64 ppm
2	Zn 213.856	31734.4	32317.8	0.2930	mg/L	14.65 ppm
3	Ag 328.068	-1660.8	-586.9	-0.0029	mg/L	-0.1455 ppm
3	Al 308.215	2391624.3	2387026.7	65.42	mg/L	3271 ppm
3	As 188.979	72.3	2.8	0.0330	mg/L	1.652 ppm
3	Ba 233.527	157887.7	158753.3	0.4494	mg/L	22.47 ppm
3	Be 313.107	3500.5	3914.7	0.0014	mg/L	0.0706 ppm
3	Ca 227.547	313538.8	313255.3	1201	mg/L	60030 ppm
3	Cd 228.802	292.2	202.4	0.0016	mg/L	0.0799 ppm
3	Co 228.616	5054.6	5471.3	0.0517	mg/L	2.586 ppm
3	Cr 267.716	11182.7	11342.5	0.1254	mg/L	6.271 ppm
3	Cu 324.754	21854.9	19568.0	0.0665	mg/L	3.326 ppm
3	Fe 273.955	5551808.2	5548818.4	111.4	mg/L	5572 ppm
3	Mg 279.079	2119930.4	2119334.3	66.73	mg/L	3336 ppm
3	Mn 257.610	2933821.0	2932700.3	1.848	mg/L	92.38 ppm
3	Mo 202.030	-49.2	-20.7	-0.0054	mg/L	-0.2711 ppm
3	Ni 231.604	4356.5	4081.3	0.0806	mg/L	4.032 ppm
3	Pb 220.353	935.0	750.1	0.0581	mg/L	2.903 ppm
3	Sb 206.833	89.6	29.0	-0.0032	mg/L	-0.1619 ppm
3	Se 196.026	10.8	-73.5	0.0021	mg/L	0.1048 ppm
3	Tl 190.800	278.0	89.4	0.0001	mg/L	0.0047 ppm
3	V 292.402	26453.8	26291.0	0.2358	mg/L	11.79 ppm
3	Zn 213.856	31984.4	32567.8	0.2954	mg/L	14.77 ppm

Mean Data ----------

ID: 6141-5 F=50 Seq. No.: 26 Sample No.: 14 A/S Pos: 22
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 12:36:12 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-564.9	-0.0028	0.00037	mg/L	-0.1400	0.01875	ppm	13.39%
Al 308.215	2395484.7	65.66	0.321	mg/L	3283	16.0	ppm	0.49%
As 188.979	1.5	0.0323	0.00144	mg/L	1.616	0.0722	ppm	4.47%
Ba 233.527	157803.1	0.4467	0.00267	mg/L	22.33	0.134	ppm	0.60%
Be 313.107	3729.4	0.0013	0.00006	mg/L	0.0673	0.00296	ppm	4.39%
Ca 227.547	311053.7	1192	7.5	mg/L	59610	376.9	ppm	0.63%
Cd 228.802	200.0	0.0016	0.00002	mg/L	0.0789	0.00097	ppm	1.23%
Co 228.616	5473.8	0.0517	0.00002	mg/L	2.587	0.0011	ppm	0.04%
Cr 267.716	11326.1	0.1252	0.00050	mg/L	6.262	0.0249	ppm	0.40%
Cu 324.754	19431.8	0.0661	0.00061	mg/L	3.306	0.0303	ppm	0.92%
Fe 273.955	5568169.4	111.8	0.34	mg/L	5591	16.8	ppm	0.30%

g 279.079	2108286.1	66.38	0.319 mg/L	3319	16.0 ppm	0.48%
n 257.610	2952632.4	1.860	0.0155 mg/L	93.01	0.775 ppm	0.83%
Mo 202.030	-15.9	-0.0052	0.00021 mg/L	-0.2592	0.01065 ppm	4.11%
Ni 231.604	4109.8	0.0812	0.00049 mg/L	4.061	0.0244 ppm	0.60%
Pb 220.353	744.8	0.0577	0.00043 mg/L	2.885	0.0215 ppm	0.74%
b 206.833	37.6	-0.0012	0.00200 mg/L	-0.0594	0.09988 ppm	168.12%
e 196.026	-78.7	0.0003	0.00229 mg/L	0.0158	0.11473 ppm	724.08%
Tl 190.800	94.8	0.0016	0.00168 mg/L	0.0783	0.08420 ppm	107.48%
V 292.402	26071.8	0.2338	0.00170 mg/L	11.69	0.085 ppm	0.73%
n 213.856	32299.3	0.2928	0.00265 mg/L	14.64	0.133 ppm	0.91%

Replicate Data ----------

ID: 6141-6 F=50 Date: 11/21/02 12:39:48 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1172.6	-98.6	-0.0005	mg/L	-0.0244	ppm
1	Al 308.215	1596368.0	1591770.4	43.63	mg/L	2181	ppm
1	As 188.979	33.7	-35.8	0.0486	mg/L	2.430	ppm
1	Ba 233.527	137318.0	138183.6	0.3912	mg/L	19.56	ppm
1	Be 313.107	240.8	655.0	0.0002	mg/L	0.0118	ppm
1	Ca 227.547	631923.8	631640.3	2416	mg/L	120800	ppm
1	Cd 228.802	387.4	297.7	0.0023	mg/L	0.1175	ppm
1	Co 228.616	1911.5	2328.2	0.0220	mg/L	1.100	ppm
1	Cr 267.716	9996.7	10156.4	0.1123	mg/L	5.615	ppm
1	Cu 324.754	9005.0	6718.1	0.0211	mg/L	1.054	ppm
1	Fe 273.955	2467900.7	2464910.9	49.50	mg/L	2475	ppm
1	Mg 279.079	1976069.6	1975473.5	62.20	mg/L	3110	ppm
1	Mn 257.610	1854512.3	1853391.6	1.168	mg/L	58.38	ppm
1	Mo 202.030	-104.9	-76.4	-0.0040	mg/L	-0.2024	ppm
1	Ni 231.604	2487.7	2212.5	0.0437	mg/L	2.186	ppm
1	Pb 220.353	296.2	111.3	0.0185	mg/L	0.9241	ppm
1	Sb 206.833	85.0	24.4	0.0026	mg/L	0.1282	ppm
1	Se 196.026	51.9	-32.4	0.0000	mg/L	-0.0013	ppm
1	Tl 190.800	276.7	88.1	0.0146	mg/L	0.7323	ppm
1	V 292.402	11985.0	11822.2	0.1060	mg/L	5.301	ppm
1	Zn 213.856	12199.9	12783.2	0.1153	mg/L	5.767	ppm
2	Ag 328.068	-1347.6	-273.7	-0.0014	mg/L	-0.0678	ppm
2	Al 308.215	1656457.9	1651860.3	45.27	mg/L	2264	ppm
2	As 188.979	29.6	-39.9	0.0497	mg/L	2.483	ppm
2	Ba 233.527	134380.6	135246.2	0.3828	mg/L	19.14	ppm
2	Be 313.107	272.4	686.6	0.0002	mg/L	0.0124	ppm
2	Ca 227.547	658807.7	658524.3	2519	mg/L	125900	ppm
2	Cd 228.802	371.6	281.9	0.0022	mg/L	0.1112	ppm
2	Co 228.616	1914.9	2331.6	0.0220	mg/L	1.102	ppm
2	Cr 267.716	9540.8	9700.6	0.1073	mg/L	5.363	ppm
2	Cu 324.754	9125.6	6838.6	0.0215	mg/L	1.073	ppm
2	Fe 273.955	2537101.7	2534111.9	50.89	mg/L	2545	ppm
2	Mg 279.079	2037320.6	2036724.4	64.13	mg/L	3206	ppm
2	Mn 257.610	1911830.6	1910709.9	1.204	mg/L	60.19	ppm
2	Mo 202.030	-97.1	-68.6	-0.0036	mg/L	-0.1817	ppm
2	Ni 231.604	2498.6	2223.4	0.0439	mg/L	2.197	ppm
2	Pb 220.353	296.3	111.5	0.0190	mg/L	0.9477	ppm
2	Sb 206.833	86.6	26.0	0.0011	mg/L	0.0534	ppm
2	Se 196.026	42.7	-41.6	-0.0031	mg/L	-0.1529	ppm
2	Tl 190.800	271.6	83.0	0.0129	mg/L	0.6426	ppm
2	V 292.402	11525.3	11362.6	0.1019	mg/L	5.095	ppm
2	Zn 213.856	12346.4	12929.8	0.1166	mg/L	5.828	ppm
3	Ag 328.068	-1293.1	-219.1	-0.0011	mg/L	-0.0543	ppm
3	Al 308.215	1654763.0	1650165.4	45.23	mg/L	2261	ppm
3	As 188.979	20.2	-49.3	0.0459	mg/L	2.294	ppm
3	Ba 233.527	133318.4	134184.0	0.3798	mg/L	18.99	ppm
3	Be 313.107	189.7	603.9	0.0002	mg/L	0.0109	ppm
3	Ca 227.547	656978.6	656695.1	2512	mg/L	125600	ppm
3	Cd 228.802	371.2	281.5	0.0022	mg/L	0.1111	ppm
3	Co 228.616	1938.4	2355.1	0.0223	mg/L	1.113	ppm
3	Cr 267.716	9741.1	9900.8	0.1095	mg/L	5.474	ppm
3	Cu 324.754	9097.9	6811.0	0.0214	mg/L	1.069	ppm
3	Fe 273.955	2532705.8	2529715.9	50.80	mg/L	2540	ppm

3	Mg 279.079	2034200.4	2033604.2	64.03	mg/L	3201 ppm
3	Mn 257.610	1918058.6	1916937.9	1.208	mg/L	60.39 ppm
3	Mo 202.030	-112.2	-83.7	-0.0044	mg/L	-0.2216 ppm
3	Ni 231.604	2491.3	2216.1	0.0438	mg/L	2.190 ppm
3	Pb 220.353	298.5	113.6	0.0191	mg/L	0.9536 ppm
3	Sb 206.833	80.6	19.9	-0.0004	mg/L	-0.0217 ppm
3	Se 196.026	53.8	-30.5	0.0009	mg/L	0.0472 ppm
3	Tl 190.800	255.8	67.2	0.0083	mg/L	0.4134 ppm
3	V 292.402	11845.6	11682.9	0.1048	mg/L	5.239 ppm
3	Zn 213.856	12439.6	13023.0	0.1175	mg/L	5.873 ppm

Mean Data

ID: 6141-6 F=50 Seq. No.: 27 Sample No.: 15 A/S Pos: 23
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 12:39:48 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-197.2	-0.0010	0.00044	mg/L	-0.0489	0.02220	ppm	45.43%
Al 308.215	1631265.4	44.71	0.938	mg/L	2236	46.9	ppm	2.10%
As 188.979	-41.6	0.0481	0.00195	mg/L	2.403	0.0976	ppm	4.06%
Ba 233.527	135871.3	0.3846	0.00586	mg/L	19.23	0.293	ppm	1.52%
Be 313.107	648.5	0.0002	0.00002	mg/L	0.0117	0.00075	ppm	6.44%
Ca 227.547	648953.2	2482	57.5	mg/L	124100	2872.6	ppm	2.31%
Cd 228.802	287.0	0.0023	0.00007	mg/L	0.1133	0.00364	ppm	3.21%
Co 228.616	2338.3	0.0221	0.00014	mg/L	1.105	0.0069	ppm	0.63%
Cr 267.716	9919.3	0.1097	0.00253	mg/L	5.484	0.1263	ppm	2.30%
Cu 324.754	6789.2	0.0213	0.00020	mg/L	1.066	0.0099	ppm	0.93%
Fe 273.955	2509579.6	50.40	0.778	mg/L	2520	38.9	ppm	1.54%
Mg 279.079	2015267.4	63.45	1.086	mg/L	3173	54.3	ppm	1.71%
Mn 257.610	1893679.8	1.193	0.0221	mg/L	59.65	1.103	ppm	1.85%
Mo 202.030	-76.2	-0.0040	0.00040	mg/L	-0.2019	0.01994	ppm	9.87%
Ni 231.604	2217.3	0.0438	0.00011	mg/L	2.191	0.0055	ppm	0.25%
Pb 220.353	112.1	0.0188	0.00031	mg/L	0.9418	0.01560	ppm	1.66%
Sb 206.833	23.4	0.0011	0.00150	mg/L	0.0533	0.07494	ppm	140.62%
Se 196.026	-34.8	-0.0007	0.00209	mg/L	-0.0357	0.10440	ppm	292.59%
Tl 190.800	79.5	0.0119	0.00329	mg/L	0.5961	0.16449	ppm	27.59%
V 292.402	11622.6	0.1042	0.00211	mg/L	5.212	0.1057	ppm	2.03%
Zn 213.856	12912.0	0.1164	0.00107	mg/L	5.822	0.0533	ppm	0.92%

Replicate Data

ID: 6141-7 F=50 Date: 11/21/02 12:43:07 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-2468.8	-1394.8	-0.0069	mg/L	-0.3457	ppm
1	Al 308.215	5189659.3	5185061.7	142.1	mg/L	7106	ppm
1	As 188.979	225.3	155.8	0.1015	mg/L	5.077	ppm
1	Ba 233.527	241952.1	242817.7	0.6873	mg/L	34.37	ppm
1	Be 313.107	13159.1	13573.3	0.0049	mg/L	0.2449	ppm
1	Ca 227.547	387960.3	387676.9	1488	mg/L	74380	ppm
1	Cd 228.802	408.3	318.6	0.0025	mg/L	0.1257	ppm
1	Co 228.616	12235.3	12652.0	0.1196	mg/L	5.980	ppm
1	Cr 267.716	24990.0	25149.8	0.2726	mg/L	13.63	ppm
1	Cu 324.754	40794.1	38507.2	0.1311	mg/L	6.556	ppm
1	Fe 273.955	11148633.4	11145643.6	223.8	mg/L	11190	ppm
1	Mg 279.079	2938430.0	2937833.9	92.50	mg/L	4625	ppm
1	Mn 257.610	4651993.3	4650872.6	2.930	mg/L	146.5	ppm
1	Mo 202.030	28.2	56.7	-0.0057	mg/L	-0.2844	ppm
1	Ni 231.604	13277.0	13001.8	0.2569	mg/L	12.85	ppm
1	Pb 220.353	1982.2	1797.3	0.1319	mg/L	6.595	ppm
1	Sb 206.833	146.6	85.9	-0.0010	mg/L	-0.0485	ppm
1	Se 196.026	-41.2	-125.5	0.0115	mg/L	0.5739	ppm
1	Tl 190.800	359.0	170.5	-0.0044	mg/L	-0.2198	ppm
1	V 292.402	54320.5	54157.8	0.4857	mg/L	24.29	ppm
1	Zn 213.856	58483.0	59066.4	0.5334	mg/L	26.67	ppm
2	Ag 328.068	-2808.2	-1734.2	-0.0086	mg/L	-0.4298	ppm
2	Al 308.215	5309226.4	5304628.9	145.4	mg/L	7270	ppm
2	As 188.979	244.9	175.5	0.1087	mg/L	5.435	ppm
2	Ba 233.527	240791.3	241656.9	0.6841	mg/L	34.20	ppm

2	Be 313.107	12849.1	13263.3	0.0048	mg/L	0.2393 ppm
2	Ca 227.547	384520.6	384237.2	1475	mg/L	73730 ppm
2	Cd 228.802	348.8	259.0	0.0020	mg/L	0.1022 ppm
2	Co 228.616	11927.4	12344.1	0.1167	mg/L	5.834 ppm
2	Cr 267.716	24990.2	25149.9	0.2725	mg/L	13.62 ppm
2	Cu 324.754	40312.3	38025.3	0.1298	mg/L	6.490 ppm
2	Fe 273.955	11337704.5	11334714.7	227.6	mg/L	11380 ppm
2	Mg 279.079	2916675.6	2916079.4	91.81	mg/L	4591 ppm
2	Mn 257.610	4610443.5	4609322.7	2.904	mg/L	145.2 ppm
2	Mo 202.030	113.0	141.5	-0.0013	mg/L	-0.0670 ppm
2	Ni 231.604	13279.0	13003.8	0.2570	mg/L	12.85 ppm
2	Pb 220.353	1979.5	1794.7	0.1318	mg/L	6.591 ppm
2	Sb 206.833	200.0	139.3	0.0115	mg/L	0.5770 ppm
2	Se 196.026	-37.0	-121.3	0.0139	mg/L	0.6951 ppm
2	Tl 190.800	331.2	142.7	-0.0135	mg/L	-0.6759 ppm
2	V 292.402	54173.4	54010.6	0.4844	mg/L	24.22 ppm
2	Zn 213.856	57974.9	58558.3	0.5282	mg/L	26.41 ppm
3	Ag 328.068	-2321.0	-1247.1	-0.0062	mg/L	-0.3091 ppm
3	Al 308.215	5263281.0	5258683.4	144.1	mg/L	7207 ppm
3	As 188.979	207.1	137.7	0.0949	mg/L	4.744 ppm
3	Ba 233.527	244467.8	245333.4	0.6945	mg/L	34.72 ppm
3	Be 313.107	13206.2	13620.4	0.0049	mg/L	0.2458 ppm
3	Ca 227.547	391498.8	391215.3	1501	mg/L	75060 ppm
3	Cd 228.802	349.9	260.2	0.0021	mg/L	0.1027 ppm
3	Co 228.616	11983.2	12399.9	0.1172	mg/L	5.861 ppm
3	Cr 267.716	24690.7	24850.5	0.2692	mg/L	13.46 ppm
3	Cu 324.754	41076.3	38789.4	0.1321	mg/L	6.606 ppm
3	Fe 273.955	11254747.3	11251757.5	226.0	mg/L	11300 ppm
3	Mg 279.079	2962750.6	2962154.5	93.26	mg/L	4663 ppm
3	Mn 257.610	4677940.3	4676819.5	2.947	mg/L	147.3 ppm
3	Mo 202.030	105.2	133.7	-0.0017	mg/L	-0.0844 ppm
3	Ni 231.604	13205.9	12930.7	0.2555	mg/L	12.78 ppm
3	Pb 220.353	1943.2	1758.3	0.1294	mg/L	6.471 ppm
3	Sb 206.833	145.3	84.6	-0.0013	mg/L	-0.0668 ppm
3	Se 196.026	-96.1	-180.3	-0.0079	mg/L	-0.3973 ppm
3	Tl 190.800	348.9	160.4	-0.0080	mg/L	-0.3975 ppm
3	V 292.402	54922.2	54759.4	0.4911	mg/L	24.56 ppm
3	Zn 213.856	59075.8	59659.2	0.5388	mg/L	26.94 ppm

Mean Data ----------

ID: 6141-7 F=50 Seq. No.: 28 Sample No.: 16 A/S Pos: 24

ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 12:43:07 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-1458.7	-0.0072	0.00124	mg/L	-0.3616	0.06191	ppm	17.12%
l 308.215	5249458.0	143.9	1.65	mg/L	7194	82.7	ppm	1.15%
As 188.979	156.3	0.1017	0.00691	mg/L	5.085	0.3456	ppm	6.80%
a 233.527	243269.3	0.6886	0.00532	mg/L	34.43	0.266	ppm	0.77%
e 313.107	13485.7	0.0049	0.00007	mg/L	0.2434	0.00350	ppm	1.44%
a 227.547	387709.8	1488	13.3	mg/L	74390	666.3	ppm	0.90%
Cd 228.802	279.3	0.0022	0.00027	mg/L	0.1102	0.01343	ppm	12.19%
Co 228.616	12465.3	0.1178	0.00155	mg/L	5.892	0.0775	ppm	1.32%
r 267.716	25050.1	0.2714	0.00192	mg/L	13.57	0.096	ppm	0.71%
u 324.754	38440.6	0.1310	0.00117	mg/L	6.551	0.0583	ppm	0.89%
Fe 273.955	11244038.6	225.8	1.90	mg/L	11290	95.2	ppm	0.84%
Mg 279.079	2938689.3	92.53	0.726	mg/L	4626	36.3	ppm	0.78%
n 257.610	4645671.6	2.927	0.0215	mg/L	146.3	1.07	ppm	0.73%
o 202.030	110.6	-0.0029	0.00242	mg/L	-0.1452	0.12079	ppm	83.16%
Ni 231.604	12978.8	0.2565	0.00082	mg/L	12.82	0.041	ppm	0.32%
Pb 220.353	1783.4	0.1310	0.00140	mg/L	6.552	0.0702	ppm	1.07%
b 206.833	103.3	0.0031	0.00733	mg/L	0.1539	0.36655	ppm	238.14%
e 196.026	-142.4	0.0058	0.01198	mg/L	0.2906	0.59875	ppm	206.07%
l 190.800	157.9	-0.0086	0.00460	mg/L	-0.4311	0.22993	ppm	53.34%
V 292.402	54309.3	0.4871	0.00356	mg/L	24.35	0.178	ppm	0.73%
n 213.856	59094.6	0.5335	0.00528	mg/L	26.67	0.264	ppm	0.99%

eplicate Data ----------

ID: 6141-8 F=50 Date: 11/21/02 12:45:49 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-2768.7	-1694.7	-0.0084	mg/L	-0.4201	ppm
1	Al 308.215	4121189.9	4116592.3	112.8	mg/L	5641	ppm
1	As 188.979	128.4	58.9	0.0317	mg/L	1.586	ppm
1	Ba 233.527	161992.4	162858.0	0.4610	mg/L	23.05	ppm
1	Be 313.107	2490.8	2905.0	0.0010	mg/L	0.0524	ppm
1	Ca 227.547	43677.9	43394.5	171.2	mg/L	8559	ppm
1	Cd 228.802	283.5	193.7	0.0015	mg/L	0.0765	ppm
1	Co 228.616	10394.1	10810.8	0.1022	mg/L	5.110	ppm
1	Cr 267.716	18767.9	18927.7	0.2035	mg/L	10.17	ppm
1	Cu 324.754	35701.3	33414.3	0.1157	mg/L	5.785	ppm
1	Fe 273.955	11746169.5	11743179.7	235.8	mg/L	11790	ppm
1	Mg 279.079	2067131.7	2066535.6	65.07	mg/L	3253	ppm
1	Mn 257.610	3746533.9	3745413.2	2.360	mg/L	118.0	ppm
1	Mo 202.030	93.4	121.9	-0.0027	mg/L	-0.1349	ppm
1	Ni 231.604	7929.7	7654.5	0.1513	mg/L	7.563	ppm
1	Pb 220.353	1441.2	1256.4	0.0887	mg/L	4.435	ppm
1	Sb 206.833	170.0	109.4	0.0071	mg/L	0.3550	ppm
1	Se 196.026	6.0	-78.3	0.0343	mg/L	1.717	ppm
1	Tl 190.800	285.6	97.1	-0.0255	mg/L	-1.273	ppm
1	V 292.402	52369.5	52206.8	0.4682	mg/L	23.41	ppm
1	Zn 213.856	88989.3	89572.7	0.8199	mg/L	40.99	ppm
2	Ag 328.068	-2606.2	-1532.2	-0.0076	mg/L	-0.3798	ppm
2	Al 308.215	4025804.6	4021207.0	110.2	mg/L	5511	ppm
2	As 188.979	218.1	148.7	0.0660	mg/L	3.302	ppm
2	Ba 233.527	158548.2	159413.8	0.4513	mg/L	22.56	ppm
2	Be 313.107	2696.0	3110.2	0.0011	mg/L	0.0561	ppm
2	Ca 227.547	42773.5	42490.1	167.7	mg/L	8383	ppm
2	Cd 228.802	175.0	85.2	0.0007	mg/L	0.0336	ppm
2	Co 228.616	10138.5	10555.2	0.0998	mg/L	4.989	ppm
2	Cr 267.716	17877.0	18036.8	0.1937	mg/L	9.683	ppm
2	Cu 324.754	34856.7	32569.8	0.1129	mg/L	5.646	ppm
2	Fe 273.955	11622922.7	11619932.9	233.4	mg/L	11670	ppm
2	Mg 279.079	2024347.9	2023751.7	63.72	mg/L	3186	ppm
2	Mn 257.610	3656438.6	3655317.9	2.303	mg/L	115.1	ppm
2	Mo 202.030	30.8	59.3	-0.0059	mg/L	-0.2957	ppm
2	Ni 231.604	7748.1	7472.9	0.1477	mg/L	7.383	ppm
2	Pb 220.353	1419.9	1235.1	0.0872	mg/L	4.358	ppm
2	Sb 206.833	121.2	60.5	-0.0041	mg/L	-0.2059	ppm
2	Se 196.026	-97.2	-181.4	-0.0037	mg/L	-0.1837	ppm
2	Tl 190.800	289.1	100.5	-0.0237	mg/L	-1.184	ppm
2	V 292.402	50954.2	50791.4	0.4555	mg/L	22.78	ppm
2	Zn 213.856	86886.0	87469.4	0.8003	mg/L	40.01	ppm
3	Ag 328.068	-2552.2	-1478.3	-0.0073	mg/L	-0.3664	ppm
3	Al 308.215	4058170.6	4053573.0	111.1	mg/L	5555	ppm
3	As 188.979	172.0	102.5	0.0482	mg/L	2.412	ppm
3	Ba 233.527	159553.4	160419.0	0.4541	mg/L	22.70	ppm
3	Be 313.107	2462.0	2876.2	0.0010	mg/L	0.0519	ppm
3	Ca 227.547	43174.2	42890.7	169.2	mg/L	8458	ppm
3	Cd 228.802	143.5	53.8	0.0004	mg/L	0.0212	ppm
3	Co 228.616	10004.1	10420.8	0.0985	mg/L	4.925	ppm
3	Cr 267.716	17946.8	18106.6	0.1945	mg/L	9.724	ppm
3	Cu 324.754	35133.4	32846.4	0.1137	mg/L	5.685	ppm
3	Fe 273.955	11519979.3	11516989.4	231.3	mg/L	11560	ppm
3	Mg 279.079	2033458.2	2032862.0	64.01	mg/L	3200	ppm
3	Mn 257.610	3669556.0	3668435.3	2.311	mg/L	115.6	ppm
3	Mo 202.030	65.5	94.0	-0.0040	mg/L	-0.2001	ppm
3	Ni 231.604	7824.0	7548.8	0.1492	mg/L	7.458	ppm
3	Pb 220.353	1413.7	1228.8	0.0868	mg/L	4.340	ppm
3	Sb 206.833	145.0	84.4	0.0016	mg/L	0.0811	ppm
3	Se 196.026	-61.8	-146.1	0.0085	mg/L	0.4238	ppm
3	Tl 190.800	318.8	130.2	-0.0149	mg/L	-0.7430	ppm
3	V 292.402	51321.1	51158.3	0.4588	mg/L	22.94	ppm
3	Zn 213.856	87777.4	88360.8	0.8089	mg/L	40.45	ppm

Mean Data ----------

ID: 6141-8 F=50 Seq. No.: 29 Sample No.: 17 A/S Pos: 25

Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 12:45:49 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	-1568.4	-0.0078	0.00056	mg/L	-0.3887	0.02793	ppm	7.19%
l 308.215	4063790.8	111.4	1.33	mg/L	5569	66.5	ppm	1.19%
As 188.979	103.4	0.0487	0.01717	mg/L	2.433	0.8583	ppm	35.27%
Ba 233.527	160897.0	0.4555	0.00501	mg/L	22.77	0.251	ppm	1.10%
e 313.107	2963.8	0.0011	0.00005	mg/L	0.0535	0.00230	ppm	4.31%
a 227.547	42925.1	169.3	1.76	mg/L	8467	88.2	ppm	1.04%
d 228.802	110.9	0.0009	0.00058	mg/L	0.0438	0.02898	ppm	66.20%
Co 228.616	10595.6	0.1002	0.00187	mg/L	5.008	0.0936	ppm	1.87%
Cr 267.716	18357.0	0.1972	0.00543	mg/L	9.860	0.2715	ppm	2.75%
u 324.754	32943.5	0.1141	0.00143	mg/L	5.705	0.0713	ppm	1.25%
e 273.955	11626700.7	233.5	2.27	mg/L	11670	113.7	ppm	0.97%
Mg 279.079	2041049.8	64.26	0.710	mg/L	3213	35.5	ppm	1.10%
Mn 257.610	3689722.1	2.325	0.0307	mg/L	116.2	1.53	ppm	1.32%
o 202.030	91.7	-0.0042	0.00162	mg/L	-0.2102	0.08090	ppm	38.48%
i 231.604	7558.8	0.1494	0.00180	mg/L	7.468	0.0901	ppm	1.21%
Pb 220.353	1240.1	0.0876	0.00101	mg/L	4.378	0.0507	ppm	1.16%
Sb 206.833	84.8	0.0015	0.00561	mg/L	0.0768	0.28051	ppm	365.45%
e 196.026	-135.3	0.0130	0.01941	mg/L	0.6523	0.97067	ppm	148.81%
l 190.800	109.3	-0.0213	0.00568	mg/L	-1.067	0.2838	ppm	26.61%
v 292.402	51385.5	0.4609	0.00659	mg/L	23.04	0.329	ppm	1.43%
Zn 213.856	88467.6	0.8097	0.00981	mg/L	40.48	0.491	ppm	1.21%

eplicate Data

D: 6141-9 F=50 Date: 11/21/02 12:48:32 PM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-2980.5	-1906.6	-0.0095	mg/L	-0.4726	ppm
1	Al 308.215	4717592.4	4712994.9	129.2	mg/L	6459	ppm
1	As 188.979	305.4	235.9	0.1078	mg/L	5.389	ppm
1	Ba 233.527	275643.8	276509.4	0.7827	mg/L	39.14	ppm
1	Be 313.107	7299.4	7713.6	0.0028	mg/L	0.1392	ppm
1	Ca 227.547	104350.7	104067.2	404.7	mg/L	20240	ppm
1	Cd 228.802	440.7	351.0	0.0028	mg/L	0.1385	ppm
1	Co 228.616	12918.9	13335.6	0.1261	mg/L	6.303	ppm
1	Cr 267.716	22455.4	22615.1	0.2426	mg/L	12.13	ppm
1	Cu 324.754	64795.3	62508.3	0.2101	mg/L	10.50	ppm
1	Fe 273.955	15078440.2	15075450.3	302.7	mg/L	15140	ppm
1	Mg 279.079	2452165.4	2451569.3	77.19	mg/L	3859	ppm
1	Mn 257.610	5178748.0	5177627.3	3.262	mg/L	163.1	ppm
1	Mo 202.030	169.0	197.5	-0.0013	mg/L	-0.0644	ppm
1	Ni 231.604	12633.7	12358.4	0.2442	mg/L	12.21	ppm
1	Pb 220.353	2162.0	1977.1	0.1388	mg/L	6.941	ppm
1	Sb 206.833	208.1	147.4	0.0118	mg/L	0.5917	ppm
1	Se 196.026	-83.0	-167.3	0.0210	mg/L	1.049	ppm
1	Tl 190.800	324.3	135.7	-0.0271	mg/L	-1.355	ppm
1	V 292.402	60932.9	60770.2	0.5450	mg/L	27.25	ppm
1	Zn 213.856	84320.0	84903.4	0.7687	mg/L	38.44	ppm
2	Ag 328.068	-2957.9	-1883.9	-0.0093	mg/L	-0.4669	ppm
2	Al 308.215	4813459.2	4808861.6	131.8	mg/L	6590	ppm
2	As 188.979	317.7	248.3	0.1129	mg/L	5.643	ppm
2	Ba 233.527	281288.9	282154.6	0.7987	mg/L	39.93	ppm
2	Be 313.107	7724.6	8138.8	0.0029	mg/L	0.1469	ppm
2	Ca 227.547	106758.8	106475.4	414.0	mg/L	20700	ppm
2	Cd 228.802	446.2	356.4	0.0028	mg/L	0.1406	ppm
2	Co 228.616	13140.3	13556.9	0.1282	mg/L	6.408	ppm
2	Cr 267.716	23293.9	23453.7	0.2517	mg/L	12.59	ppm
2	Cu 324.754	66064.0	63777.1	0.2143	mg/L	10.71	ppm
2	Fe 273.955	15309620.4	15306630.6	307.4	mg/L	15370	ppm
2	Mg 279.079	2497542.7	2496946.5	78.62	mg/L	3931	ppm
2	Mn 257.610	5258467.7	5257347.0	3.312	mg/L	165.6	ppm
2	Mo 202.030	262.0	290.5	0.0035	mg/L	0.1729	ppm
2	Ni 231.604	12980.3	12705.1	0.2511	mg/L	12.55	ppm
2	Pb 220.353	2232.6	2047.7	0.1437	mg/L	7.184	ppm
2	Sb 206.833	149.8	89.2	-0.0026	mg/L	-0.1322	ppm
2	Se 196.026	-82.3	-166.6	0.0224	mg/L	1.122	ppm

2	Tl 190.800	383.4	194.8	-0.0110	mg/L	-0.5516 ppm
2	V 292.402	61997.6	61834.8	0.5546	mg/L	27.73 ppm
2	Zn 213.856	85771.0	86354.4	0.7819	mg/L	39.10 ppm
3	Ag 328.068	-2953.9	-1880.0	-0.0093	mg/L	-0.4660 ppm
3	Al 308.215	4842333.7	4837736.1	132.6	mg/L	6630 ppm
3	As 188.979	289.6	220.2	0.1015	mg/L	5.074 ppm
3	Ba 233.527	266396.9	267262.5	0.7565	mg/L	37.83 ppm
3	Be 313.107	7054.1	7468.3	0.0027	mg/L	0.1348 ppm
3	Ca 227.547	100941.5	100658.0	391.8	mg/L	19590 ppm
3	Cd 228.802	360.7	271.0	0.0021	mg/L	0.1069 ppm
3	Co 228.616	13029.6	13446.3	0.1271	mg/L	6.355 ppm
3	Cr 267.716	22888.0	23047.7	0.2472	mg/L	12.36 ppm
3	Cu 324.754	62425.2	60138.2	0.2029	mg/L	10.15 ppm
3	Fe 273.955	15375935.5	15372945.6	308.7	mg/L	15440 ppm
3	Mg 279.079	2369211.9	2368615.8	74.58	mg/L	3729 ppm
3	Mn 257.610	5283677.4	5282556.7	3.328	mg/L	166.4 ppm
3	Mo 202.030	233.9	262.4	0.0019	mg/L	0.0959 ppm
3	Ni 231.604	12794.0	12518.8	0.2474	mg/L	12.37 ppm
3	Pb 220.353	2154.3	1969.4	0.1384	mg/L	6.920 ppm
3	Sb 206.833	82.5	21.9	-0.0187	mg/L	-0.9338 ppm
3	Se 196.026	-86.9	-171.1	0.0211	mg/L	1.056 ppm
3	Tl 190.800	340.0	151.5	-0.0238	mg/L	-1.191 ppm
3	V 292.402	58860.0	58697.2	0.5264	mg/L	26.32 ppm
3	Zn 213.856	81823.6	82407.0	0.7446	mg/L	37.23 ppm

Mean Data ----------

ID: 6141-9 F=50 Seq. No.: 30 Sample No.: 18 A/S Pos: 26
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 12:48:32 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	-1890.2	-0.0094	0.00007	mg/L	-0.4685	0.00356	ppm	0.76%
Al 308.215	4786530.9	131.2	1.79	mg/L	6560	89.5	ppm	1.36%
As 188.979	234.8	0.1074	0.00571	mg/L	5.369	0.2855	ppm	5.32%
Ba 233.527	275308.8	0.7793	0.02128	mg/L	38.97	1.064	ppm	2.73%
Be 313.107	7773.6	0.0028	0.00012	mg/L	0.1403	0.00612	ppm	4.36%
Ca 227.547	103733.5	403.5	11.16	mg/L	20180	557.9	ppm	2.77%
Cd 228.802	326.1	0.0026	0.00038	mg/L	0.1287	0.01887	ppm	14.66%
Co 228.616	13446.3	0.1271	0.00105	mg/L	6.355	0.0523	ppm	0.82%
Cr 267.716	23038.9	0.2472	0.00458	mg/L	12.36	0.229	ppm	1.85%
Cu 324.754	62141.2	0.2091	0.00575	mg/L	10.45	0.287	ppm	2.75%
Fe 273.955	15251675.5	306.3	3.14	mg/L	15310	156.8	ppm	1.02%
Mg 279.079	2439043.9	76.79	2.049	mg/L	3840	102.4	ppm	2.67%
Mn 257.610	5239177.0	3.301	0.0345	mg/L	165.0	1.73	ppm	1.05%
Mo 202.030	250.2	0.0014	0.00242	mg/L	0.0681	0.12109	ppm	177.75%
Ni 231.604	12527.4	0.2475	0.00343	mg/L	12.38	0.171	ppm	1.38%
Pb 220.353	1998.1	0.1403	0.00294	mg/L	7.015	0.1468	ppm	2.09%
Sb 206.833	86.2	-0.0032	0.01526	mg/L	-0.1581	0.76307	ppm	482.66%
Se 196.026	-168.3	0.0215	0.00080	mg/L	1.075	0.0400	ppm	3.72%
Tl 190.800	160.7	-0.0206	0.00849	mg/L	-1.032	0.4245	ppm	41.11%
V 292.402	60434.1	0.5420	0.01431	mg/L	27.10	0.716	ppm	2.64%
Zn 213.856	84554.9	0.7651	0.01895	mg/L	38.25	0.948	ppm	2.48%

Replicate Data ----------

ID: 6141-10 F=50 Date: 11/21/02 12:51:18 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-3250.5	-2176.5	-0.0108	mg/L	-0.5395	ppm
1	Al 308.215	6496713.2	6492115.6	177.9	mg/L	8897	ppm
1	As 188.979	311.8	242.4	0.1075	mg/L	5.374	ppm
1	Ba 233.527	261807.4	262673.0	0.7435	mg/L	37.18	ppm
1	Be 313.107	13292.9	13707.1	0.0049	mg/L	0.2473	ppm
1	Ca 227.547	86394.4	86110.9	336.6	mg/L	16830	ppm
1	Cd 228.802	380.2	290.5	0.0023	mg/L	0.1146	ppm
1	Co 228.616	15534.4	15951.1	0.1508	mg/L	7.539	ppm
1	Cr 267.716	30503.3	30663.0	0.3309	mg/L	16.55	ppm
1	Cu 324.754	61276.1	58989.2	0.2002	mg/L	10.01	ppm
1	Fe 273.955	16381162.4	16378172.5	328.9	mg/L	16450	ppm

1	Mg 279.079	2877567.6	2876971.4	90.58	mg/L	4529 ppm
1	Mn 257.610	4882165.0	4881044.2	3.075	mg/L	153.8 ppm
1	Mo 202.030	136.1	164.6	-0.0040	mg/L	-0.2025 ppm
1	Ni 231.604	14772.4	14497.2	0.2865	mg/L	14.32 ppm
1	Pb 220.353	2627.8	2442.9	0.1722	mg/L	8.612 ppm
1	Sb 206.833	163.0	102.4	-0.0041	mg/L	-0.2064 ppm
1	Se 196.026	-104.3	-188.6	0.0176	mg/L	0.8796 ppm
1	Tl 190.800	391.1	202.6	-0.0188	mg/L	-0.9421 ppm
1	V 292.402	76365.9	76203.1	0.6834	mg/L	34.17 ppm
1	Zn 213.856	86669.0	87252.4	0.7881	mg/L	39.41 ppm
2	Ag 328.068	-3137.9	-2063.9	-0.0102	mg/L	-0.5116 ppm
2	Al 308.215	6529268.8	6524671.2	178.8	mg/L	8942 ppm
2	As 188.979	310.7	241.3	0.1071	mg/L	5.356 ppm
2	Ba 233.527	262876.6	263742.2	0.7466	mg/L	37.33 ppm
2	Be 313.107	13342.3	13756.5	0.0050	mg/L	0.2482 ppm
2	Ca 227.547	87099.2	86815.7	339.3	mg/L	16970 ppm
2	Cd 228.802	383.4	293.6	0.0023	mg/L	0.1159 ppm
2	Co 228.616	15938.7	16355.4	0.1546	mg/L	7.730 ppm
2	Cr 267.716	30873.9	31033.7	0.3350	mg/L	16.75 ppm
2	Cu 324.754	62115.1	59828.2	0.2029	mg/L	10.14 ppm
2	Fe 273.955	16392360.6	16389370.8	329.1	mg/L	16460 ppm
2	Mg 279.079	2888958.1	2888361.9	90.94	mg/L	4547 ppm
2	Mn 257.610	4919069.3	4917948.6	3.098	mg/L	154.9 ppm
2	Mo 202.030	137.6	166.1	-0.0040	mg/L	-0.1989 ppm
2	Ni 231.604	15089.5	14814.3	0.2927	mg/L	14.64 ppm
2	Pb 220.353	2655.9	2471.0	0.1742	mg/L	8.709 ppm
2	Sb 206.833	178.7	118.1	-0.0005	mg/L	-0.0264 ppm
2	Se 196.026	-170.6	-254.9	-0.0065	mg/L	-0.3248 ppm
2	Tl 190.800	353.6	165.1	-0.0299	mg/L	-1.495 ppm
2	V 292.402	76843.6	76680.8	0.6877	mg/L	34.39 ppm
2	Zn 213.856	87613.3	88196.7	0.7970	mg/L	39.85 ppm
3	Ag 328.068	-3304.8	-2230.8	-0.0111	mg/L	-0.5529 ppm
3	Al 308.215	6568127.1	6563529.5	179.9	mg/L	8995 ppm
3	As 188.979	332.4	263.0	0.1155	mg/L	5.777 ppm
3	Ba 233.527	265065.9	265931.6	0.7528	mg/L	37.64 ppm
3	Be 313.107	13491.8	13906.0	0.0050	mg/L	0.2509 ppm
3	Ca 227.547	88405.7	88122.3	344.3	mg/L	17220 ppm
3	Cd 228.802	334.6	244.9	0.0019	mg/L	0.0966 ppm
3	Co 228.616	15116.8	15533.5	0.1468	mg/L	7.342 ppm
3	Cr 267.716	30891.1	31050.8	0.3352	mg/L	16.76 ppm
3	Cu 324.754	62905.2	60618.2	0.2054	mg/L	10.27 ppm
3	Fe 273.955	16422377.7	16419387.9	329.7	mg/L	16490 ppm
3	Mg 279.079	2910524.0	2909927.9	91.62	mg/L	4581 ppm
3	Mn 257.610	4965622.8	4964502.1	3.128	mg/L	156.4 ppm
3	Mo 202.030	111.8	140.3	-0.0054	mg/L	-0.2685 ppm
3	Ni 231.604	14383.8	14108.6	0.2788	mg/L	13.94 ppm
3	Pb 220.353	2618.5	2433.6	0.1717	mg/L	8.587 ppm
3	Sb 206.833	204.0	143.4	0.0055	mg/L	0.2730 ppm
3	Se 196.026	-216.2	-300.5	-0.0229	mg/L	-1.147 ppm
3	Tl 190.800	363.6	175.1	-0.0273	mg/L	-1.363 ppm
3	V 292.402	77688.6	77525.8	0.6953	mg/L	34.77 ppm
3	Zn 213.856	88507.4	89090.7	0.8054	mg/L	40.27 ppm

an Data ----------

): 6141-10 F=50 Seq. No.: 31 Sample No.: 19 A/S Pos: 27
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 12:51:18 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-2157.1	-0.0107	0.00042	mg/L	-0.5346	0.02110	ppm	3.95%
308.215	6526772.1	178.9	0.98	mg/L	8944	49.0	ppm	0.55%
188.979	248.9	0.1100	0.00476	mg/L	5.502	0.2382	ppm	4.33%
Ba 233.527	264115.6	0.7476	0.00470	mg/L	37.38	0.235	ppm	0.63%
Be 313.107	13789.9	0.0050	0.00004	mg/L	0.2488	0.00187	ppm	0.75%
Ca 227.547	87016.3	340.1	3.91	mg/L	17000	195.6	ppm	1.15%
228.802	276.3	0.0022	0.00022	mg/L	0.1090	0.01077	ppm	9.88%
Co 228.616	15946.7	0.1507	0.00388	mg/L	7.537	0.1942	ppm	2.58%
Cr 267.716	30915.9	0.3337	0.00242	mg/L	16.68	0.121	ppm	0.72%
Cu 324.754	59811.9	0.2028	0.00258	mg/L	10.14	0.129	ppm	1.27%

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Fe 273.955	16395643.7	329.3	0.43	mg/L	16460	21.4	ppm	0.13%
Mg 279.079	2891753.8	91.05	0.527	mg/L	4552	26.4	ppm	0.58%
Mn 257.610	4921165.0	3.100	0.0263	mg/L	155.0	1.32	ppm	0.85%
Mo 202.030	157.0	-0.0045	0.00078	mg/L	-0.2233	0.03920	ppm	17.56%
Ni 231.604	14473.3	0.2860	0.00698	mg/L	14.30	0.349	ppm	2.44%
Pb 220.353	2449.2	0.1727	0.00129	mg/L	8.636	0.0643	ppm	0.75%
Sb 206.833	121.3	0.0003	0.00484	mg/L	0.0134	0.24215	ppm	>999.9%
Se 196.026	-248.0	-0.0039	0.02039	mg/L	-0.1975	1.01945	ppm	516.22%
Tl 190.800	180.9	-0.0253	0.00578	mg/L	-1.267	0.2889	ppm	22.80%
V 292.402	76803.3	0.6888	0.00601	mg/L	34.44	0.300	ppm	0.87%
Zn 213.856	88180.0	0.7968	0.00863	mg/L	39.84	0.431	ppm	1.08%

Replicate Data

ID: CCV 1379B Date: 11/21/02 12:54:23 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	205400.6	206474.5	1.024	mg/L		
1	Al 308.215	189928.3	185330.8	5.080	mg/L		
1	As 188.979	1376.9	1307.4	0.5072	mg/L		
1	Ba 233.527	1849911.7	1850777.3	5.239	mg/L		
1	Be 313.107	1419581.2	1419995.4	0.5125	mg/L		
1	Ca 227.547	13834.8	13551.4	51.83	mg/L		
1	Cd 228.802	131441.6	131351.9	1.037	mg/L		
1	Co 228.616	220551.9	220968.6	2.089	mg/L		
1	Cr 267.716	46509.2	46669.0	0.5160	mg/L		
1	Cu 324.754	667759.0	665472.1	2.089	mg/L		
1	Fe 273.955	265553.4	262563.5	5.273	mg/L		
1	Mg 279.079	831871.0	831274.9	26.17	mg/L		
1	Mn 257.610	3351446.3	3350325.6	2.111	mg/L		
1	Mo 202.030	38366.0	38394.5	2.034	mg/L		
1	Ni 231.604	104711.0	104435.8	2.064	mg/L		
1	Pb 220.353	7763.9	7579.0	0.5071	mg/L		
1	Sb 206.833	8576.6	8515.9	2.022	mg/L		
1	Se 196.026	1493.4	1409.2	0.5134	mg/L		
1	Tl 190.800	1943.0	1754.4	0.5101	mg/L		
1	V 292.402	228877.4	228714.7	2.051	mg/L		
1	Zn 213.856	215006.1	215589.5	2.033	mg/L		
2	Ag 328.068	205233.4	206307.3	1.023	mg/L		
2	Al 308.215	189962.9	185365.3	5.081	mg/L		
2	As 188.979	1378.7	1309.2	0.5079	mg/L		
2	Ba 233.527	1841054.0	1841919.6	5.214	mg/L		
2	Be 313.107	1417386.6	1417800.8	0.5117	mg/L		
2	Ca 227.547	13822.6	13539.1	51.78	mg/L		
2	Cd 228.802	130764.9	130675.1	1.031	mg/L		
2	Co 228.616	218978.7	219395.4	2.074	mg/L		
2	Cr 267.716	46311.3	46471.1	0.5139	mg/L		
2	Cu 324.754	662889.9	660603.0	2.074	mg/L		
2	Fe 273.955	263498.2	260508.4	5.232	mg/L		
2	Mg 279.079	825376.7	824780.5	25.97	mg/L		
2	Mn 257.610	3317516.9	3316396.2	2.089	mg/L		
2	Mo 202.030	38426.7	38455.2	2.037	mg/L		
2	Ni 231.604	104017.2	103742.0	2.050	mg/L		
2	Pb 220.353	7743.1	7558.2	0.5057	mg/L		
2	Sb 206.833	8612.0	8551.4	2.030	mg/L		
2	Se 196.026	1510.5	1426.2	0.5196	mg/L		
2	Tl 190.800	1965.2	1776.7	0.5165	mg/L		
2	V 292.402	228535.7	228372.9	2.048	mg/L		
2	Zn 213.856	213795.5	214378.9	2.022	mg/L		
3	Ag 328.068	204614.2	205688.2	1.020	mg/L		
3	Al 308.215	189575.0	184977.4	5.070	mg/L		
3	As 188.979	1382.6	1313.2	0.5094	mg/L		
3	Ba 233.527	1791929.8	1792795.4	5.075	mg/L		
3	Be 313.107	1383842.6	1384256.8	0.4996	mg/L		
3	Ca 227.547	13744.6	13461.1	51.48	mg/L		
3	Cd 228.802	131185.8	131096.0	1.035	mg/L		
3	Co 228.616	219905.8	220322.5	2.083	mg/L		
3	Cr 267.716	46030.0	46189.8	0.5107	mg/L		
3	Cu 324.754	649566.5	647279.6	2.032	mg/L		

3	Fe 273.955	261098.6	258108.7	5.183 mg/L
3	Mg 279.079	808001.5	807405.4	25.42 mg/L
3	Mn 257.610	3247247.6	3246126.9	2.045 mg/L
3	Mo 202.030	38801.0	38829.5	2.057 mg/L
3	Ni 231.604	105465.6	105190.4	2.079 mg/L
3	Pb 220.353	7752.3	7567.4	0.5063 mg/L
3	Sb 206.833	8561.5	8500.9	2.018 mg/L
3	Se 196.026	1498.9	1414.6	0.5154 mg/L
3	Tl 190.800	1956.4	1767.8	0.5140 mg/L
3	V 292.402	227283.6	227120.9	2.037 mg/L
3	Zn 213.856	216079.3	216662.7	2.043 mg/L

Mean Data

D: CCV 1379B Seq. No.: 32 Sample No.: 5 A/S Pos: 6
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 12:54:23 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	206156.7	1.022	0.0021	mg/L				0.20%
Al 308.215	185224.5	5.077	0.0059	mg/L				0.12%
As 188.979	1310.0	0.5082	0.00111	mg/L				0.22%
Ba 233.527	1828497.4	5.176	0.0884	mg/L				1.71%
Be 313.107	1407351.0	0.5079	0.00723	mg/L				1.42%
Ca 227.547	13517.2	51.70	0.187	mg/L				0.36%
Cd 228.802	131041.0	1.034	0.0027	mg/L				0.26%
Co 228.616	220228.8	2.082	0.0075	mg/L				0.36%
Cr 267.716	46443.3	0.5135	0.00266	mg/L				0.52%
Cu 324.754	657784.9	2.065	0.0296	mg/L				1.43%
Fe 273.955	260393.6	5.229	0.0448	mg/L				0.86%
Mg 279.079	821153.6	25.85	0.389	mg/L				1.50%
Mn 257.610	3304282.9	2.082	0.0335	mg/L				1.61%
Mo 202.030	38559.7	2.043	0.0125	mg/L				0.61%
Ni 231.604	104456.1	2.064	0.0143	mg/L				0.69%
Pb 220.353	7568.2	0.5064	0.00070	mg/L				0.14%
Sb 206.833	8522.7	2.023	0.0062	mg/L				0.30%
Se 196.026	1416.7	0.5161	0.00317	mg/L				0.61%
Tl 190.800	1766.3	0.5135	0.00325	mg/L				0.63%
V 292.402	228069.5	2.045	0.0075	mg/L				0.37%
Zn 213.856	215543.7	2.033	0.0108	mg/L				0.53%

Replicate Data

D: CCB Date: 11/21/02 12:59:35 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-1133.9	-60.0	-0.0003	mg/L		
1	Al 308.215	4572.3	-25.3	-0.0007	mg/L		
1	As 188.979	72.6	3.2	0.0012	mg/L		
1	Ba 233.527	-833.0	32.6	0.0001	mg/L		
1	Be 313.107	-84.3	329.9	0.0001	mg/L		
1	Ca 227.547	313.0	29.6	0.1132	mg/L		
1	Cd 228.802	103.5	13.7	0.0001	mg/L		
1	Co 228.616	-260.5	156.2	0.0015	mg/L		
1	Cr 267.716	-106.3	53.4	0.0006	mg/L		
1	Cu 324.754	2435.1	148.2	0.0005	mg/L		
1	Fe 273.955	3562.1	572.3	0.0115	mg/L		
1	Mg 279.079	627.5	31.4	0.0010	mg/L		
1	Mn 257.610	1806.7	685.9	0.0004	mg/L		
1	Mo 202.030	-32.1	-3.5	-0.0002	mg/L		
1	Ni 231.604	440.8	165.6	0.0033	mg/L		
1	Pb 220.353	185.9	1.0	0.0001	mg/L		
1	Sb 206.833	67.6	7.0	0.0017	mg/L		
1	Se 196.026	78.9	-5.4	-0.0020	mg/L		
1	Tl 190.800	183.9	-4.6	-0.0014	mg/L		
1	V 292.402	267.0	104.3	0.0009	mg/L		
1	Zn 213.856	-487.6	95.8	0.0009	mg/L		
2	Ag 328.068	-995.9	78.0	0.0004	mg/L		
2	Al 308.215	4781.4	183.8	0.0050	mg/L		
2	As 188.979	68.3	-1.2	-0.0004	mg/L		

2 Ba 233.527	-748.9	116.7	0.0003	mg/L
2 Be 313.107	-166.6	247.6	0.0001	mg/L
2 Ca 227.547	284.4	0.9	0.0036	mg/L
2 Cd 228.802	93.3	3.5	0.0000	mg/L
2 Co 228.616	-350.8	65.9	0.0006	mg/L
2 Cr 267.716	-56.7	103.0	0.0011	mg/L
2 Cu 324.754	2272.4	-14.5	0.0000	mg/L
2 Fe 273.955	3190.6	200.8	0.0040	mg/L
2 Mg 279.079	508.8	-87.3	-0.0027	mg/L
2 Mn 257.610	1726.8	606.1	0.0004	mg/L
2 Mo 202.030	-23.4	5.1	0.0003	mg/L
2 Ni 231.604	333.1	57.9	0.0011	mg/L
2 Pb 220.353	185.4	0.6	0.0000	mg/L
2 Sb 206.833	66.8	6.2	0.0015	mg/L
2 Se 196.026	84.5	0.2	0.0001	mg/L
2 Tl 190.800	191.0	2.5	0.0007	mg/L
2 V 292.402	317.1	154.4	0.0014	mg/L
2 Zn 213.856	-507.6	75.8	0.0007	mg/L
3 Ag 328.068	-1026.2	47.7	0.0002	mg/L
3 Al 308.215	4450.7	-146.9	-0.0040	mg/L
3 As 188.979	67.8	-1.6	-0.0006	mg/L
3 Ba 233.527	-849.8	15.9	0.0000	mg/L
3 Be 313.107	-130.2	284.0	0.0001	mg/L
3 Ca 227.547	182.1	-101.3	-0.3876	mg/L
3 Cd 228.802	98.9	9.1	0.0001	mg/L
3 Co 228.616	-323.4	93.3	0.0009	mg/L
3 Cr 267.716	-76.7	83.1	0.0009	mg/L
3 Cu 324.754	2197.8	-89.1	-0.0003	mg/L
3 Fe 273.955	3000.6	10.8	0.0002	mg/L
3 Mg 279.079	729.5	133.4	0.0042	mg/L
3 Mn 257.610	1551.1	430.4	0.0003	mg/L
3 Mo 202.030	-23.0	5.5	0.0003	mg/L
3 Ni 231.604	394.0	118.8	0.0023	mg/L
3 Pb 220.353	176.9	-8.0	-0.0005	mg/L
3 Sb 206.833	65.4	4.7	0.0011	mg/L
3 Se 196.026	85.7	1.4	0.0005	mg/L
3 Tl 190.800	195.1	6.5	0.0019	mg/L
3 V 292.402	202.0	39.2	0.0004	mg/L
3 Zn 213.856	-536.4	47.0	0.0004	mg/L

Mean Data ----------

ID: CCB
Sample Qty: 1.0000 g
Seq. No.: 33 Sample No.: 6
Prep. Vol.: 1.0 L
Data: Original
A/S Pos: 1
Dilution: 1.0: 1.0
Date: 11/21/02 12:59:35 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
Ag 328.068	21.9	0.0001	0.00036	mg/L				330.69%
Al 308.215	3.9	0.0001	0.00458	mg/L				>999.9%
As 188.979	0.1	0.0001	0.00102	mg/L				>999.9%
Ba 233.527	55.1	0.0002	0.00015	mg/L				98.14%
Be 313.107	287.2	0.0001	0.00001	mg/L				14.37%
Ca 227.547	-23.6	-0.0903	0.26325	mg/L				291.57%
Cd 228.802	8.8	0.0001	0.00004	mg/L				58.15%
Co 228.616	105.2	0.0010	0.00044	mg/L				44.03%
Cr 267.716	79.9	0.0009	0.00028	mg/L				31.25%
Cu 324.754	14.9	0.0000	0.00038	mg/L				816.98%
Fe 273.955	261.3	0.0052	0.00574	mg/L				109.30%
Mg 279.079	25.8	0.0008	0.00348	mg/L				428.19%
Mn 257.610	574.1	0.0004	0.00008	mg/L				22.77%
Mo 202.030	2.4	0.0001	0.00027	mg/L				216.93%
Ni 231.604	114.1	0.0023	0.00107	mg/L				47.30%
Pb 220.353	-2.2	-0.0001	0.00034	mg/L				236.75%
Sb 206.833	6.0	0.0014	0.00027	mg/L				19.13%
Se 196.026	-1.3	-0.0005	0.00132	mg/L				282.81%
Tl 190.800	1.4	0.0004	0.00165	mg/L				390.68%
V 292.402	99.3	0.0009	0.00052	mg/L				58.14%
Zn 213.856	72.9	0.0007	0.00023	mg/L				33.66%

Replicate Data ----------

ID: 6141-11 F=50 Date: 11/21/02 1:02:46 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-2644.8	-1570.9	-0.0078	mg/L	-0.3894	ppm
1	Al 308.215	5143146.1	5138548.6	140.8	mg/L	7042	ppm
1	As 188.979	226.2	156.7	0.0753	mg/L	3.766	ppm
1	Ba 233.527	206762.4	207628.0	0.5877	mg/L	29.39	ppm
1	Be 313.107	7814.7	8229.0	0.0030	mg/L	0.1485	ppm
1	Ca 227.547	91910.9	91627.4	357.0	mg/L	17850	ppm
1	Cd 228.802	212.7	123.0	0.0010	mg/L	0.0485	ppm
1	Co 228.616	10155.0	10571.7	0.0999	mg/L	4.997	ppm
1	Cr 267.716	22926.0	23085.8	0.2479	mg/L	12.40	ppm
1	Cu 324.754	38730.8	36443.9	0.1280	mg/L	6.401	ppm
1	Fe 273.955	14810044.6	14807054.8	297.4	mg/L	14870	ppm
1	Mg 279.079	2500341.1	2499744.9	78.71	mg/L	3935	ppm
1	Mn 257.610	3604251.9	3603131.1	2.270	mg/L	113.5	ppm
1	Mo 202.030	100.3	128.9	-0.0047	mg/L	-0.2359	ppm
1	Ni 231.604	8431.2	8156.0	0.1612	mg/L	8.058	ppm
1	Pb 220.353	1826.1	1641.2	0.1168	mg/L	5.842	ppm
1	Sb 206.833	200.5	139.9	0.0097	mg/L	0.4859	ppm
1	Se 196.026	-118.4	-202.7	0.0056	mg/L	0.2824	ppm
1	Tl 190.800	369.2	180.7	-0.0149	mg/L	-0.7431	ppm
1	V 292.402	66295.5	66132.8	0.5931	mg/L	29.66	ppm
1	Zn 213.856	69490.4	70073.8	0.6295	mg/L	31.47	ppm
2	Ag 328.068	-2841.8	-1767.8	-0.0088	mg/L	-0.4382	ppm
2	Al 308.215	5163731.4	5159133.9	141.4	mg/L	7070	ppm
2	As 188.979	168.0	98.6	0.0532	mg/L	2.660	ppm
2	Ba 233.527	211278.3	212143.9	0.6005	mg/L	30.03	ppm
2	Be 313.107	7777.3	8191.5	0.0030	mg/L	0.1478	ppm
2	Ca 227.547	93413.1	93129.6	362.8	mg/L	18140	ppm
2	Cd 228.802	223.0	133.2	0.0011	mg/L	0.0526	ppm
2	Co 228.616	10202.1	10618.8	0.1004	mg/L	5.019	ppm
2	Cr 267.716	23252.5	23412.3	0.2515	mg/L	12.57	ppm
2	Cu 324.754	39738.4	37451.4	0.1312	mg/L	6.562	ppm
2	Fe 273.955	14872717.9	14869728.1	298.6	mg/L	14930	ppm
2	Mg 279.079	2541939.4	2541343.3	80.02	mg/L	4001	ppm
2	Mn 257.610	3658157.8	3657037.1	2.304	mg/L	115.2	ppm
2	Mo 202.030	38.6	67.1	-0.0080	mg/L	-0.4018	ppm
2	Ni 231.604	8581.9	8306.7	0.1641	mg/L	8.207	ppm
2	Pb 220.353	1822.8	1637.9	0.1167	mg/L	5.833	ppm
2	Sb 206.833	132.4	71.8	-0.0067	mg/L	-0.3369	ppm
2	Se 196.026	-97.9	-182.2	0.0134	mg/L	0.6717	ppm
2	Tl 190.800	343.5	155.0	-0.0227	mg/L	-1.133	ppm
2	V 292.402	67818.6	67655.8	0.6068	mg/L	30.34	ppm
2	Zn 213.856	70394.3	70977.7	0.6378	mg/L	31.89	ppm
3	Ag 328.068	-3036.8	-1962.9	-0.0097	mg/L	-0.4865	ppm
3	Al 308.215	5096969.9	5092372.3	139.6	mg/L	6979	ppm
3	As 188.979	178.6	109.1	0.0567	mg/L	2.837	ppm
3	Ba 233.527	200613.4	201479.0	0.5703	mg/L	28.52	ppm
3	Be 313.107	7380.6	7794.8	0.0028	mg/L	0.1407	ppm
3	Ca 227.547	88500.5	88217.0	343.9	mg/L	17200	ppm
3	Cd 228.802	216.8	127.1	0.0010	mg/L	0.0501	ppm
3	Co 228.616	10605.8	11022.5	0.1042	mg/L	5.210	ppm
3	Cr 267.716	24037.1	24196.9	0.2603	mg/L	13.01	ppm
3	Cu 324.754	37557.0	35270.1	0.1242	mg/L	6.210	ppm
3	Fe 273.955	14657653.9	14654664.1	294.3	mg/L	14710	ppm
3	Mg 279.079	2423311.2	2422715.0	76.28	mg/L	3814	ppm
3	Mn 257.610	3500381.9	3499261.2	2.205	mg/L	110.2	ppm
3	Mo 202.030	39.3	67.8	-0.0078	mg/L	-0.3915	ppm
3	Ni 231.604	8618.1	8342.9	0.1649	mg/L	8.243	ppm
3	Pb 220.353	1841.8	1656.9	0.1178	mg/L	5.890	ppm
3	Sb 206.833	120.4	59.8	-0.0096	mg/L	-0.4821	ppm
3	Se 196.026	-191.2	-275.5	-0.0216	mg/L	-1.081	ppm
3	Tl 190.800	407.7	219.2	-0.0030	mg/L	-0.1476	ppm
3	V 292.402	64983.2	64820.5	0.5814	mg/L	29.07	ppm
3	Zn 213.856	66997.6	67581.0	0.6063	mg/L	30.31	ppm

Mean Data

Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 1:02:46 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	-1767.2	-0.0088	0.00097	mg/L	-0.4380	0.04858	ppm	11.09%
Al 308.215	5130018.2	140.6	0.94	mg/L	7030	46.9	ppm	0.67%
As 188.979	121.5	0.0618	0.01188	mg/L	3.088	0.5940	ppm	19.24%
Ba 233.527	207083.6	0.5862	0.01515	mg/L	29.31	0.758	ppm	2.59%
Be 313.107	8071.7	0.0029	0.00009	mg/L	0.1457	0.00434	ppm	2.98%
Ca 227.547	90991.3	354.6	9.68	mg/L	17730	483.8	ppm	2.73%
Cd 228.802	127.8	0.0010	0.00004	mg/L	0.0504	0.00204	ppm	4.06%
Co 228.616	10737.7	0.1015	0.00234	mg/L	5.075	0.1171	ppm	2.31%
Cr 267.716	23565.0	0.2532	0.00636	mg/L	12.66	0.318	ppm	2.51%
Cu 324.754	36388.5	0.1278	0.00353	mg/L	6.391	0.1764	ppm	2.76%
Fe 273.955	14777149.0	296.8	2.22	mg/L	14840	111.1	ppm	0.75%
Mg 279.079	2487934.4	78.33	1.895	mg/L	3917	94.8	ppm	2.42%
Mn 257.610	3586476.5	2.260	0.0505	mg/L	113.0	2.53	ppm	2.24%
Mo 202.030	87.9	-0.0069	0.00186	mg/L	-0.3430	0.09296	ppm	27.10%
Ni 231.604	8268.5	0.1634	0.00196	mg/L	8.169	0.0980	ppm	1.20%
Pb 220.353	1645.3	0.1171	0.00061	mg/L	5.855	0.0304	ppm	0.52%
Sb 206.833	90.5	-0.0022	0.01044	mg/L	-0.1110	0.52203	ppm	470.13%
Se 196.026	-220.1	-0.0008	0.01840	mg/L	-0.0422	0.92018	ppm	>999.9%
Tl 190.800	185.0	-0.0135	0.00992	mg/L	-0.6744	0.49605	ppm	73.56%
V 292.402	66203.0	0.5938	0.01273	mg/L	29.69	0.636	ppm	2.14%
Zn 213.856	69544.1	0.6245	0.01636	mg/L	31.23	0.818	ppm	2.62%

Replicate Data
ID: 6141-12 F=50 Date: 11/21/02 1:05:31 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-3293.4	-2219.4	-0.0110	mg/L	-0.5501	ppm
1	Al 308.215	4375634.0	4371036.4	119.8	mg/L	5990	ppm
1	As 188.979	284.8	215.3	0.1016	mg/L	5.079	ppm
1	Ba 233.527	215496.4	216362.0	0.6125	mg/L	30.62	ppm
1	Be 313.107	10028.4	10442.6	0.0038	mg/L	0.1884	ppm
1	Ca 227.547	119012.2	118728.7	460.7	mg/L	23030	ppm
1	Cd 228.802	348.5	258.8	0.0020	mg/L	0.1021	ppm
1	Co 228.616	13499.0	13915.7	0.1315	mg/L	6.577	ppm
1	Cr 267.716	21146.3	21306.1	0.2282	mg/L	11.41	ppm
1	Cu 324.754	57609.6	55322.7	0.1873	mg/L	9.367	ppm
1	Fe 273.955	14867746.5	14864756.7	298.5	mg/L	14930	ppm
1	Mg 279.079	2332746.3	2332150.2	73.43	mg/L	3671	ppm
1	Mn 257.610	6013358.6	6012237.9	3.788	mg/L	189.4	ppm
1	Mo 202.030	247.5	276.0	0.0030	mg/L	0.1517	ppm
1	Ni 231.604	13505.1	13229.9	0.2614	mg/L	13.07	ppm
1	Pb 220.353	2112.7	1927.8	0.1352	mg/L	6.761	ppm
1	Sb 206.833	182.6	122.0	0.0066	mg/L	0.3318	ppm
1	Se 196.026	-69.9	-154.2	0.0251	mg/L	1.257	ppm
1	Tl 190.800	315.9	127.4	-0.0275	mg/L	-1.373	ppm
1	V 292.402	55096.6	54933.8	0.4927	mg/L	24.63	ppm
1	Zn 213.856	81571.8	82155.2	0.7433	mg/L	37.16	ppm
2	Ag 328.068	-3428.2	-2354.2	-0.0117	mg/L	-0.5835	ppm
2	Al 308.215	4445960.8	4441363.2	121.7	mg/L	6087	ppm
2	As 188.979	294.6	225.1	0.1049	mg/L	5.246	ppm
2	Ba 233.527	218069.7	218935.3	0.6197	mg/L	30.99	ppm
2	Be 313.107	9979.2	10393.4	0.0038	mg/L	0.1875	ppm
2	Ca 227.547	120013.5	119730.0	464.3	mg/L	23220	ppm
2	Cd 228.802	304.9	215.1	0.0017	mg/L	0.0849	ppm
2	Co 228.616	12913.0	13329.7	0.1260	mg/L	6.300	ppm
2	Cr 267.716	20584.7	20744.4	0.2222	mg/L	11.11	ppm
2	Cu 324.754	58726.4	56439.5	0.1904	mg/L	9.522	ppm
2	Fe 273.955	14426728.3	14423738.4	289.7	mg/L	14480	ppm
2	Mg 279.079	2358271.7	2357675.5	74.23	mg/L	3712	ppm
2	Mn 257.610	5780495.1	5779374.4	3.641	mg/L	182.1	ppm
2	Mo 202.030	256.6	285.1	0.0039	mg/L	0.1930	ppm
2	Ni 231.604	13373.9	13098.7	0.2588	mg/L	12.94	ppm
2	Pb 220.353	2127.9	1943.0	0.1364	mg/L	6.821	ppm
2	Sb 206.833	201.7	141.1	0.0117	mg/L	0.5835	ppm

2	Se 196.026	-141.6	-225.8	-0.0037	mg/L	-0.1849 ppm
2	Tl 190.800	319.9	131.3	-0.0253	mg/L	-1.263 ppm
2	V 292.402	55552.7	55390.0	0.4968	mg/L	24.84 ppm
2	Zn 213.856	82815.7	83399.1	0.7559	mg/L	37.80 ppm
3	Ag 328.068	-3399.9	-2325.9	-0.0115	mg/L	-0.5765 ppm
3	Al 308.215	4426977.5	4422379.9	121.2	mg/L	6061 ppm
3	As 188.979	309.2	239.8	0.1111	mg/L	5.555 ppm
3	Ba 233.527	216482.1	217347.7	0.6152	mg/L	30.76 ppm
3	Be 313.107	9918.8	10333.0	0.0037	mg/L	0.1865 ppm
3	Ca 227.547	119202.0	118918.6	461.5	mg/L	23070 ppm
3	Cd 228.802	205.1	115.3	0.0009	mg/L	0.0455 ppm
3	Co 228.616	13589.0	14005.7	0.1324	mg/L	6.620 ppm
3	Cr 267.716	21897.8	22057.5	0.2364	mg/L	11.82 ppm
3	Cu 324.754	58400.3	56113.3	0.1900	mg/L	9.498 ppm
3	Fe 273.955	15025518.0	15022528.2	301.7	mg/L	15080 ppm
3	Mg 279.079	2341757.8	2341161.7	73.71	mg/L	3686 ppm
3	Mn 257.610	5980207.7	5979086.9	3.767	mg/L	188.3 ppm
3	Mo 202.030	192.7	221.2	0.0000	mg/L	0.0004 ppm
3	Ni 231.604	13593.7	13318.5	0.2632	mg/L	13.16 ppm
3	Pb 220.353	2320.9	2136.0	0.1492	mg/L	7.461 ppm
3	Sb 206.833	173.7	113.1	0.0041	mg/L	0.2050 ppm
3	Se 196.026	-115.7	-200.0	0.0093	mg/L	0.4671 ppm
3	Tl 190.800	340.0	151.5	-0.0211	mg/L	-1.057 ppm
3	V 292.402	55704.9	55542.2	0.4981	mg/L	24.91 ppm
3	Zn 213.856	81930.0	82513.4	0.7463	mg/L	37.32 ppm

ean Data ----------

ID: 6141-12 F=50 Seq. No.: 35 Sample No.: 21 A/S Pos: 29
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 1:05:31 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-2299.9	-0.0114	0.00035	mg/L	-0.5700	0.01762	ppm	3.09%
l 308.215	4411593.2	120.9	1.00	mg/L	6046	49.9	ppm	0.82%
As 188.979	226.8	0.1059	0.00483	mg/L	5.293	0.2417	ppm	4.57%
Ba 233.527	217548.3	0.6158	0.00368	mg/L	30.79	0.184	ppm	0.60%
e 313.107	10389.6	0.0037	0.00002	mg/L	0.1875	0.00099	ppm	0.53%
a 227.547	119125.8	462.2	1.91	mg/L	23110	95.5	ppm	0.41%
d 228.802	196.4	0.0016	0.00058	mg/L	0.0775	0.02902	ppm	37.44%
Co 228.616	13750.4	0.1300	0.00347	mg/L	6.499	0.1735	ppm	2.67%
r 267.716	21369.4	0.2289	0.00714	mg/L	11.45	0.357	ppm	3.12%
u 324.754	55958.5	0.1892	0.00167	mg/L	9.462	0.0835	ppm	0.88%
e 273.955	14770341.1	296.6	6.23	mg/L	14830	311.6	ppm	2.10%
Mg 279.079	2343662.4	73.79	0.408	mg/L	3690	20.4	ppm	0.55%
Mn 257.610	5923566.4	3.732	0.0794	mg/L	186.6	3.97	ppm	2.13%
o 202.030	260.8	0.0023	0.00203	mg/L	0.1150	0.10140	ppm	88.15%
i 231.604	13215.7	0.2611	0.00219	mg/L	13.06	0.109	ppm	0.84%
Pb 220.353	2002.3	0.1403	0.00775	mg/L	7.015	0.3877	ppm	5.53%
Sb 206.833	125.4	0.0075	0.00385	mg/L	0.3735	0.19268	ppm	51.59%
e 196.026	-193.3	0.0103	0.01444	mg/L	0.5130	0.72194	ppm	140.73%
l 190.800	136.8	-0.0246	0.00321	mg/L	-1.231	0.1604	ppm	13.03%
V 292.402	55288.7	0.4959	0.00284	mg/L	24.79	0.142	ppm	0.57%
Zn 213.856	82689.2	0.7485	0.00661	mg/L	37.43	0.331	ppm	0.88%

plicate Data ----------

D: 6141-13 F=50 Date: 11/21/02 1:08:19 PM

pl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-3978.5	-2904.6	-0.0144	mg/L	-0.7199	ppm
1	Al 308.215	5238519.0	5233921.4	143.5	mg/L	7173	ppm
1	As 188.979	460.0	390.6	0.1877	mg/L	9.386	ppm
1	Ba 233.527	559581.4	560447.0	1.586	mg/L	79.32	ppm
1	Be 313.107	20022.5	20436.7	0.0074	mg/L	0.3688	ppm
1	Ca 227.547	260994.0	260710.5	1006	mg/L	50320	ppm
1	Cd 228.802	1409.4	1319.6	0.0104	mg/L	0.5208	ppm
1	Co 228.616	15671.6	16088.3	0.1521	mg/L	7.604	ppm
1	Cr 267.716	37001.9	37161.7	0.4006	mg/L	20.03	ppm
1	Cu 324.754	127761.6	125474.7	0.4129	mg/L	20.65	ppm

1	Fe 273.955	20684383.1	20681393.3	415.3	mg/L	20770 ppm
1	Mg 279.079	3124500.9	3123904.7	98.36	mg/L	4918 ppm
1	Mn 257.610	13512928.3	13511807.6	8.513	mg/L	425.6 ppm
1	Mo 202.030	763.1	791.6	0.0258	mg/L	1.291 ppm
1	Ni 231.604	29403.9	29128.7	0.5756	mg/L	28.78 ppm
1	Pb 220.353	3069.2	2884.3	0.2017	mg/L	10.09 ppm
1	Sb 206.833	272.7	212.1	0.0177	mg/L	0.8841 ppm
1	Se 196.026	-88.2	-172.5	0.0519	mg/L	2.596 ppm
1	Tl 190.800	513.1	324.6	0.0099	mg/L	0.4932 ppm
1	V 292.402	101006.1	100843.4	0.9044	mg/L	45.22 ppm
1	Zn 213.856	141847.6	142431.0	1.299	mg/L	64.97 ppm
2	Ag 328.068	-3851.4	-2777.4	-0.0138	mg/L	-0.6884 ppm
2	Al 308.215	5203376.8	5198779.2	142.5	mg/L	7125 ppm
2	As 188.979	413.9	344.4	0.1692	mg/L	8.461 ppm
2	Ba 233.527	547163.6	548029.3	1.551	mg/L	77.57 ppm
2	Be 313.107	19546.0	19960.2	0.0072	mg/L	0.3602 ppm
2	Ca 227.547	253829.9	253546.5	978.9	mg/L	48940 ppm
2	Cd 228.802	1362.5	1272.8	0.0100	mg/L	0.5023 ppm
2	Co 228.616	14913.5	15330.2	0.1449	mg/L	7.246 ppm
2	Cr 267.716	36380.1	36539.8	0.3938	mg/L	19.69 ppm
2	Cu 324.754	124336.1	122049.1	0.4021	mg/L	20.10 ppm
2	Fe 273.955	20596218.6	20593228.8	413.6	mg/L	20680 ppm
2	Mg 279.079	3053865.4	3053269.2	96.13	mg/L	4807 ppm
2	Mn 257.610	13304002.3	13302881.5	8.381	mg/L	419.1 ppm
2	Mo 202.030	685.7	714.2	0.0218	mg/L	1.089 ppm
2	Ni 231.604	27903.5	27628.3	0.5459	mg/L	27.30 ppm
2	Pb 220.353	2790.0	2605.1	0.1829	mg/L	9.144 ppm
2	Sb 206.833	175.8	115.2	-0.0052	mg/L	-0.2593 ppm
2	Se 196.026	-177.1	-261.4	0.0191	mg/L	0.9571 ppm
2	Tl 190.800	500.4	311.9	0.0066	mg/L	0.3290 ppm
2	V 292.402	98782.8	98620.1	0.8845	mg/L	44.22 ppm
2	Zn 213.856	138234.1	138817.5	1.266	mg/L	63.28 ppm
3	Ag 328.068	-3716.9	-2642.9	-0.0131	mg/L	-0.6551 ppm
3	Al 308.215	5363991.6	5359394.0	146.9	mg/L	7345 ppm
3	As 188.979	471.5	402.0	0.1910	mg/L	9.552 ppm
3	Ba 233.527	538222.0	539087.6	1.526	mg/L	76.30 ppm
3	Be 313.107	18971.8	19386.0	0.0070	mg/L	0.3498 ppm
3	Ca 227.547	250305.5	250022.0	965.6	mg/L	48280 ppm
3	Cd 228.802	1463.3	1373.5	0.0108	mg/L	0.5420 ppm
3	Co 228.616	15477.3	15894.0	0.1502	mg/L	7.512 ppm
3	Cr 267.716	35916.2	36075.9	0.3885	mg/L	19.42 ppm
3	Cu 324.754	122914.8	120627.9	0.3980	mg/L	19.90 ppm
3	Fe 273.955	21029363.7	21026373.8	422.3	mg/L	21110 ppm
3	Mg 279.079	3000313.8	2999717.7	94.45	mg/L	4722 ppm
3	Mn 257.610	13752070.5	13750949.8	8.663	mg/L	433.2 ppm
3	Mo 202.030	753.6	782.1	0.0250	mg/L	1.252 ppm
3	Ni 231.604	28659.6	28384.4	0.5609	mg/L	28.04 ppm
3	Pb 220.353	3063.5	2878.6	0.2013	mg/L	10.07 ppm
3	Sb 206.833	194.6	134.0	-0.0010	mg/L	-0.0513 ppm
3	Se 196.026	-122.3	-206.6	0.0414	mg/L	2.068 ppm
3	Tl 190.800	463.8	275.2	-0.0060	mg/L	-0.2992 ppm
3	V 292.402	98391.7	98229.0	0.8810	mg/L	44.05 ppm
3	Zn 213.856	136178.5	136761.9	1.245	mg/L	62.26 ppm

Mean Data ----------

ID: 6141-13 F=50 Seq. No.: 36 Sample No.: 22 A/S Pos: 30
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 1:08:19 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
Ag 328.068	-2775.0	-0.0138	0.00065	mg/L	-0.6878	0.03243	ppm	4.72%
Al 308.215	5264031.6	144.3	2.31	mg/L	7214	115.7	ppm	1.60%
As 188.979	379.0	0.1827	0.01176	mg/L	9.133	0.5879	ppm	6.44%
Ba 233.527	549188.0	1.555	0.0304	mg/L	77.73	1.518	ppm	1.95%
Be 313.107	19927.6	0.0072	0.00019	mg/L	0.3596	0.00949	ppm	2.64%
Ca 227.547	254759.7	983.6	20.77	mg/L	49180	1038.5	ppm	2.11%
Cd 228.802	1322.0	0.0104	0.00040	mg/L	0.5217	0.01989	ppm	3.81%
Co 228.616	15770.8	0.1491	0.00372	mg/L	7.454	0.1861	ppm	2.50%
Cr 267.716	36592.5	0.3943	0.00610	mg/L	19.71	0.305	ppm	1.55%

1 324.754	122717.2	0.4043	0.00770 mg/L	20.22	0.385 ppm	1.90%
1 273.955	20766998.6	417.0	4.60 mg/L	20850	229.9 ppm	1.10%
g 279.079	3058963.9	96.31	1.961 mg/L	4816	98.1 ppm	2.04%
Mn 257.610	13521879.6	8.519	0.1413 mg/L	426.0	7.06 ppm	1.66%
o 202.030	762.7	0.0242	0.00214 mg/L	1.211	0.1070 ppm	8.83%
i 231.604	28380.5	0.5608	0.01482 mg/L	28.04	0.741 ppm	2.64%
b 220.353	2789.3	0.1953	0.01076 mg/L	9.765	0.5379 ppm	5.51%
Sb 206.833	153.8	0.0038	0.01218 mg/L	0.1912	0.60907 ppm	318.59%
e 196.026	-213.5	0.0375	0.01673 mg/L	1.874	0.8364 ppm	44.64%
l 190.800	303.9	0.0035	0.00836 mg/L	0.1743	0.41822 ppm	239.88%
292.402	99230.8	0.8900	0.01265 mg/L	44.50	0.632 ppm	1.42%
Zn 213.856	139336.8	1.270	0.0274 mg/L	63.50	1.369 ppm	2.16%

eplicate Data ----------

D: 6141-14 F=50 Date: 11/21/02 1:11:07 PM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-3320.4	-2246.4	-0.0111	mg/L	-0.5568	ppm
1	Al 308.215	5119186.3	5114588.7	140.2	mg/L	7009	ppm
1	As 188.979	297.0	227.6	0.1056	mg/L	5.280	ppm
1	Ba 233.527	213282.2	214147.8	0.6062	mg/L	30.31	ppm
1	Be 313.107	10438.2	10852.4	0.0039	mg/L	0.1958	ppm
1	Ca 227.547	126138.5	125855.1	487.8	mg/L	24390	ppm
1	Cd 228.802	193.6	103.9	0.0008	mg/L	0.0410	ppm
1	Co 228.616	11791.0	12207.7	0.1154	mg/L	5.770	ppm
1	Cr 267.716	21818.1	21977.9	0.2358	mg/L	11.79	ppm
1	Cu 324.754	52602.6	50315.6	0.1713	mg/L	8.563	ppm
1	Fe 273.955	14486481.2	14483491.3	290.9	mg/L	14540	ppm
1	Mg 279.079	2312393.3	2311797.2	72.79	mg/L	3639	ppm
1	Mn 257.610	5275030.1	5273909.4	3.323	mg/L	166.1	ppm
1	Mo 202.030	140.6	169.2	-0.0023	mg/L	-0.1165	ppm
1	Ni 231.604	12386.0	12110.8	0.2393	mg/L	11.97	ppm
1	Pb 220.353	1975.4	1790.5	0.1273	mg/L	6.366	ppm
1	Sb 206.833	83.8	23.1	-0.0176	mg/L	-0.8784	ppm
1	Se 196.026	-139.1	-223.4	-0.0038	mg/L	-0.1891	ppm
1	Tl 190.800	359.7	171.2	-0.0164	mg/L	-0.8181	ppm
1	V 292.402	54776.3	54613.5	0.4898	mg/L	24.49	ppm
1	Zn 213.856	74893.6	75477.0	0.6811	mg/L	34.06	ppm
2	Ag 328.068	-3288.0	-2214.0	-0.0110	mg/L	-0.5488	ppm
2	Al 308.215	5035783.9	5031186.3	137.9	mg/L	6895	ppm
2	As 188.979	336.7	267.3	0.1211	mg/L	6.057	ppm
2	Ba 233.527	216701.5	217567.1	0.6159	mg/L	30.79	ppm
2	Be 313.107	10232.3	10646.5	0.0038	mg/L	0.1921	ppm
2	Ca 227.547	129050.0	128766.5	498.8	mg/L	24940	ppm
2	Cd 228.802	185.3	95.6	0.0008	mg/L	0.0377	ppm
2	Co 228.616	12205.4	12622.1	0.1193	mg/L	5.966	ppm
2	Cr 267.716	22694.0	22853.8	0.2456	mg/L	12.28	ppm
2	Cu 324.754	53100.0	50813.1	0.1726	mg/L	8.631	ppm
2	Fe 273.955	14253857.4	14250867.5	286.2	mg/L	14310	ppm
2	Mg 279.079	2349587.9	2348991.8	73.96	mg/L	3698	ppm
2	Mn 257.610	5203621.8	5202501.1	3.278	mg/L	163.9	ppm
2	Mo 202.030	136.0	164.5	-0.0024	mg/L	-0.1198	ppm
2	Ni 231.604	12840.7	12565.5	0.2483	mg/L	12.41	ppm
2	Pb 220.353	2154.8	1969.9	0.1393	mg/L	6.963	ppm
2	Sb 206.833	116.4	55.7	-0.0098	mg/L	-0.4899	ppm
2	Se 196.026	-57.2	-141.5	0.0247	mg/L	1.236	ppm
2	Tl 190.800	351.5	163.0	-0.0177	mg/L	-0.8875	ppm
2	V 292.402	56357.4	56194.7	0.5040	mg/L	25.20	ppm
2	Zn 213.856	75656.3	76239.7	0.6888	mg/L	34.44	ppm
3	Ag 328.068	-3215.0	-2141.1	-0.0106	mg/L	-0.5307	ppm
3	Al 308.215	5080379.4	5075781.8	139.1	mg/L	6956	ppm
3	As 188.979	316.9	247.5	0.1136	mg/L	5.681	ppm
3	Ba 233.527	216421.0	217286.6	0.6151	mg/L	30.75	ppm
3	Be 313.107	10525.3	10939.5	0.0039	mg/L	0.1974	ppm
3	Ca 227.547	129655.6	129372.1	501.2	mg/L	25060	ppm
3	Cd 228.802	172.0	82.3	0.0006	mg/L	0.0325	ppm
3	Co 228.616	12480.9	12897.6	0.1219	mg/L	6.096	ppm
3	Cr 267.716	23041.6	23201.4	0.2494	mg/L	12.47	ppm

3	Cu 324.754	53742.4	51455.5	0.1747	mg/L	8.735	ppm
3	Fe 273.955	14323595.6	14320605.8	287.6	mg/L	14380	ppm
3	Mg 279.079	2354042.7	2353446.5	74.10	mg/L	3705	ppm
3	Mn 257.610	5276216.1	5275095.4	3.323	mg/L	166.2	ppm
3	Mo 202.030	195.6	224.1	0.0007	mg/L	0.0354	ppm
3	Ni 231.604	13135.8	12860.6	0.2541	mg/L	12.71	ppm
3	Pb 220.353	2149.8	1964.9	0.1390	mg/L	6.949	ppm
3	Sb 206.833	111.5	50.9	-0.0112	mg/L	-0.5585	ppm
3	Se 196.026	-81.1	-165.4	0.0164	mg/L	0.8193	ppm
3	Tl 190.800	332.8	144.3	-0.0236	mg/L	-1.179	ppm
3	V 292.402	56093.9	55931.2	0.5016	mg/L	25.08	ppm
3	Zn 213.856	76704.7	77288.1	0.6985	mg/L	34.93	ppm

Mean Data ----------

ID: 6141-14 F=50 Seq. No.: 37 Sample No.: 23 A/S Pos: 31
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 1:11:07 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-2200.5	-0.0109	0.00027	mg/L	-0.5454	0.01338	ppm	2.45%
Al 308.215	5073852.3	139.1	1.14	mg/L	6953	57.2	ppm	0.82%
As 188.979	247.5	0.1134	0.00777	mg/L	5.672	0.3885	ppm	6.85%
Ba 233.527	216333.8	0.6124	0.00537	mg/L	30.62	0.269	ppm	0.88%
Be 313.107	10812.8	0.0039	0.00005	mg/L	0.1951	0.00272	ppm	1.39%
Ca 227.547	127997.9	495.9	7.14	mg/L	24800	357.2	ppm	1.44%
Cd 228.802	93.9	0.0007	0.00009	mg/L	0.0371	0.00430	ppm	11.60%
Co 228.616	12575.8	0.1189	0.00328	mg/L	5.944	0.1641	ppm	2.76%
Cr 267.716	22677.7	0.2436	0.00702	mg/L	12.18	0.351	ppm	2.88%
Cu 324.754	50861.4	0.1729	0.00173	mg/L	8.643	0.0864	ppm	1.00%
Fe 273.955	14351654.9	288.2	2.40	mg/L	14410	119.9	ppm	0.83%
Mg 279.079	2338078.5	73.62	0.720	mg/L	3681	36.0	ppm	0.98%
Mn 257.610	5250502.0	3.308	0.0262	mg/L	165.4	1.31	ppm	0.79%
Mo 202.030	185.9	-0.0013	0.00177	mg/L	-0.0670	0.08866	ppm	132.40%
Ni 231.604	12512.3	0.2472	0.00746	mg/L	12.36	0.373	ppm	3.02%
Pb 220.353	1908.4	0.1352	0.00682	mg/L	6.759	0.3411	ppm	5.05%
Sb 206.833	43.2	-0.0128	0.00415	mg/L	-0.6423	0.20737	ppm	32.29%
Se 196.026	-176.8	0.0124	0.01466	mg/L	0.6222	0.73283	ppm	117.79%
Tl 190.800	159.5	-0.0192	0.00383	mg/L	-0.9615	0.19153	ppm	19.92%
V 292.402	55579.8	0.4985	0.00760	mg/L	24.92	0.380	ppm	1.52%
Zn 213.856	76334.9	0.6895	0.00873	mg/L	34.47	0.437	ppm	1.27%

Replicate Data ----------

ID: 6141-15 F=50 Date: 11/21/02 1:13:51 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-3092.9	-2018.9	-0.0100	mg/L	-0.5004	ppm
1	Al 308.215	5162174.1	5157576.5	141.4	mg/L	7068	ppm
1	As 188.979	282.6	213.2	0.0920	mg/L	4.601	ppm
1	Ba 233.527	291767.7	292633.3	0.8284	mg/L	41.42	ppm
1	Be 313.107	6595.7	7009.9	0.0025	mg/L	0.1265	ppm
1	Ca 227.547	48693.5	48410.1	191.4	mg/L	9568	ppm
1	Cd 228.802	314.8	225.1	0.0018	mg/L	0.0888	ppm
1	Co 228.616	14359.6	14776.3	0.1397	mg/L	6.984	ppm
1	Cr 267.716	23145.9	23305.7	0.2507	mg/L	12.54	ppm
1	Cu 324.754	56279.5	53992.6	0.1824	mg/L	9.118	ppm
1	Fe 273.955	13997072.9	13994083.0	281.0	mg/L	14050	ppm
1	Mg 279.079	2687690.3	2687094.1	84.60	mg/L	4230	ppm
1	Mn 257.610	6351451.0	6350330.2	4.001	mg/L	200.0	ppm
1	Mo 202.030	65.9	94.4	-0.0059	mg/L	-0.2953	ppm
1	Ni 231.604	11929.6	11654.4	0.2303	mg/L	11.51	ppm
1	Pb 220.353	1845.4	1660.5	0.1170	mg/L	5.851	ppm
1	Sb 206.833	165.6	105.0	0.0019	mg/L	0.0963	ppm
1	Se 196.026	-179.4	-263.7	-0.0214	mg/L	-1.072	ppm
1	Tl 190.800	275.1	86.6	-0.0400	mg/L	-1.999	ppm
1	V 292.402	61295.7	61133.0	0.5483	mg/L	27.41	ppm
1	Zn 213.856	96437.5	97020.9	0.8853	mg/L	44.27	ppm
2	Ag 328.068	-3020.1	-1946.2	-0.0096	mg/L	-0.4824	ppm
2	Al 308.215	4955330.4	4950732.8	135.7	mg/L	6785	ppm

2	As 188.979	276.0	206.5	0.0897	mg/L	4.483 ppm
2	Ba 233.527	281843.2	282708.8	0.8003	mg/L	40.01 ppm
2	Be 313.107	6361.7	6775.9	0.0024	mg/L	0.1223 ppm
2	Ca 227.547	47093.0	46809.6	185.2	mg/L	9261 ppm
2	Cd 228.802	288.5	198.7	0.0016	mg/L	0.0784 ppm
2	Co 228.616	14920.0	15336.7	0.1450	mg/L	7.249 ppm
2	Cr 267.716	24238.5	24398.3	0.2629	mg/L	13.14 ppm
2	Cu 324.754	54406.8	52119.8	0.1764	mg/L	8.821 ppm
2	Fe 273.955	13936486.7	13933496.8	279.8	mg/L	13990 ppm
2	Mg 279.079	2599625.9	2599029.7	81.83	mg/L	4092 ppm
2	Mn 257.610	6365149.2	6364028.4	4.009	mg/L	200.5 ppm
2	Mo 202.030	139.0	167.5	-0.0020	mg/L	-0.0994 ppm
2	Ni 231.604	12345.6	12070.3	0.2385	mg/L	11.93 ppm
2	Pb 220.353	1928.6	1743.7	0.1223	mg/L	6.114 ppm
2	Sb 206.833	126.8	66.2	-0.0075	mg/L	-0.3736 ppm
2	Se 196.026	-125.8	-210.1	-0.0019	mg/L	-0.0966 ppm
2	Tl 190.800	322.1	133.5	-0.0253	mg/L	-1.264 ppm
2	V 292 402	59833.8	59671.1	0.5352	mg/L	26.76 ppm
2	Zn 213.856	93725.4	94308.8	0.8599	mg/L	42.99 ppm
3	Ag 328.068	-3100.3	-2026.3	-0.0100	mg/L	-0.5022 ppm
3	Al 308.215	4999426.6	4994829.0	136.9	mg/L	6845 ppm
3	As 188.979	260.6	191.2	0.0834	mg/L	4.169 ppm
3	Ba 233.527	283930.4	284796.0	0.8062	mg/L	40.31 ppm
3	Be 313.107	6459.8	6874.0	0.0025	mg/L	0.1240 ppm
3	Ca 227.547	47691.4	47408.0	187.4	mg/L	9368 ppm
3	Cd 228.802	367.5	277.7	0.0022	mg/L	0.1096 ppm
3	Co 228.616	14222.0	14638.7	0.1384	mg/L	6.919 ppm
3	Cr 267.716	22620.3	22780.1	0.2451	mg/L	12.26 ppm
3	Cu 324.754	55030.4	52743.4	0.1781	mg/L	8.905 ppm
3	Fe 273.955	13635162.2	13632172.3	273.8	mg/L	13690 ppm
3	Mg 279.079	2628238.5	2627642.4	82.73	mg/L	4137 ppm
3	Mn 257.610	6272596.3	6271475.6	3.951	mg/L	197.6 ppm
3	Mo 202.030	124.8	153.3	-0.0025	mg/L	-0.1253 ppm
3	Ni 231.604	11827.2	11552.0	0.2283	mg/L	11.41 ppm
3	Pb 220.353	1872.7	1687.8	0.1186	mg/L	5.932 ppm
3	Sb 206.833	184.6	124.0	0.0071	mg/L	0.3535 ppm
3	Se 196.026	-99.2	-183.5	0.0058	mg/L	0.2908 ppm
3	Tl 190.800	246.3	57.8	-0.0466	mg/L	-2.329 ppm
3	V 292.402	59875.7	59713.0	0.5355	mg/L	26.78 ppm
3	Zn 213.856	95134.3	95717.7	0.8738	mg/L	43.69 ppm

Mean Data ----------

ID: 6141-15 F=50 Seq. No.: 38 Sample No.: 24 A/S Pos: 32
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 1:13:51 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	-1997.1	-0.0099	0.00022	mg/L	-0.4950	0.01098	ppm	2.22%
Al 308.215	5034379.5	138.0	2.99	mg/L	6899	149.3	ppm	2.16%
As 188.979	203.6	0.0884	0.00446	mg/L	4.418	0.2230	ppm	5.05%
Ba 233.527	286712.7	0.8116	0.01481	mg/L	40.58	0.741	ppm	1.82%
Be 313.107	6886.6	0.0025	0.00004	mg/L	0.1243	0.00212	ppm	1.71%
Ca 227.547	47542.5	188.0	3.12	mg/L	9399	156.0	ppm	1.66%
Cd 228.802	233.8	0.0018	0.00032	mg/L	0.0923	0.01587	ppm	17.20%
Co 228.616	14917.2	0.1410	0.00350	mg/L	7.051	0.1748	ppm	2.48%
Cr 267.716	23494.7	0.2529	0.00907	mg/L	12.65	0.453	ppm	3.59%
Cu 324.754	52952.0	0.1790	0.00306	mg/L	8.948	0.1529	ppm	1.71%
Fe 273.955	13853250.7	278.2	3.89	mg/L	13910	194.6	ppm	1.40%
Mg 279.079	2637922.1	83.06	1.414	mg/L	4153	70.7	ppm	1.70%
Mn 257.610	6328611.4	3.987	0.0315	mg/L	199.4	1.57	ppm	0.79%
Mo 202.030	138.4	-0.0035	0.00213	mg/L	-0.1733	0.10642	ppm	61.40%
Ni 231.604	11758.9	0.2324	0.00542	mg/L	11.62	0.271	ppm	2.33%
Pb 220.353	1697.3	0.1193	0.00270	mg/L	5.966	0.1349	ppm	2.26%
Sb 206.833	98.4	0.0005	0.00737	mg/L	0.0254	0.36869	ppm	>999.9%
Se 196.026	-219.1	-0.0059	0.01405	mg/L	-0.2927	0.70242	ppm	240.00%
Tl 190.800	92.6	-0.0373	0.01091	mg/L	-1.864	0.5453	ppm	29.26%
V 292.402	60172.3	0.5397	0.00746	mg/L	26.98	0.373	ppm	1.38%
Zn 213.856	95682.5	0.8730	0.01274	mg/L	43.65	0.637	ppm	1.46%

Replicate Data ----------

ID: CCV 1379B Date: 11/21/02 1:16:52 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	206443.0	207517.0	1.029	mg/L		
1	Al 308.215	191475.5	186877.9	5.122	mg/L		
1	As 188.979	1391.6	1322.2	0.5129	mg/L		
1	Ba 233.527	1816588.3	1817453.9	5.145	mg/L		
1	Be 313.107	1409885.2	1410299.4	0.5090	mg/L		
1	Ca 227.547	14005.4	13722.0	52.48	mg/L		
1	Cd 228.802	133781.0	133691.2	1.055	mg/L		
1	Co 228.616	223522.9	223939.6	2.117	mg/L		
1	Cr 267.716	46271.1	46430.9	0.5134	mg/L		
1	Cu 324.754	659633.9	657347.0	2.064	mg/L		
1	Fe 273.955	266922.3	263932.4	5.300	mg/L		
1	Mg 279.079	819296.0	818699.9	25.78	mg/L		
1	Mn 257.610	3320434.6	3319313.9	2.091	mg/L		
1	Mo 202.030	38774.6	38803.1	2.055	mg/L		
1	Ni 231.604	107436.6	107161.4	2.118	mg/L		
1	Pb 220.353	7818.8	7633.9	0.5108	mg/L		
1	Sb 206.833	8681.3	8620.7	2.047	mg/L		
1	Se 196.026	1504.0	1419.7	0.5173	mg/L		
1	Tl 190.800	1967.0	1778.4	0.5171	mg/L		
1	V 292.402	228885.1	228722.3	2.051	mg/L		
1	Zn 213.856	219591.4	220174.8	2.077	mg/L		
2	Ag 328.068	202917.5	203991.4	1.011	mg/L		
2	Al 308.215	188541.9	183944.3	5.042	mg/L		
2	As 188.979	1397.7	1328.3	0.5151	mg/L		
2	Ba 233.527	1825788.9	1826654.5	5.171	mg/L		
2	Be 313.107	1424107.1	1424521.4	0.5141	mg/L		
2	Ca 227.547	13691.0	13407.5	51.28	mg/L		
2	Cd 228.802	131195.6	131105.8	1.035	mg/L		
2	Co 228.616	219065.1	219481.8	2.075	mg/L		
2	Cr 267.716	45635.6	45795.4	0.5064	mg/L		
2	Cu 324.754	662358.9	660072.0	2.072	mg/L		
2	Fe 273.955	262451.2	259461.4	5.211	mg/L		
2	Mg 279.079	822943.2	822347.1	25.89	mg/L		
2	Mn 257.610	3312483.6	3311362.9	2.086	mg/L		
2	Mo 202.030	38389.8	38418.3	2.035	mg/L		
2	Ni 231.604	104917.1	104641.9	2.068	mg/L		
2	Pb 220.353	7820.2	7635.3	0.5109	mg/L		
2	Sb 206.833	8696.9	8636.3	2.051	mg/L		
2	Se 196.026	1499.0	1414.7	0.5154	mg/L		
2	Tl 190.800	1962.9	1774.4	0.5159	mg/L		
2	V 292.402	224229.4	224066.6	2.010	mg/L		
2	Zn 213.856	214881.9	215465.3	2.032	mg/L		
3	Ag 328.068	197288.2	198362.2	0.9833	mg/L		
3	Al 308.215	183155.2	178557.6	4.894	mg/L		
3	As 188.979	1385.3	1315.9	0.5102	mg/L		
3	Ba 233.527	1812500.9	1813366.5	5.133	mg/L		
3	Be 313.107	1419715.0	1420129.2	0.5125	mg/L		
3	Ca 227.547	13282.2	12998.7	49.72	mg/L		
3	Cd 228.802	127996.2	127906.4	1.009	mg/L		
3	Co 228.616	214141.5	214558.2	2.028	mg/L		
3	Cr 267.716	44085.1	44244.9	0.4892	mg/L		
3	Cu 324.754	660286.5	657999.6	2.066	mg/L		
3	Fe 273.955	253522.3	250532.4	5.031	mg/L		
3	Mg 279.079	819344.0	818747.8	25.78	mg/L		
3	Mn 257.610	3301698.8	3300578.0	2.079	mg/L		
3	Mo 202.030	37541.3	37569.8	1.990	mg/L		
3	Ni 231.604	103073.1	102797.9	2.031	mg/L		
3	Pb 220.353	7758.6	7573.7	0.5068	mg/L		
3	Sb 206.833	8607.8	8547.2	2.030	mg/L		
3	Se 196.026	1481.5	1397.2	0.5090	mg/L		
3	Tl 190.800	1956.4	1767.9	0.5140	mg/L		
3	V 292.402	216579.2	216416.5	1.941	mg/L		
3	Zn 213.856	211150.3	211733.6	1.997	mg/L		

Mean Data

): CCV 1379B
mple Qty: 1.0000 g

Seq. No.: 39 Sample No.: 5 A/S Pos: 6
Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 1:16:52 PM

ement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
ag 328.068	203290.2	1.008	0.0229	mg/L				2.27%
Al 308.215	183126.6	5.019	0.1157	mg/L				2.30%
188.979	1322.1	0.5127	0.00247	mg/L				0.48%
233.527	1819158.3	5.149	0.0193	mg/L				0.37%
313.107	1418316.7	0.5119	0.00263	mg/L				0.51%
Ca 227.547	13376.1	51.16	1.387	mg/L				2.71%
d 228.802	130901.1	1.033	0.0229	mg/L				2.21%
228.616	219326.5	2.073	0.0444	mg/L				2.14%
267.716	45490.4	0.5030	0.01243	mg/L				2.47%
Cu 324.754	658472.8	2.067	0.0045	mg/L				0.22%
e 273.955	257975.4	5.181	0.1370	mg/L				2.64%
279.079	819931.6	25.82	0.066	mg/L				0.26%
257.610	3310418.3	2.086	0.0059	mg/L				0.28%
Mo 202.030	38263.7	2.027	0.0334	mg/L				1.65%
Ni 231.604	104867.1	2.072	0.0433	mg/L				2.09%
220.353	7614.3	0.5095	0.00235	mg/L				0.46%
206.833	8601.4	2.043	0.0111	mg/L				0.54%
Se 196.026	1410.5	0.5139	0.00434	mg/L				0.84%
Tl 190.800	1773.6	0.5156	0.00155	mg/L				0.30%
292.402	223068.5	2.001	0.0557	mg/L				2.79%
213.856	215791.2	2.035	0.0399	mg/L				1.96%

Replicate Data

): CCB Date: 11/21/02 1:22:04 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-1099.1	-25.1	-0.0001	mg/L		
1	Al 308.215	4794.9	197.3	0.0054	mg/L		
1	As 188.979	66.4	-3.0	-0.0012	mg/L		
1	Ba 233.527	-681.5	184.1	0.0005	mg/L		
1	Be 313.107	5.2	419.4	0.0002	mg/L		
1	Ca 227.547	434.7	151.3	0.5786	mg/L		
1	Cd 228.802	80.4	-9.3	-0.0001	mg/L		
1	Co 228.616	-374.5	42.2	0.0004	mg/L		
1	Cr 267.716	-158.5	1.3	0.0000	mg/L		
1	Cu 324.754	2127.3	-159.6	-0.0005	mg/L		
1	Fe 273.955	4842.3	1852.4	0.0372	mg/L		
1	Mg 279.079	397.6	-198.5	-0.0063	mg/L		
1	Mn 257.610	2285.3	1164.6	0.0007	mg/L		
1	Mo 202.030	-28.2	0.3	0.0000	mg/L		
1	Ni 231.604	384.5	109.3	0.0022	mg/L		
1	Pb 220.353	179.4	-5.5	-0.0004	mg/L		
1	Sb 206.833	62.5	1.9	0.0004	mg/L		
1	Se 196.026	76.5	-7.8	-0.0028	mg/L		
1	Tl 190.800	190.7	2.1	0.0006	mg/L		
1	V 292.402	344.1	181.3	0.0016	mg/L		
1	Zn 213.856	-400.8	182.5	0.0017	mg/L		
2	Ag 328.068	-948.1	125.9	0.0006	mg/L		
2	Al 308.215	4891.4	293.8	0.0081	mg/L		
2	As 188.979	71.9	2.5	0.0010	mg/L		
2	Ba 233.527	-861.5	4.1	0.0000	mg/L		
2	Be 313.107	-201.0	213.2	0.0001	mg/L		
2	Ca 227.547	333.1	49.6	0.1897	mg/L		
2	Cd 228.802	80.2	-9.5	-0.0001	mg/L		
2	Co 228.616	-333.0	83.7	0.0008	mg/L		
2	Cr 267.716	-180.6	-20.8	-0.0002	mg/L		
2	Cu 324.754	2218.9	-68.1	-0.0002	mg/L		
2	Fe 273.955	4489.8	1500.0	0.0301	mg/L		
2	Mg 279.079	239.2	-356.9	-0.0112	mg/L		
2	Mn 257.610	2246.7	1126.0	0.0007	mg/L		
2	Mo 202.030	-22.7	5.8	0.0003	mg/L		
2	Ni 231.604	342.4	67.2	0.0013	mg/L		
2	Pb 220.353	169.3	-15.6	-0.0010	mg/L		

2	Sb 206.833	58.2	-2.4	-0.0006 mg/L
2	Se 196.026	76.5	-7.8	-0.0028 mg/L
2	Tl 190.800	191.5	3.0	0.0009 mg/L
2	V 292.402	297.0	134.2	0.0012 mg/L
2	Zn 213.856	-446.6	136.8	0.0013 mg/L
3	Ag 328.068	-932.1	141.8	0.0007 mg/L
3	Al 308.215	4994.9	397.3	0.0109 mg/L
3	As 188.979	77.1	7.7	0.0029 mg/L
3	Ba 233.527	-827.5	38.1	0.0001 mg/L
3	Be 313.107	61.3	475.5	0.0002 mg/L
3	Ca 227.547	285.5	2.0	0.0078 mg/L
3	Cd 228.802	94.6	4.9	0.0000 mg/L
3	Co 228.616	-298.0	118.7	0.0011 mg/L
3	Cr 267.716	-121.8	37.9	0.0004 mg/L
3	Cu 324.754	2322.4	35.5	0.0001 mg/L
3	Fe 273.955	3956.3	966.4	0.0194 mg/L
3	Mg 279.079	356.3	-239.8	-0.0076 mg/L
3	Mn 257.610	2447.0	1326.3	0.0008 mg/L
3	Mo 202.030	-26.6	1.9	0.0001 mg/L
3	Ni 231.604	481.2	206.0	0.0041 mg/L
3	Pb 220.353	166.2	-18.7	-0.0013 mg/L
3	Sb 206.833	63.3	2.7	0.0006 mg/L
3	Se 196.026	76.3	-8.0	-0.0029 mg/L
3	Tl 190.800	186.3	-2.2	-0.0007 mg/L
3	V 292.402	268.3	105.6	0.0009 mg/L
3	Zn 213.856	-477.4	106.0	0.0010 mg/L

Mean Data ----------

ID: CCB Seq. No.: 40 Sample No.: 6 A/S Pos: 1

Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0

Data: Original Date: 11/21/02 1:22:04 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	80.9	0.0004	0.00046	mg/L				113.95%
Al 308.215	296.2	0.0081	0.00274	mg/L				33.77%
As 188.979	2.4	0.0009	0.00205	mg/L				225.16%
Ba 233.527	75.4	0.0002	0.00027	mg/L				126.78%
Be 313.107	369.4	0.0001	0.00005	mg/L				37.40%
Ca 227.547	67.6	0.2587	0.29159	mg/L				112.72%
Cd 228.802	-4.7	0.0000	0.00007	mg/L				177.11%
Co 228.616	81.5	0.0008	0.00036	mg/L				46.95%
Cr 267.716	6.1	0.0001	0.00033	mg/L				484.55%
Cu 324.754	-64.1	-0.0002	0.00031	mg/L				152.38%
Fe 273.955	1439.6	0.0289	0.00896	mg/L				30.99%
Mg 279.079	-265.1	-0.0083	0.00259	mg/L				30.99%
Mn 257.610	1205.6	0.0008	0.00007	mg/L				8.81%
Mo 202.030	2.6	0.0001	0.00015	mg/L				107.52%
Ni 231.604	127.5	0.0025	0.00141	mg/L				55.83%
Pb 220.353	-13.3	-0.0009	0.00046	mg/L				52.28%
Sb 206.833	0.7	0.0002	0.00066	mg/L				380.24%
Se 196.026	-7.8	-0.0029	0.00004	mg/L				1.25%
Tl 190.800	1.0	0.0003	0.00082	mg/L				291.06%
V 292.402	140.4	0.0013	0.00034	mg/L				27.26%
Zn 213.856	141.8	0.0013	0.00036	mg/L				27.16%

Replicate Data ----------

ID: M-BL 02M2369S Date: 11/21/02 1:25:23 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1206.1	-132.2	-0.0007	mg/L	-0.0328	ppm
1	Al 308.215	4921.5	324.0	0.0089	mg/L	0.4440	ppm
1	As 188.979	65.7	-3.7	-0.0014	mg/L	-0.0709	ppm
1	Ba 233.527	-854.7	10.9	0.0000	mg/L	0.0015	ppm
1	Be 313.107	-203.8	210.4	0.0001	mg/L	0.0038	ppm
1	Ca 227.547	235.3	-48.1	-0.1841	mg/L	-9.207	ppm
1	Cd 228.802	70.5	-19.2	-0.0002	mg/L	-0.0076	ppm
1	Co 228.616	-367.6	49.1	0.0005	mg/L	0.0232	ppm
1	Cr 267.716	-89.0	70.8	0.0008	mg/L	0.0391	ppm

1	Cu 324.754	2132.5	-154.4	-0.0005	mg/L	-0.0242 ppm
1	Fe 273.955	4151.2	1161.3	0.0233	mg/L	1.166 ppm
1	Mg 279.079	501.3	-94.9	-0.0030	mg/L	-0.1493 ppm
1	Mn 257.610	2024.8	904.1	0.0006	mg/L	0.0285 ppm
1	Mo 202.030	-33.0	-4.5	-0.0002	mg/L	-0.0119 ppm
1	Ni 231.604	406.5	131.3	0.0026	mg/L	0.1297 ppm
1	Pb 220.353	183.8	-1.1	-0.0001	mg/L	-0.0035 ppm
1	Sb 206.833	66.1	5.5	0.0013	mg/L	0.0657 ppm
1	Se 196.026	76.6	-7.7	-0.0028	mg/L	-0.1400 ppm
1	Tl 190.800	186.8	-1.7	-0.0005	mg/L	-0.0246 ppm
1	V 292.402	160.3	-2.5	0.0000	mg/L	-0.0011 ppm
1	Zn 213.856	-385.9	197.5	0.0019	mg/L	0.0931 ppm
2	Ag 328.068	-1100.9	-26.9	-0.0001	mg/L	-0.0067 ppm
2	Al 308.215	4843.4	245.8	0.0067	mg/L	0.3368 ppm
2	As 188.979	65.6	-3.8	-0.0015	mg/L	-0.0731 ppm
2	Ba 233.527	-803.4	62.2	0.0002	mg/L	0.0088 ppm
2	Be 313.107	-231.1	183.1	0.0001	mg/L	0.0033 ppm
2	Ca 227.547	366.2	82.8	0.3165	mg/L	15.82 ppm
2	Cd 228.802	86.4	-3.4	0.0000	mg/L	-0.0013 ppm
2	Co 228.616	-305.6	111.1	0.0011	mg/L	0.0525 ppm
2	Cr 267.716	-113.8	46.0	0.0005	mg/L	0.0254 ppm
2	Cu 324.754	2039.5	-247.4	-0.0008	mg/L	-0.0388 ppm
2	Fe 273.955	3982.3	992.5	0.0199	mg/L	0.9965 ppm
2	Mg 279.079	404.7	-191.5	-0.0060	mg/L	-0.3014 ppm
2	Mn 257.610	1940.2	819.5	0.0005	mg/L	0.0258 ppm
2	Mo 202.030	-37.4	-8.9	-0.0005	mg/L	-0.0236 ppm
2	Ni 231.604	395.1	119.9	0.0024	mg/L	0.1184 ppm
2	Pb 220.353	179.8	-5.1	-0.0003	mg/L	-0.0169 ppm
2	Sb 206.833	56.9	-3.8	-0.0009	mg/L	-0.0449 ppm
2	Se 196.026	78.8	-5.4	-0.0020	mg/L	-0.0989 ppm
2	Tl 190.800	195.9	7.4	0.0021	mg/L	0.1070 ppm
2	V 292.402	291.8	129.0	0.0012	mg/L	0.0579 ppm
2	Zn 213.856	-419.2	164.2	0.0015	mg/L	0.0774 ppm
3	Ag 328.068	-939.1	134.8	0.0007	mg/L	0.0334 ppm
3	Al 308.215	4940.9	343.3	0.0094	mg/L	0.4704 ppm
3	As 188.979	73.6	4.1	0.0016	mg/L	0.0796 ppm
3	Ba 233.527	-874.9	-9.3	0.0000	mg/L	-0.0013 ppm
3	Be 313.107	-227.6	186.6	0.0001	mg/L	0.0034 ppm
3	Ca 227.547	275.9	-7.6	-0.0290	mg/L	-1.449 ppm
3	Cd 228.802	98.7	9.0	0.0001	mg/L	0.0035 ppm
3	Co 228.616	-355.7	61.0	0.0006	mg/L	0.0289 ppm
3	Cr 267.716	-25.4	134.4	0.0015	mg/L	0.0743 ppm
3	Cu 324.754	2099.9	-187.0	-0.0006	mg/L	-0.0294 ppm
3	Fe 273.955	3457.0	467.2	0.0094	mg/L	0.4691 ppm
3	Mg 279.079	276.2	-319.9	-0.0101	mg/L	-0.5036 ppm
3	Mn 257.610	1973.4	852.7	0.0005	mg/L	0.0269 ppm
3	Mo 202.030	-29.0	-0.5	0.0000	mg/L	-0.0012 ppm
3	Ni 231.604	351.6	76.4	0.0015	mg/L	0.0755 ppm
3	Pb 220.353	182.6	-2.3	-0.0002	mg/L	-0.0077 ppm
3	Sb 206.833	66.6	6.0	0.0014	mg/L	0.0718 ppm
3	Se 196.026	83.3	-0.9	-0.0003	mg/L	-0.0171 ppm
3	Tl 190.800	188.1	-0.5	-0.0001	mg/L	-0.0067 ppm
3	V 292.402	246.7	83.9	0.0008	mg/L	0.0376 ppm
3	Zn 213.856	-457.5	125.9	0.0012	mg/L	0.0594 ppm

Mean Data

ID: M-BL 02M2369S Seq. No.: 41 Sample No.: 25 A/S Pos: 33
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 1:25:23 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-8.1	0.0000	0.00067	mg/L	-0.0020	0.03333	ppm	>999.9%
Al 308.215	304.3	0.0083	0.00141	mg/L	0.4171	0.07075	ppm	16.96%
As 188.979	-1.1	-0.0004	0.00175	mg/L	-0.0215	0.08755	ppm	407.86%
Ba 233.527	21.3	0.0001	0.00010	mg/L	0.0030	0.00522	ppm	173.15%
Be 313.107	193.4	0.0001	0.00001	mg/L	0.0035	0.00027	ppm	7.70%
Ca 227.547	9.0	0.0345	0.25628	mg/L	1.723	12.8139	ppm	743.71%
Cd 228.802	-4.5	0.0000	0.00011	mg/L	-0.0018	0.00557	ppm	310.41%
Co 228.616	73.8	0.0007	0.00031	mg/L	0.0349	0.01555	ppm	44.60%

Cr 267.716	83.7	0.0009	0.00050 mg/L	0.0463	0.02520 ppm	54.43%
Cu 324.754	-196.3	-0.0006	0.00015 mg/L	-0.0308	0.00740 ppm	24.03%
Fe 273.955	873.7	0.0175	0.00727 mg/L	0.8773	0.36348 ppm	41.43%
Mg 279.079	-202.1	-0.0064	0.00355 mg/L	-0.3181	0.17774 ppm	55.87%
Mn 257.610	858.7	0.0005	0.00003 mg/L	0.0271	0.00134 ppm	4.96%
Mo 202.030	-4.6	-0.0002	0.00022 mg/L	-0.0122	0.01119 ppm	91.44%
Ni 231.604	109.2	0.0022	0.00057 mg/L	0.1079	0.02861 ppm	26.52%
Pb 220.353	-2.8	-0.0002	0.00014 mg/L	-0.0094	0.00684 ppm	72.89%
Sb 206.833	2.6	0.0006	0.00131 mg/L	0.0309	0.06568 ppm	212.67%
Se 196.026	-4.7	-0.0017	0.00125 mg/L	-0.0854	0.06255 ppm	73.28%
Tl 190.800	1.7	0.0005	0.00143 mg/L	0.0252	0.07138 ppm	283.13%
V 292.402	70.2	0.0006	0.00060 mg/L	0.0315	0.02996 ppm	95.23%
Zn 213.856	162.6	0.0015	0.00034 mg/L	0.0767	0.01691 ppm	22.06%

Replicate Data ----------

ID: LCS-02M2369 Date: 11/21/02 1:28:48 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	200607.9	201681.8	0.9998	mg/L	49.99	ppm
1	Al 308.215	79647.7	75050.2	2.057	mg/L	102.9	ppm
1	As 188.979	1374.2	1304.8	0.5089	mg/L	25.45	ppm
1	Ba 233.527	1489736.3	1490601.9	4.219	mg/L	211.0	ppm
1	Be 313.107	550933.7	551347.9	0.1990	mg/L	9.949	ppm
1	Ca 227.547	5693.2	5409.7	20.69	mg/L	1035	ppm
1	Cd 228.802	33584.7	33495.0	0.2644	mg/L	13.22	ppm
1	Co 228.616	113561.6	113978.3	1.077	mg/L	53.87	ppm
1	Cr 267.716	92881.0	93040.7	1.029	mg/L	51.44	ppm
1	Cu 324.754	322725.3	320438.4	1.006	mg/L	50.29	ppm
1	Fe 273.955	53345.1	50355.3	1.011	mg/L	50.56	ppm
1	Mg 279.079	320962.0	320365.9	10.09	mg/L	504.3	ppm
1	Mn 257.610	1623608.6	1622487.9	1.022	mg/L	51.11	ppm
1	Mo 202.030	39319.5	39348.0	2.084	mg/L	104.2	ppm
1	Ni 231.604	54610.3	54335.1	1.074	mg/L	53.68	ppm
1	Pb 220.353	47112.0	46927.2	3.140	mg/L	157.0	ppm
1	Sb 206.833	2214.9	2154.2	0.4853	mg/L	24.27	ppm
1	Se 196.026	1469.2	1384.9	0.5030	mg/L	25.15	ppm
1	Tl 190.800	1986.0	1797.4	0.5226	mg/L	26.13	ppm
1	V 292.402	225937.5	225774.8	2.025	mg/L	101.2	ppm
1	Zn 213.856	56294.4	56877.8	0.5364	mg/L	26.82	ppm
2	Ag 328.068	198593.7	199667.6	0.9898	mg/L	49.49	ppm
2	Al 308.215	79360.6	74763.1	2.049	mg/L	102.5	ppm
2	As 188.979	1366.6	1297.1	0.5059	mg/L	25.30	ppm
2	Ba 233.527	1478286.6	1479152.2	4.187	mg/L	209.4	ppm
2	Be 313.107	545715.8	546130.0	0.1971	mg/L	9.855	ppm
2	Ca 227.547	5708.8	5425.3	20.75	mg/L	1037	ppm
2	Cd 228.802	33015.2	32925.5	0.2599	mg/L	12.99	ppm
2	Co 228.616	112134.5	112551.2	1.064	mg/L	53.20	ppm
2	Cr 267.716	92152.7	92312.5	1.021	mg/L	51.04	ppm
2	Cu 324.754	321194.4	318907.4	1.001	mg/L	50.05	ppm
2	Fe 273.955	52961.6	49971.7	1.004	mg/L	50.18	ppm
2	Mg 279.079	317436.9	316840.8	9.976	mg/L	498.8	ppm
2	Mn 257.610	1601246.8	1600126.1	1.008	mg/L	50.41	ppm
2	Mo 202.030	38729.1	38757.6	2.053	mg/L	102.7	ppm
2	Ni 231.604	53832.4	53557.2	1.058	mg/L	52.91	ppm
2	Pb 220.353	46667.6	46482.7	3.110	mg/L	155.5	ppm
2	Sb 206.833	2215.1	2154.5	0.4856	mg/L	24.28	ppm
2	Se 196.026	1464.2	1379.9	0.5012	mg/L	25.06	ppm
2	Tl 190.800	2010.0	1821.5	0.5296	mg/L	26.48	ppm
2	V 292.402	224035.1	223872.4	2.008	mg/L	100.4	ppm
2	Zn 213.856	55487.4	56070.8	0.5288	mg/L	26.44	ppm
3	Ag 328.068	198054.3	199128.3	0.9871	mg/L	49.36	ppm
3	Al 308.215	79246.5	74648.9	2.046	mg/L	102.3	ppm
3	As 188.979	1363.9	1294.5	0.5048	mg/L	25.24	ppm
3	Ba 233.527	1477560.4	1478426.0	4.185	mg/L	209.2	ppm
3	Be 313.107	548876.8	549291.0	0.1982	mg/L	9.912	ppm
3	Ca 227.547	5663.0	5379.6	20.58	mg/L	1029	ppm
3	Cd 228.802	33086.2	32996.5	0.2604	mg/L	13.02	ppm
3	Co 228.616	112531.1	112947.8	1.068	mg/L	53.38	ppm

3 Cr 267.716	91512.2	91672.0	1.014	mg/L	50.68 ppm
3 Cu 324.754	321098.9	318812.0	1.001	mg/L	50.04 ppm
3 Fe 273.955	52587.9	49598.0	0.9960	mg/L	49.80 ppm
3 Mg 279.079	318388.8	317792.7	10.01	mg/L	500.3 ppm
3 Mn 257.610	1604718.1	1603597.3	1.010	mg/L	50.52 ppm
3 Mo 202.030	38892.1	38920.6	2.062	mg/L	103.1 ppm
3 Ni 231.604	53987.6	53712.4	1.061	mg/L	53.07 ppm
3 Pb 220.353	46765.0	46580.1	3.117	mg/L	155.8 ppm
3 Sb 206.833	2216.7	2156.0	0.4862	mg/L	24.31 ppm
3 Se 196.026	1472.9	1388.6	0.5044	mg/L	25.22 ppm
3 Tl 190.800	2008.7	1820.2	0.5292	mg/L	26.46 ppm
3 V 292.402	222491.0	222328.2	1.994	mg/L	99.70 ppm
3 Zn 213.856	55783.1	56366.5	0.5316	mg/L	26.58 ppm

an Data ----------

ID: LCS-02M2369 Seq. No.: 42 Sample No.: 26 A/S Pos: 34
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 1:28:48 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
328.068	200159.2	0.9922	0.00667	mg/L	49.61	0.334	ppm	0.67%
308.215	74820.7	2.051	0.0057	mg/L	102.5	0.28	ppm	0.28%
188.979	1298.8	0.5066	0.00211	mg/L	25.33	0.105	ppm	0.42%
Ba 233.527	1482726.7	4.197	0.0193	mg/L	209.9	0.97	ppm	0.46%
313.107	548923.0	0.1981	0.00095	mg/L	9.905	0.0474	ppm	0.48%
227.547	5404.9	20.67	0.089	mg/L	1034	4.4	ppm	0.43%
228.802	33139.0	0.2615	0.00245	mg/L	13.08	0.122	ppm	0.94%
Co 228.616	113159.1	1.070	0.0070	mg/L	53.48	0.348	ppm	0.65%
267.716	92341.7	1.021	0.0076	mg/L	51.05	0.379	ppm	0.74%
324.754	319385.9	1.003	0.0029	mg/L	50.13	0.143	ppm	0.29%
273.955	49975.0	1.004	0.0076	mg/L	50.18	0.380	ppm	0.76%
Mg 279.079	318333.1	10.02	0.057	mg/L	501.1	2.87	ppm	0.57%
Mn 257.610	1608737.1	1.014	0.0076	mg/L	50.68	0.379	ppm	0.75%
202.030	39008.7	2.066	0.0162	mg/L	103.3	0.81	ppm	0.78%
231.604	53868.2	1.064	0.0081	mg/L	53.22	0.407	ppm	0.76%
Pb 220.353	46663.3	3.122	0.0156	mg/L	156.1	0.78	ppm	0.50%
Sb 206.833	2154.9	0.4857	0.00044	mg/L	24.28	0.022	ppm	0.09%
196.026	1384.5	0.5029	0.00158	mg/L	25.14	0.079	ppm	0.31%
190.800	1813.0	0.5271	0.00394	mg/L	26.36	0.197	ppm	0.75%
292.402	223991.8	2.009	0.0155	mg/L	100.4	0.77	ppm	0.77%
Zn 213.856	56438.4	0.5323	0.00385	mg/L	26.61	0.193	ppm	0.72%

atrix Check Sample: LCS-02M2369

lement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
328.068	1.0000	0.9922	0.007	mg/L	99.226
Al 308.215	2.008	2.051	0.006	mg/L	102.119
As 188.979	0.4996	0.5066	0.002	mg/L	101.396
233.527	4.000	4.197	0.019	mg/L	104.927
313.107	0.2001	0.1981	0.001	mg/L	99.019
Ca 227.547	20.03	20.67	0.089	mg/L	103.187
Cd 228.802	0.2500	0.2615	0.002	mg/L	104.634
228.616	1.001	1.070	0.007	mg/L	106.898
267.716	1.001	1.021	0.008	mg/L	102.015
Cu 324.754	0.9994	1.003	0.003	mg/L	100.321
Fe 273.955	1.018	1.004	0.008	mg/L	98.606
279.079	9.994	10.02	0.057	mg/L	100.292
257.610	1.001	1.014	0.008	mg/L	101.300
Mo 202.030	2.000	2.066	0.016	mg/L	103.331
Ni 231.604	1.002	1.064	0.008	mg/L	106.228
Pb 220.353	3.000	3.122	0.016	mg/L	104.082
206.833	0.5006	0.4857	0.000	mg/L	97.014
Se 196.026	0.4983	0.5029	0.002	mg/L	100.913
Tl 190.800	0.5005	0.5271	0.004	mg/L	105.324
V 292.402	2.001	2.009	0.015	mg/L	100.414
213.856	0.5015	0.5323	0.004	mg/L	106.149

Replicate Data ----------

ID: LCSD-02M2369 Date: 11/21/02 1:32:16 PM

3 Mg 279.079	2869180.3	2868584.1	90.32	mg/L	4516	ppm
3 Mn 257.610	4202536.7	4201416.0	2.647	mg/L	132.3	ppm
3 Mo 202.030	-5.6	22.9	-0.0059	mg/L	-0.2953	ppm
3 Ni 231.604	8264.5	7989.3	0.1579	mg/L	7.893	ppm
3 Pb 220.353	913.1	728.2	0.0608	mg/L	3.041	ppm
3 Sb 206.833	101.7	41.0	-0.0093	mg/L	-0.4654	ppm
3 Se 196.026	-33.4	-117.7	0.0026	mg/L	0.1306	ppm
3 Tl 190.800	339.2	150.7	-0.0028	mg/L	-0.1402	ppm
3 V 292.402	39408.8	39246.1	0.3520	mg/L	17.60	ppm
3 Zn 213.856	217678.3	218261.7	2.039	mg/L	102.0	ppm

ean Data ----------

): 6148-1 D F=50 Seq. No.: 45 Sample No.: 29 A/S Pos: 37
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 1:38:07 PM

.ement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	-919.0	-0.0046	0.00057	mg/L	-0.2278	0.02855	ppm	12.53%
. 308.215	4944324.3	135.5	2.07	mg/L	6776	103.7	ppm	1.53%
s 188.979	68.7	0.0703	0.00316	mg/L	3.514	0.1581	ppm	4.50%
a 233.527	239354.1	0.6775	0.00543	mg/L	33.88	0.271	ppm	0.80%
e 313.107	8464.0	0.0031	0.00004	mg/L	0.1527	0.00222	ppm	1.45%
a 227.547	424260.7	1627	15.4	mg/L	81340	770.5	ppm	0.95%
d 228.802	412.1	0.0033	0.00029	mg/L	0.1626	0.01455	ppm	8.95%
o 228.616	8312.9	0.0786	0.00063	mg/L	3.929	0.0313	ppm	0.80%
r 267.716	23375.2	0.2539	0.00487	mg/L	12.70	0.244	ppm	1.92%
u 324.754	28097.8	0.0966	0.00145	mg/L	4.829	0.0723	ppm	1.50%
e 273.955	9107856.3	182.9	2.06	mg/L	9145	103.2	ppm	1.13%
g 279.079	2855750.4	89.91	0.634	mg/L	4496	31.7	ppm	0.71%
n 257.610	4189958.0	2.640	0.0175	mg/L	132.0	0.87	ppm	0.66%
o 202.030	8.8	-0.0066	0.00112	mg/L	-0.3317	0.05579	ppm	16.82%
i 231.604	7965.9	0.1574	0.00153	mg/L	7.870	0.0765	ppm	0.97%
b 220.353	801.4	0.0657	0.00433	mg/L	3.283	0.2163	ppm	6.59%
b 206.833	93.7	0.0033	0.01092	mg/L	0.1647	0.54578	ppm	331.29%
e 196.026	-146.5	-0.0080	0.02405	mg/L	-0.3999	1.20265	ppm	300.73%
l 190.800	151.0	-0.0025	0.00839	mg/L	-0.1274	0.41926	ppm	329.15%
292.402	39201.2	0.3516	0.00120	mg/L	17.58	0.060	ppm	0.34%
n 213.856	216668.1	2.024	0.0312	mg/L	101.2	1.56	ppm	1.54%

atrix Check Sample: 6148-1 D F=50

lement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	Relative % Diff.
g 328.068	-0.0038	-0.0046	0.001	mg/L	-19.185
i 308.215	134.4	135.5	2.074	mg/L	0.847
s 188.979	0.0635	0.0703	0.003	mg/L	10.141
a 233.527	0.6875	0.6775	0.005	mg/L	1.461
e 313.107	0.0033	0.0031	0.000	mg/L	6.352
a 227.547	1653	1627	15.411	mg/L	1.599
d 228.802	0.0030	0.0033	0.000	mg/L	7.841
o 228.616	0.0769	0.0786	0.001	mg/L	2.157
r 267.716	0.2504	0.2539	0.005	mg/L	1.413
u 324.754	0.0993	0.0966	0.001	mg/L	2.758
e 273.955	183.4	182.9	2.064	mg/L	0.282
g 279.079	90.34	89.91	0.634	mg/L	0.476
n 257.610	2.631	2.640	0.017	mg/L	0.318
o 202.030	-0.0038	-0.0066	0.001	mg/L	-53.352
i 231.604	0.1571	0.1574	0.002	mg/L	0.178
b 220.353	0.0679	0.0657	0.004	mg/L	3.391
b 206.833	-0.0048	0.0033	0.011	mg/L	-1052.673
e 196.026	0.0125	-0.0080	0.024	mg/L	911.270
l 190.800	0.0044	-0.0025	0.008	mg/L	757.039
292.402	0.3602	0.3516	0.001	mg/L	2.427
n 213.856	2.021	2.024	0.031	mg/L	0.158

eplicate Data ----------

): 6148-1 1/5 F=250 Date: 11/21/02 1:41:02 PM

epl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units

012328

1	Ag 328.068	-1233.9	-160.0	-0.0008	mg/L	-0.1982 ppm
1	Al 308.215	1033387.6	1028790.1	28.20	mg/L	7049 ppm
1	As 188.979	72.2	2.8	0.0100	mg/L	2.510 ppm
1	Ba 233.527	52091.1	52956.7	0.1499	mg/L	37.48 ppm
1	Be 313.107	1405.1	1819.4	0.0007	mg/L	0.1642 ppm
1	Ca 227.547	89909.9	89626.4	342.8	mg/L	85700 ppm
1	Cd 228.802	161.7	72.0	0.0006	mg/L	0.1420 ppm
1	Co 228.616	1452.4	1869.1	0.0177	mg/L	4.417 ppm
1	Cr 267.716	4789.9	4949.7	0.0547	mg/L	13.68 ppm
1	Cu 324.754	7976.9	5690.0	0.0179	mg/L	4.465 ppm
1	Fe 273.955	2035069.6	2032079.8	40.81	mg/L	10200 ppm
1	Mg 279.079	634914.7	634318.5	19.97	mg/L	4993 ppm
1	Mn 257.610	929102.7	927982.0	0.5846	mg/L	146.2 ppm
1	Mo 202.030	-11.6	16.9	0.0009	mg/L	0.2239 ppm
1	Ni 231.604	2093.8	1818.5	0.0359	mg/L	8.984 ppm
1	Pb 220.353	361.9	177.0	0.0146	mg/L	3.653 ppm
1	Sb 206.833	64.0	3.3	0.0008	mg/L	0.1987 ppm
1	Se 196.026	52.4	-31.9	-0.0013	mg/L	-0.3370 ppm
1	Tl 190.800	219.7	31.2	-0.0011	mg/L	-0.2664 ppm
1	V 292.402	8627.0	8464.3	0.0759	mg/L	18.98 ppm
1	Zn 213.856	47067.9	47651.3	0.4451	mg/L	111.3 ppm
2	Ag 328.068	-1076.3	-2.3	0.0000	mg/L	-0.0029 ppm
2	Al 308.215	1037819.4	1033221.8	28.32	mg/L	7080 ppm
2	As 188.979	76.2	6.8	0.0115	mg/L	2.876 ppm
2	Ba 233.527	51768.4	52634.0	0.1490	mg/L	37.25 ppm
2	Be 313.107	1348.5	1762.7	0.0006	mg/L	0.1590 ppm
2	Ca 227.547	89406.3	89122.9	340.9	mg/L	85220 ppm
2	Cd 228.802	151.5	61.8	0.0005	mg/L	0.1219 ppm
2	Co 228.616	1447.7	1864.4	0.0176	mg/L	4.406 ppm
2	Cr 267.716	4812.9	4972.7	0.0550	mg/L	13.75 ppm
2	Cu 324.754	7993.5	5706.6	0.0179	mg/L	4.478 ppm
2	Fe 273.955	2033175.0	2030185.2	40.77	mg/L	10190 ppm
2	Mg 279.079	628422.7	627826.6	19.77	mg/L	4942 ppm
2	Mn 257.610	917698.4	916577.7	0.5775	mg/L	144.4 ppm
2	Mo 202.030	-28.7	-0.2	0.0000	mg/L	-0.0031 ppm
2	Ni 231.604	2055.4	1780.2	0.0352	mg/L	8.794 ppm
2	Pb 220.353	349.9	165.0	0.0138	mg/L	3.454 ppm
2	Sb 206.833	80.2	19.6	0.0047	mg/L	1.171 ppm
2	Se 196.026	55.7	-28.6	-0.0002	mg/L	-0.0454 ppm
2	Tl 190.800	219.8	31.2	-0.0011	mg/L	-0.2669 ppm
2	V 292.402	8626.6	8463.8	0.0759	mg/L	18.98 ppm
2	Zn 213.856	47225.8	47809.2	0.4466	mg/L	111.6 ppm
3	Ag 328.068	-1231.7	-157.7	-0.0008	mg/L	-0.1954 ppm
3	Al 308.215	1028602.9	1024005.4	28.07	mg/L	7017 ppm
3	As 188.979	74.8	5.4	0.0110	mg/L	2.744 ppm
3	Ba 233.527	51519.3	52384.9	0.1483	mg/L	37.07 ppm
3	Be 313.107	1388.1	1802.4	0.0007	mg/L	0.1626 ppm
3	Ca 227.547	89504.0	89220.5	341.2	mg/L	85310 ppm
3	Cd 228.802	161.4	71.6	0.0006	mg/L	0.1413 ppm
3	Co 228.616	1428.8	1845.5	0.0174	mg/L	4.361 ppm
3	Cr 267.716	4791.8	4951.6	0.0548	mg/L	13.69 ppm
3	Cu 324.754	8167.0	5880.1	0.0185	mg/L	4.615 ppm
3	Fe 273.955	2014144.0	2011154.2	40.39	mg/L	10100 ppm
3	Mg 279.079	627767.2	627171.1	19.75	mg/L	4937 ppm
3	Mn 257.610	915808.1	914687.4	0.5763	mg/L	144.1 ppm
3	Mo 202.030	-22.7	5.9	0.0003	mg/L	0.0775 ppm
3	Ni 231.604	2042.3	1767.1	0.0349	mg/L	8.729 ppm
3	Pb 220.353	372.3	187.4	0.0153	mg/L	3.824 ppm
3	Sb 206.833	74.3	13.7	0.0033	mg/L	0.8199 ppm
3	Se 196.026	56.6	-27.7	0.0001	mg/L	0.0158 ppm
3	Tl 190.800	217.4	28.9	-0.0017	mg/L	-0.4165 ppm
3	V 292.402	8448.0	8285.3	0.0743	mg/L	18.58 ppm
3	Zn 213.856	47601.8	48185.2	0.4502	mg/L	112.5 ppm

lean Data ----------

D: 6148-1 1/5 F=250 Seq. No.: 46 Sample No.: 30 A/S Pos: 38
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 250.0
Data: Original Date: 11/21/02 1:41:02 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	-106.7	-0.0005	0.00045	mg/L	-0.1322	0.11198	ppm	84.72%
Al 308.215	1028672.4	28.19	0.126	mg/L	7049	31.6	ppm	0.45%
As 188.979	5.0	0.0108	0.00074	mg/L	2.710	0.1857	ppm	6.85%
Ba 233.527	52658.5	0.1491	0.00081	mg/L	37.27	0.203	ppm	0.54%
Be 313.107	1794.8	0.0006	0.00001	mg/L	0.1619	0.00262	ppm	1.62%
Ca 227.547	89323.3	341.6	1.02	mg/L	85410	255.3	ppm	0.30%
Cd 228.802	68.5	0.0005	0.00005	mg/L	0.1351	0.01139	ppm	8.43%
Co 228.616	1859.7	0.0176	0.00012	mg/L	4.395	0.0295	ppm	0.67%
Cr 267.716	4958.0	0.0548	0.00014	mg/L	13.71	0.035	ppm	0.26%
Cu 324.754	5758.9	0.0181	0.00033	mg/L	4.519	0.0826	ppm	1.83%
Fe 273.955	2024473.1	40.66	0.232	mg/L	10160	58.1	ppm	0.57%
Mg 279.079	629772.1	19.83	0.124	mg/L	4957	31.1	ppm	0.63%
Mn 257.610	919749.0	0.5795	0.00453	mg/L	144.9	1.13	ppm	0.78%
Mo 202.030	7.5	0.0004	0.00046	mg/L	0.0994	0.11507	ppm	115.74%
Ni 231.604	1788.6	0.0353	0.00053	mg/L	8.836	0.1322	ppm	1.50%
Pb 220.353	176.5	0.0146	0.00074	mg/L	3.644	0.1853	ppm	5.08%
Sb 206.833	12.2	0.0029	0.00197	mg/L	0.7297	0.49216	ppm	67.45%
Se 196.026	-29.4	-0.0005	0.00075	mg/L	-0.1222	0.18847	ppm	154.22%
Tl 190.800	30.4	-0.0013	0.00035	mg/L	-0.3166	0.08655	ppm	27.34%
V 292.402	8404.5	0.0754	0.00093	mg/L	18.84	0.231	ppm	1.23%
Zn 213.856	47881.9	0.4473	0.00261	mg/L	111.8	0.65	ppm	0.58%

Replicate Data ----------

ID: 6148-1 MS F=50 Date: 11/21/02 1:44:21 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	202349.0	203423.0	1.008	mg/L	50.42	ppm
1	Al 308.215	4890593.6	4885996.0	133.9	mg/L	6696	ppm
1	As 188.979	1443.3	1373.8	0.5789	mg/L	28.94	ppm
1	Ba 233.527	1607545.4	1608411.0	4.553	mg/L	227.6	ppm
1	Be 313.107	561973.0	562387.3	0.2030	mg/L	10.15	ppm
1	Ca 227.547	426445.6	426162.1	1634	mg/L	81690	ppm
1	Cd 228.802	32401.0	32311.3	0.2550	mg/L	12.75	ppm
1	Co 228.616	111326.0	111742.7	1.056	mg/L	52.81	ppm
1	Cr 267.716	109620.3	109780.1	1.209	mg/L	60.47	ppm
1	Cu 324.754	333358.2	331071.3	1.047	mg/L	52.37	ppm
1	Fe 273.955	8918890.2	8915900.3	179.1	mg/L	8953	ppm
1	Mg 279.079	3111903.5	3111307.3	97.96	mg/L	4898	ppm
1	Mn 257.610	5612870.6	5611749.9	3.536	mg/L	176.8	ppm
1	Mo 202.030	36303.1	36331.6	1.918	mg/L	95.88	ppm
1	Ni 231.604	57269.3	56994.1	1.126	mg/L	56.31	ppm
1	Pb 220.353	43426.7	43241.8	2.905	mg/L	145.3	ppm
1	Sb 206.833	2056.7	1996.1	0.4307	mg/L	21.53	ppm
1	Se 196.026	1286.5	1202.2	0.4808	mg/L	24.04	ppm
1	Tl 190.800	1875.6	1687.0	0.4446	mg/L	22.23	ppm
1	V 292.402	257295.0	257132.3	2.306	mg/L	115.3	ppm
1	Zn 213.856	262477.2	263060.6	2.462	mg/L	123.1	ppm
2	Ag 328.068	196870.8	197944.7	0.9812	mg/L	49.06	ppm
2	Al 308.215	4890598.7	4886001.2	133.9	mg/L	6696	ppm
2	As 188.979	1411.2	1341.7	0.5651	mg/L	28.25	ppm
2	Ba 233.527	1569129.2	1569994.8	4.444	mg/L	222.2	ppm
2	Be 313.107	546030.6	546444.8	0.1972	mg/L	9.861	ppm
2	Ca 227.547	413090.9	412807.5	1583	mg/L	79140	ppm
2	Cd 228.802	32919.0	32829.2	0.2591	mg/L	12.96	ppm
2	Co 228.616	108097.8	108514.5	1.026	mg/L	51.29	ppm
2	Cr 267.716	107495.1	107654.9	1.186	mg/L	59.30	ppm
2	Cu 324.754	323122.5	320835.6	1.015	mg/L	50.77	ppm
2	Fe 273.955	8925771.9	8922782.1	179.2	mg/L	8959	ppm
2	Mg 279.079	3097827.2	3097231.1	97.52	mg/L	4876	ppm
2	Mn 257.610	5584514.3	5583393.6	3.518	mg/L	175.9	ppm
2	Mo 202.030	36835.9	36864.4	1.946	mg/L	97.29	ppm
2	Ni 231.604	55638.6	55363.4	1.094	mg/L	54.70	ppm
2	Pb 220.353	42067.4	41882.5	2.814	mg/L	140.7	ppm
2	Sb 206.833	2113.0	2052.4	0.4448	mg/L	22.24	ppm
2	Se 196.026	1330.6	1246.3	0.4969	mg/L	24.85	ppm
2	Tl 190.800	1952.5	1763.9	0.4669	mg/L	23.34	ppm
2	V 292.402	251961.8	251799.1	2.258	mg/L	112.9	ppm

2 Zn 213.856	254069.1	254652.5	2.383	mg/L	119.1 ppm
3 Ag 328.068	196342.8	197416.7	0.9786	mg/L	48.93 ppm
3 Al 308.215	4847491.6	4842894.0	132.7	mg/L	6637 ppm
3 As 188.979	1424.8	1355.3	0.5704	mg/L	28.52 ppm
3 Ba 233.527	1561938.4	1562804.0	4.424	mg/L	221.2 ppm
3 Be 313.107	541137.0	541551.2	0.1954	mg/L	9.772 ppm
3 Ca 227.547	413910.7	413627.2	1586	mg/L	79300 ppm
3 Cd 228.802	32688.3	32598.6	0.2573	mg/L	12.86 ppm
3 Co 228.616	108692.2	109108.9	1.031	mg/L	51.57 ppm
3 Cr 267.716	107777.4	107937.2	1.189	mg/L	59.46 ppm
3 Cu 324.754	322552.4	320265.5	1.013	mg/L	50.67 ppm
3 Fe 273.955	8833170.4	8830180.6	177.3	mg/L	8866 ppm
3 Mg 279.079	3078564.2	3077968.1	96.91	mg/L	4846 ppm
3 Mn 257.610	5574296.4	5573175.7	3.511	mg/L	175.6 ppm
3 Mo 202.030	36439.7	36468.2	1.925	mg/L	96.25 ppm
3 Ni 231.604	55123.1	54847.9	1.084	mg/L	54.19 ppm
3 Pb 220.353	42286.8	42101.9	2.829	mg/L	141.4 ppm
3 Sb 206.833	2080.6	2019.9	0.4371	mg/L	21.86 ppm
3 Se 196.026	1324.8	1240.5	0.4943	mg/L	24.72 ppm
3 Tl 190.800	1943.5	1755.0	0.4647	mg/L	23.24 ppm
3 V 292.402	253188.1	253025.3	2.269	mg/L	113.5 ppm
3 Zn 213.856	254846.2	255429.5	2.390	mg/L	119.5 ppm

Mean Data ----------

D: 6148-1 MS F=50 Seq. No.: 47 Sample No.: 31 A/S Pos: 39
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 1:44:21 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	199594.8	0.9894	0.01649	mg/L	49.47	0.824	ppm	1.67%
Al 308.215	4871630.4	133.5	0.68	mg/L	6676	34.1	ppm	0.51%
As 188.979	1357.0	0.5714	0.00697	mg/L	28.57	0.349	ppm	1.22%
a 233.527	1580403.3	4.474	0.0694	mg/L	223.7	3.47	ppm	1.55%
e 313.107	550127.7	0.1985	0.00393	mg/L	9.927	0.1966	ppm	1.98%
Ca 227.547	417532.3	1601	28.6	mg/L	80040	1431.8	ppm	1.79%
Cd 228.802	32579.7	0.2571	0.00205	mg/L	12.86	0.102	ppm	0.80%
o 228.616	109788.7	1.038	0.0162	mg/L	51.89	0.812	ppm	1.56%
r 267.716	108457.4	1.195	0.0128	mg/L	59.74	0.638	ppm	1.07%
Cu 324.754	324057.5	1.025	0.0191	mg/L	51.27	0.956	ppm	1.86%
Fe 273.955	8889621.0	178.5	1.04	mg/L	8926	51.8	ppm	0.58%
g 279.079	3095502.2	97.46	0.527	mg/L	4873	26.3	ppm	0.54%
n 257.610	5589439.7	3.521	0.0126	mg/L	176.1	0.63	ppm	0.36%
o 202.030	36554.7	1.929	0.0146	mg/L	96.47	0.732	ppm	0.76%
Ni 231.604	55735.1	1.101	0.0221	mg/L	55.07	1.107	ppm	2.01%
b 220.353	42408.7	2.849	0.0489	mg/L	142.5	2.45	ppm	1.72%
b 206.833	2022.8	0.4375	0.00708	mg/L	21.88	0.354	ppm	1.62%
e 196.026	1229.7	0.4907	0.00864	mg/L	24.53	0.432	ppm	1.76%
Tl 190.800	1735.3	0.4587	0.01228	mg/L	22.94	0.614	ppm	2.68%
V 292.402	253985.6	2.278	0.0251	mg/L	113.9	1.25	ppm	1.10%
n 213.856	257714.2	2.412	0.0438	mg/L	120.6	2.19	ppm	1.82%

Matrix Check Sample: 6148-1 MS F=50

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
Ag 328.068	0.9962	0.9894	0.016	mg/L	99.318
l 308.215	136.4	133.5	0.682	mg/L	-42.482
s 188.979	0.5635	0.5714	0.007	mg/L	101.588
Ba 233.527	4.688	4.474	0.069	mg/L	94.653
Be 313.107	0.2033	0.1985	0.004	mg/L	97.644
a 227.547	1673	1601	28.636	mg/L	-260.216
d 228.802	0.2530	0.2571	0.002	mg/L	101.651
o 228.616	1.077	1.038	0.016	mg/L	96.092
Cr 267.716	1.250	1.195	0.013	mg/L	94.447
u 324.754	1.099	1.025	0.019	mg/L	92.616
e 273.955	184.4	178.5	1.036	mg/L	-489.964
g 279.079	100.3	97.46	0.527	mg/L	71.194
Mn 257.610	3.631	3.521	0.013	mg/L	89.008
Mo 202.030	1.996	1.929	0.015	mg/L	96.665

1 Tl 190.800	1957.4	1768.9	0.5143	mg/L
1 V 292.402	225086.9	224924.2	2.017	mg/L
1 Zn 213.856	221347.1	221930.5	2.093	mg/L
2 Ag 328.068	196800.7	197874.7	0.9809	mg/L
2 Al 308.215	182711.9	178114.3	4.882	mg/L
2 As 188.979	1385.3	1315.8	0.5102	mg/L
2 Ba 233.527	1834478.2	1835343.8	5.195	mg/L
2 Be 313.107	1448458.0	1448872.2	0.5229	mg/L
2 Ca 227.547	13561.8	13278.3	50.79	mg/L
2 Cd 228.802	129526.1	129436.3	1.022	mg/L
2 Co 228.616	216883.8	217300.5	2.054	mg/L
2 Cr 267.716	44073.7	44233.5	0.4891	mg/L
2 Cu 324.754	678165.6	675878.7	2.122	mg/L
2 Fe 273.955	249568.1	246578.2	4.952	mg/L
2 Mg 279.079	834098.7	833502.6	26.24	mg/L
2 Mn 257.610	3383576.5	3382455.8	2.131	mg/L
2 Mo 202.030	37765.9	37794.4	2.002	mg/L
2 Ni 231.604	104902.0	104626.8	2.067	mg/L
2 Pb 220.353	7793.0	7608.1	0.5091	mg/L
2 Sb 206.833	8682.4	8621.8	2.048	mg/L
2 Se 196.026	1497.9	1413.6	0.5149	mg/L
2 Tl 190.800	1953.4	1764.9	0.5131	mg/L
2 V 292.402	216603.6	216440.9	1.941	mg/L
2 Zn 213.856	214122.5	214705.9	2.025	mg/L
3 Ag 328.068	204104.3	205178.3	1.017	mg/L
3 Al 308.215	189751.3	185153.7	5.075	mg/L
3 As 188.979	1415.8	1346.4	0.5221	mg/L
3 Ba 233.527	1811429.9	1812295.5	5.130	mg/L
3 Be 313.107	1418985.5	1419399.7	0.5123	mg/L
3 Ca 227.547	14011.5	13728.0	52.51	mg/L
3 Cd 228.802	133677.2	133587.5	1.054	mg/L
3 Co 228.616	223447.5	223864.2	2.116	mg/L
3 Cr 267.716	45883.1	46042.9	0.5091	mg/L
3 Cu 324.754	663435.8	661148.9	2.075	mg/L
3 Fe 273.955	257038.8	254049.0	5.102	mg/L
3 Mg 279.079	820491.3	819895.2	25.81	mg/L
3 Mn 257.610	3326596.8	3325476.1	2.095	mg/L
3 Mo 202.030	38694.8	38723.3	2.051	mg/L
3 Ni 231.604	106852.8	106577.6	2.106	mg/L
3 Pb 220.353	7837.9	7653.1	0.5121	mg/L
3 Sb 206.833	8760.2	8699.6	2.066	mg/L
3 Se 196.026	1504.6	1420.4	0.5174	mg/L
3 Tl 190.800	1959.1	1770.5	0.5148	mg/L
3 V 292.402	225251.7	225088.9	2.019	mg/L
3 Zn 213.856	219735.5	220318.9	2.078	mg/L

an Data

: CCV 1379B Seq. No.: 50 Sample No.: 5 A/S Pos: 6
mple Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 1:52:54 PM

ement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
328.068	203176.3	1.007	0.0230	mg/L				2.28%
308.215	183610.0	5.032	0.1346	mg/L				2.67%
188.979	1330.8	0.5161	0.00596	mg/L				1.16%
233.527	1817003.9	5.143	0.0467	mg/L				0.91%
313.107	1429902.0	0.5161	0.00594	mg/L				1.15%
227.547	13579.3	51.94	0.997	mg/L				1.92%
228.802	132327.9	1.044	0.0198	mg/L				1.90%
228.616	221957.2	2.098	0.0383	mg/L				1.83%
267.716	45450.4	0.5026	0.01165	mg/L				2.32%
324.754	665013.9	2.088	0.0299	mg/L				1.43%
273.955	253461.1	5.090	0.1327	mg/L				2.61%
279.079	823181.6	25.92	0.288	mg/L				1.11%
257.610	3334930.0	2.101	0.0275	mg/L				1.31%
202.030	38541.4	2.042	0.0357	mg/L				1.75%
231.604	106557.1	2.106	0.0379	mg/L				1.80%
220.353	7625.3	0.5102	0.00163	mg/L				0.32%
206.833	8664.8	2.058	0.0091	mg/L				0.44%

196.026	1411.1	0.5141	0.00386 mg/L	0.75%
190.800	1768.1	0.5141	0.00085 mg/L	0.17%
V 292.402	222151.3	1.992	0.0444 mg/L	2.23%
Zn 213.856	218985.1	2.065	0.0358 mg/L	1.73%

plicate Data ----------

ID: CCB Date: 11/21/02 1:56:21 PM

pl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1079.4	-5.5	0.0000	mg/L		
1	Al 308.215	5146.4	548.8	0.0150	mg/L		
1	As 188.979	68.0	-1.5	-0.0006	mg/L		
1	Ba 233.527	-423.3	442.3	0.0013	mg/L		
1	Be 313.107	297.1	711.3	0.0003	mg/L		
1	Ca 227.547	334.5	51.1	0.1954	mg/L		
1	Cd 228.802	100.9	11.1	0.0001	mg/L		
1	Co 228.616	-207.3	209.4	0.0020	mg/L		
1	Cr 267.716	-67.9	91.9	0.0010	mg/L		
1	Cu 324.754	2705.4	418.5	0.0013	mg/L		
1	Fe 273.955	3680.9	691.1	0.0139	mg/L		
1	Mg 279.079	244.8	-351.3	-0.0111	mg/L		
1	Mn 257.610	2864.3	1743.6	0.0011	mg/L		
1	Mo 202.030	-1.1	27.4	0.0015	mg/L		
1	Ni 231.604	454.7	179.5	0.0035	mg/L		
1	Pb 220.353	181.3	-3.6	-0.0002	mg/L		
1	Sb 206.833	70.9	10.3	0.0025	mg/L		
1	Se 196.026	72.0	-12.3	-0.0045	mg/L		
1	Tl 190.800	188.1	-0.5	-0.0001	mg/L		
1	V 292.402	235.4	72.7	0.0007	mg/L		
1	Zn 213.856	-115.7	467.7	0.0044	mg/L		
2	Ag 328.068	-916.1	157.9	0.0008	mg/L		
2	Al 308.215	5067.1	469.5	0.0129	mg/L		
2	As 188.979	73.2	3.8	0.0015	mg/L		
2	Ba 233.527	-618.3	247.3	0.0007	mg/L		
2	Be 313.107	79.6	493.8	0.0002	mg/L		
2	Ca 227.547	169.9	-113.5	-0.4342	mg/L		
2	Cd 228.802	110.3	20.6	0.0002	mg/L		
2	Co 228.616	-271.7	145.0	0.0014	mg/L		
2	Cr 267.716	-158.0	1.7	0.0000	mg/L		
2	Cu 324.754	2511.5	224.6	0.0007	mg/L		
2	Fe 273.955	3506.6	516.8	0.0104	mg/L		
2	Mg 279.079	213.2	-383.0	-0.0121	mg/L		
2	Mn 257.610	2691.5	1570.8	0.0010	mg/L		
2	Mo 202.030	-14.6	14.0	0.0007	mg/L		
2	Ni 231.604	497.9	222.7	0.0044	mg/L		
2	Pb 220.353	188.5	3.6	0.0002	mg/L		
2	Sb 206.833	72.8	12.1	0.0029	mg/L		
2	Se 196.026	90.1	5.9	0.0021	mg/L		
2	Tl 190.800	195.8	7.2	0.0021	mg/L		
2	V 292.402	271.8	109.0	0.0010	mg/L		
2	Zn 213.856	-216.5	366.9	0.0035	mg/L		
3	Ag 328.068	-1151.4	-77.4	-0.0004	mg/L		
3	Al 308.215	4927.1	329.6	0.0090	mg/L		
3	As 188.979	73.3	3.9	0.0015	mg/L		
3	Ba 233.527	-813.2	52.4	0.0001	mg/L		
3	Be 313.107	-38.9	375.3	0.0001	mg/L		
3	Ca 227.547	248.0	-35.4	-0.1355	mg/L		
3	Cd 228.802	106.7	17.0	0.0001	mg/L		
3	Co 228.616	-170.7	246.0	0.0023	mg/L		
3	Cr 267.716	-97.5	62.3	0.0007	mg/L		
3	Cu 324.754	2526.0	239.1	0.0008	mg/L		
3	Fe 273.955	3274.6	284.7	0.0057	mg/L		
3	Mg 279.079	160.0	-436.1	-0.0137	mg/L		
3	Mn 257.610	2491.7	1371.0	0.0009	mg/L		
3	Mo 202.030	-18.8	9.7	0.0005	mg/L		
3	Ni 231.604	389.6	114.4	0.0023	mg/L		
3	Pb 220.353	192.3	7.4	0.0005	mg/L		
3	Sb 206.833	65.6	4.9	0.0012	mg/L		

3 Se 196.026	74.4	-9.9	-0.0036	mg/L
3 Tl 190.800	183.8	-4.7	-0.0014	mg/L
3 V 292.402	219.3	56.5	0.0005	mg/L
3 Zn 213.856	-271.4	312.0	0.0029	mg/L

Mean Data

ID: CCB Seq. No.: 51 Sample No.: 6 A/S Pos: 1
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 1:56:21 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	25.0	0.0001	0.00060	mg/L				482.39%
Al 308.215	449.3	0.0123	0.00304	mg/L				24.71%
As 188.979	2.1	0.0008	0.00118	mg/L				148.45%
Ba 233.527	247.4	0.0007	0.00055	mg/L				78.81%
Be 313.107	526.8	0.0002	0.00006	mg/L				32.35%
Ca 227.547	-32.6	-0.1248	0.31495	mg/L				252.45%
Cd 228.802	16.2	0.0001	0.00004	mg/L				29.34%
Co 228.616	200.1	0.0019	0.00048	mg/L				25.53%
Cr 267.716	52.0	0.0006	0.00051	mg/L				88.42%
Cu 324.754	294.1	0.0009	0.00034	mg/L				36.72%
Fe 273.955	497.5	0.0100	0.00409	mg/L				40.97%
Mg 279.079	-390.1	-0.0123	0.00135	mg/L				10.98%
Mn 257.610	1561.8	0.0010	0.00012	mg/L				11.94%
Mo 202.030	17.0	0.0009	0.00049	mg/L				54.27%
Ni 231.604	172.2	0.0034	0.00108	mg/L				31.67%
Pb 220.353	2.5	0.0002	0.00037	mg/L				222.48%
Sb 206.833	9.1	0.0022	0.00090	mg/L				41.09%
Se 196.026	-5.4	-0.0020	0.00357	mg/L				181.39%
Tl 190.800	0.7	0.0002	0.00176	mg/L				882.35%
V 292.402	79.4	0.0007	0.00024	mg/L				33.86%
Zn 213.856	382.2	0.0036	0.00074	mg/L				20.66%

Replicate Data

ID: 6148-2 F=50 Date: 11/21/02 1:59:32 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-2666.0	-1592.0	-0.0079	mg/L	-0.3946	ppm
1	Al 308.215	5294836.7	5290239.1	145.0	mg/L	7250	ppm
1	As 188.979	222.6	153.2	0.0829	mg/L	4.143	ppm
1	Ba 233.527	235910.6	236776.2	0.6702	mg/L	33.51	ppm
1	Be 313.107	7507.6	7921.8	0.0029	mg/L	0.1429	ppm
1	Ca 227.547	207065.1	206781.6	796.2	mg/L	39810	ppm
1	Cd 228.802	334.3	244.6	0.0019	mg/L	0.0965	ppm
1	Co 228.616	10746.7	11163.4	0.1055	mg/L	5.276	ppm
1	Cr 267.716	22488.8	22648.6	0.2445	mg/L	12.22	ppm
1	Cu 324.754	43551.5	41264.5	0.1406	mg/L	7.029	ppm
1	Fe 273.955	12006332.4	12003342.5	241.1	mg/L	12050	ppm
1	Mg 279.079	3202354.2	3201758.0	100.8	mg/L	5040	ppm
1	Mn 257.610	4294621.0	4293500.2	2.705	mg/L	135.3	ppm
1	Mo 202.030	84.2	112.7	-0.0034	mg/L	-0.1693	ppm
1	Ni 231.604	10026.7	9751.5	0.1927	mg/L	9.634	ppm
1	Pb 220.353	1456.1	1271.2	0.0943	mg/L	4.713	ppm
1	Sb 206.833	97.3	36.7	-0.0127	mg/L	-0.6358	ppm
1	Se 196.026	-67.1	-151.4	0.0070	mg/L	0.3524	ppm
1	Tl 190.800	309.1	120.6	-0.0235	mg/L	-1.176	ppm
1	V 292.402	53777.0	53614.3	0.4808	mg/L	24.04	ppm
1	Zn 213.856	193311.7	193895.1	1.803	mg/L	90.16	ppm
2	Ag 328.068	-2357.0	-1283.0	-0.0064	mg/L	-0.3180	ppm
2	Al 308.215	5486411.7	5481814.1	150.2	mg/L	7512	ppm
2	As 188.979	197.5	128.1	0.0732	mg/L	3.658	ppm
2	Ba 233.527	234695.7	235561.3	0.6668	mg/L	33.34	ppm
2	Be 313.107	7303.6	7717.8	0.0028	mg/L	0.1393	ppm
2	Ca 227.547	205860.1	205576.7	791.8	mg/L	39590	ppm
2	Cd 228.802	328.7	238.9	0.0019	mg/L	0.0943	ppm
2	Co 228.616	11033.5	11450.2	0.1082	mg/L	5.412	ppm
2	Cr 267.716	23169.4	23329.2	0.2518	mg/L	12.59	ppm
2	Cu 324.754	43716.1	41429.2	0.1414	mg/L	7.072	ppm

2	Fe 273.955	12375753.9	12372764.0	248.5	mg/L	12420 ppm
2	Mg 279.079	3178710.1	3178113.9	100.1	mg/L	5003 ppm
2	Mn 257.610	4269323.8	4268203.1	2.689	mg/L	134.5 ppm
2	Mo 202.030	119.2	147.7	-0.0018	mg/L	-0.0911 ppm
2	Ni 231.604	10096.8	9821.6	0.1941	mg/L	9.704 ppm
2	Pb 220.353	1495.3	1310.4	0.0971	mg/L	4.855 ppm
2	Sb 206.833	98.0	37.4	-0.0132	mg/L	-0.6618 ppm
2	Se 196.026	-92.0	-176.3	-0.0002	mg/L	-0.0078 ppm
2	Tl 190.800	354.8	166.3	-0.0121	mg/L	-0.6034 ppm
2	V 292.402	53441.6	53278.9	0.4778	mg/L	23.89 ppm
2	Zn 213.856	192309.1	192892.5	1.793	mg/L	89.65 ppm
3	Ag 328.068	-2563.7	-1489.8	-0.0074	mg/L	-0.3693 ppm
3	Al 308.215	5611901.2	5607303.6	153.7	mg/L	7684 ppm
3	As 188.979	209.2	139.8	0.0778	mg/L	3.890 ppm
3	Ba 233.527	235923.1	236788.7	0.6703	mg/L	33.51 ppm
3	Be 313.107	7468.5	7882.7	0.0028	mg/L	0.1422 ppm
3	Ca 227.547	208372.2	208088.8	801.4	mg/L	40070 ppm
3	Cd 228.802	271.4	181.6	0.0014	mg/L	0.0717 ppm
3	Co 228.616	10626.6	11043.3	0.1044	mg/L	5.220 ppm
3	Cr 267.716	22439.6	22599.4	0.2436	mg/L	12.18 ppm
3	Cu 324.754	44099.9	41812.9	0.1428	mg/L	7.141 ppm
3	Fe 273.955	12568453.2	12565463.3	252.3	mg/L	12620 ppm
3	Mg 279.079	3197331.8	3196735.7	100.7	mg/L	5033 ppm
3	Mn 257.610	4315907.7	4314787.0	2.718	mg/L	135.9 ppm
3	Mo 202.030	51.8	80.3	-0.0055	mg/L	-0.2771 ppm
3	Ni 231.604	9730.4	9455.2	0.1868	mg/L	9.342 ppm
3	Pb 220.353	1484.7	1299.8	0.0966	mg/L	4.830 ppm
3	Sb 206.833	148.1	87.5	-0.0013	mg/L	-0.0641 ppm
3	Se 196.026	-114.4	-198.7	-0.0074	mg/L	-0.3690 ppm
3	Tl 190.800	310.5	121.9	-0.0260	mg/L	-1.302 ppm
3	V 292.402	54390.5	54227.7	0.4863	mg/L	24.32 ppm
3	Zn 213.856	194970.8	195554.2	1.818	mg/L	90.88 ppm

ean Data ----------

D: 6148-2 F=50 Seq. No.: 52 Sample No.: 34 A/S Pos: 42

Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 1:59:32 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-1454.9	-0.0072	0.00078	mg/L	-0.3606	0.03901	ppm	10.82%
l 308.215	5459785.6	149.6	4.38	mg/L	7482	218.8	ppm	2.92%
s 188.979	140.4	0.0779	0.00485	mg/L	3.897	0.2424	ppm	6.22%
Ba 233.527	236375.4	0.6691	0.00200	mg/L	33.46	0.100	ppm	0.30%
Be 313.107	7840.8	0.0028	0.00004	mg/L	0.1415	0.00195	ppm	1.38%
a 227.547	206815.7	796.5	4.85	mg/L	39820	242.6	ppm	0.61%
d 228.802	221.7	0.0017	0.00027	mg/L	0.0875	0.01374	ppm	15.71%
o 228.616	11219.0	0.1061	0.00198	mg/L	5.303	0.0988	ppm	1.86%
Cr 267.716	22859.1	0.2466	0.00450	mg/L	12.33	0.225	ppm	1.82%
u 324.754	41502.2	0.1416	0.00113	mg/L	7.080	0.0565	ppm	0.80%
e 273.955	12313856.6	247.3	5.74	mg/L	12360	286.8	ppm	2.32%
g 279.079	3192202.5	100.5	0.39	mg/L	5025	19.6	ppm	0.39%
Mn 257.610	4292163.4	2.704	0.0147	mg/L	135.2	0.73	ppm	0.54%
Mo 202.030	113.6	-0.0036	0.00187	mg/L	-0.1792	0.09338	ppm	52.11%
i 231.604	9676.1	0.1912	0.00384	mg/L	9.560	0.1921	ppm	2.01%
b 220.353	1293.8	0.0960	0.00152	mg/L	4.800	0.0758	ppm	1.58%
Sb 206.833	53.9	-0.0091	0.00676	mg/L	-0.4539	0.33784	ppm	74.43%
Se 196.026	-175.5	-0.0002	0.00721	mg/L	-0.0082	0.36071	ppm	>999.9%
l 190.800	136.3	-0.0205	0.00744	mg/L	-1.027	0.3721	ppm	36.24%
292.402	53707.0	0.4817	0.00432	mg/L	24.08	0.216	ppm	0.90%
Zn 213.856	194113.9	1.805	0.0124	mg/L	90.23	0.620	ppm	0.69%

eplicate Data ----------

D: 6148-3 F=50 Date: 11/21/02 2:02:33 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1200.0	-126.0	-0.0006	mg/L	-0.0312	ppm
1	Al 308.215	1971417.0	1966819.4	53.91	mg/L	2695	ppm
1	As 188.979	28.9	-40.6	0.0456	mg/L	2.279	ppm

1	Ba 233.527	145721.6	146587.2	0.4149	mg/L	20.75 ppm
1	Be 313.107	1302.7	1716.9	0.0006	mg/L	0.0310 ppm
1	Ca 227.547	618694.3	618410.8	2365	mg/L	118300 ppm
1	Cd 228.802	394.1	304.4	0.0024	mg/L	0.1201 ppm
1	Co 228,616	2647.9	3064.6	0.0290	mg/L	1.448 ppm
1	Cr 267.716	9983.1	10142.9	0.1122	mg/L	5.608 ppm
1	Cu 324.754	12813.2	10526.2	0.0330	mg/L	1.652 ppm
1	Fe 273.955	3333917.2	3330927.4	66.89	mg/L	3345 ppm
1	Mg 279.079	2200331.9	2199735.8	69.26	mg/L	3463 ppm
1	Mn 257.610	2191372.8	2190252.1	1.380	mg/L	69.00 ppm
1	Mo 202.030	-74.8	-46.3	-0.0025	mg/L	-0.1226 ppm
1	Ni 231.604	3259.0	2983.8	0.0590	mg/L	2.948 ppm
1	Pb 220.353	478.1	293.2	0.0310	mg/L	1.552 ppm
1	Sb 206.833	88.3	27.7	0.0007	mg/L	0.0353 ppm
1	Se 196.026	33.3	-50.9	-0.0023	mg/L	-0.1137 ppm
1	Tl 190.800	272.3	83.8	0.0090	mg/L	0.4495 ppm
1	V 292.402	16069.9	15907.1	0.1427	mg/L	7.133 ppm
1	Zn 213.856	50855.7	51439.1	0.4781	mg/L	23.90 ppm
2	Ag 328.068	-1227.4	-153.4	-0.0008	mg/L	-0.0380 ppm
2	Al 308.215	1901842.0	1897244.4	52.00	mg/L	2600 ppm
2	As 188.979	22.0	-47.4	0.0409	mg/L	2.046 ppm
2	Ba 233.527	144513.0	145378.6	0.4115	mg/L	20.58 ppm
2	Be 313.107	1021.1	1435.3	0.0005	mg/L	0.0259 ppm
2	Ca 227.547	598034.8	597751.3	2286	mg/L	114300 ppm
2	Cd 228.802	394.0	304.2	0.0024	mg/L	0.1201 ppm
2	Co 228.616	2671.0	3087.7	0.0292	mg/L	1.459 ppm
2	Cr 267.716	10166.7	10326.5	0.1142	mg/L	5.709 ppm
2	Cu 324.754	12762.6	10475.7	0.0329	mg/L	1.644 ppm
2	Fe 273.955	3216782.1	3213792.3	64.54	mg/L	3227 ppm
2	Mg 279.079	2126005.5	2125409.3	66.92	mg/L	3346 ppm
2	Mn 257.610	2124324.3	2123203.6	1.338	mg/L	66.88 ppm
2	Mo 202.030	-83.2	-54.7	-0.0029	mg/L	-0.1449 ppm
2	Ni 231.604	3288.3	3013.1	0.0595	mg/L	2.977 ppm
2	Pb 220.353	471.1	286.2	0.0302	mg/L	1.509 ppm
2	Sb 206.833	92.9	32.2	0.0018	mg/L	0.0911 ppm
2	Se 196.026	37.4	-46.9	-0.0014	mg/L	-0.0692 ppm
2	Tl 190.800	274.3	85.8	0.0101	mg/L	0.5050 ppm
2	V 292.402	15969.1	15806.4	0.1418	mg/L	7.088 ppm
2	Zn 213.856	51206.7	51790.1	0.4816	mg/L	24.08 ppm
3	Ag 328.068	-1414.5	-340.6	-0.0017	mg/L	-0.0844 ppm
3	Al 308.215	1912389.7	1907792.1	52.29	mg/L	2614 ppm
3	As 188.979	18.7	-50.8	0.0395	mg/L	1.976 ppm
3	Ba 233.527	146596.1	147461.7	0.4174	mg/L	20.87 ppm
3	Be 313.107	1231.3	1645.5	0.0006	mg/L	0.0297 ppm
3	Ca 227.547	597117.7	596834.2	2283	mg/L	114100 ppm
3	Cd 228.802	405.7	316.0	0.0025	mg/L	0.1247 ppm
3	Co 228.616	2647.6	3064.3	0.0290	mg/L	1.448 ppm
3	Cr 267.716	10312.5	10472.3	0.1158	mg/L	5.790 ppm
3	Cu 324.754	13113.1	10826.2	0.0340	mg/L	1.699 ppm
3	Fe 273.955	3237622.8	3234632.9	64.96	mg/L	3248 ppm
3	Mg 279.079	2128281.8	2127685.6	66.99	mg/L	3350 ppm
3	Mn 257.610	2121337.6	2120216.9	1.336	mg/L	66.79 ppm
3	Mo 202.030	-79.8	-51.3	-0.0027	mg/L	-0.1359 ppm
3	Ni 231.604	3301.2	3026.0	0.0598	mg/L	2.990 ppm
3	Pb 220.353	496.0	311.1	0.0319	mg/L	1.593 ppm
3	Sb 206.833	93.8	33.2	0.0020	mg/L	0.0995 ppm
3	Se 196.026	45.1	-39.2	0.0015	mg/L	0.0764 ppm
3	Tl 190.800	263.7	75.2	0.0069	mg/L	0.3461 ppm
3	V 292.402	16325.4	16162.6	0.1450	mg/L	7.248 ppm
3	Zn 213.856	51554.3	52137.6	0.4849	mg/L	24.24 ppm

Mean Data ----------

ID: 6148-3 F=50 Seq. No.: 53 Sample No.: 35 A/S Pos: 43
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:02:33 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-206.7	-0.0010	0.00058	mg/L	-0.0512	0.02894	ppm	56.51%
Al 308.215	1923952.0	52.73	1.028	mg/L	2637	51.4	ppm	1.95%

s 188.979	-46.2	0.0420	0.00317 mg/L	2.100	0.1585 ppm	7.55%
a 233.527	146475.8	0.4146	0.00296 mg/L	20.73	0.148 ppm	0.71%
se 313.107	1599.2	0.0006	0.00005 mg/L	0.0289	0.00264 ppm	9.15%
Ca 227.547	604332.1	2311	46.7 mg/L	115600	2333.3 ppm	2.02%
d 228.802	308.2	0.0024	0.00005 mg/L	0.1216	0.00266 ppm	2.19%
o 228.616	3072.2	0.0290	0.00013 mg/L	1.452	0.0063 ppm	0.44%
r 267.716	10313.9	0.1140	0.00183 mg/L	5.702	0.0913 ppm	1.60%
Cu 324.754	10609.4	0.0333	0.00059 mg/L	1.665	0.0297 ppm	1.79%
e 273.955	3259784.2	65.46	1.255 mg/L	3273	62.7 ppm	1.92%
g 279.079	2150943.6	67.72	1.331 mg/L	3386	66.5 ppm	1.97%
n 257.610	2144557.5	1.351	0.0249 mg/L	67.56	1.247 ppm	1.85%
Mo 202.030	-50.8	-0.0027	0.00022 mg/L	-0.1345	0.01121 ppm	8.34%
Ni 231.604	3007.7	0.0594	0.00043 mg/L	2.972	0.0214 ppm	0.72%
b 220.353	296.9	0.0310	0.00083 mg/L	1.551	0.0417 ppm	2.69%
b 206.833	31.0	0.0015	0.00070 mg/L	0.0753	0.03488 ppm	46.32%
Se 196.026	-45.7	-0.0007	0.00199 mg/L	-0.0355	0.09948 ppm	280.13%
Tl 190.800	81.6	0.0087	0.00161 mg/L	0.4335	0.08061 ppm	18.59%
292.402	15958.7	0.1431	0.00165 mg/L	7.156	0.0824 ppm	1.15%
n 213.856	51789.0	0.4815	0.00340 mg/L	24.08	0.170 ppm	0.71%

Replicate Data ----------

D: 6148-4 F=50 Date: 11/21/02 2:06:10 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-1325.1	-251.1	-0.0012	mg/L	-0.0622	ppm
1	Al 308.215	1815884.8	1811287.2	49.64	mg/L	2482	ppm
1	As 188.979	1.3	-68.1	0.0295	mg/L	1.473	ppm
1	Ba 233.527	149944.5	150810.1	0.4269	mg/L	21.34	ppm
1	Be 313.107	1638.5	2052.7	0.0007	mg/L	0.0370	ppm
1	Ca 227.547	564492.1	564208.7	2158	mg/L	107900	ppm
1	Cd 228.802	407.2	317.5	0.0025	mg/L	0.1253	ppm
1	Co 228.616	2413.3	2830.0	0.0268	mg/L	1.338	ppm
1	Cr 267.716	10247.1	10406.9	0.1151	mg/L	5.754	ppm
1	Cu 324.754	10428.8	8141.8	0.0256	mg/L	1.278	ppm
1	Fe 273.955	2855660.5	2852670.6	57.29	mg/L	2864	ppm
1	Mg 279.079	2039058.7	2038462.6	64.18	mg/L	3209	ppm
1	Mn 257.610	2322348.3	2321227.6	1.462	mg/L	73.12	ppm
1	Mo 202.030	-73.6	-45.1	-0.0024	mg/L	-0.1195	ppm
1	Ni 231.604	2959.5	2684.3	0.0530	mg/L	2.652	ppm
1	Pb 220.353	413.5	228.6	0.0257	mg/L	1.287	ppm
1	Sb 206.833	80.6	20.0	-0.0008	mg/L	-0.0423	ppm
1	Se 196.026	43.6	-40.7	-0.0011	mg/L	-0.0568	ppm
1	Tl 190.800	266.1	77.6	0.0090	mg/L	0.4503	ppm
1	V 292.402	12099.7	11936.9	0.1071	mg/L	5.353	ppm
1	Zn 213.856	15120.8	15704.2	0.1421	mg/L	7.103	ppm
2	Ag 328.068	-1364.3	-290.3	-0.0014	mg/L	-0.0720	ppm
2	Al 308.215	1825692.0	1821094.4	49.91	mg/L	2496	ppm
2	As 188.979	15.6	-53.8	0.0358	mg/L	1.790	ppm
2	Ba 233.527	146385.7	147251.4	0.4168	mg/L	20.84	ppm
2	Be 313.107	1516.2	1930.5	0.0007	mg/L	0.0348	ppm
2	Ca 227.547	573226.4	572942.9	2191	mg/L	109600	ppm
2	Cd 228.802	420.3	330.5	0.0026	mg/L	0.1304	ppm
2	Co 228.616	2379.6	2796.3	0.0264	mg/L	1.322	ppm
2	Cr 267.716	10098.4	10258.2	0.1134	mg/L	5.672	ppm
2	Cu 324.754	10391.8	8104.8	0.0254	mg/L	1.272	ppm
2	Fe 273.955	2854860.3	2851870.4	57.27	mg/L	2864	ppm
2	Mg 279.079	2054218.9	2053622.8	64.66	mg/L	3233	ppm
2	Mn 257.610	2345025.8	2343905.1	1.477	mg/L	73.84	ppm
2	Mo 202.030	-86.2	-57.7	-0.0031	mg/L	-0.1527	ppm
2	Ni 231.604	2965.0	2689.7	0.0531	mg/L	2.657	ppm
2	Pb 220.353	411.5	226.6	0.0257	mg/L	1.287	ppm
2	Sb 206.833	93.3	32.7	0.0022	mg/L	0.1117	ppm
2	Se 196.026	34.8	-49.5	-0.0043	mg/L	-0.2169	ppm
2	Tl 190.800	284.1	95.5	0.0142	mg/L	0.7116	ppm
2	V 292.402	11820.1	11657.4	0.1046	mg/L	5.228	ppm
2	Zn 213.856	15083.3	15666.7	0.1417	mg/L	7.085	ppm
3	Ag 328.068	-1325.6	-251.6	-0.0012	mg/L	-0.0624	ppm
3	Al 308.215	1799818.7	1795221.1	49.20	mg/L	2460	ppm

3	As 188.979	14.4	-55.0	0.0346	mg/L	1.728 ppm
3	Ba 233.527	146957.7	147823.3	0.4184	mg/L	20.92 ppm
3	Be 313.107	1521.5	1935.7	0.0007	mg/L	0.0349 ppm
3	Ca 227.547	565297.3	565013.9	2161	mg/L	108000 ppm
3	Cd 228.802	404.8	315.1	0.0025	mg/L	0.1243 ppm
3	Co 228.616	2419.8	2836.5	0.0268	mg/L	1.341 ppm
3	Cr 267.716	10145.3	10305.1	0.1139	mg/L	5.697 ppm
3	Cu 324.754	10598.6	8311.7	0.0261	mg/L	1.305 ppm
3	Fe 273.955	2821158.1	2818168.2	56.59	mg/L	2830 ppm
3	Mg 279.079	2026794.9	2026198.8	63.80	mg/L	3190 ppm
3	Mn 257.610	2319782.5	2318661.8	1.461	mg/L	73.04 ppm
3	Mo 202.030	-89.0	-60.5	-0.0032	mg/L	-0.1602 ppm
3	Ni 231.604	2990.0	2714.8	0.0536	mg/L	2.682 ppm
3	Pb 220.353	425.4	240.5	0.0265	mg/L	1.326 ppm
3	Sb 206.833	100.4	39.7	0.0039	mg/L	0.1970 ppm
3	Se 196.026	34.4	-49.9	-0.0046	mg/L	-0.2320 ppm
3	Tl 190.800	266.9	78.3	0.0094	mg/L	0.4703 ppm
3	V 292.402	11775.1	11612.4	0.1041	mg/L	5.207 ppm
3	Zn 213.856	15235.6	15819.0	0.1432	mg/L	7.161 ppm

Mean Data ----------

ID: 6148-4 F=50 Seq. No.: 54 Sample No.: 36 A/S Pos: 44
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:06:10 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-264.4	-0.0013	0.00011	mg/L	-0.0655	0.00557	ppm	8.50%
Al 308.215	1809200.9	49.59	0.358	mg/L	2479	17.9	ppm	0.72%
As 188.979	-59.0	0.0333	0.00336	mg/L	1.664	0.1681	ppm	10.10%
Ba 233.527	148628.3	0.4207	0.00541	mg/L	21.04	0.270	ppm	1.29%
Be 313.107	1972.9	0.0007	0.00002	mg/L	0.0356	0.00125	ppm	3.50%
Ca 227.547	567388.5	2170	18.5	mg/L	108500	923.1	ppm	0.85%
Cd 228.802	321.0	0.0025	0.00007	mg/L	0.1267	0.00328	ppm	2.59%
Co 228.616	2820.9	0.0267	0.00020	mg/L	1.333	0.0102	ppm	0.76%
Cr 267.716	10323.4	0.1142	0.00084	mg/L	5.708	0.0420	ppm	0.74%
Cu 324.754	8186.1	0.0257	0.00035	mg/L	1.285	0.0173	ppm	1.35%
Fe 273.955	2840903.1	57.05	0.395	mg/L	2853	19.8	ppm	0.69%
Mg 279.079	2039428.0	64.21	0.433	mg/L	3211	21.6	ppm	0.67%
Mn 257.610	2327931.5	1.467	0.0088	mg/L	73.33	0.438	ppm	0.60%
Mo 202.030	-54.4	-0.0029	0.00043	mg/L	-0.1441	0.02168	ppm	15.04%
Ni 231.604	2696.3	0.0533	0.00032	mg/L	2.664	0.0161	ppm	0.60%
Pb 220.353	231.9	0.0260	0.00045	mg/L	1.300	0.0227	ppm	1.75%
Sb 206.833	30.8	0.0018	0.00243	mg/L	0.0888	0.12128	ppm	136.53%
Se 196.026	-46.7	-0.0034	0.00194	mg/L	-0.1686	0.09711	ppm	57.60%
Tl 190.800	83.8	0.0109	0.00291	mg/L	0.5441	0.14545	ppm	26.73%
V 292.402	11735.6	0.1053	0.00158	mg/L	5.263	0.0788	ppm	1.50%
Zn 213.856	15730.0	0.1423	0.00079	mg/L	7.116	0.0394	ppm	0.55%

Replicate Data ----------

ID: 6148-5 F=50 Date: 11/21/02 2:09:47 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1446.2	-372.3	-0.0018	mg/L	-0.0923	ppm
1	Al 308.215	1493848.8	1489251.2	40.82	mg/L	2041	ppm
1	As 188.979	15.2	-54.2	0.0379	mg/L	1.895	ppm
1	Ba 233.527	145260.2	146125.8	0.4136	mg/L	20.68	ppm
1	Be 313.107	1009.1	1423.3	0.0005	mg/L	0.0257	ppm
1	Ca 227.547	591533.6	591250.2	2261	mg/L	113100	ppm
1	Cd 228.802	396.6	306.9	0.0024	mg/L	0.1211	ppm
1	Co 228.616	2019.9	2436.6	0.0230	mg/L	1.152	ppm
1	Cr 267.716	8259.0	8418.7	0.0931	mg/L	4.655	ppm
1	Cu 324.754	13895.2	11608.3	0.0364	mg/L	1.822	ppm
1	Fe 273.955	2765092.9	2762103.1	55.47	mg/L	2773	ppm
1	Mg 279.079	2210426.2	2209830.1	69.58	mg/L	3479	ppm
1	Mn 257.610	2043790.4	2042669.7	1.287	mg/L	64.35	ppm
1	Mo 202.030	-78.8	-50.3	-0.0027	mg/L	-0.1331	ppm
1	Ni 231.604	3135.9	2860.7	0.0565	mg/L	2.826	ppm
1	Pb 220.353	613.2	428.3	0.0390	mg/L	1.949	ppm
1	Sb 206.833	89.6	29.0	0.0020	mg/L	0.1010	ppm

1	Se 196.026	36.7	-47.6	-0.0036	mg/L	-0.1780 ppm
1	Tl 190.800	274.7	86.2	0.0130	mg/L	0.6511 ppm
1	V 292.402	13302.4	13139.7	0.1178	mg/L	5.892 ppm
1	Zn 213.856	20321.7	20905.1	0.1913	mg/L	9.565 ppm
2	Ag 328.068	-1286.7	-212.7	-0.0011	mg/L	-0.0527 ppm
2	Al 308.215	1517795.1	1513197.5	41.47	mg/L	2074 ppm
2	As 188.979	11.9	-57.5	0.0379	mg/L	1.897 ppm
2	Ba 233.527	143494.3	144359.9	0.4086	mg/L	20.43 ppm
2	Be 313.107	1241.5	1655.7	0.0006	mg/L	0.0299 ppm
2	Ca 227.547	604752.5	604469.0	2312	mg/L	115600 ppm
2	Cd 228.802	406.2	316.5	0.0025	mg/L	0.1249 ppm
2	Co 228.616	2004.8	2421.5	0.0229	mg/L	1.145 ppm
2	Cr 267.716	8046.4	8206.1	0.0907	mg/L	4.537 ppm
2	Cu 324.754	13639.1	11352.2	0.0356	mg/L	1.782 ppm
2	Fe 273.955	2797423.2	2794433.4	56.12	mg/L	2806 ppm
2	Mg 279.079	2245318.0	2244721.9	70.68	mg/L	3534 ppm
2	Mn 257.610	2076916.6	2075795.9	1.308	mg/L	65.39 ppm
2	Mo 202.030	-82.8	-54.3	-0.0029	mg/L	-0.1438 ppm
2	Ni 231.604	3110.2	2835.0	0.0560	mg/L	2.801 ppm
2	Pb 220.353	609.1	424.2	0.0389	mg/L	1.947 ppm
2	Sb 206.833	76.7	16.1	-0.0010	mg/L	-0.0509 ppm
2	Se 196.026	45.0	-39.2	-0.0004	mg/L	-0.0184 ppm
2	Tl 190.800	274.7	86.2	0.0129	mg/L	0.6452 ppm
2	V 292.402	13048.8	12886.1	0.1156	mg/L	5.779 ppm
2	Zn 213.856	20256.4	20839.8	0.1906	mg/L	9.531 ppm
3	Ag 328.068	-1250.2	-176.2	-0.0009	mg/L	-0.0437 ppm
3	Al 308.215	1527759.1	1523161.5	41.75	mg/L	2087 ppm
3	As 188.979	6.7	-62.8	0.0364	mg/L	1.819 ppm
3	Ba 233.527	142614.5	143480.1	0.4061	mg/L	20.31 ppm
3	Be 313.107	1003.5	1417.7	0.0005	mg/L	0.0256 ppm
3	Ca 227.547	609218.9	608935.4	2329	mg/L	116400 ppm
3	Cd 228.802	411.2	321.5	0.0025	mg/L	0.1269 ppm
3	Co 228.616	2051.6	2468.3	0.0233	mg/L	1.167 ppm
3	Cr 267.716	8111.2	8271.0	0.0915	mg/L	4.573 ppm
3	Cu 324.754	14026.9	11740.0	0.0369	mg/L	1.843 ppm
3	Fe 273.955	2808497.4	2805507.6	56.34	mg/L	2817 ppm
3	Mg 279.079	2254665.1	2254068.9	70.97	mg/L	3549 ppm
3	Mn 257.610	2093768.3	2092647.6	1.318	mg/L	65.92 ppm
3	Mo 202.030	-81.2	-52.7	-0.0028	mg/L	-0.1397 ppm
3	Ni 231.604	3142.3	2867.1	0.0567	mg/L	2.833 ppm
3	Pb 220.353	619.5	434.6	0.0397	mg/L	1.985 ppm
3	Sb 206.833	79.3	18.7	-0.0004	mg/L	-0.0216 ppm
3	Se 196.026	34.5	-49.8	-0.0042	mg/L	-0.2075 ppm
3	Tl 190.800	262.7	74.2	0.0094	mg/L	0.4679 ppm
3	V 292.402	13118.1	12955.4	0.1162	mg/L	5.810 ppm
3	Zn 213.856	20455.3	21038.7	0.1925	mg/L	9.623 ppm

Mean Data ----------

ID: 6148-5 F=50 Seq. No.: 55 Sample No.: 37 A/S Pos: 45

ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 2:09:47 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-253.7	-0.0013	0.00052	mg/L	-0.0629	0.02584	ppm	41.09%
Al 308.215	1508536.8	41.35	0.478	mg/L	2067	23.9	ppm	1.16%
As 188.979	-58.2	0.0374	0.00090	mg/L	1.870	0.0448	ppm	2.40%
a 233.527	144655.3	0.4095	0.00381	mg/L	20.47	0.191	ppm	0.93%
e 313.107	1498.9	0.0005	0.00005	mg/L	0.0270	0.00245	ppm	9.06%
a 227.547	601551.5	2301	35.2	mg/L	115000	1758.7	ppm	1.53%
Cd 228.802	314.9	0.0025	0.00006	mg/L	0.1243	0.00292	ppm	2.35%
o 228.616	2442.1	0.0231	0.00023	mg/L	1.154	0.0113	ppm	0.98%
r 267.716	8298.6	0.0918	0.00120	mg/L	4.588	0.0602	ppm	1.31%
u 324.754	11566.8	0.0363	0.00062	mg/L	1.815	0.0309	ppm	1.70%
Fe 273.955	2787348.0	55.98	0.453	mg/L	2799	22.6	ppm	0.81%
Mg 279.079	2236207.0	70.41	0.734	mg/L	3520	36.7	ppm	1.04%
n 257.610	2070371.1	1.304	0.0160	mg/L	65.22	0.801	ppm	1.23%
o 202.030	-52.4	-0.0028	0.00011	mg/L	-0.1389	0.00536	ppm	3.86%
Ni 231.604	2854.2	0.0564	0.00034	mg/L	2.820	0.0168	ppm	0.59%
Pb 220.353	429.0	0.0392	0.00043	mg/L	1.960	0.0214	ppm	1.09%

Sb 206.833	21.3	0.0002	0.00161 mg/L	0.0095	0.08060 ppm	848.52%
Se 196.026	-45.5	-0.0027	0.00204 mg/L	-0.1346	0.10176 ppm	75.60%
Tl 190.800	82.2	0.0118	0.00208 mg/L	0.5881	0.10411 ppm	17.70%
V 292.402	12993.7	0.1165	0.00118 mg/L	5.827	0.0588 ppm	1.01%
Zn 213.856	20927.8	0.1915	0.00094 mg/L	9.573	0.0468 ppm	0.49%

Replicate Data

ID: 6148-6 F=50 Date: 11/21/02 2:13:25 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1246.5	-172.5	-0.0009	mg/L	-0.0428	ppm
1	Al 308.215	1408238.5	1403640.9	38.47	mg/L	1924	ppm
1	As 188.979	9.3	-60.1	0.0351	mg/L	1.754	ppm
1	Ba 233.527	147831.0	148696.6	0.4209	mg/L	21.05	ppm
1	Be 313.107	1449.4	1863.6	0.0007	mg/L	0.0336	ppm
1	Ca 227.547	586128.7	585845.2	2241	mg/L	112000	ppm
1	Cd 228.802	361.3	271.5	0.0021	mg/L	0.1072	ppm
1	Co 228.616	1949.6	2366.3	0.0224	mg/L	1.118	ppm
1	Cr 267.716	7227.7	7387.5	0.0817	mg/L	4.084	ppm
1	Cu 324.754	10266.3	7979.4	0.0250	mg/L	1.252	ppm
1	Fe 273.955	2545387.2	2542397.4	51.06	mg/L	2553	ppm
1	Mg 279.079	1975327.7	1974731.5	62.18	mg/L	3109	ppm
1	Mn 257.610	2119095.4	2117974.7	1.334	mg/L	66.72	ppm
1	Mo 202.030	-89.8	-61.3	-0.0032	mg/L	-0.1624	ppm
1	Ni 231.604	2415.0	2139.8	0.0423	mg/L	2.114	ppm
1	Pb 220.353	383.9	199.0	0.0234	mg/L	1.172	ppm
1	Sb 206.833	77.3	16.6	-0.0004	mg/L	-0.0214	ppm
1	Se 196.026	33.8	-50.5	-0.0057	mg/L	-0.2873	ppm
1	Tl 190.800	263.2	74.7	0.0109	mg/L	0.5442	ppm
1	V 292.402	11735.3	11572.6	0.1038	mg/L	5.190	ppm
1	Zn 213.856	17536.9	18120.3	0.1655	mg/L	8.275	ppm
2	Ag 328.068	-1225.3	-151.4	-0.0008	mg/L	-0.0375	ppm
2	Al 308.215	1416802.2	1412204.6	38.71	mg/L	1935	ppm
2	As 188.979	10.4	-59.0	0.0349	mg/L	1.747	ppm
2	Ba 233.527	149061.8	149927.4	0.4244	mg/L	21.22	ppm
2	Be 313.107	1635.9	2050.1	0.0007	mg/L	0.0370	ppm
2	Ca 227.547	580646.7	580363.2	2220	mg/L	111000	ppm
2	Cd 228.802	382.7	292.9	0.0023	mg/L	0.1156	ppm
2	Co 228.616	1895.2	2311.9	0.0219	mg/L	1.093	ppm
2	Cr 267.716	7334.3	7494.1	0.0829	mg/L	4.143	ppm
2	Cu 324.754	10449.6	8162.7	0.0256	mg/L	1.281	ppm
2	Fe 273.955	2557895.8	2554906.0	51.31	mg/L	2565	ppm
2	Mg 279.079	1961162.1	1960566.0	61.73	mg/L	3086	ppm
2	Mn 257.610	2095944.5	2094823.8	1.320	mg/L	65.99	ppm
2	Mo 202.030	-85.2	-56.7	-0.0030	mg/L	-0.1501	ppm
2	Ni 231.604	2359.9	2084.7	0.0412	mg/L	2.060	ppm
2	Pb 220.353	397.2	212.3	0.0243	mg/L	1.214	ppm
2	Sb 206.833	94.2	33.6	0.0036	mg/L	0.1789	ppm
2	Se 196.026	46.9	-37.3	-0.0009	mg/L	-0.0463	ppm
2	Tl 190.800	273.6	85.1	0.0138	mg/L	0.6902	ppm
2	V 292.402	11790.3	11627.6	0.1043	mg/L	5.214	ppm
2	Zn 213.856	17636.7	18220.0	0.1664	mg/L	8.321	ppm
3	Ag 328.068	-1218.8	-144.8	-0.0007	mg/L	-0.0359	ppm
3	Al 308.215	1389980.2	1385382.7	37.97	mg/L	1899	ppm
3	As 188.979	13.9	-55.6	0.0358	mg/L	1.791	ppm
3	Ba 233.527	148921.4	149787.0	0.4240	mg/L	21.20	ppm
3	Be 313.107	1524.8	1939.0	0.0007	mg/L	0.0350	ppm
3	Ca 227.547	576269.8	575986.4	2203	mg/L	110100	ppm
3	Cd 228.802	355.5	265.7	0.0021	mg/L	0.1049	ppm
3	Co 228.616	1900.8	2317.5	0.0219	mg/L	1.095	ppm
3	Cr 267.716	7323.2	7482.9	0.0827	mg/L	4.137	ppm
3	Cu 324.754	10240.5	7953.5	0.0250	mg/L	1.248	ppm
3	Fe 273.955	2508774.4	2505784.5	50.32	mg/L	2516	ppm
3	Mg 279.079	1941258.3	1940662.2	61.10	mg/L	3055	ppm
3	Mn 257.610	2075270.7	2074150.0	1.307	mg/L	65.34	ppm
3	Mo 202.030	-96.2	-67.7	-0.0036	mg/L	-0.1793	ppm
3	Ni 231.604	2356.0	2080.7	0.0411	mg/L	2.056	ppm
3	Pb 220.353	379.9	195.0	0.0230	mg/L	1.151	ppm

3	Sb 206.833	88.3	27.7	0.0042	mg/L	0.2104 ppm
3	Se 196.026	58.8	-25.5	0.0031	mg/L	0.1573 ppm
3	Tl 190.800	262.1	73.5	0.0107	mg/L	0.5343 ppm
3	V 292.402	11641.7	11479.0	0.1030	mg/L	5.148 ppm
3	Zn 213.856	17850.0	18433.4	0.1685	mg/L	8.427 ppm

ean Data ----------

ID: 6148-6 F=50 Seq. No.: 56 Sample No.: 38 A/S Pos: 46

ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 2:13:25 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-156.2	-0.0008	0.00007	mg/L	-0.0387	0.00359	ppm	9.26%
. 308.215	1400409.4	38.38	0.375	mg/L	1919	18.8	ppm	0.98%
As 188.979	-58.2	0.0353	0.00047	mg/L	1.764	0.0237	ppm	1.34%
Ba 233.527	149470.3	0.4231	0.00191	mg/L	21.16	0.095	ppm	0.45%
e 313.107	1950.9	0.0007	0.00003	mg/L	0.0352	0.00169	ppm	4.81%
a 227.547	580731.6	2221	18.9	mg/L	111100	944.6	ppm	0.85%
Cd 228.802	276.7	0.0022	0.00011	mg/L	0.1092	0.00565	ppm	5.17%
Co 228.616	2331.9	0.0220	0.00028	mg/L	1.102	0.0141	ppm	1.28%
r 267.716	7454.8	0.0824	0.00065	mg/L	4.122	0.0324	ppm	0.79%
u 324.754	8031.9	0.0252	0.00036	mg/L	1.261	0.0179	ppm	1.42%
e 273.955	2534362.6	50.90	0.513	mg/L	2545	25.6	ppm	1.01%
Mg 279.079	1958653.2	61.67	0.539	mg/L	3083	26.9	ppm	0.87%
n 257.610	2095649.5	1.320	0.0138	mg/L	66.02	0.691	ppm	1.05%
o 202.030	-61.9	-0.0033	0.00029	mg/L	-0.1639	0.01464	ppm	8.93%
i 231.604	2101.7	0.0415	0.00065	mg/L	2.077	0.0326	ppm	1.57%
Pb 220.353	202.1	0.0236	0.00064	mg/L	1.179	0.0320	ppm	2.72%
b 206.833	26.0	0.0025	0.00251	mg/L	0.1227	0.12572	ppm	102.51%
e 196.026	-37.8	-0.0012	0.00445	mg/L	-0.0588	0.22254	ppm	378.74%
l 190.800	77.8	0.0118	0.00175	mg/L	0.5896	0.08727	ppm	14.80%
V 292.402	11559.7	0.1037	0.00067	mg/L	5.184	0.0337	ppm	0.65%
Zn 213.856	18257.9	0.1668	0.00155	mg/L	8.341	0.0777	ppm	0.93%

plicate Data ----------

ID: 6148-7 F=50 Date: 11/21/02 2:17:02 PM

pl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1124.6	-50.7	-0.0003	mg/L	-0.0126	ppm
1	Al 308.215	1461178.7	1456581.1	39.92	mg/L	1996	ppm
1	As 188.979	0.2	-69.3	0.0375	mg/L	1.877	ppm
1	Ba 233.527	159010.5	159876.1	0.4526	mg/L	22.63	ppm
1	Be 313.107	1513.4	1927.6	0.0007	mg/L	0.0348	ppm
1	Ca 227.547	647184.4	646901.0	2474	mg/L	123700	ppm
1	Cd 228.802	426.0	336.3	0.0027	mg/L	0.1327	ppm
1	Co 228.616	1998.4	2415.1	0.0228	mg/L	1.141	ppm
1	Cr 267.716	7721.6	7881.4	0.0871	mg/L	4.357	ppm
1	Cu 324.754	13926.1	11639.2	0.0365	mg/L	1.827	ppm
1	Fe 273.955	2526508.8	2523519.0	50.68	mg/L	2534	ppm
1	Mg 279.079	2148945.0	2148348.9	67.64	mg/L	3382	ppm
1	Mn 257.610	2369918.7	2368798.0	1.492	mg/L	74.62	ppm
1	Mo 202.030	-86.9	-58.3	-0.0031	mg/L	-0.1545	ppm
1	Ni 231.604	2550.3	2275.1	0.0450	mg/L	2.248	ppm
1	Pb 220.353	519.2	334.3	0.0334	mg/L	1.671	ppm
1	Sb 206.833	89.5	28.9	0.0024	mg/L	0.1180	ppm
1	Se 196.026	44.5	-39.8	-0.0021	mg/L	-0.1052	ppm
1	Tl 190.800	270.3	81.7	0.0131	mg/L	0.6529	ppm
1	V 292.402	11427.6	11264.8	0.1010	mg/L	5.052	ppm
1	Zn 213.856	22170.8	22754.2	0.2092	mg/L	10.46	ppm
2	Ag 328.068	-1306.8	-232.8	-0.0012	mg/L	-0.0577	ppm
2	Al 308.215	1398735.2	1394137.6	38.21	mg/L	1911	ppm
2	As 188.979	11.9	-57.5	0.0389	mg/L	1.946	ppm
2	Ba 233.527	151928.6	152794.2	0.4325	mg/L	21.63	ppm
2	Be 313.107	1437.5	1851.7	0.0007	mg/L	0.0334	ppm
2	Ca 227.547	615728.4	615444.9	2354	mg/L	117700	ppm
2	Cd 228.802	429.1	339.3	0.0027	mg/L	0.1339	ppm
2	Co 228.616	2023.3	2440.0	0.0231	mg/L	1.153	ppm
2	Cr 267.716	7452.2	7612.0	0.0842	mg/L	4.208	ppm

2	Cu 324.754	13226.9	10940.0	0.0343	mg/L	1.717 ppm
2	Fe 273.955	2431572.7	2428582.8	48.77	mg/L	2439 ppm
2	Mg 279.079	2061695.9	2061099.7	64.89	mg/L	3245 ppm
2	Mn 257.610	2275726.1	2274605.4	1.433	mg/L	71.65 ppm
2	Mo 202.030	-81.8	-53.3	-0.0028	mg/L	-0.1412 ppm
2	Ni 231.604	2579.7	2304.5	0.0455	mg/L	2.277 ppm
2	Pb 220.353	524.8	339.9	0.0333	mg/L	1.663 ppm
2	Sb 206.833	82.7	22.1	0.0028	mg/L	0.1413 ppm
2	Se 196.026	53.5	-30.7	0.0007	mg/L	0.0372 ppm
2	Tl 190.800	262.6	74.1	0.0112	mg/L	0.5606 ppm
2	V 292.402	11140.7	10977.9	0.0985	mg/L	4.923 ppm
2	Zn 213.856	20774.6	21358.0	0.1963	mg/L	9.814 ppm
3	Ag 328.068	-1128.4	-54.4	-0.0003	mg/L	-0.0135 ppm
3	Al 308.215	1423054.8	1418457.3	38.88	mg/L	1944 ppm
3	As 188.979	1.0	-68.5	0.0355	mg/L	1.777 ppm
3	Ba 233.527	155533.4	156399.0	0.4427	mg/L	22.14 ppm
3	Be 313.107	1417.6	1831.8	0.0007	mg/L	0.0331 ppm
3	Ca 227.547	624073.8	623790.3	2386	mg/L	119300 ppm
3	Cd 228.802	445.5	355.8	0.0028	mg/L	0.1404 ppm
3	Co 228.616	2029.8	2446.5	0.0231	mg/L	1.156 ppm
3	Cr 267.716	7618.2	7777.9	0.0860	mg/L	4.300 ppm
3	Cu 324.754	13604.8	11317.9	0.0355	mg/L	1.776 ppm
3	Fe 273.955	2470654.0	2467664.1	49.56	mg/L	2478 ppm
3	Mg 279.079	2090033.9	2089437.8	65.79	mg/L	3289 ppm
3	Mn 257.610	2293017.1	2291896.4	1.444	mg/L	72.20 ppm
3	Mo 202.030	-90.7	-62.1	-0.0033	mg/L	-0.1646 ppm
3	Ni 231.604	2560.7	2285.5	0.0452	mg/L	2.258 ppm
3	Pb 220.353	533.6	348.7	0.0340	mg/L	1.700 ppm
3	Sb 206.833	86.5	25.9	0.0037	mg/L	0.1846 ppm
3	Se 196.026	43.3	-41.0	-0.0028	mg/L	-0.1400 ppm
3	Tl 190.800	263.5	75.0	0.0113	mg/L	0.5647 ppm
3	V 292.402	11341.5	11178.7	0.1003	mg/L	5.013 ppm
3	Zn 213.856	21792.6	22376.0	0.2058	mg/L	10.29 ppm

Mean Data ----------

ID: 6148-7 F=50 Seq. No.: 57 Sample No.: 39 A/S Pos: 47
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:17:02 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	-112.6	-0.0006	0.00052	mg/L	-0.0279	0.02580	ppm	92.43%
Al 308.215	1423058.7	39.00	0.863	mg/L	1950	43.1	ppm	2.21%
As 188.979	-65.1	0.0373	0.00170	mg/L	1.867	0.0849	ppm	4.55%
Ba 233.527	156356.5	0.4426	0.01002	mg/L	22.13	0.501	ppm	2.26%
Be 313.107	1870.4	0.0007	0.00002	mg/L	0.0338	0.00091	ppm	2.70%
Ca 227.547	628712.1	2405	62.3	mg/L	120200	3116.2	ppm	2.59%
Cd 228.802	343.8	0.0027	0.00008	mg/L	0.1357	0.00414	ppm	3.05%
Co 228.616	2433.9	0.0230	0.00016	mg/L	1.150	0.0078	ppm	0.68%
Cr 267.716	7757.1	0.0858	0.00150	mg/L	4.289	0.0751	ppm	1.75%
Cu 324.754	11299.0	0.0355	0.00110	mg/L	1.773	0.0549	ppm	3.10%
Fe 273.955	2473255.3	49.67	0.958	mg/L	2483	47.9	ppm	1.93%
Mg 279.079	2099628.8	66.11	1.401	mg/L	3305	70.1	ppm	2.12%
Mn 257.610	2311766.6	1.456	0.0316	mg/L	72.82	1.580	ppm	2.17%
Mo 202.030	-57.9	-0.0031	0.00024	mg/L	-0.1534	0.01175	ppm	7.66%
Ni 231.604	2288.4	0.0452	0.00029	mg/L	2.261	0.0147	ppm	0.65%
Pb 220.353	341.0	0.0336	0.00039	mg/L	1.678	0.0196	ppm	1.17%
Sb 206.833	25.6	0.0030	0.00068	mg/L	0.1479	0.03379	ppm	22.84%
Se 196.026	-37.2	-0.0014	0.00188	mg/L	-0.0693	0.09390	ppm	135.50%
Tl 190.800	76.9	0.0119	0.00104	mg/L	0.5927	0.05212	ppm	8.79%
V 292.402	11140.5	0.0999	0.00132	mg/L	4.996	0.0660	ppm	1.32%
Zn 213.856	22162.8	0.2038	0.00672	mg/L	10.19	0.336	ppm	3.30%

Replicate Data ----------

ID: 6148-8 F=50 Date: 11/21/02 2:20:38 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-1277.1	-203.2	-0.0010	mg/L	-0.0504	ppm
1	Al 308.215	1338075.7	1333478.1	36.55	mg/L	1827	ppm

1	As 188.979	1.3	-68.1	0.0419	mg/L	2.097 ppm
1	Ba 233.527	135869.2	136734.8	0.3871	mg/L	19.35 ppm
1	Be 313.107	884.5	1298.7	0.0005	mg/L	0.0234 ppm
1	Ca 227.547	685099.8	684816.3	2619	mg/L	131000 ppm
1	Cd 228.802	378.9	289.1	0.0023	mg/L	0.1141 ppm
1	Co 228.616	2089.0	2505.7	0.0237	mg/L	1.184 ppm
1	Cr 267.716	7085.1	7244.9	0.0801	mg/L	4.006 ppm
1	Cu 324.754	10288.9	8001.9	0.0251	mg/L	1.256 ppm
1	Fe 273.955	2537767.7	2534777.9	50.90	mg/L	2545 ppm
1	Mg 279.079	2280323.4	2279727.2	71.78	mg/L	3589 ppm
1	Mn 257.610	1878157.2	1877036.5	1.183	mg/L	59.13 ppm
1	Mo 202.030	-96.6	-68.1	-0.0036	mg/L	-0.1803 ppm
1	Ni 231.604	2634.1	2358.9	0.0466	mg/L	2.331 ppm
1	Pb 220.353	509.1	324.2	0.0331	mg/L	1.654 ppm
1	Sb 206.833	86.2	25.6	0.0018	mg/L	0.0881 ppm
1	Se 196.026	43.5	-40.8	-0.0021	mg/L	-0.1065 ppm
1	Tl 190.800	258.8	70.3	0.0103	mg/L	0.5151 ppm
1	V 292.402	11759.2	11596.5	0.1040	mg/L	5.200 ppm
1	Zn 213.856	43908.4	44491.8	0.4142	mg/L	20.71 ppm
2	Ag 328.068	-1088.0	-14.0	-0.0001	mg/L	-0.0035 ppm
2	Al 308.215	1295160.0	1290562.5	35.37	mg/L	1769 ppm
2	As 188.979	6.1	-63.4	0.0419	mg/L	2.096 ppm
2	Ba 233.527	141169.0	142034.7	0.4021	mg/L	20.10 ppm
2	Be 313.107	815.6	1229.8	0.0004	mg/L	0.0222 ppm
2	Ca 227.547	666537.8	666254.3	2548	mg/L	127400 ppm
2	Cd 228.802	383.2	293.4	0.0023	mg/L	0.1158 ppm
2	Co 228.616	2126.2	2542.9	0.0240	mg/L	1.202 ppm
2	Cr 267.716	7381.5	7541.3	0.0834	mg/L	4.169 ppm
2	Cu 324.754	10801.5	8514.6	0.0267	mg/L	1.336 ppm
2	Fe 273.955	2451248.0	2448258.2	49.17	mg/L	2458 ppm
2	Mg 279.079	2212100.4	2211504.3	69.63	mg/L	3482 ppm
2	Mn 257.610	1826812.0	1825691.3	1.150	mg/L	57.51 ppm
2	Mo 202.030	-99.6	-71.1	-0.0038	mg/L	-0.1883 ppm
2	Ni 231.604	2625.0	2349.8	0.0464	mg/L	2.322 ppm
2	Pb 220.353	506.7	321.8	0.0326	mg/L	1.630 ppm
2	Sb 206.833	83.2	22.5	0.0030	mg/L	0.1482 ppm
2	Se 196.026	53.1	-31.2	0.0009	mg/L	0.0447 ppm
2	Tl 190.800	269.6	81.1	0.0138	mg/L	0.6902 ppm
2	V 292.402	12210.6	12047.9	0.1081	mg/L	5.403 ppm
2	Zn 213.856	46583.7	47167.1	0.4396	mg/L	21.98 ppm
3	Ag 328.068	-1144.8	-70.8	-0.0004	mg/L	-0.0176 ppm
3	Al 308.215	1326646.3	1322048.8	36.24	mg/L	1812 ppm
3	As 188.979	8.0	-61.4	0.0443	mg/L	2.215 ppm
3	Ba 233.527	140566.9	141432.5	0.4004	mg/L	20.02 ppm
3	Be 313.107	763.4	1177.6	0.0004	mg/L	0.0213 ppm
3	Ca 227.547	683150.0	682866.6	2612	mg/L	130600 ppm
3	Cd 228.802	386.1	296.3	0.0023	mg/L	0.1169 ppm
3	Co 228.616	2080.0	2496.7	0.0236	mg/L	1.180 ppm
3	Cr 267.716	7536.6	7696.4	0.0851	mg/L	4.255 ppm
3	Cu 324.754	10739.7	8452.8	0.0265	mg/L	1.327 ppm
3	Fe 273.955	2500671.7	2497681.9	50.16	mg/L	2508 ppm
3	Mg 279.079	2260362.5	2259766.4	71.15	mg/L	3557 ppm
3	Mn 257.610	1873060.0	1871939.3	1.179	mg/L	58.97 ppm
3	Mo 202.030	-93.9	-65.4	-0.0035	mg/L	-0.1733 ppm
3	Ni 231.604	2599.0	2323.7	0.0459	mg/L	2.296 ppm
3	Pb 220.353	494.6	309.8	0.0321	mg/L	1.603 ppm
3	Sb 206.833	87.5	26.9	0.0039	mg/L	0.1973 ppm
3	Se 196.026	56.3	-28.0	0.0023	mg/L	0.1153 ppm
3	Tl 190.800	266.8	78.2	0.0128	mg/L	0.6389 ppm
3	V 292.402	12268.9	12106.2	0.1086	mg/L	5.429 ppm
3	Zn 213.856	46560.4	47143.8	0.4393	mg/L	21.97 ppm

an Data ----------

: 6148-8 F=50 Seq. No.: 58 Sample No.: 40 A/S Pos: 48
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:20:38 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-96.0	-0.0005	0.00048	mg/L	-0.0238	0.02406	ppm	101.09%

012347

Al 308.215	1315363.1	36.05	0.609 mg/L	1803	30.5 ppm	1.69%
As 188.979	-64.3	0.0427	0.00137 mg/L	2.136	0.0683 ppm	3.20%
Ba 233.527	140067.3	0.3965	0.00821 mg/L	19.82	0.411 ppm	2.07%
Be 313.107	1235.4	0.0004	0.00002 mg/L	0.0223	0.00110 ppm	4.92%
Ca 227.547	677979.1	2593	39.0 mg/L	129700	1950.7 ppm	1.50%
Cd 228.802	293.0	0.0023	0.00003 mg/L	0.1156	0.00144 ppm	1.24%
Co 228.616	2515.1	0.0238	0.00023 mg/L	1.189	0.0116 ppm	0.97%
Cr 267.716	7494.2	0.0829	0.00254 mg/L	4.143	0.1268 ppm	3.06%
Cu 324.754	8323.1	0.0261	0.00088 mg/L	1.306	0.0439 ppm	3.36%
Fe 273.955	2493572.6	50.08	0.872 mg/L	2504	43.6 ppm	1.74%
Mg 279.079	2250332.6	70.85	1.104 mg/L	3543	55.2 ppm	1.56%
Mn 257.610	1858222.4	1.171	0.0178 mg/L	58.54	0.891 ppm	1.52%
Mo 202.030	-68.2	-0.0036	0.00015 mg/L	-0.1806	0.00748 ppm	4.14%
Ni 231.604	2344.2	0.0463	0.00036 mg/L	2.316	0.0180 ppm	0.78%
Pb 220.353	318.6	0.0326	0.00051 mg/L	1.629	0.0253 ppm	1.56%
Sb 206.833	25.0	0.0029	0.00109 mg/L	0.1445	0.05472 ppm	37.86%
Se 196.026	-33.3	0.0004	0.00227 mg/L	0.0178	0.11332 ppm	634.93%
Tl 190.800	76.5	0.0123	0.00180 mg/L	0.6147	0.09002 ppm	14.64%
V 292.402	11916.8	0.1069	0.00250 mg/L	5.344	0.1251 ppm	2.34%
Zn 213.856	46267.6	0.4311	0.01458 mg/L	21.55	0.729 ppm	3.38%

Replicate Data ----------

ID: 6148-9 F=50 Date: 11/21/02 2:24:07 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1248.1	-174.1	-0.0009	mg/L	-0.0432	ppm
1	Al 308.215	915834.5	911236.9	24.98	mg/L	1249	ppm
1	As 188.979	-13.2	-82.6	0.0309	mg/L	1.546	ppm
1	Ba 233.527	124877.4	125743.0	0.3559	mg/L	17.80	ppm
1	Be 313.107	1124.3	1538.5	0.0006	mg/L	0.0278	ppm
1	Ca 227.547	632364.7	632081.2	2418	mg/L	120900	ppm
1	Cd 228.802	390.4	300.7	0.0024	mg/L	0.1186	ppm
1	Co 228.616	1078.2	1494.9	0.0141	mg/L	0.7065	ppm
1	Cr 267.716	5641.7	5801.5	0.0641	mg/L	3.207	ppm
1	Cu 324.754	7316.0	5029.1	0.0158	mg/L	0.7893	ppm
1	Fe 273.955	1482180.2	1479190.4	29.71	mg/L	1485	ppm
1	Mg 279.079	1969876.4	1969280.3	62.00	mg/L	3100	ppm
1	Mn 257.610	1779952.8	1778832.1	1.121	mg/L	56.04	ppm
1	Mo 202.030	-110.3	-81.8	-0.0043	mg/L	-0.2166	ppm
1	Ni 231.604	1911.1	1635.9	0.0323	mg/L	1.616	ppm
1	Pb 220.353	305.3	120.4	0.0181	mg/L	0.9039	ppm
1	Sb 206.833	85.9	25.3	0.0060	mg/L	0.3023	ppm
1	Se 196.026	55.4	-28.9	-0.0033	mg/L	-0.1675	ppm
1	Tl 190.800	251.1	62.6	0.0128	mg/L	0.6419	ppm
1	V 292.402	7591.7	7429.0	0.0666	mg/L	3.331	ppm
1	Zn 213.856	10469.5	11052.9	0.1042	mg/L	5.212	ppm
2	Ag 328.068	-971.7	102.2	0.0005	mg/L	0.0253	ppm
2	Al 308.215	904322.3	899724.7	24.66	mg/L	1233	ppm
2	As 188.979	-10.1	-79.5	0.0311	mg/L	1.555	ppm
2	Ba 233.527	123493.5	124359.1	0.3520	mg/L	17.60	ppm
2	Be 313.107	1046.9	1461.1	0.0005	mg/L	0.0264	ppm
2	Ca 227.547	622006.5	621723.1	2378	mg/L	118900	ppm
2	Cd 228.802	383.4	293.6	0.0023	mg/L	0.1159	ppm
2	Co 228.616	1069.5	1486.2	0.0140	mg/L	0.7024	ppm
2	Cr 267.716	5731.0	5890.7	0.0651	mg/L	3.257	ppm
2	Cu 324.754	7272.8	4985.9	0.0157	mg/L	0.7826	ppm
2	Fe 273.955	1472267.1	1469277.3	29.51	mg/L	1475	ppm
2	Mg 279.079	1944479.1	1943883.0	61.20	mg/L	3060	ppm
2	Mn 257.610	1745680.6	1744559.9	1.099	mg/L	54.96	ppm
2	Mo 202.030	-114.5	-86.0	-0.0046	mg/L	-0.2278	ppm
2	Ni 231.604	1876.2	1601.0	0.0316	mg/L	1.582	ppm
2	Pb 220.353	300.4	115.5	0.0176	mg/L	0.8796	ppm
2	Sb 206.833	75.4	14.7	0.0035	mg/L	0.1762	ppm
2	Se 196.026	66.8	-17.5	0.0007	mg/L	0.0363	ppm
2	Tl 190.800	255.8	67.2	0.0142	mg/L	0.7104	ppm
2	V 292.402	7339.9	7177.2	0.0644	mg/L	3.218	ppm
2	Zn 213.856	10500.2	11083.6	0.1045	mg/L	5.227	ppm
3	Ag 328.068	-1172.5	-98.5	-0.0005	mg/L	-0.0244	ppm

3	Al 308.215	921834.4	917236.8	25.14	mg/L	1257 ppm
3	As 188.979	-13.0	-82.5	0.0318	mg/L	1.590 ppm
3	Ba 233.527	125408.1	126273.7	0.3574	mg/L	17.87 ppm
3	Be 313.107	1034.0	1448.2	0.0005	mg/L	0.0261 ppm
3	Ca 227.547	640682.5	640399.1	2449	mg/L	122500 ppm
3	Cd 228.802	390.5	300.7	0.0024	mg/L	0.1187 ppm
3	Co 228.616	1062.9	1479.6	0.0140	mg/L	0.6993 ppm
3	Cr 267.716	5650.7	5810.5	0.0642	mg/L	3.212 ppm
3	Cu 324.754	7616.5	5329.6	0.0167	mg/L	0.8365 ppm
3	Fe 273.955	1484186.4	1481196.5	29.75	mg/L	1487 ppm
3	Mg 279.079	1976868.8	1976272.7	62.22	mg/L	3111 ppm
3	Mn 257.610	1791669.8	1790549.0	1.128	mg/L	56.40 ppm
3	Mo 202.030	-122.5	-94.0	-0.0050	mg/L	-0.2490 ppm
3	Ni 231.604	1867.3	1592.1	0.0315	mg/L	1.573 ppm
3	Pb 220.353	305.3	120.4	0.0182	mg/L	0.9098 ppm
3	Sb 206.833	82.1	21.5	0.0051	mg/L	0.2572 ppm
3	Se 196.026	65.2	-19.1	0.0002	mg/L	0.0099 ppm
3	Tl 190.800	256.7	68.2	0.0145	mg/L	0.7239 ppm
3	V 292.402	7659.3	7496.5	0.0672	mg/L	3.362 ppm
3	Zn 213.856	10494.5	11077.9	0.1045	mg/L	5.224 ppm

ean Data ----------

: 6148-9 F=50 Seq. No.: 59 Sample No.: 41 A/S Pos: 49
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:24:07 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-56.8	-0.0003	0.00071	mg/L	-0.0141	0.03540	ppm	251.45%
Al 308.215	909399.5	24.93	0.244	mg/L	1246	12.2	ppm	0.98%
188.979	-81.6	0.0313	0.00047	mg/L	1.564	0.0235	ppm	1.50%
233.527	125458.6	0.3551	0.00280	mg/L	17.76	0.140	ppm	0.79%
Be 313.107	1482.6	0.0005	0.00002	mg/L	0.0268	0.00088	ppm	3.29%
Ca 227.547	631401.1	2415	35.8	mg/L	120700	1789.3	ppm	1.48%
228.802	298.3	0.0024	0.00003	mg/L	0.1177	0.00160	ppm	1.36%
228.616	1486.9	0.0141	0.00007	mg/L	0.7028	0.00362	ppm	0.51%
Cr 267.716	5834.2	0.0645	0.00054	mg/L	3.226	0.0272	ppm	0.84%
Cu 324.754	5114.9	0.0161	0.00059	mg/L	0.8028	0.02938	ppm	3.66%
273.955	1476554.7	29.65	0.128	mg/L	1483	6.4	ppm	0.43%
279.079	1963145.3	61.81	0.537	mg/L	3091	26.8	ppm	0.87%
257.610	1771313.7	1.116	0.0151	mg/L	55.80	0.753	ppm	1.35%
Mo 202.030	-87.3	-0.0046	0.00033	mg/L	-0.2312	0.01648	ppm	7.13%
231.604	1609.6	0.0318	0.00046	mg/L	1.590	0.0229	ppm	1.44%
220.353	118.8	0.0180	0.00032	mg/L	0.8978	0.01602	ppm	1.78%
206.833	20.5	0.0049	0.00128	mg/L	0.2453	0.06388	ppm	26.05%
Se 196.026	-21.8	-0.0008	0.00222	mg/L	-0.0404	0.11084	ppm	274.30%
190.800	66.0	0.0138	0.00088	mg/L	0.6921	0.04395	ppm	6.35%
292.402	7367.6	0.0661	0.00151	mg/L	3.304	0.0755	ppm	2.28%
213.856	11071.5	0.1044	0.00015	mg/L	5.221	0.0077	ppm	0.15%

Replicate Data ----------

: 6148-10 F=50 Date: 11/21/02 2:27:34 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1251.7	-177.8	-0.0009	mg/L	-0.0441	ppm
1	Al 308.215	1562277.0	1557679.5	42.69	mg/L	2135	ppm
1	As 188.979	-1.3	-70.7	0.0355	mg/L	1.774	ppm
1	Ba 233.527	135086.4	135952.0	0.3848	mg/L	19.24	ppm
1	Be 313.107	948.5	1362.7	0.0005	mg/L	0.0246	ppm
1	Ca 227.547	634055.2	633771.7	2424	mg/L	121200	ppm
1	Cd 228.802	394.6	304.8	0.0024	mg/L	0.1203	ppm
1	Co 228.616	2060.0	2476.7	0.0234	mg/L	1.171	ppm
1	Cr 267.716	8868.9	9028.7	0.0998	mg/L	4.992	ppm
1	Cu 324.754	9162.7	6875.8	0.0216	mg/L	1.079	ppm
1	Fe 273.955	2500375.6	2497385.8	50.15	mg/L	2508	ppm
1	Mg 279.079	2049100.5	2048504.4	64.50	mg/L	3225	ppm
1	Mn 257.610	1843708.7	1842587.9	1.161	mg/L	58.04	ppm
1	Mo 202.030	-102.8	-74.3	-0.0039	mg/L	-0.1968	ppm
1	Ni 231.604	2909.1	2633.8	0.0520	mg/L	2.602	ppm
1	Pb 220.353	315.4	130.5	0.0197	mg/L	0.9873	ppm

1 Sb 206.833	90.5	29.8	0.0042 mg/L	0.2114 ppm
1 Se 196.026	61.6	-22.7	0.0038 mg/L	0.1883 ppm
1 Tl 190.800	264.4	75.9	0.0111 mg/L	0.5531 ppm
1 V 292.402	11461.3	11298.6	0.1013 mg/L	5.067 ppm
1 Zn 213.856	13457.1	14040.5	0.1271 mg/L	6.356 ppm
2 Ag 328.068	-1250.4	-176.5	-0.0009 mg/L	-0.0437 ppm
2 Al 308.215	1554169.8	1549572.2	42.47 mg/L	2124 ppm
2 As 188.979	-1.4	-70.9	0.0342 mg/L	1.710 ppm
2 Ba 233.527	137371.2	138236.8	0.3913 mg/L	19.57 ppm
2 Be 313.107	981.9	1396.1	0.0005 mg/L	0.0252 ppm
2 Ca 227.547	621735.3	621451.8	2377 mg/L	118800 ppm
2 Cd 228.802	396.8	307.0	0.0024 mg/L	0.1212 ppm
2 Co 228.616	2052.4	2469.1	0.0233 mg/L	1.167 ppm
2 Cr 267.716	9230.0	9389.8	0.1038 mg/L	5.191 ppm
2 Cu 324.754	9445.9	7159.0	0.0225 mg/L	1.124 ppm
2 Fe 273.955	2482694.4	2479704.6	49.80 mg/L	2490 ppm
2 Mg 279.079	2017343.9	2016747.8	63.50 mg/L	3175 ppm
2 Mn 257.610	1809907.3	1808786.6	1.140 mg/L	56.98 ppm
2 Mo 202.030	-98.8	-70.3	-0.0037 mg/L	-0.1861 ppm
2 Ni 231.604	2906.5	2631.3	0.0520 mg/L	2.600 ppm
2 Pb 220.353	299.9	115.0	0.0185 mg/L	0.9265 ppm
2 Sb 206.833	79.1	18.5	0.0014 mg/L	0.0701 ppm
2 Se 196.026	51.1	-33.1	-0.0001 mg/L	-0.0064 ppm
2 Tl 190.800	252.3	63.8	0.0076 mg/L	0.3778 ppm
2 V 292.402	11534.3	11371.6	0.1020 mg/L	5.099 ppm
2 Zn 213.856	13440.2	14023.6	0.1270 mg/L	6.350 ppm
3 Ag 328.068	-1182.1	-108.1	-0.0005 mg/L	-0.0268 ppm
3 Al 308.215	1580963.6	1576366.0	43.21 mg/L	2160 ppm
3 As 188.979	-9.1	-78.5	0.0328 mg/L	1.640 ppm
3 Ba 233.527	135863.1	136728.7	0.3870 mg/L	19.35 ppm
3 Be 313.107	968.8	1383.0	0.0005 mg/L	0.0250 ppm
3 Ca 227.547	637415.7	637132.3	2437 mg/L	121800 ppm
3 Cd 228.802	398.0	308.2	0.0024 mg/L	0.1216 ppm
3 Co 228.616	2068.5	2485.2	0.0235 mg/L	1.175 ppm
3 Cr 267.716	8920.9	9080.7	0.1004 mg/L	5.020 ppm
3 Cu 324.754	9390.5	7103.6	0.0223 mg/L	1.115 ppm
3 Fe 273.955	2525356.4	2522366.6	50.65 mg/L	2533 ppm
3 Mg 279.079	2059803.2	2059207.1	64.84 mg/L	3242 ppm
3 Mn 257.610	1846391.3	1845270.6	1.163 mg/L	58.13 ppm
3 Mo 202.030	-111.7	-83.2	-0.0044 mg/L	-0.2205 ppm
3 Ni 231.604	2912.2	2637.0	0.0521 mg/L	2.605 ppm
3 Pb 220.353	311.5	126.6	0.0196 mg/L	0.9780 ppm
3 Sb 206.833	79.9	19.3	-0.0003 mg/L	-0.0161 ppm
3 Se 196.026	32.2	-52.1	-0.0068 mg/L	-0.3398 ppm
3 Tl 190.800	267.6	79.1	0.0119 mg/L	0.5930 ppm
3 V 292.402	11421.7	11259.0	0.1010 mg/L	5.049 ppm
3 Zn 213.856	13651.5	14234.9	0.1289 mg/L	6.445 ppm

Mean Data ----------

ID: 6148-10 F=50 Seq. No.: 60 Sample No.: 42 A/S Pos: 50
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:27:34 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-154.1	-0.0008	0.00020	mg/L	-0.0382	0.00987	ppm	25.85%
Al 308.215	1561205.9	42.79	0.377	mg/L	2140	18.8	ppm	0.88%
As 188.979	-73.4	0.0342	0.00134	mg/L	1.708	0.0670	ppm	3.92%
Ba 233.527	136972.5	0.3877	0.00329	mg/L	19.39	0.164	ppm	0.85%
Be 313.107	1380.6	0.0005	0.00001	mg/L	0.0249	0.00030	ppm	1.22%
Ca 227.547	630785.3	2413	31.6	mg/L	120600	1578.8	ppm	1.31%
Cd 228.802	306.7	0.0024	0.00001	mg/L	0.1210	0.00068	ppm	0.57%
Co 228.616	2477.0	0.0234	0.00008	mg/L	1.171	0.0038	ppm	0.33%
Cr 267.716	9166.4	0.1014	0.00216	mg/L	5.068	0.1079	ppm	2.13%
Cu 324.754	7046.1	0.0221	0.00047	mg/L	1.106	0.0236	ppm	2.13%
Fe 273.955	2499819.0	50.20	0.430	mg/L	2510	21.5	ppm	0.86%
Mg 279.079	2041486.4	64.28	0.695	mg/L	3214	34.8	ppm	1.08%
Mn 257.610	1832215.0	1.154	0.0128	mg/L	57.72	0.641	ppm	1.11%
Mo 202.030	-75.9	-0.0040	0.00035	mg/L	-0.2011	0.01760	ppm	8.75%
Ni 231.604	2634.0	0.0520	0.00006	mg/L	2.602	0.0028	ppm	0.11%

b 220.353	124.0	0.0193	0.00066 mg/L	0.9639	0.03275 ppm	3.40%
b 206.833	22.5	0.0018	0.00230 mg/L	0.0885	0.11487 ppm	129.83%
se 196.026	-36.0	-0.0011	0.00534 mg/L	-0.0526	0.26704 ppm	507.41%
Tl 190.800	72.9	0.0102	0.00229 mg/L	0.5080	0.11449 ppm	22.54%
292.402	11309.7	0.1014	0.00051 mg/L	5.072	0.0256 ppm	0.51%
n 213.856	14099.7	0.1277	0.00106 mg/L	6.384	0.0532 ppm	0.83%

Replicate Data ----------

ID: CCV 1379B Date: 11/21/02 2:31:10 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	198644.6	199718.6	0.9900	mg/L		
1	Al 308.215	185445.3	180847.7	4.957	mg/L		
1	As 188.979	1409.2	1339.7	0.5194	mg/L		
1	Ba 233.527	1771275.4	1772141.0	5.016	mg/L		
1	Be 313.107	1414428.0	1414842.2	0.5106	mg/L		
1	Ca 227.547	14016.3	13732.8	52.52	mg/L		
1	Cd 228.802	131958.5	131868.7	1.041	mg/L		
1	Co 228.616	220268.9	220685.6	2.086	mg/L		
1	Cr 267.716	44186.2	44346.0	0.4904	mg/L		
1	Cu 324.754	651986.0	649699.1	2.039	mg/L		
1	Fe 273.955	249833.8	246843.9	4.957	mg/L		
1	Mg 279.079	808094.1	807497.9	25.42	mg/L		
1	Mn 257.610	3280028.0	3278907.3	2.066	mg/L		
1	Mo 202.030	38285.4	38313.9	2.030	mg/L		
1	Ni 231.604	106793.2	106518.0	2.105	mg/L		
1	Pb 220.353	7760.9	7576.0	0.5069	mg/L		
1	Sb 206.833	8689.8	8629.1	2.050	mg/L		
1	Se 196.026	1461.9	1377.6	0.5019	mg/L		
1	Tl 190.800	1938.4	1749.9	0.5088	mg/L		
1	V 292.402	216957.5	216794.8	1.944	mg/L		
1	Zn 213.856	216009.8	216593.2	2.043	mg/L		
2	Ag 328.068	199839.0	200912.9	0.9960	mg/L		
2	Al 308.215	186766.8	182169.2	4.993	mg/L		
2	As 188.979	1403.3	1333.9	0.5172	mg/L		
2	Ba 233.527	1793179.1	1794044.7	5.078	mg/L		
2	Be 313.107	1424685.7	1425099.9	0.5143	mg/L		
2	Ca 227.547	13973.1	13689.6	52.36	mg/L		
2	Cd 228.802	132523.2	132433.4	1.045	mg/L		
2	Co 228.616	222103.5	222520.2	2.103	mg/L		
2	Cr 267.716	44820.8	44980.6	0.4974	mg/L		
2	Cu 324.754	664541.3	662254.4	2.079	mg/L		
2	Fe 273.955	249321.8	246332.0	4.947	mg/L		
2	Mg 279.079	818278.4	817682.3	25.75	mg/L		
2	Mn 257.610	3330316.7	3329196.0	2.097	mg/L		
2	Mo 202.030	38748.3	38776.8	2.054	mg/L		
2	Ni 231.604	107378.4	107103.2	2.116	mg/L		
2	Pb 220.353	7741.9	7557.0	0.5056	mg/L		
2	Sb 206.833	8694.7	8634.0	2.051	mg/L		
2	Se 196.026	1478.3	1394.0	0.5078	mg/L		
2	Tl 190.800	1939.2	1750.7	0.5090	mg/L		
2	V 292.402	220352.1	220189.3	1.975	mg/L		
2	Zn 213.856	217283.6	217867.0	2.055	mg/L		
3	Ag 328.068	200715.4	201789.4	1.000	mg/L		
3	Al 308.215	186551.8	181954.2	4.987	mg/L		
3	As 188.979	1413.6	1344.1	0.5212	mg/L		
3	Ba 233.527	1750704.6	1751570.2	4.958	mg/L		
3	Be 313.107	1389209.6	1389623.8	0.5015	mg/L		
3	Ca 227.547	14085.6	13802.1	52.79	mg/L		
3	Cd 228.802	132952.8	132863.1	1.049	mg/L		
3	Co 228.616	221988.8	222405.5	2.102	mg/L		
3	Cr 267.716	44861.1	45020.8	0.4978	mg/L		
3	Cu 324.754	643950.5	641663.6	2.014	mg/L		
3	Fe 273.955	249226.6	246236.8	4.945	mg/L		
3	Mg 279.079	797714.4	797118.3	25.10	mg/L		
3	Mn 257.610	3241359.2	3240238.5	2.041	mg/L		
3	Mo 202.030	38458.7	38487.3	2.039	mg/L		
3	Ni 231.604	106645.2	106370.0	2.102	mg/L		

3 Pb 220.353	7766.5	7581.6	0.5073	mg/L
3 Sb 206.833	8777.5	8716.8	2.070	mg/L
3 Se 196.026	1480.8	1396.5	0.5087	mg/L
3 Tl 190.800	1951.8	1763.3	0.5127	mg/L
3 V 292.402	220787.3	220624.5	1.979	mg/L
3 Zn 213.856	216757.6	217341.0	2.050	mg/L

Mean Data ----------

ID: CCV 1379B Seq. No.: 61 Sample No.: 5 A/S Pos: 6
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 2:31:10 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	200807.0	0.9954	0.00515	mg/L				0.52%
Al 308.215	181657.1	4.979	0.0194	mg/L				0.39%
As 188.979	1339.3	0.5193	0.00197	mg/L				0.38%
Ba 233.527	1772585.3	5.018	0.0601	mg/L				1.20%
Be 313.107	1409855.3	0.5088	0.00659	mg/L				1.29%
Ca 227.547	13741.5	52.56	0.217	mg/L				0.41%
Cd 228.802	132388.4	1.045	0.0039	mg/L				0.38%
Co 228.616	221870.4	2.097	0.0097	mg/L				0.46%
Cr 267.716	44782.5	0.4952	0.00419	mg/L				0.85%
Cu 324.754	651205.7	2.044	0.0326	mg/L				1.59%
Fe 273.955	246470.9	4.950	0.0066	mg/L				0.13%
Mg 279.079	807432.8	25.42	0.324	mg/L				1.27%
Mn 257.610	3282780.6	2.068	0.0281	mg/L				1.36%
Mo 202.030	38526.0	2.041	0.0124	mg/L				0.61%
Ni 231.604	106663.7	2.108	0.0077	mg/L				0.36%
Pb 220.353	7571.5	0.5066	0.00086	mg/L				0.17%
Sb 206.833	8660.0	2.057	0.0117	mg/L				0.57%
Se 196.026	1389.4	0.5061	0.00372	mg/L				0.74%
Tl 190.800	1754.6	0.5101	0.00218	mg/L				0.43%
V 292.402	219202.9	1.966	0.0188	mg/L				0.96%
Zn 213.856	217267.1	2.049	0.0060	mg/L				0.29%

Replicate Data ----------

ID: CCB Date: 11/21/02 2:34:37 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-1206.0	-132.1	-0.0007	mg/L		
1	Al 308.215	5001.1	403.5	0.0111	mg/L		
1	As 188.979	63.3	-6.1	-0.0023	mg/L		
1	Ba 233.527	-453.7	411.9	0.0012	mg/L		
1	Be 313.107	294.4	708.6	0.0003	mg/L		
1	Ca 227.547	218.0	-65.5	-0.2504	mg/L		
1	Cd 228.802	103.9	14.1	0.0001	mg/L		
1	Co 228.616	-321.0	95.7	0.0009	mg/L		
1	Cr 267.716	-21.4	138.4	0.0015	mg/L		
1	Cu 324.754	2359.4	72.4	0.0002	mg/L		
1	Fe 273.955	2902.4	-87.4	-0.0018	mg/L		
1	Mg 279.079	626.6	30.5	0.0010	mg/L		
1	Mn 257.610	2167.7	1047.0	0.0007	mg/L		
1	Mo 202.030	-10.5	18.0	0.0010	mg/L		
1	Ni 231.604	342.8	67.6	0.0013	mg/L		
1	Pb 220.353	177.7	-7.2	-0.0005	mg/L		
1	Sb 206.833	71.1	10.4	0.0025	mg/L		
1	Se 196.026	80.5	-3.8	-0.0014	mg/L		
1	Tl 190.800	192.1	3.5	0.0010	mg/L		
1	V 292.402	405.8	243.1	0.0022	mg/L		
1	Zn 213.856	-229.3	354.1	0.0033	mg/L		
2	Ag 328.068	-1115.0	-41.0	-0.0002	mg/L		
2	Al 308.215	5234.3	636.7	0.0175	mg/L		
2	As 188.979	70.7	1.2	0.0005	mg/L		
2	Ba 233.527	-717.7	147.9	0.0004	mg/L		
2	Be 313.107	162.9	577.1	0.0002	mg/L		
2	Ca 227.547	347.7	64.3	0.2458	mg/L		
2	Cd 228.802	116.8	27.1	0.0002	mg/L		
2	Co 228.616	-276.3	140.4	0.0013	mg/L		

2 Cr 267.716	-186.3	-26.5	-0.0003	mg/L
2 Cu 324.754	2256.0	-31.0	-0.0001	mg/L
2 Fe 273.955	2640.3	-349.6	-0.0070	mg/L
2 Mg 279.079	644.0	47.9	0.0015	mg/L
2 Mn 257.610	2034.1	913.4	0.0006	mg/L
2 Mo 202.030	-17.5	11.0	0.0006	mg/L
2 Ni 231.604	393.2	117.9	0.0023	mg/L
2 Pb 220.353	186.4	1.5	0.0001	mg/L
2 Sb 206.833	66.1	5.5	0.0013	mg/L
2 Se 196.026	80.1	-4.2	-0.0015	mg/L
2 Tl 190.800	191.8	3.3	0.0010	mg/L
2 V 292.402	252.6	89.9	0.0008	mg/L
2 Zn 213.856	-334.5	248.9	0.0023	mg/L
3 Ag 328.068	-889.6	184.3	0.0009	mg/L
3 Al 308.215	5244.0	646.4	0.0177	mg/L
3 As 188.979	72.5	3.0	0.0012	mg/L
3 Ba 233.527	-728.8	136.8	0.0004	mg/L
3 Be 313.107	35.6	449.9	0.0002	mg/L
3 Ca 227.547	214.9	-68.6	-0.2623	mg/L
3 Cd 228.802	83.8	-5.9	0.0000	mg/L
3 Co 228.616	-295.1	121.6	0.0011	mg/L
3 Cr 267.716	-64.4	95.4	0.0011	mg/L
3 Cu 324.754	2319.1	32.2	0.0001	mg/L
3 Fe 273.955	2446.0	-543.8	-0.0109	mg/L
3 Mg 279.079	698.8	102.6	0.0032	mg/L
3 Mn 257.610	1770.9	650.2	0.0004	mg/L
3 Mo 202.030	-10.2	18.3	0.0010	mg/L
3 Ni 231.604	315.2	40.0	0.0008	mg/L
3 Pb 220.353	184.2	-0.7	0.0000	mg/L
3 Sb 206.833	63.8	3.2	0.0008	mg/L
3 Se 196.026	69.9	-14.4	-0.0052	mg/L
3 Tl 190.800	191.1	2.6	0.0008	mg/L
3 V 292.402	227.2	64.5	0.0006	mg/L
3 Zn 213.856	-381.3	202.1	0.0019	mg/L

Mean Data ----------

ID: CCB Seq. No.: 62 Sample No.: 6 A/S Pos: 1

ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0

Data: Original Date: 11/21/02 2:34:37 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	3.7	0.0000	0.00081	mg/L				>999.9%
l 308.215	562.2	0.0154	0.00377	mg/L				24.46%
As 188.979	-0.6	-0.0002	0.00186	mg/L				774.88%
a 233.527	232.2	0.0007	0.00044	mg/L				67.06%
e 313.107	578.5	0.0002	0.00005	mg/L				22.36%
a 227.547	-23.3	-0.0890	0.29001	mg/L				326.00%
Cd 228.802	11.8	0.0001	0.00013	mg/L				141.42%
o 228.616	119.2	0.0011	0.00021	mg/L				18.85%
r 267.716	69.1	0.0008	0.00095	mg/L				123.79%
u 324.754	24.6	0.0001	0.00016	mg/L				212.17%
Fe 273.955	-326.9	-0.0066	0.00460	mg/L				70.05%
Mg 279.079	60.3	0.0019	0.00119	mg/L				62.40%
n 257.610	870.2	0.0005	0.00013	mg/L				23.20%
o 202.030	15.8	0.0008	0.00022	mg/L				26.14%
Ni 231.604	75.2	0.0015	0.00078	mg/L				52.58%
Pb 220.353	-2.1	-0.0001	0.00030	mg/L				211.72%
b 206.833	6.3	0.0015	0.00089	mg/L				58.45%
e 196.026	-7.5	-0.0027	0.00219	mg/L				80.85%
l 190.800	3.1	0.0009	0.00014	mg/L				15.78%
V 292.402	132.5	0.0012	0.00087	mg/L				72.94%
n 213.856	268.4	0.0025	0.00073	mg/L				29.02%

eplicate Data ----------

ID: 6148-11 F=50 Date: 11/21/02 2:38:03 PM

epl# Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1 Ag 328.068	-976.1	97.9	0.0005	mg/L	0.0243	ppm

012353

1	Al 308.215	389521.4	384923.9	10.55	mg/L	527.5	ppm
1	As 188.979	-4.1	-73.5	0.0283	mg/L	1.416	ppm
1	Ba 233.527	62936.6	63802.2	0.1806	mg/L	9.030	ppm
1	Be 313.107	-403.5	10.7	0.0000	mg/L	0.0002	ppm
1	Ca 227.547	568795.9	568512.4	2174	mg/L	108700	ppm
1	Cd 228.802	210.5	120.8	0.0010	mg/L	0.0477	ppm
1	Co 228.616	273.8	690.5	0.0065	mg/L	0.3264	ppm
1	Cr 267.716	2481.1	2640.8	0.0292	mg/L	1.460	ppm
1	Cu 324.754	3838.7	1551.8	0.0049	mg/L	0.2436	ppm
1	Fe 273.955	1049402.8	1046413.0	21.01	mg/L	1051	ppm
1	Mg 279.079	1018302.7	1017706.6	32.04	mg/L	1602	ppm
1	Mn 257.610	1185705.0	1184584.3	0.7463	mg/L	37.32	ppm
1	Mo 202.030	-103.8	-75.3	-0.0040	mg/L	-0.1996	ppm
1	Ni 231.604	1011.5	736.3	0.0146	mg/L	0.7275	ppm
1	Pb 220.353	146.8	-38.1	0.0052	mg/L	0.2614	ppm
1	Sb 206.833	80.3	19.7	0.0047	mg/L	0.2357	ppm
1	Se 196.026	60.7	-23.6	-0.0022	mg/L	-0.1125	ppm
1	Tl 190.800	229.7	41.2	0.0104	mg/L	0.5208	ppm
1	V 292.402	4514.3	4351.6	0.0390	mg/L	1.951	ppm
1	Zn 213.856	5689.4	6272.8	0.0592	mg/L	2.958	ppm
2	Ag 328.068	-1004.9	69.0	0.0003	mg/L	0.0171	ppm
2	Al 308.215	390517.1	385919.5	10.58	mg/L	528.9	ppm
2	As 188.979	-10.3	-79.8	0.0253	mg/L	1.266	ppm
2	Ba 233.527	62772.5	63638.1	0.1801	mg/L	9.007	ppm
2	Be 313.107	-295.3	118.9	0.0000	mg/L	0.0021	ppm
2	Ca 227.547	562863.5	562580.1	2152	mg/L	107600	ppm
2	Cd 228.802	200.5	110.8	0.0009	mg/L	0.0437	ppm
2	Co 228.616	260.1	676.8	0.0064	mg/L	0.3199	ppm
2	Cr 267.716	2494.1	2653.9	0.0293	mg/L	1.467	ppm
2	Cu 324.754	3821.6	1534.7	0.0048	mg/L	0.2409	ppm
2	Fe 273.955	1053644.2	1050654.4	21.10	mg/L	1055	ppm
2	Mg 279.079	1013490.8	1012894.6	31.89	mg/L	1595	ppm
2	Mn 257.610	1172415.6	1171294.9	0.7379	mg/L	36.90	ppm
2	Mo 202.030	-99.5	-71.0	-0.0038	mg/L	-0.1881	ppm
2	Ni 231.604	986.1	710.9	0.0140	mg/L	0.7023	ppm
2	Pb 220.353	143.4	-41.5	0.0049	mg/L	0.2462	ppm
2	Sb 206.833	68.1	7.4	0.0018	mg/L	0.0887	ppm
2	Se 196.026	67.2	-17.1	0.0002	mg/L	0.0076	ppm
2	Tl 190.800	223.5	35.0	0.0095	mg/L	0.4772	ppm
2	V 292.402	4693.1	4530.4	0.0406	mg/L	2.032	ppm
2	Zn 213.856	5705.7	6289.1	0.0593	mg/L	2.966	ppm
3	Ag 328.068	-792.9	281.1	0.0014	mg/L	0.0697	ppm
3	Al 308.215	385876.9	381279.4	10.45	mg/L	522.5	ppm
3	As 188.979	-4.0	-73.5	0.0277	mg/L	1.385	ppm
3	Ba 233.527	62515.8	63381.4	0.1794	mg/L	8.971	ppm
3	Be 313.107	-279.3	134.9	0.0000	mg/L	0.0024	ppm
3	Ca 227.547	562448.5	562165.1	2150	mg/L	107500	ppm
3	Cd 228.802	214.7	125.0	0.0010	mg/L	0.0493	ppm
3	Co 228.616	251.6	668.3	0.0063	mg/L	0.3159	ppm
3	Cr 267.716	2480.1	2639.9	0.0292	mg/L	1.460	ppm
3	Cu 324.754	3584.5	1297.5	0.0041	mg/L	0.2037	ppm
3	Fe 273.955	1038057.1	1035067.2	20.79	mg/L	1039	ppm
3	Mg 279.079	1007650.3	1007054.1	31.71	mg/L	1585	ppm
3	Mn 257.610	1170343.6	1169222.9	0.7366	mg/L	36.83	ppm
3	Mo 202.030	-101.8	-73.3	-0.0039	mg/L	-0.1941	ppm
3	Ni 231.604	996.2	721.0	0.0142	mg/L	0.7123	ppm
3	Pb 220.353	148.2	-36.7	0.0052	mg/L	0.2620	ppm
3	Sb 206.833	59.9	-0.7	-0.0002	mg/L	-0.0087	ppm
3	Se 196.026	61.4	-22.9	-0.0021	mg/L	-0.1038	ppm
3	Tl 190.800	236.9	48.3	0.0135	mg/L	0.6750	ppm
3	V 292.402	4618.2	4455.5	0.0400	mg/L	1.998	ppm
3	Zn 213.856	5735.5	6318.9	0.0596	mg/L	2.980	ppm

Mean Data ----------

ID: 6148-11 F=50 Seq. No.: 63 Sample No.: 43 A/S Pos: 51
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:38:03 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD

g	328.068	149.3	0.0007	0.00057	mg/L	0.0370	0.02850	ppm	77.01%
l	308.215	384040.9	10.53	0.067	mg/L	526.3	3.35	ppm	0.64%
As	188.979	-75.6	0.0271	0.00158	mg/L	1.356	0.0791	ppm	5.84%
Ba	233.527	63607.2	0.1801	0.00060	mg/L	9.003	0.0300	ppm	0.33%
e	313.107	88.2	0.0000	0.00002	mg/L	0.0016	0.00122	ppm	76.67%
a	227.547	564419.2	2159	13.6	mg/L	107900	679.1	ppm	0.63%
d	228.802	118.8	0.0009	0.00006	mg/L	0.0469	0.00288	ppm	6.14%
Co	228.616	678.5	0.0064	0.00011	mg/L	0.3207	0.00529	ppm	1.65%
r	267.716	2644.9	0.0292	0.00009	mg/L	1.462	0.0043	ppm	0.30%
u	324.754	1461.3	0.0046	0.00045	mg/L	0.2294	0.02231	ppm	9.73%
e	273.955	1044044.9	20.97	0.162	mg/L	1048	8.1	ppm	0.77%
Mg	279.079	1012551.8	31.88	0.168	mg/L	1594	8.4	ppm	0.53%
Mn	257.610	1175034.0	0.7403	0.00525	mg/L	37.01	0.263	ppm	0.71%
o	202.030	-73.2	-0.0039	0.00011	mg/L	-0.1939	0.00572	ppm	2.95%
i	231.604	722.7	0.0143	0.00025	mg/L	0.7140	0.01267	ppm	1.77%
Pb	220.353	-38.8	0.0051	0.00018	mg/L	0.2566	0.00896	ppm	3.49%
Sb	206.833	8.8	0.0021	0.00246	mg/L	0.1052	0.12302	ppm	116.91%
e	196.026	-21.2	-0.0014	0.00134	mg/L	-0.0695	0.06697	ppm	96.32%
l	190.800	41.5	0.0112	0.00208	mg/L	0.5576	0.10394	ppm	18.64%
v	292.402	4445.8	0.0399	0.00081	mg/L	1.994	0.0403	ppm	2.02%
Zn	213.856	6293.6	0.0594	0.00022	mg/L	2.968	0.0110	ppm	0.37%

eplicate Data

D: 6148-12 F=50 Date: 11/21/02 2:41:15 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-3054.0	-1980.0	-0.0098	mg/L	-0.4908	ppm
1	Al 308.215	6691381.0	6686783.4	183.3	mg/L	9164	ppm
1	As 188.979	334.5	265.0	0.1244	mg/L	6.221	ppm
1	Ba 233.527	287959.2	288824.8	0.8176	mg/L	40.88	ppm
1	Be 313.107	13144.3	13558.5	0.0049	mg/L	0.2447	ppm
1	Ca 227.547	182834.4	182550.9	705.0	mg/L	35250	ppm
1	Cd 228.802	513.6	423.8	0.0033	mg/L	0.1673	ppm
1	Co 228.616	14032.6	14449.3	0.1366	mg/L	6.829	ppm
1	Cr 267.716	29344.7	29504.5	0.3187	mg/L	15.93	ppm
1	Cu 324.754	60324.0	58037.1	0.1962	mg/L	9.810	ppm
1	Fe 273.955	15243343.8	15240354.0	306.1	mg/L	15300	ppm
1	Mg 279.079	3079831.3	3079235.1	96.95	mg/L	4848	ppm
1	Mn 257.610	6026417.5	6025296.8	3.796	mg/L	189.8	ppm
1	Mo 202.030	166.0	194.5	-0.0016	mg/L	-0.0788	ppm
1	Ni 231.604	14432.1	14156.9	0.2797	mg/L	13.99	ppm
1	Pb 220.353	2386.5	2201.6	0.1579	mg/L	7.893	ppm
1	Sb 206.833	153.1	92.5	-0.0054	mg/L	-0.2692	ppm
1	Se 196.026	-76.5	-160.8	0.0204	mg/L	1.021	ppm
1	Tl 190.800	401.7	213.1	-0.0119	mg/L	-0.5946	ppm
1	V 292.402	69517.4	69354.6	0.6220	mg/L	31.10	ppm
1	Zn 213.856	168074.5	168657.9	1.558	mg/L	77.91	ppm
2	Ag 328.068	-2722.5	-1648.5	-0.0082	mg/L	-0.4086	ppm
2	Al 308.215	6707554.0	6702956.4	183.7	mg/L	9186	ppm
2	As 188.979	260.4	191.0	0.0952	mg/L	4.759	ppm
2	Ba 233.527	279790.7	280656.3	0.7945	mg/L	39.72	ppm
2	Be 313.107	12747.2	13161.4	0.0047	mg/L	0.2375	ppm
2	Ca 227.547	175290.4	175006.9	676.1	mg/L	33810	ppm
2	Cd 228.802	484.3	394.6	0.0031	mg/L	0.1557	ppm
2	Co 228.616	13613.9	14030.6	0.1326	mg/L	6.631	ppm
2	Cr 267.716	28399.2	28559.0	0.3082	mg/L	15.41	ppm
2	Cu 324.754	58327.4	56040.5	0.1900	mg/L	9.499	ppm
2	Fe 273.955	15283938.9	15280949.0	306.9	mg/L	15340	ppm
2	Mg 279.079	2989039.2	2988443.0	94.09	mg/L	4705	ppm
2	Mn 257.610	5982067.7	5980947.0	3.768	mg/L	188.4	ppm
2	Mo 202.030	139.1	167.6	-0.0030	mg/L	-0.1517	ppm
2	Ni 231.604	14067.2	13792.0	0.2725	mg/L	13.63	ppm
2	Pb 220.353	2254.9	2070.0	0.1490	mg/L	7.448	ppm
2	Sb 206.833	134.4	73.8	-0.0096	mg/L	-0.4801	ppm
2	Se 196.026	-150.4	-234.7	-0.0062	mg/L	-0.3104	ppm
2	Tl 190.800	407.6	219.0	-0.0103	mg/L	-0.5162	ppm
2	V 292.402	66898.3	66735.6	0.5985	mg/L	29.93	ppm
2	Zn 213.856	162204.6	162788.0	1.503	mg/L	75.14	ppm

3	Ag 328.068	-2930.9	-1857.0	-0.0092	mg/L	-0.4603 ppm
3	Al 308.215	6634173.7	6629576.1	181.7	mg/L	9085 ppm
3	As 188.979	308.2	238.8	0.1143	mg/L	5.716 ppm
3	Ba 233.527	289350.8	290216.4	0.8215	mg/L	41.08 ppm
3	Be 313.107	13155.9	13570.1	0.0049	mg/L	0.2449 ppm
3	Ca 227.547	181826.0	181542.5	701.1	mg/L	35050 ppm
3	Cd 228.802	424.7	335.0	0.0026	mg/L	0.1322 ppm
3	Co 228.616	13916.2	14332.9	0.1355	mg/L	6.774 ppm
3	Cr 267.716	29658.3	29818.1	0.3222	mg/L	16.11 ppm
3	Cu 324.754	61061.3	58774.4	0.1985	mg/L	9.923 ppm
3	Fe 273.955	15179823.4	15176833.6	304.8	mg/L	15240 ppm
3	Mg 279.079	3076312.5	3075716.4	96.84	mg/L	4842 ppm
3	Mn 257.610	5907680.0	5906559.3	3.721	mg/L	186.1 ppm
3	Mo 202.030	216.9	245.4	0.0012	mg/L	0.0584 ppm
3	Ni 231.604	14029.1	13753.9	0.2718	mg/L	13.59 ppm
3	Pb 220.353	2423.8	2238.9	0.1603	mg/L	8.013 ppm
3	Sb 206.833	154.4	93.8	-0.0051	mg/L	-0.2537 ppm
3	Se 196.026	-194.1	-278.4	-0.0226	mg/L	-1.129 ppm
3	Tl 190.800	379.2	190.7	-0.0180	mg/L	-0.9011 ppm
3	V 292.402	69660.3	69497.5	0.6233	mg/L	31.16 ppm
3	Zn 213.856	167782.4	168365.8	1.556	mg/L	77.78 ppm

Mean Data

ID: 6148-12 F=50 Seq. No.: 64 Sample No.: 44 A/S Pos: 52
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:41:15 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-1828.5	-0.0091	0.00083	mg/L	-0.4532	0.04153	ppm	9.16%
Al 308.215	6673105.3	182.9	1.06	mg/L	9145	52.8	ppm	0.58%
As 188.979	231.6	0.1113	0.01485	mg/L	5.565	0.7427	ppm	13.34%
Ba 233.527	286565.9	0.8112	0.01462	mg/L	40.56	0.731	ppm	1.80%
Be 313.107	13430.0	0.0048	0.00008	mg/L	0.2423	0.00420	ppm	1.73%
Ca 227.547	179700.1	694.1	15.65	mg/L	34700	782.4	ppm	2.25%
Cd 228.802	384.5	0.0030	0.00036	mg/L	0.1517	0.01788	ppm	11.78%
Co 228.616	14270.9	0.1349	0.00204	mg/L	6.745	0.1022	ppm	1.51%
Cr 267.716	29293.9	0.3163	0.00727	mg/L	15.82	0.364	ppm	2.30%
Cu 324.754	57617.3	0.1949	0.00440	mg/L	9.744	0.2198	ppm	2.26%
Fe 273.955	15232712.2	305.9	1.05	mg/L	15300	52.7	ppm	0.34%
Mg 279.079	3047798.2	95.96	1.619	mg/L	4798	81.0	ppm	1.69%
Mn 257.610	5970934.4	3.762	0.0378	mg/L	188.1	1.89	ppm	1.00%
Mo 202.030	202.5	-0.0011	0.00213	mg/L	-0.0574	0.10671	ppm	185.96%
Ni 231.604	13900.9	0.2747	0.00440	mg/L	13.73	0.220	ppm	1.60%
Pb 220.353	2170.2	0.1557	0.00595	mg/L	7.785	0.2974	ppm	3.82%
Sb 206.833	86.7	-0.0067	0.00253	mg/L	-0.3343	0.12647	ppm	37.83%
Se 196.026	-224.6	-0.0028	0.02170	mg/L	-0.1394	1.08519	ppm	778.40%
Tl 190.800	207.6	-0.0134	0.00407	mg/L	-0.6706	0.20337	ppm	30.32%
V 292.402	68529.2	0.6146	0.01395	mg/L	30.73	0.697	ppm	2.27%
Zn 213.856	166603.9	1.539	0.0313	mg/L	76.95	1.564	ppm	2.03%

Replicate Data

ID: 6148-13 F=50 Date: 11/21/02 2:44:14 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-1311.5	-237.6	-0.0012	mg/L	-0.0589	ppm
1	Al 308.215	1584681.5	1580083.9	43.31	mg/L	2165	ppm
1	As 188.979	5.6	-63.8	0.0370	mg/L	1.849	ppm
1	Ba 233.527	149836.0	150701.6	0.4266	mg/L	21.33	ppm
1	Be 313.107	718.4	1132.6	0.0004	mg/L	0.0204	ppm
1	Ca 227.547	621633.1	621349.7	2376	mg/L	118800	ppm
1	Cd 228.802	376.9	287.2	0.0023	mg/L	0.1133	ppm
1	Co 228.616	1928.4	2345.1	0.0222	mg/L	1.108	ppm
1	Cr 267.716	8017.0	8176.7	0.0904	mg/L	4.521	ppm
1	Cu 324.754	13376.8	11089.9	0.0348	mg/L	1.741	ppm
1	Fe 273.955	2623290.7	2620300.8	52.62	mg/L	2631	ppm
1	Mg 279.079	2161027.1	2160431.0	68.02	mg/L	3401	ppm
1	Mn 257.610	2011958.2	2010837.4	1.267	mg/L	63.34	ppm
1	Mo 202.030	-81.7	-53.2	-0.0028	mg/L	-0.1410	ppm
1	Ni 231.604	2595.5	2320.3	0.0459	mg/L	2.293	ppm

1	Pb 220.353	588.0	403.1	0.0379	mg/L	1.893 ppm
1	Sb 206.833	104.2	43.6	0.0057	mg/L	0.2854 ppm
1	Se 196.026	54.6	-29.6	0.0019	mg/L	0.0967 ppm
1	Tl 190.800	267.1	78.6	0.0112	mg/L	0.5588 ppm
1	V 292.402	12856.6	12693.9	0.1138	mg/L	5.692 ppm
1	Zn 213.856	19812.6	20396.0	0.1868	mg/L	9.340 ppm
2	Ag 328.068	-1003.4	70.5	0.0003	mg/L	0.0175 ppm
2	Al 308.215	1640760.2	1636162.6	44.84	mg/L	2242 ppm
2	As 188.979	4.8	-64.6	0.0385	mg/L	1.924 ppm
2	Ba 233.527	149169.2	150034.8	0.4247	mg/L	21.24 ppm
2	Be 313.107	377.9	792.1	0.0003	mg/L	0.0143 ppm
2	Ca 227.547	640457.0	640173.5	2448	mg/L	122400 ppm
2	Cd 228.802	396.2	306.5	0.0024	mg/L	0.1209 ppm
2	Co 228.616	1948.7	2365.4	0.0224	mg/L	1.118 ppm
2	Cr 267.716	8050.0	8209.8	0.0908	mg/L	4.539 ppm
2	Cu 324.754	13584.8	11297.8	0.0355	mg/L	1.773 ppm
2	Fe 273.955	2692220.7	2689230.8	54.01	mg/L	2700 ppm
2	Mg 279.079	2214077.2	2213481.1	69.69	mg/L	3485 ppm
2	Mn 257.610	2068071.2	2066950.5	1.302	mg/L	65.11 ppm
2	Mo 202.030	-79.7	-51.2	-0.0027	mg/L	-0.1356 ppm
2	Ni 231.604	2597.0	2321.8	0.0459	mg/L	2.294 ppm
2	Pb 220.353	581.6	396.7	0.0378	mg/L	1.888 ppm
2	Sb 206.833	101.2	40.6	0.0049	mg/L	0.2463 ppm
2	Se 196.026	49.1	-35.2	0.0002	mg/L	0.0107 ppm
2	Tl 190.800	273.2	84.7	0.0126	mg/L	0.6306 ppm
2	V 292.402	12884.7	12721.9	0.1141	mg/L	5.705 ppm
2	Zn 213.856	19758.2	20341.6	0.1861	mg/L	9.307 ppm
3	Ag 328.068	-1285.5	-211.5	-0.0010	mg/L	-0.0524 ppm
3	Al 308.215	1616702.8	1612105.2	44.19	mg/L	2209 ppm
3	As 188.979	10.7	-58.7	0.0395	mg/L	1.977 ppm
3	Ba 233.527	144839.6	145705.2	0.4124	mg/L	20.62 ppm
3	Be 313.107	521.2	935.4	0.0003	mg/L	0.0169 ppm
3	Ca 227.547	628034.5	627751.0	2401	mg/L	120000 ppm
3	Cd 228.802	380.0	290.2	0.0023	mg/L	0.1145 ppm
3	Co 228.616	1949.0	2365.7	0.0224	mg/L	1.118 ppm
3	Cr 267.716	7773.6	7933.4	0.0877	mg/L	4.386 ppm
3	Cu 324.754	13324.2	11037.2	0.0346	mg/L	1.732 ppm
3	Fe 273.955	2661011.1	2658021.2	53.38	mg/L	2669 ppm
3	Mg 279.079	2180666.9	2180070.8	68.64	mg/L	3432 ppm
3	Mn 257.610	2023641.0	2022520.3	1.274	mg/L	63.71 ppm
3	Mo 202.030	-86.6	-58.1	-0.0031	mg/L	-0.1539 ppm
3	Ni 231.604	2605.3	2330.1	0.0460	mg/L	2.302 ppm
3	Pb 220.353	580.7	395.8	0.0375	mg/L	1.875 ppm
3	Sb 206.833	85.4	24.7	0.0012	mg/L	0.0623 ppm
3	Se 196.026	38.7	-45.6	-0.0037	mg/L	-0.1846 ppm
3	Tl 190.800	264.1	75.6	0.0101	mg/L	0.5049 ppm
3	V 292.402	12417.7	12255.0	0.1099	mg/L	5.496 ppm
3	Zn 213.856	19090.5	19673.9	0.1799	mg/L	8.995 ppm

ean Data ----------

D: 6148-13 F=50 Seq. No.: 65 Sample No.: 45 A/S Pos: 53
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:44:14 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-126.2	-0.0006	0.00085	mg/L	-0.0313	0.04235	ppm	135.41%
l 308.215	1609450.6	44.11	0.771	mg/L	2206	38.6	ppm	1.75%
s 188.979	-62.4	0.0383	0.00129	mg/L	1.917	0.0644	ppm	3.36%
ba 233.527	148813.9	0.4212	0.00768	mg/L	21.06	0.384	ppm	1.82%
Be 313.107	953.4	0.0003	0.00006	mg/L	0.0172	0.00309	ppm	17.93%
a 227.547	629758.1	2409	36.6	mg/L	120400	1830.3	ppm	1.52%
d 228.802	294.6	0.0023	0.00008	mg/L	0.1163	0.00410	ppm	3.52%
o 228.616	2358.7	0.0223	0.00011	mg/L	1.115	0.0056	ppm	0.50%
Cr 267.716	8106.6	0.0896	0.00167	mg/L	4.482	0.0835	ppm	1.86%
u 324.754	11141.7	0.0350	0.00043	mg/L	1.749	0.0216	ppm	1.24%
e 273.955	2655851.0	53.34	0.693	mg/L	2667	34.7	ppm	1.30%
g 279.079	2184660.9	68.78	0.844	mg/L	3439	42.2	ppm	1.23%
Mn 257.610	2033436.1	1.281	0.0187	mg/L	64.06	0.933	ppm	1.46%
Mo 202.030	-54.2	-0.0029	0.00019	mg/L	-0.1435	0.00942	ppm	6.57%

Ni 231.604	2324.1	0.0459	0.00010 mg/L	2.296	0.0052 ppm	0.23%
Pb 220.353	398.5	0.0377	0.00018 mg/L	1.885	0.0092 ppm	0.49%
Sb 206.833	36.3	0.0040	0.00238 mg/L	0.1980	0.11916 ppm	60.19%
Se 196.026	-36.8	-0.0005	0.00288 mg/L	-0.0257	0.14416 ppm	560.37%
Tl 190.800	79.6	0.0113	0.00126 mg/L	0.5648	0.06306 ppm	11.16%
V 292.402	12556.9	0.1126	0.00235 mg/L	5.631	0.1174 ppm	2.09%
Zn 213.856	20137.2	0.1843	0.00380 mg/L	9.214	0.1901 ppm	2.06%

Replicate Data
ID: 6148-14 F=50 Date: 11/21/02 2:47:45 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-1311.7	-237.8	-0.0012	mg/L	-0.0589	ppm
1	Al 308.215	1450111.3	1445513.7	39.62	mg/L	1981	ppm
1	As 188.979	0.3	-69.2	0.0440	mg/L	2.201	ppm
1	Ba 233.527	149308.6	150174.2	0.4251	mg/L	21.25	ppm
1	Be 313.107	1022.1	1436.3	0.0005	mg/L	0.0259	ppm
1	Ca 227.547	713486.5	713203.0	2728	mg/L	136400	ppm
1	Cd 228.802	350.7	260.9	0.0021	mg/L	0.1030	ppm
1	Co 228.616	1918.2	2334.9	0.0221	mg/L	1.104	ppm
1	Cr 267.716	8331.4	8491.2	0.0939	mg/L	4.695	ppm
1	Cu 324.754	9503.9	7217.0	0.0227	mg/L	1.133	ppm
1	Fe 273.955	2343579.4	2340589.6	47.00	mg/L	2350	ppm
1	Mg 279.079	2158072.2	2157476.0	67.93	mg/L	3396	ppm
1	Mn 257.610	1915835.9	1914715.2	1.206	mg/L	60.32	ppm
1	Mo 202.030	-107.7	-79.2	-0.0042	mg/L	-0.2097	ppm
1	Ni 231.604	2866.3	2591.1	0.0512	mg/L	2.560	ppm
1	Pb 220.353	304.3	119.4	0.0199	mg/L	0.9961	ppm
1	Sb 206.833	98.5	37.8	0.0063	mg/L	0.3159	ppm
1	Se 196.026	45.1	-39.2	-0.0030	mg/L	-0.1478	ppm
1	Tl 190.800	258.9	70.4	0.0108	mg/L	0.5411	ppm
1	V 292.402	11389.6	11226.9	0.1007	mg/L	5.034	ppm
1	Zn 213.856	15469.4	16052.8	0.1464	mg/L	7.322	ppm
2	Ag 328.068	-864.8	209.2	0.0010	mg/L	0.0518	ppm
2	Al 308.215	1407263.8	1402666.3	38.44	mg/L	1922	ppm
2	As 188.979	1.5	-67.9	0.0429	mg/L	2.146	ppm
2	Ba 233.527	144974.2	145839.8	0.4128	mg/L	20.64	ppm
2	Be 313.107	993.6	1407.8	0.0005	mg/L	0.0254	ppm
2	Ca 227.547	697396.6	697113.1	2666	mg/L	133300	ppm
2	Cd 228.802	371.9	282.2	0.0022	mg/L	0.1114	ppm
2	Co 228.616	1923.8	2340.5	0.0221	mg/L	1.106	ppm
2	Cr 267.716	7993.2	8153.0	0.0902	mg/L	4.508	ppm
2	Cu 324.754	9288.7	7001.8	0.0220	mg/L	1.099	ppm
2	Fe 273.955	2273779.8	2270789.9	45.60	mg/L	2280	ppm
2	Mg 279.079	2101595.9	2100999.7	66.15	mg/L	3308	ppm
2	Mn 257.610	1866589.7	1865468.9	1.175	mg/L	58.76	ppm
2	Mo 202.030	-100.6	-72.0	-0.0038	mg/L	-0.1908	ppm
2	Ni 231.604	2870.0	2594.8	0.0513	mg/L	2.564	ppm
2	Pb 220.353	292.0	107.1	0.0188	mg/L	0.9409	ppm
2	Sb 206.833	81.9	21.3	0.0025	mg/L	0.1232	ppm
2	Se 196.026	48.3	-36.0	-0.0021	mg/L	-0.1073	ppm
2	Tl 190.800	254.9	66.4	0.0100	mg/L	0.4988	ppm
2	V 292.402	11009.6	10846.9	0.0973	mg/L	4.864	ppm
2	Zn 213.856	15565.0	16148.4	0.1475	mg/L	7.374	ppm
3	Ag 328.068	-1322.3	-248.4	-0.0012	mg/L	-0.0616	ppm
3	Al 308.215	1470127.4	1465529.9	40.17	mg/L	2008	ppm
3	As 188.979	2.5	-66.9	0.0463	mg/L	2.314	ppm
3	Ba 233.527	150032.7	150898.3	0.4271	mg/L	21.36	ppm
3	Be 313.107	1018.8	1433.0	0.0005	mg/L	0.0259	ppm
3	Ca 227.547	727729.1	727445.6	2782	mg/L	139100	ppm
3	Cd 228.802	361.4	271.6	0.0021	mg/L	0.1072	ppm
3	Co 228.616	1903.3	2320.0	0.0219	mg/L	1.097	ppm
3	Cr 267.716	8381.3	8541.1	0.0944	mg/L	4.722	ppm
3	Cu 324.754	9478.0	7191.1	0.0226	mg/L	1.129	ppm
3	Fe 273.955	2350584.6	2347594.8	47.14	mg/L	2357	ppm
3	Mg 279.079	2177717.8	2177121.7	68.55	mg/L	3427	ppm
3	Mn 257.610	1939829.6	1938708.9	1.221	mg/L	61.07	ppm
3	Mo 202.030	-113.1	-84.6	-0.0045	mg/L	-0.2240	ppm

3	Ni 231.604	2854.6	2579.3	0.0510	mg/L	2.548 ppm
3	Pb 220.353	305.2	120.3	0.0202	mg/L	1.011 ppm
3	Sb 206.833	80.2	19.6	0.0019	mg/L	0.0966 ppm
3	Se 196.026	59.6	-24.7	0.0023	mg/L	0.1161 ppm
3	Tl 190.800	261.2	72.7	0.0115	mg/L	0.5738 ppm
3	V 292.402	11609.4	11446.7	0.1027	mg/L	5.133 ppm
3	Zn 213.856	15661.3	16244.7	0.1482	mg/L	7.411 ppm

Mean Data

D: 6148-14 F=50 Seq. No.: 66 Sample No.: 46 A/S Pos: 54
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:47:45 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	-92.3	-0.0005	0.00129	mg/L	-0.0229	0.06473	ppm	282.86%
Al 308.215	1437903.3	39.41	0.880	mg/L	1971	44.0	ppm	2.23%
s 188.979	-68.0	0.0444	0.00172	mg/L	2.221	0.0858	ppm	3.86%
a 233.527	148970.8	0.4217	0.00774	mg/L	21.08	0.387	ppm	1.84%
Be 313.107	1425.7	0.0005	0.00001	mg/L	0.0257	0.00028	ppm	1.09%
Ca 227.547	712587.2	2725	58.0	mg/L	136300	2902.1	ppm	2.13%
d 228.802	271.6	0.0021	0.00008	mg/L	0.1072	0.00419	ppm	3.91%
o 228.616	2331.8	0.0220	0.00010	mg/L	1.102	0.0050	ppm	0.46%
r 267.716	8395.1	0.0928	0.00233	mg/L	4.641	0.1167	ppm	2.52%
Cu 324.754	7136.6	0.0224	0.00037	mg/L	1.120	0.0184	ppm	1.65%
Fe 273.955	2319658.1	46.58	0.853	mg/L	2329	42.6	ppm	1.83%
g 279.079	2145199.1	67.54	1.244	mg/L	3377	62.2	ppm	1.84%
n 257.610	1906297.7	1.201	0.0235	mg/L	60.05	1.176	ppm	1.96%
Mo 202.030	-78.6	-0.0042	0.00033	mg/L	-0.2082	0.01663	ppm	7.99%
Ni 231.604	2588.4	0.0511	0.00016	mg/L	2.557	0.0080	ppm	0.31%
b 220.353	115.6	0.0197	0.00074	mg/L	0.9825	0.03679	ppm	3.74%
b 206.833	26.2	0.0036	0.00239	mg/L	0.1786	0.11965	ppm	67.00%
Se 196.026	-33.3	-0.0009	0.00284	mg/L	-0.0464	0.14212	ppm	306.58%
Tl 190.800	69.8	0.0108	0.00075	mg/L	0.5379	0.03763	ppm	6.99%
292.402	11173.5	0.1002	0.00272	mg/L	5.011	0.1361	ppm	2.72%
n 213.856	16148.7	0.1474	0.00090	mg/L	7.369	0.0451	ppm	0.61%

Replicate Data

D: 6148-15 F=50 Date: 11/21/02 2:51:12 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-859.6	214.3	0.0011	mg/L	0.0531	ppm
1	Al 308.215	386963.5	382365.9	10.48	mg/L	524.0	ppm
1	As 188.979	-2.8	-72.2	0.0316	mg/L	1.578	ppm
1	Ba 233.527	67113.9	67979.5	0.1924	mg/L	9.621	ppm
1	Be 313.107	-469.9	-55.6	0.0000	mg/L	-0.0010	ppm
1	Ca 227.547	596419.6	596136.1	2280	mg/L	114000	ppm
1	Cd 228.802	210.4	120.6	0.0010	mg/L	0.0476	ppm
1	Co 228.616	222.9	639.6	0.0060	mg/L	0.3023	ppm
1	Cr 267.716	2605.3	2765.1	0.0306	mg/L	1.529	ppm
1	Cu 324.754	3855.0	1568.1	0.0049	mg/L	0.2461	ppm
1	Fe 273.955	1046248.4	1043258.6	20.95	mg/L	1048	ppm
1	Mg 279.079	981271.9	980675.7	30.88	mg/L	1544	ppm
1	Mn 257.610	1458993.2	1457872.5	0.9185	mg/L	45.92	ppm
1	Mo 202.030	-106.2	-77.7	-0.0041	mg/L	-0.2059	ppm
1	Ni 231.604	1024.7	749.5	0.0148	mg/L	0.7405	ppm
1	Pb 220.353	139.3	-45.6	0.0051	mg/L	0.2553	ppm
1	Sb 206.833	68.9	8.3	0.0020	mg/L	0.0989	ppm
1	Se 196.026	70.2	-14.1	0.0012	mg/L	0.0583	ppm
1	Tl 190.800	230.6	42.1	0.0119	mg/L	0.5942	ppm
1	V 292.402	4780.7	4618.0	0.0414	mg/L	2.071	ppm
1	Zn 213.856	5371.0	5954.4	0.0562	mg/L	2.808	ppm
2	Ag 328.068	-867.3	206.7	0.0010	mg/L	0.0512	ppm
2	Al 308.215	383730.5	379133.0	10.39	mg/L	519.6	ppm
2	As 188.979	-4.1	-73.5	0.0298	mg/L	1.490	ppm
2	Ba 233.527	66606.8	67472.4	0.1910	mg/L	9.550	ppm
2	Be 313.107	-402.4	11.8	0.0000	mg/L	0.0002	ppm
2	Ca 227.547	583710.3	583426.8	2231	mg/L	111600	ppm
2	Cd 228.802	212.3	122.5	0.0010	mg/L	0.0484	ppm

2 Co 228.616	228.8	645.5	0.0061	mg/L	0.3051 ppm
2 Cr 267.716	2600.1	2759.9	0.0305	mg/L	1.526 ppm
2 Cu 324.754	3729.6	1442.7	0.0045	mg/L	0.2264 ppm
2 Fe 273.955	1039187.5	1036197.6	20.81	mg/L	1040 ppm
2 Mg 279.079	966631.7	966035.5	30.42	mg/L	1521 ppm
2 Mn 257.610	1429333.6	1428212.8	0.8998	mg/L	44.99 ppm
2 Mo 202.030	-107.6	-79.1	-0.0042	mg/L	-0.2096 ppm
2 Ni 231.604	994.7	719.5	0.0142	mg/L	0.7109 ppm
2 Pb 220.353	142.9	-42.0	0.0052	mg/L	0.2587 ppm
2 Sb 206.833	64.8	4.1	0.0010	mg/L	0.0493 ppm
2 Se 196.026	64.7	-19.6	-0.0008	mg/L	-0.0423 ppm
2 Tl 190.800	225.7	37.2	0.0104	mg/L	0.5207 ppm
2 V 292.402	4725.2	4562.5	0.0409	mg/L	2.046 ppm
2 Zn 213.856	5413.0	5996.4	0.0566	mg/L	2.828 ppm
3 Ag 328.068	-978.1	95.8	0.0005	mg/L	0.0238 ppm
3 Al 308.215	378080.2	373482.6	10.24	mg/L	511.8 ppm
3 As 188.979	-0.2	-69.6	0.0311	mg/L	1.553 ppm
3 Ba 233.527	65151.2	66016.8	0.1869	mg/L	9.344 ppm
3 Be 313.107	-321.3	92.9	0.0000	mg/L	0.0017 ppm
3 Ca 227.547	581337.5	581054.1	2222	mg/L	111100 ppm
3 Cd 228.802	176.5	86.8	0.0007	mg/L	0.0342 ppm
3 Co 228.616	240.0	656.7	0.0062	mg/L	0.3104 ppm
3 Cr 267.716	2584.0	2743.8	0.0303	mg/L	1.517 ppm
3 Cu 324.754	3878.2	1591.3	0.0050	mg/L	0.2498 ppm
3 Fe 273.955	1022988.2	1019998.4	20.48	mg/L	1024 ppm
3 Mg 279.079	959053.8	958457.6	30.18	mg/L	1509 ppm
3 Mn 257.610	1421121.7	1420001.0	0.8946	mg/L	44.73 ppm
3 Mo 202.030	-103.8	-75.3	-0.0040	mg/L	-0.1993 ppm
3 Ni 231.604	1004.2	729.0	0.0144	mg/L	0.7203 ppm
3 Pb 220.353	153.3	-31.6	0.0058	mg/L	0.2920 ppm
3 Sb 206.833	61.2	0.6	0.0001	mg/L	0.0066 ppm
3 Se 196.026	59.5	-24.8	-0.0028	mg/L	-0.1425 ppm
3 Tl 190.800	232.9	44.4	0.0126	mg/L	0.6277 ppm
3 V 292.402	4574.6	4411.9	0.0396	mg/L	1.978 ppm
3 Zn 213.856	5358.6	5942.0	0.0560	mg/L	2.802 ppm

Mean Data ----------

ID: 6148-15 F=50 Seq. No.: 67 Sample No.: 47 A/S Pos: 55
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 2:51:12 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	172.3	0.0009	0.00033	mg/L	0.0427	0.01643	ppm	38.49%
Al 308.215	378327.2	10.37	0.123	mg/L	518.5	6.16	ppm	1.19%
As 188.979	-71.8	0.0308	0.00091	mg/L	1.540	0.0455	ppm	2.95%
Ba 233.527	67156.2	0.1901	0.00288	mg/L	9.505	0.1442	ppm	1.52%
Be 313.107	16.3	0.0000	0.00003	mg/L	0.0003	0.00134	ppm	455.09%
Ca 227.547	586872.3	2245	31.0	mg/L	112200	1550.9	ppm	1.38%
Cd 228.802	110.0	0.0009	0.00016	mg/L	0.0434	0.00794	ppm	18.29%
Co 228.616	647.3	0.0061	0.00008	mg/L	0.3059	0.00411	ppm	1.35%
Cr 267.716	2756.3	0.0305	0.00012	mg/L	1.524	0.0061	ppm	0.40%
Cu 324.754	1534.0	0.0048	0.00025	mg/L	0.2408	0.01255	ppm	5.21%
Fe 273.955	1033151.5	20.75	0.239	mg/L	1037	12.0	ppm	1.15%
Mg 279.079	968389.6	30.49	0.356	mg/L	1525	17.8	ppm	1.17%
Mn 257.610	1435362.1	0.9043	0.01255	mg/L	45.22	0.628	ppm	1.39%
Mo 202.030	-77.4	-0.0041	0.00010	mg/L	-0.2049	0.00522	ppm	2.55%
Ni 231.604	732.7	0.0145	0.00030	mg/L	0.7239	0.01512	ppm	2.09%
Pb 220.353	-39.7	0.0054	0.00041	mg/L	0.2687	0.02031	ppm	7.56%
Sb 206.833	4.3	0.0010	0.00092	mg/L	0.0516	0.04618	ppm	89.52%
Se 196.026	-19.5	-0.0008	0.00201	mg/L	-0.0421	0.10041	ppm	238.25%
Tl 190.800	41.2	0.0116	0.00109	mg/L	0.5809	0.05474	ppm	9.42%
V 292.402	4530.8	0.0406	0.00096	mg/L	2.032	0.0478	ppm	2.35%
Zn 213.856	5964.3	0.0563	0.00027	mg/L	2.813	0.0135	ppm	0.48%

Replicate Data ----------

ID: 6233-1 F=50 Date: 11/21/02 2:54:24 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units

1	Ag 328.068	-2180.7	-1106.7	-0.0055	mg/L	-0.2743 ppm
1	Al 308.215	3268033.7	3263436.1	89.45	mg/L	4472 ppm
1	As 188.979	442.4	372.9	0.1625	mg/L	8.126 ppm
1	Ba 233.527	166146.6	167012.2	0.4728	mg/L	23.64 ppm
1	Be 313.107	-2909.5	-2495.3	-0.0009	mg/L	-0.0450 ppm
1	Ca 227.547	77971.7	77688.3	303.8	mg/L	15190 ppm
1	Cd 228.802	362.4	272.6	0.0022	mg/L	0.1076 ppm
1	Co 228.616	16594.2	17010.9	0.1608	mg/L	8.040 ppm
1	Cr 267.716	52477.9	52637.7	0.5746	mg/L	28.73 ppm
1	Cu 324.754	50007.4	47720.4	0.1636	mg/L	8.178 ppm
1	Fe 273.955	14965436.6	14962446.8	300.5	mg/L	15020 ppm
1	Mg 279.079	2670438.6	2669842.5	84.06	mg/L	4203 ppm
1	Mn 257.610	8426705.8	8425585.1	5.308	mg/L	265.4 ppm
1	Mo 202.030	86.8	115.3	-0.0056	mg/L	-0.2779 ppm
1	Ni 231.604	33124.7	32849.5	0.6491	mg/L	32.46 ppm
1	Pb 220.353	6623.7	6438.8	0.4348	mg/L	21.74 ppm
1	Sb 206.833	174.2	113.6	-0.0046	mg/L	-0.2282 ppm
1	Se 196.026	-92.5	-176.8	0.0197	mg/L	0.9849 ppm
1	Tl 190.800	293.1	104.6	-0.0305	mg/L	-1.526 ppm
1	V 292.402	50069.5	49906.8	0.4476	mg/L	22.38 ppm
1	Zn 213.856	123969.0	124552.4	1.143	mg/L	57.15 ppm
2	Ag 328.068	-2142.2	-1068.2	-0.0053	mg/L	-0.2648 ppm
2	Al 308.215	3271417.5	3266819.9	89.54	mg/L	4477 ppm
2	As 188.979	444.3	374.9	0.1629	mg/L	8.144 ppm
2	Ba 233.527	165037.0	165902.6	0.4696	mg/L	23.48 ppm
2	Be 313.107	-2864.4	-2450.2	-0.0009	mg/L	-0.0442 ppm
2	Ca 227.547	77172.2	76888.7	300.6	mg/L	15030 ppm
2	Cd 228.802	352.9	263.2	0.0021	mg/L	0.1038 ppm
2	Co 228.616	16224.0	16640.7	0.1573	mg/L	7.865 ppm
2	Cr 267.716	51847.7	52007.5	0.5678	mg/L	28.39 ppm
2	Cu 324.754	49545.4	47258.5	0.1618	mg/L	8.092 ppm
2	Fe 273.955	14666240.4	14663250.6	294.5	mg/L	14720 ppm
2	Mg 279.079	2658419.3	2657823.1	83.68	mg/L	4184 ppm
2	Mn 257.610	8156071.0	8154950.3	5.138	mg/L	256.9 ppm
2	Mo 202.030	26.9	55.4	-0.0085	mg/L	-0.4247 ppm
2	Ni 231.604	32490.7	32215.5	0.6366	mg/L	31.83 ppm
2	Pb 220.353	6599.4	6414.5	0.4332	mg/L	21.66 ppm
2	Sb 206.833	191.6	131.0	0.0000	mg/L	0.0020 ppm
2	Se 196.026	-118.0	-202.3	0.0086	mg/L	0.4307 ppm
2	Tl 190.800	311.8	123.3	-0.0242	mg/L	-1.209 ppm
2	V 292.402	49699.6	49536.8	0.4443	mg/L	22.21 ppm
2	Zn 213.856	123460.3	124043.7	1.139	mg/L	56.94 ppm
3	Ag 328.068	-2075.4	-1001.5	-0.0050	mg/L	-0.2482 ppm
3	Al 308.215	3276824.9	3272227.3	89.69	mg/L	4484 ppm
3	As 188.979	502.9	433.4	0.1853	mg/L	9.264 ppm
3	Ba 233.527	165853.4	166719.0	0.4719	mg/L	23.60 ppm
3	Be 313.107	-2985.1	-2570.9	-0.0009	mg/L	-0.0464 ppm
3	Ca 227.547	77871.5	77588.0	303.1	mg/L	15160 ppm
3	Cd 228.802	382.3	292.5	0.0023	mg/L	0.1154 ppm
3	Co 228.616	17254.5	17671.2	0.1670	mg/L	8.352 ppm
3	Cr 267.716	52933.3	53093.1	0.5799	mg/L	29.00 ppm
3	Cu 324.754	49619.9	47332.9	0.1618	mg/L	8.089 ppm
3	Fe 273.955	14359945.2	14356955.3	288.3	mg/L	14420 ppm
3	Mg 279.079	2662789.2	2662193.0	83.82	mg/L	4191 ppm
3	Mn 257.610	8011526.9	8010406.2	5.047	mg/L	252.3 ppm
3	Mo 202.030	68.6	97.1	-0.0060	mg/L	-0.3023 ppm
3	Ni 231.604	34187.9	33912.7	0.6701	mg/L	33.51 ppm
3	Pb 220.353	6882.8	6698.0	0.4523	mg/L	22.61 ppm
3	Sb 206.833	173.5	112.8	-0.0044	mg/L	-0.2207 ppm
3	Se 196.026	-137.3	-221.6	-0.0002	mg/L	-0.0120 ppm
3	Tl 190.800	369.1	180.6	-0.0066	mg/L	-0.3295 ppm
3	V 292.402	50550.5	50387.8	0.4519	mg/L	22.60 ppm
3	Zn 213.856	123212.4	123795.8	1.137	mg/L	56.85 ppm

Mean Data ----------

ID: 6233-1 F=50 Seq. No.: 68 Sample No.: 48 A/S Pos: 56

Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 2:54:24 PM

	Mean Corr.	Mean	Calib	Mean	Sample

012361

Element	Intensity	Conc.	Std.Dev.	Units	Conc.	Std.Dev.	Units	RSD
Ag 328.068	-1058.8	-0.0052	0.00026	mg/L	-0.2624	0.01320	ppm	5.03%
Al 308.215	3267494.5	89.56	0.122	mg/L	4478	6.1	ppm	0.14%
As 188.979	393.7	0.1702	0.01303	mg/L	8.511	0.6516	ppm	7.66%
Ba 233.527	166544.6	0.4714	0.00163	mg/L	23.57	0.081	ppm	0.35%
Be 313.107	-2505.4	-0.0009	0.00002	mg/L	-0.0452	0.00110	ppm	2.43%
Ca 227.547	77388.3	302.5	1.69	mg/L	15120	84.3	ppm	0.56%
Cd 228.802	276.1	0.0022	0.00012	mg/L	0.1090	0.00591	ppm	5.43%
Co 228.616	17107.6	0.1617	0.00493	mg/L	8.086	0.2467	ppm	3.05%
Cr 267.716	52579.4	0.5741	0.00609	mg/L	28.71	0.305	ppm	1.06%
Cu 324.754	47437.3	0.1624	0.00101	mg/L	8.120	0.0505	ppm	0.62%
Fe 273.955	14660884.2	294.4	6.08	mg/L	14720	304.0	ppm	2.07%
Mg 279.079	2663286.2	83.85	0.192	mg/L	4193	9.6	ppm	0.23%
Mn 257.610	8196980.5	5.164	0.1328	mg/L	258.2	6.64	ppm	2.57%
Mo 202.030	89.3	-0.0067	0.00157	mg/L	-0.3350	0.07869	ppm	23.49%
Ni 231.604	32992.6	0.6519	0.01695	mg/L	32.60	0.847	ppm	2.60%
Pb 220.353	6517.1	0.4401	0.01055	mg/L	22.01	0.528	ppm	2.40%
Sb 206.833	119.2	-0.0030	0.00262	mg/L	-0.1490	0.13082	ppm	87.82%
Se 196.026	-200.2	0.0094	0.00999	mg/L	0.4679	0.49944	ppm	106.75%
Tl 190.800	136.1	-0.0204	0.01240	mg/L	-1.021	0.6198	ppm	60.68%
V 292.402	49943.8	0.4479	0.00383	mg/L	22.40	0.191	ppm	0.85%
Zn 213.856	124130.7	1.140	0.0030	mg/L	56.98	0.151	ppm	0.26%

Replicate Data

ID: 6233-2 F=50 Date: 11/21/02 2:57:07 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-2120.3	-1046.4	-0.0052	mg/L	-0.2594	ppm
1	Al 308.215	2523043.4	2518445.8	69.03	mg/L	3451	ppm
1	As 188.979	337.8	268.4	0.1174	mg/L	5.872	ppm
1	Ba 233.527	104749.2	105614.8	0.2990	mg/L	14.95	ppm
1	Be 313.107	-2504.3	-2090.1	-0.0008	mg/L	-0.0377	ppm
1	Ca 227.547	56105.3	55821.9	218.5	mg/L	10930	ppm
1	Cd 228.802	160.4	70.6	0.0006	mg/L	0.0279	ppm
1	Co 228.616	13516.4	13933.1	0.1317	mg/L	6.585	ppm
1	Cr 267.716	41138.3	41298.1	0.4510	mg/L	22.55	ppm
1	Cu 324.754	38309.3	36022.4	0.1235	mg/L	6.175	ppm
1	Fe 273.955	11332711.6	11329721.8	227.5	mg/L	11380	ppm
1	Mg 279.079	1992194.5	1991598.3	62.71	mg/L	3135	ppm
1	Mn 257.610	8981624.2	8980503.5	5.658	mg/L	282.9	ppm
1	Mo 202.030	12.6	41.1	-0.0067	mg/L	-0.3328	ppm
1	Ni 231.604	28294.5	28019.2	0.5537	mg/L	27.68	ppm
1	Pb 220.353	4033.8	3848.9	0.2598	mg/L	12.99	ppm
1	Sb 206.833	122.8	62.2	-0.0097	mg/L	-0.4831	ppm
1	Se 196.026	-172.5	-256.8	-0.0298	mg/L	-1.491	ppm
1	Tl 190.800	333.0	144.5	-0.0043	mg/L	-0.2141	ppm
1	V 292.402	41554.5	41391.7	0.3712	mg/L	18.56	ppm
1	Zn 213.856	87229.1	87812.5	0.8041	mg/L	40.21	ppm
2	Ag 328.068	-1942.5	-868.6	-0.0043	mg/L	-0.2153	ppm
2	Al 308.215	2519797.5	2515199.9	68.94	mg/L	3447	ppm
2	As 188.979	305.8	236.3	0.1054	mg/L	5.272	ppm
2	Ba 233.527	104785.4	105651.0	0.2991	mg/L	14.95	ppm
2	Be 313.107	-2804.4	-2390.2	-0.0009	mg/L	-0.0431	ppm
2	Ca 227.547	56311.1	56027.7	219.4	mg/L	10970	ppm
2	Cd 228.802	145.9	56.1	0.0004	mg/L	0.0221	ppm
2	Co 228.616	13357.9	13774.6	0.1302	mg/L	6.511	ppm
2	Cr 267.716	41380.0	41539.8	0.4535	mg/L	22.68	ppm
2	Cu 324.754	38664.3	36377.4	0.1249	mg/L	6.244	ppm
2	Fe 273.955	11621530.5	11618540.7	233.3	mg/L	11670	ppm
2	Mg 279.079	1988931.0	1988334.9	62.60	mg/L	3130	ppm
2	Mn 257.610	9309951.0	9308830.2	5.865	mg/L	293.2	ppm
2	Mo 202.030	-0.5	28.0	-0.0076	mg/L	-0.3787	ppm
2	Ni 231.604	27600.8	27325.6	0.5400	mg/L	27.00	ppm
2	Pb 220.353	3978.1	3793.2	0.2561	mg/L	12.80	ppm
2	Sb 206.833	139.5	78.9	-0.0060	mg/L	-0.2986	ppm
2	Se 196.026	-29.0	-113.3	0.0240	mg/L	1.202	ppm
2	Tl 190.800	321.2	132.6	-0.0086	mg/L	-0.4295	ppm
2	V 292.402	42066.3	41903.5	0.3758	mg/L	18.79	ppm
2	Zn 213.856	87838.6	88422.0	0.8093	mg/L	40.46	ppm

3 Ag 328.068	-1992.4	-918.5	-0.0046	mg/L	-0.2277 ppm
3 Al 308.215	2544329.5	2539732.0	69.61	mg/L	3481 ppm
3 As 188.979	353.3	283.9	0.1236	mg/L	6.179 ppm
3 Ba 233.527	105599.9	106465.5	0.3014	mg/L	15.07 ppm
3 Be 313.107	-2660.5	-2246.3	-0.0008	mg/L	-0.0405 ppm
3 Ca 227.547	57112.7	56829.2	222.4	mg/L	11120 ppm
3 Cd 228.802	145.8	56.1	0.0004	mg/L	0.0221 ppm
3 Co 228.616	13429.4	13846.1	0.1309	mg/L	6.544 ppm
3 Cr 267.716	41625.2	41785.0	0.4564	mg/L	22.82 ppm
3 Cu 324.754	39198.0	36911.1	0.1264	mg/L	6.318 ppm
3 Fe 273.955	11410820.0	11407830.1	229.1	mg/L	11450 ppm
3 Mg 279.079	2014738.7	2014142.6	63.42	mg/L	3171 ppm
3 Mn 257.610	9210072.7	9208952.0	5.802	mg/L	290.1 ppm
3 Mo 202.030	-44.8	-16.3	-0.0098	mg/L	-0.4877 ppm
3 Ni 231.604	28127.4	27852.2	0.5504	mg/L	27.52 ppm
3 Pb 220.353	4023.5	3838.6	0.2592	mg/L	12.96 ppm
3 Sb 206.833	145.3	84.7	-0.0045	mg/L	-0.2259 ppm
3 Se 196.026	-75.4	-159.7	0.0059	mg/L	0.2938 ppm
3 Tl 190.800	317.7	129.1	-0.0091	mg/L	-0.4540 ppm
3 V 292.402	42312.8	42150.1	0.3780	mg/L	18.90 ppm
3 Zn 213.856	89632.5	90215.9	0.8266	mg/L	41.33 ppm

..ean Data ----------

ID: 6233-2 F=50 Seq. No.: 69 Sample No.: 49 A/S Pos: 57

Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 2:57:07 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-944.5	-0.0047	0.00045	mg/L	-0.2341	0.02273	ppm	9.71%
. 308.215	2524459.2	69.19	0.365	mg/L	3460	18.3	ppm	0.53%
As 188.979	262.9	0.1155	0.00923	mg/L	5.774	0.4614	ppm	7.99%
Ba 233.527	105910.4	0.2998	0.00136	mg/L	14.99	0.068	ppm	0.45%
313.107	-2242.2	-0.0008	0.00005	mg/L	-0.0405	0.00271	ppm	6.69%
227.547	56226.3	220.1	2.03	mg/L	11010	101.6	ppm	0.92%
Cd 228.802	60.9	0.0005	0.00007	mg/L	0.0241	0.00331	ppm	13.78%
Co 228.616	13851.3	0.1309	0.00075	mg/L	6.547	0.0375	ppm	0.57%
267.716	41541.0	0.4536	0.00267	mg/L	22.68	0.134	ppm	0.59%
324.754	36436.9	0.1249	0.00143	mg/L	6.246	0.0716	ppm	1.15%
Fe 273.955	11452030.9	230.0	3.00	mg/L	11500	150.0	ppm	1.30%
Mg 279.079	1998025.3	62.91	0.442	mg/L	3145	22.1	ppm	0.70%
Mn 257.610	9166095.2	5.775	0.1060	mg/L	288.7	5.30	ppm	1.84%
202.030	17.6	-0.0080	0.00159	mg/L	-0.3998	0.07957	ppm	19.90%
231.604	27732.3	0.5480	0.00715	mg/L	27.40	0.358	ppm	1.31%
Pb 220.353	3826.9	0.2584	0.00201	mg/L	12.92	0.101	ppm	0.78%
Sb 206.833	75.2	-0.0067	0.00265	mg/L	-0.3359	0.13260	ppm	39.48%
196.026	-176.6	0.0000	0.02740	mg/L	0.0017	1.36996	ppm	>999.9%
190.800	135.4	-0.0073	0.00264	mg/L	-0.3658	0.13199	ppm	36.08%
V 292.402	41815.1	0.3750	0.00347	mg/L	18.75	0.173	ppm	0.93%
Zn 213.856	88816.8	0.8133	0.01179	mg/L	40.67	0.590	ppm	1.45%

..plicate Data ----------

ID: CCV 1379B Date: 11/21/02 3:00:10 PM

Repl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1 Ag 328.068	201355.9	202429.9	1.003	mg/L		
1 Al 308.215	188026.4	183428.8	5.027	mg/L		
1 As 188.979	1420.5	1351.0	0.5239	mg/L		
1 Ba 233.527	1773721.5	1774587.1	5.023	mg/L		
1 Be 313.107	1416951.5	1417365.7	0.5115	mg/L		
1 Ca 227.547	14151.7	13868.2	53.04	mg/L		
1 Cd 228.802	134672.2	134582.4	1.062	mg/L		
1 Co 228.616	225149.8	225566.5	2.132	mg/L		
1 Cr 267.716	45066.5	45226.3	0.5001	mg/L		
1 Cu 324.754	655348.9	653062.0	2.050	mg/L		
1 Fe 273.955	253137.2	250147.4	5.024	mg/L		
1 Mg 279.079	810802.3	810206.1	25.51	mg/L		
1 Mn 257.610	3323244.7	3322124.0	2.093	mg/L		
1 Mo 202.030	38667.3	38695.8	2.050	mg/L		

1	Ni 231.604	108814.3	108539.1	2.145 mg/L
1	Pb 220.353	7784.2	7599.3	0.5085 mg/L
1	Sb 206.833	8777.7	8717.0	2.070 mg/L
1	Se 196.026	1455.5	1371.2	0.4995 mg/L
1	Tl 190.800	1962.8	1774.2	0.5158 mg/L
1	V 292.402	220975.5	220812.8	1.980 mg/L
1	Zn 213.856	219045.7	219629.1	2.071 mg/L
2	Ag 328.068	204617.1	205691.1	1.020 mg/L
2	Al 308.215	190933.8	186336.2	5.107 mg/L
2	As 188.979	1419.9	1350.5	0.5237 mg/L
2	Ba 233.527	1805642.6	1806508.2	5.114 mg/L
2	Be 313.107	1441404.5	1441818.7	0.5204 mg/L
2	Ca 227.547	14075.3	13791.8	52.75 mg/L
2	Cd 228.802	136130.4	136040.7	1.074 mg/L
2	Co 228.616	227889.4	228306.1	2.158 mg/L
2	Cr 267.716	45491.7	45651.4	0.5048 mg/L
2	Cu 324.754	668315.3	666028.4	2.091 mg/L
2	Fe 273.955	255426.8	252437.0	5.069 mg/L
2	Mg 279.079	822267.3	821671.2	25.87 mg/L
2	Mn 257.610	3358910.4	3357789.6	2.115 mg/L
2	Mo 202.030	39066.3	39094.8	2.071 mg/L
2	Ni 231.604	109886.7	109611.5	2.166 mg/L
2	Pb 220.353	7762.2	7577.3	0.5070 mg/L
2	Sb 206.833	8757.3	8696.6	2.065 mg/L
2	Se 196.026	1467.6	1383.3	0.5040 mg/L
2	Tl 190.800	1935.1	1746.6	0.5078 mg/L
2	V 292.402	224205.7	224042.9	2.009 mg/L
2	Zn 213.856	221697.1	222280.5	2.096 mg/L
3	Ag 328.068	200454.6	201528.6	0.9990 mg/L
3	Al 308.215	188160.6	183563.0	5.031 mg/L
3	As 188.979	1423.4	1354.0	0.5249 mg/L
3	Ba 233.527	1830788.0	1831653.6	5.185 mg/L
3	Be 313.107	1469592.2	1470006.4	0.5305 mg/L
3	Ca 227.547	14075.8	13792.4	52.75 mg/L
3	Cd 228.802	133600.3	133510.5	1.054 mg/L
3	Co 228.616	223426.4	223843.1	2.116 mg/L
3	Cr 267.716	44396.0	44555.8	0.4927 mg/L
3	Cu 324.754	678428.6	676141.7	2.122 mg/L
3	Fe 273.955	252354.2	249364.4	5.008 mg/L
3	Mg 279.079	835794.6	835198.5	26.30 mg/L
3	Mn 257.610	3403093.2	3401972.5	2.143 mg/L
3	Mo 202.030	38889.7	38918.2	2.062 mg/L
3	Ni 231.604	108770.5	108495.3	2.144 mg/L
3	Pb 220.353	7761.6	7576.7	0.5070 mg/L
3	Sb 206.833	8816.1	8755.4	2.080 mg/L
3	Se 196.026	1476.9	1392.7	0.5073 mg/L
3	Tl 190.800	1953.0	1764.4	0.5130 mg/L
3	V 292.402	218655.0	218492.2	1.960 mg/L
3	Zn 213.856	218433.5	219016.9	2.066 mg/L

Mean Data ----------

ID: CCV 1379B Seq. No.: 70 Sample No.: 5 A/S Pos: 6
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 3:00:10 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	203216.5	1.007	0.0109	mg/L				1.08%
Al 308.215	184442.7	5.055	0.0450	mg/L				0.89%
As 188.979	1351.8	0.5242	0.00067	mg/L				0.13%
Ba 233.527	1804249.7	5.107	0.0810	mg/L				1.59%
Be 313.107	1443063.6	0.5208	0.00951	mg/L				1.83%
Ca 227.547	13817.5	52.85	0.168	mg/L				0.32%
Cd 228.802	134711.2	1.063	0.0100	mg/L				0.94%
Co 228.616	225905.2	2.135	0.0213	mg/L				1.00%
Cr 267.716	45144.5	0.4992	0.00611	mg/L				1.22%
Cu 324.754	665077.4	2.088	0.0363	mg/L				1.74%
Fe 273.955	250649.6	5.034	0.0321	mg/L				0.64%
Mg 279.079	822358.6	25.89	0.394	mg/L				1.52%
Mn 257.610	3360628.7	2.117	0.0252	mg/L				1.19%

)	202.030	38902.9	2.061	0.0106 mg/L	0.51%
.	231.604	108882.0	2.152	0.0125 mg/L	0.58%
eb	220.353	7584.4	0.5075	0.00086 mg/L	0.17%
Sb	206.833	8723.0	2.072	0.0073 mg/L	0.35%
e	196.026	1382.4	0.5036	0.00391 mg/L	0.78%
.	190.800	1761.7	0.5122	0.00408 mg/L	0.80%
.	292.402	221116.0	1.983	0.0250 mg/L	1.26%
Zn	213.856	220308.8	2.078	0.0164 mg/L	0.79%

eplicate Data ----------

): CCB Date: 11/21/02 3:04:24 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-1077.8	-3.9	0.0000	mg/L		
1	Al 308.215	5135.0	537.4	0.0147	mg/L		
1	As 188.979	71.8	2.4	0.0009	mg/L		
1	Ba 233.527	-843.7	21.9	0.0001	mg/L		
1	Be 313.107	-84.2	330.1	0.0001	mg/L		
1	Ca 227.547	285.9	2.4	0.0093	mg/L		
1	Cd 228.802	77.2	-12.6	-0.0001	mg/L		
1	Co 228.616	-346.0	70.7	0.0007	mg/L		
1	Cr 267.716	-127.4	32.4	0.0004	mg/L		
1	Cu 324.754	2058.8	-228.1	-0.0007	mg/L		
1	Fe 273.955	2980.7	-9.2	-0.0002	mg/L		
1	Mg 279.079	-314.5	-910.6	-0.0287	mg/L		
1	Mn 257.610	1916.6	795.8	0.0005	mg/L		
1	Mo 202.030	-26.3	2.2	0.0001	mg/L		
1	Ni 231.604	345.8	70.6	0.0014	mg/L		
1	Pb 220.353	195.3	10.4	0.0007	mg/L		
1	Sb 206.833	66.7	6.0	0.0014	mg/L		
1	Se 196.026	87.8	3.5	0.0013	mg/L		
1	Tl 190.800	193.6	5.1	0.0015	mg/L		
1	V 292.402	357.9	195.2	0.0018	mg/L		
1	Zn 213.856	-419.2	164.2	0.0015	mg/L		
2	Ag 328.068	-1171.3	-97.4	-0.0005	mg/L		
2	Al 308.215	5199.4	601.9	0.0165	mg/L		
2	As 188.979	68.2	-1.2	-0.0005	mg/L		
2	Ba 233.527	-785.1	80.5	0.0002	mg/L		
2	Be 313.107	-76.6	337.6	0.0001	mg/L		
2	Ca 227.547	283.7	0.2	0.0009	mg/L		
2	Cd 228.802	70.5	-19.3	-0.0002	mg/L		
2	Co 228.616	-383.1	33.6	0.0003	mg/L		
2	Cr 267.716	-107.7	52.1	0.0006	mg/L		
2	Cu 324.754	2003.8	-283.2	-0.0009	mg/L		
2	Fe 273.955	2807.8	-182.0	-0.0037	mg/L		
2	Mg 279.079	-352.2	-948.3	-0.0299	mg/L		
2	Mn 257.610	1845.7	725.0	0.0005	mg/L		
2	Mo 202.030	-20.8	7.7	0.0004	mg/L		
2	Ni 231.604	334.7	59.5	0.0012	mg/L		
2	Pb 220.353	188.7	3.8	0.0003	mg/L		
2	Sb 206.833	65.3	4.7	0.0011	mg/L		
2	Se 196.026	71.5	-12.8	-0.0046	mg/L		
2	Tl 190.800	186.3	-2.2	-0.0007	mg/L		
2	V 292.402	338.6	175.9	0.0016	mg/L		
2	Zn 213.856	-441.7	141.7	0.0013	mg/L		
3	Ag 328.068	-950.9	123.1	0.0006	mg/L		
3	Al 308.215	5050.7	453.2	0.0124	mg/L		
3	As 188.979	67.7	-1.8	-0.0007	mg/L		
3	Ba 233.527	-778.6	87.0	0.0002	mg/L		
3	Be 313.107	-40.2	374.0	0.0001	mg/L		
3	Ca 227.547	366.9	83.4	0.3190	mg/L		
3	Cd 228.802	113.4	23.6	0.0002	mg/L		
3	Co 228.616	-405.9	10.8	0.0001	mg/L		
3	Cr 267.716	-153.1	6.7	0.0001	mg/L		
3	Cu 324.754	2198.2	-88.8	-0.0003	mg/L		
3	Fe 273.955	2584.7	-405.1	-0.0081	mg/L		
3	Mg 279.079	-187.0	-783.2	-0.0247	mg/L		
3	Mn 257.610	1746.5	625.8	0.0004	mg/L		

3 Mo 202.030	-21.8	6.7	0.0004	mg/L
3 Ni 231.604	252.0	-23.3	-0.0005	mg/L
3 Pb 220.353	184.2	-0.7	0.0000	mg/L
3 Sb 206.833	71.6	11.0	0.0026	mg/L
3 Se 196.026	71.9	-12.4	-0.0045	mg/L
3 Tl 190.800	194.7	6.2	0.0018	mg/L
3 V 292.402	200.4	37.6	0.0003	mg/L
3 Zn 213.856	-479.2	104.2	0.0010	mg/L

Mean Data

ID: CCB Seq. No.: 71 Sample No.: 6 A/S Pos: 1
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 3:04:24 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	7.3	0.0000	0.00055	mg/L				>999.9%
Al 308.215	530.8	0.0145	0.00204	mg/L				14.05%
As 188.979	-0.2	-0.0001	0.00086	mg/L				>999.9%
Ba 233.527	63.2	0.0002	0.00010	mg/L				56.76%
Be 313.107	347.2	0.0001	0.00001	mg/L				6.77%
Ca 227.547	28.7	0.1097	0.18126	mg/L				165.18%
Cd 228.802	-2.7	0.0000	0.00018	mg/L				840.87%
Co 228.616	38.4	0.0004	0.00029	mg/L				78.77%
Cr 267.716	30.4	0.0003	0.00025	mg/L				74.97%
Cu 324.754	-200.0	-0.0006	0.00031	mg/L				50.10%
Fe 273.955	-198.8	-0.0040	0.00399	mg/L				99.87%
Mg 279.079	-880.7	-0.0277	0.00272	mg/L				9.83%
Mn 257.610	715.5	0.0005	0.00005	mg/L				11.94%
Mo 202.030	5.6	0.0003	0.00016	mg/L				52.87%
Ni 231.604	35.6	0.0007	0.00101	mg/L				144.00%
Pb 220.353	4.5	0.0003	0.00037	mg/L				123.87%
Sb 206.833	7.2	0.0017	0.00079	mg/L				45.73%
Se 196.026	-7.2	-0.0026	0.00337	mg/L				129.13%
Tl 190.800	3.0	0.0009	0.00133	mg/L				152.31%
V 292.402	136.2	0.0012	0.00077	mg/L				63.07%
Zn 213.856	136.7	0.0013	0.00029	mg/L				22.15%

Replicate Data

ID: M-BL 02M2370S Date: 11/21/02 3:07:45 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-979.7	94.2	0.0005	mg/L	0.0234	ppm
1	Al 308.215	5235.6	638.0	0.0175	mg/L	0.8744	ppm
1	As 188.979	71.8	2.4	0.0009	mg/L	0.0459	ppm
1	Ba 233.527	-849.3	16.3	0.0000	mg/L	0.0023	ppm
1	Be 313.107	-138.2	276.0	0.0001	mg/L	0.0050	ppm
1	Ca 227.547	205.6	-77.9	-0.2978	mg/L	-14.89	ppm
1	Cd 228.802	73.5	-16.2	-0.0001	mg/L	-0.0064	ppm
1	Co 228.616	-346.0	70.7	0.0007	mg/L	0.0334	ppm
1	Cr 267.716	-136.5	23.3	0.0003	mg/L	0.0129	ppm
1	Cu 324.754	2105.0	-181.9	-0.0006	mg/L	-0.0285	ppm
1	Fe 273.955	3191.7	201.9	0.0041	mg/L	0.2027	ppm
1	Mg 279.079	-138.3	-734.4	-0.0231	mg/L	-1.156	ppm
1	Mn 257.610	1778.4	657.6	0.0004	mg/L	0.0207	ppm
1	Mo 202.030	-36.4	-7.9	-0.0004	mg/L	-0.0208	ppm
1	Ni 231.604	312.9	37.7	0.0007	mg/L	0.0372	ppm
1	Pb 220.353	208.6	23.7	0.0016	mg/L	0.0793	ppm
1	Sb 206.833	63.4	2.7	0.0007	mg/L	0.0325	ppm
1	Se 196.026	80.4	-3.9	-0.0014	mg/L	-0.0703	ppm
1	Tl 190.800	186.0	-2.5	-0.0007	mg/L	-0.0367	ppm
1	V 292.402	175.3	12.5	0.0001	mg/L	0.0056	ppm
1	Zn 213.856	-321.2	262.2	0.0025	mg/L	0.1237	ppm
2	Ag 328.068	-996.2	77.7	0.0004	mg/L	0.0193	ppm
2	Al 308.215	5028.3	430.7	0.0118	mg/L	0.5903	ppm
2	As 188.979	65.1	-4.3	-0.0017	mg/L	-0.0833	ppm
2	Ba 233.527	-849.9	15.7	0.0000	mg/L	0.0022	ppm
2	Be 313.107	-119.9	294.4	0.0001	mg/L	0.0053	ppm
2	Ca 227.547	195.5	-87.9	-0.3363	mg/L	-16.82	ppm

2 Cd 228.802	84.3	-5.4	0.0000 mg/L	-0.0021 ppm
2 Co 228.616	-391.8	24.9	0.0002 mg/L	0.0118 ppm
2 Cr 267.716	-111.2	48.5	0.0005 mg/L	0.0268 ppm
2 Cu 324.754	2233.6	-53.3	-0.0002 mg/L	-0.0084 ppm
2 Fe 273.955	2904.4	-85.4	-0.0017 mg/L	-0.0858 ppm
2 Mg 279.079	-217.2	-813.4	-0.0256 mg/L	-1.280 ppm
2 Mn 257.610	1715.7	595.0	0.0004 mg/L	0.0187 ppm
2 Mo 202.030	-28.1	0.4	0.0000 mg/L	0.0011 ppm
2 Ni 231.604	391.5	116.3	0.0023 mg/L	0.1149 ppm
2 Pb 220.353	182.9	-2.0	-0.0001 mg/L	-0.0068 ppm
2 Sb 206.833	69.2	8.6	0.0020 mg/L	0.1024 ppm
2 Se 196.026	74.7	-9.6	-0.0035 mg/L	-0.1737 ppm
2 Tl 190.800	188.6	0.0	0.0000 mg/L	0.0007 ppm
2 V 292.402	226.0	63.3	0.0006 mg/L	0.0284 ppm
2 Zn 213.856	-363.2	220.2	0.0021 mg/L	0.1038 ppm
3 Ag 328.068	-997.1	76.9	0.0004 mg/L	0.0191 ppm
3 Al 308.215	5019.8	422.2	0.0116 mg/L	0.5786 ppm
3 As 188.979	75.1	5.7	0.0022 mg/L	0.1091 ppm
3 Ba 233.527	-804.0	61.6	0.0002 mg/L	0.0087 ppm
3 Be 313.107	-170.8	243.4	0.0001 mg/L	0.0044 ppm
3 Ca 227.547	242.7	-40.8	-0.1560 mg/L	-7.798 ppm
3 Cd 228.802	68.7	-21.0	-0.0002 mg/L	-0.0083 ppm
3 Co 228.616	-388.2	28.5	0.0003 mg/L	0.0135 ppm
3 Cr 267.716	-132.8	26.9	0.0003 mg/L	0.0149 ppm
3 Cu 324.754	2071.7	-215.2	-0.0007 mg/L	-0.0338 ppm
3 Fe 273.955	2665.8	-324.0	-0.0065 mg/L	-0.3254 ppm
3 Mg 279.079	16.4	-579.8	-0.0183 mg/L	-0.9127 ppm
3 Mn 257.610	1610.6	489.8	0.0003 mg/L	0.0154 ppm
3 Mo 202.030	-30.2	-1.7	-0.0001 mg/L	-0.0045 ppm
3 Ni 231.604	395.2	120.0	0.0024 mg/L	0.1186 ppm
3 Pb 220.353	184.9	-0.0	0.0000 mg/L	-0.0001 ppm
3 Sb 206.833	56.1	-4.5	-0.0011 mg/L	-0.0540 ppm
3 Se 196.026	79.3	-5.0	-0.0018 mg/L	-0.0910 ppm
3 Tl 190.800	187.9	-0.6	-0.0002 mg/L	-0.0090 ppm
3 V 292.402	172.9	10.1	0.0001 mg/L	0.0045 ppm
3 Zn 213.856	-391.1	192.3	0.0018 mg/L	0.0907 ppm

ean Data ----------

D: M-BL 02M2370S Seq. No.: 72 Sample No.: 50 A/S Pos: 58
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:07:45 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	82.9	0.0004	0.00005	mg/L	0.0206	0.00243	ppm	11.80%
Al 308.215	497.0	0.0136	0.00335	mg/L	0.6811	0.16749	ppm	24.59%
As 188.979	1.2	0.0005	0.00196	mg/L	0.0239	0.09808	ppm	410.61%
Ba 233.527	31.2	0.0001	0.00007	mg/L	0.0044	0.00372	ppm	84.31%
Be 313.107	271.2	0.0001	0.00001	mg/L	0.0049	0.00047	ppm	9.52%
Ca 227.547	-68.9	-0.2634	0.09498	mg/L	-13.17	4.749	ppm	36.06%
Cd 228.802	-14.2	-0.0001	0.00006	mg/L	-0.0056	0.00316	ppm	56.27%
Co 228.616	41.3	0.0004	0.00024	mg/L	0.0195	0.01203	ppm	61.57%
Cr 267.716	32.9	0.0004	0.00015	mg/L	0.0182	0.00755	ppm	41.46%
Cu 324.754	-150.1	-0.0005	0.00027	mg/L	-0.0236	0.01342	ppm	56.93%
Fe 273.955	-69.2	-0.0014	0.00529	mg/L	-0.0695	0.26441	ppm	380.48%
Mg 279.079	-709.2	-0.0223	0.00374	mg/L	-1.116	0.1870	ppm	16.75%
Mn 257.610	580.8	0.0004	0.00005	mg/L	0.0183	0.00267	ppm	14.60%
Mo 202.030	-3.0	-0.0002	0.00023	mg/L	-0.0081	0.01137	ppm	141.12%
Ni 231.604	91.3	0.0018	0.00092	mg/L	0.0902	0.04595	ppm	50.93%
Pb 220.353	7.2	0.0005	0.00096	mg/L	0.0241	0.04791	ppm	198.44%
Sb 206.833	2.3	0.0005	0.00157	mg/L	0.0270	0.07834	ppm	290.38%
Se 196.026	-6.1	-0.0022	0.00109	mg/L	-0.1117	0.05469	ppm	48.98%
Tl 190.800	-1.0	-0.0003	0.00039	mg/L	-0.0150	0.01943	ppm	129.58%
V 292.402	28.6	0.0003	0.00027	mg/L	0.0128	0.01346	ppm	104.80%
Zn 213.856	224.9	0.0021	0.00033	mg/L	0.1061	0.01661	ppm	15.66%

Replicate Data ----------

D: LCS-02M2370 Date: 11/21/02 3:11:13 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units

012367

1 Ag 328.068	196200.1	197274.0	0.9779 mg/L	48.90 ppm
1 Al 308.215	78569.9	73972.3	2.027 mg/L	101.4 ppm
1 As 188.979	1403.0	1333.6	0.5197 mg/L	25.98 ppm
1 Ba 233.527	1460384.3	1461250.0	4.136 mg/L	206.8 ppm
1 Be 313.107	553286.4	553700.6	0.1998 mg/L	9.992 ppm
1 Ca 227.547	5757.0	5473.5	20.93 mg/L	1047 ppm
1 Cd 228.802	33775.3	33685.6	0.2659 mg/L	13.29 ppm
1 Co 228.616	114296.3	114712.9	1.084 mg/L	54.22 ppm
1 Cr 267.716	89836.9	89996.7	0.9951 mg/L	49.76 ppm
1 Cu 324.754	323486.5	321199.5	1.008 mg/L	50.41 ppm
1 Fe 273.955	51196.8	48206.9	0.9681 mg/L	48.41 ppm
1 Mg 279.079	317348.9	316752.8	9.973 mg/L	498.7 ppm
1 Mn 257.610	1627697.6	1626576.9	1.025 mg/L	51.24 ppm
1 Mo 202.030	38731.7	38760.2	2.053 mg/L	102.7 ppm
1 Ni 231.604	54938.1	54662.9	1.080 mg/L	54.01 ppm
1 Pb 220.353	47097.6	46912.7	3.139 mg/L	156.9 ppm
1 Sb 206.833	2254.5	2193.9	0.4958 mg/L	24.79 ppm
1 Se 196.026	1454.1	1369.8	0.4975 mg/L	24.88 ppm
1 Tl 190.800	1987.5	1799.0	0.5230 mg/L	26.15 ppm
1 V 292.402	219300.3	219137.5	1.965 mg/L	98.27 ppm
1 Zn 213.856	56410.0	56993.4	0.5375 mg/L	26.88 ppm
2 Ag 328.068	191700.6	192774.6	0.9556 mg/L	47.78 ppm
2 Al 308.215	76875.2	72277.6	1.981 mg/L	99.05 ppm
2 As 188.979	1400.6	1331.2	0.5186 mg/L	25.93 ppm
2 Ba 233.527	1430927.3	1431792.9	4.053 mg/L	202.6 ppm
2 Be 313.107	541393.8	541808.0	0.1955 mg/L	9.777 ppm
2 Ca 227.547	5773.3	5489.8	21.00 mg/L	1050 ppm
2 Cd 228.802	32706.3	32616.5	0.2574 mg/L	12.87 ppm
2 Co 228.616	110815.7	111232.4	1.051 mg/L	52.57 ppm
2 Cr 267.716	87732.8	87892.6	0.9719 mg/L	48.59 ppm
2 Cu 324.754	316213.7	313926.8	0.9855 mg/L	49.27 ppm
2 Fe 273.955	49328.1	46338.3	0.9306 mg/L	46.53 ppm
2 Mg 279.079	310017.0	309420.8	9.742 mg/L	487.1 ppm
2 Mn 257.610	1580433.5	1579312.8	0.9950 mg/L	49.75 ppm
2 Mo 202.030	37731.0	37759.5	2.000 mg/L	100.0 ppm
2 Ni 231.604	53320.7	53045.5	1.048 mg/L	52.41 ppm
2 Pb 220.353	45704.9	45520.0	3.046 mg/L	152.3 ppm
2 Sb 206.833	2264.9	2204.3	0.4989 mg/L	24.95 ppm
2 Se 196.026	1448.4	1364.1	0.4955 mg/L	24.77 ppm
2 Tl 190.800	2006.0	1817.4	0.5284 mg/L	26.42 ppm
2 V 292.402	213096.1	212933.4	1.910 mg/L	95.49 ppm
2 Zn 213.856	55100.9	55684.3	0.5252 mg/L	26.26 ppm
3 Ag 328.068	196432.8	197506.7	0.9791 mg/L	48.95 ppm
3 Al 308.215	78522.7	73925.1	2.026 mg/L	101.3 ppm
3 As 188.979	1384.3	1314.9	0.5125 mg/L	25.63 ppm
3 Ba 233.527	1464220.2	1465085.8	4.147 mg/L	207.4 ppm
3 Be 313.107	555551.7	555965.9	0.2006 mg/L	10.03 ppm
3 Ca 227.547	5731.1	5447.6	20.84 mg/L	1042 ppm
3 Cd 228.802	33700.8	33611.0	0.2653 mg/L	13.26 ppm
3 Co 228.616	114381.2	114797.9	1.085 mg/L	54.26 ppm
3 Cr 267.716	89884.7	90044.5	0.9957 mg/L	49.78 ppm
3 Cu 324.754	326531.1	324244.2	1.018 mg/L	50.89 ppm
3 Fe 273.955	50124.5	47134.6	0.9466 mg/L	47.33 ppm
3 Mg 279.079	318839.0	318242.9	10.02 mg/L	501.0 ppm
3 Mn 257.610	1628552.0	1627431.3	1.025 mg/L	51.27 ppm
3 Mo 202.030	39095.5	39124.0	2.072 mg/L	103.6 ppm
3 Ni 231.604	55121.0	54845.8	1.084 mg/L	54.19 ppm
3 Pb 220.353	47041.3	46856.5	3.135 mg/L	156.8 ppm
3 Sb 206.833	2223.1	2162.5	0.4882 mg/L	24.41 ppm
3 Se 196.026	1446.1	1361.8	0.4946 mg/L	24.73 ppm
3 Tl 190.800	1987.9	1799.4	0.5231 mg/L	26.16 ppm
3 V 292.402	219308.1	219145.3	1.965 mg/L	98.27 ppm
3 Zn 213.856	56888.0	57471.4	0.5420 mg/L	27.10 ppm

Mean Data ----------

ID: LCS-02M2370 Seq. No.: 73 Sample No.: 51 A/S Pos: 59
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:11:13 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	195851.8	0.9709	0.01322	mg/L	48.54	0.661	ppm	1.36%
Al 308.215	73391.7	2.012	0.0265	mg/L	100.6	1.32	ppm	1.32%
As 188.979	1326.5	0.5169	0.00386	mg/L	25.85	0.193	ppm	0.75%
Ba 233.527	1452709.6	4.112	0.0516	mg/L	205.6	2.58	ppm	1.25%
Be 313.107	550491.5	0.1987	0.00274	mg/L	9.934	0.1372	ppm	1.38%
Ca 227.547	5470.3	20.92	0.081	mg/L	1046	4.1	ppm	0.39%
Cd 228.802	33304.4	0.2629	0.00471	mg/L	13.14	0.236	ppm	1.79%
Co 228.616	113581.1	1.074	0.0192	mg/L	53.68	0.962	ppm	1.79%
Cr 267.716	89311.3	0.9876	0.01359	mg/L	49.38	0.679	ppm	1.38%
Cu 324.754	319790.2	1.004	0.0166	mg/L	50.19	0.832	ppm	1.66%
Fe 273.955	47226.6	0.9484	0.01883	mg/L	47.42	0.942	ppm	1.99%
Mg 279.079	314805.5	9.912	0.1487	mg/L	495.6	7.43	ppm	1.50%
Mn 257.610	1611107.0	1.015	0.0173	mg/L	50.75	0.867	ppm	1.71%
Mo 202.030	38547.9	2.042	0.0374	mg/L	102.1	1.87	ppm	1.83%
Ni 231.604	54184.7	1.071	0.0196	mg/L	53.53	0.979	ppm	1.83%
Pb 220.353	46429.7	3.107	0.0527	mg/L	155.3	2.64	ppm	1.70%
Sb 206.833	2186.9	0.4943	0.00549	mg/L	24.72	0.275	ppm	1.11%
Se 196.026	1365.2	0.4959	0.00149	mg/L	24.79	0.074	ppm	0.30%
Tl 190.800	1805.3	0.5249	0.00306	mg/L	26.24	0.153	ppm	0.58%
292.402	217072.1	1.947	0.0321	mg/L	97.34	1.607	ppm	1.65%
Zn 213.856	56716.4	0.5349	0.00873	mg/L	26.75	0.436	ppm	1.63%

Matrix Check Sample: LCS-02M2370

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
Ag 328.068	1.000	0.9709	0.013	mg/L	97.046
Al 308.215	2.014	2.012	0.026	mg/L	99.896
As 188.979	0.5005	0.5169	0.004	mg/L	103.292
Ba 233.527	4.000	4.112	0.052	mg/L	102.802
Be 313.107	0.2001	0.1987	0.003	mg/L	99.288
Ca 227.547	19.74	20.92	0.081	mg/L	105.928
Cd 228.802	0.2499	0.2629	0.005	mg/L	105.186
Co 228.616	1.000	1.074	0.019	mg/L	107.328
Cr 267.716	1.000	0.9876	0.014	mg/L	98.720
Cu 324.754	0.9995	1.004	0.017	mg/L	100.434
Fe 273.955	0.9986	0.9484	0.019	mg/L	94.980
Mg 279.079	9.978	9.912	0.149	mg/L	99.341
Mn 257.610	1.000	1.015	0.017	mg/L	101.467
Mo 202.030	2.000	2.042	0.037	mg/L	102.107
Ni 231.604	1.002	1.071	0.020	mg/L	106.889
Pb 220.353	3.000	3.107	0.053	mg/L	103.539
Sb 206.833	0.5005	0.4943	0.005	mg/L	98.754
Se 196.026	0.4978	0.4959	0.001	mg/L	99.620
Tl 190.800	0.4997	0.5249	0.003	mg/L	105.033
292.402	2.000	1.947	0.032	mg/L	97.329
Zn 213.856	0.5021	0.5349	0.009	mg/L	106.556

Replicate Data ----------

ID: LCSD-02M2370 Date: 11/21/02 3:14:45 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	195299.5	196373.5	0.9735	mg/L	48.67	ppm
1	Al 308.215	77841.6	73244.0	2.008	mg/L	100.4	ppm
1	As 188.979	1391.2	1321.7	0.5151	mg/L	25.76	ppm
1	Ba 233.527	1456669.3	1457534.9	4.126	mg/L	206.3	ppm
1	Be 313.107	552171.7	552585.9	0.1994	mg/L	9.971	ppm
1	Ca 227.547	5718.7	5435.3	20.79	mg/L	1039	ppm
1	Cd 228.802	33541.0	33451.3	0.2640	mg/L	13.20	ppm
1	Co 228.616	113596.1	114012.8	1.078	mg/L	53.89	ppm
1	Cr 267.716	89576.0	89735.8	0.9923	mg/L	49.61	ppm
1	Cu 324.754	322122.3	319835.3	1.004	mg/L	50.20	ppm
1	Fe 273.955	50205.6	47215.8	0.9482	mg/L	47.41	ppm
1	Mg 279.079	316649.9	316053.7	9.951	mg/L	497.6	ppm
1	Mn 257.610	1620903.9	1619783.2	1.020	mg/L	51.02	ppm
1	Mo 202.030	38788.7	38817.2	2.056	mg/L	102.8	ppm
1	Ni 231.604	54643.7	54368.5	1.074	mg/L	53.72	ppm

1	Pb 220.353	46735.4	46550.5	3.115 mg/L	155.7 ppm
1	Sb 206.833	2226.0	2165.4	0.4890 mg/L	24.45 ppm
1	Se 196.026	1444.6	1360.3	0.4941 mg/L	24.70 ppm
1	Tl 190.800	2000.6	1812.0	0.5268 mg/L	26.34 ppm
1	V 292.402	218028.3	217865.6	1.954 mg/L	97.70 ppm
1	Zn 213.856	56131.4	56714.8	0.5349 mg/L	26.74 ppm
2	Ag 328.068	197067.1	198141.1	0.9822 mg/L	49.11 ppm
2	Al 308.215	78920.8	74323.3	2.037 mg/L	101.9 ppm
2	As 188.979	1416.4	1347.0	0.5249 mg/L	26.24 ppm
2	Ba 233.527	1466982.8	1467848.4	4.155 mg/L	207.8 ppm
2	Be 313.107	553608.5	554022.7	0.1999 mg/L	9.997 ppm
2	Ca 227.547	5791.4	5507.9	21.07 mg/L	1053 ppm
2	Cd 228.802	33656.2	33566.4	0.2649 mg/L	13.25 ppm
2	Co 228.616	113883.5	114300.2	1.080 mg/L	54.02 ppm
2	Cr 267.716	90359.8	90519.6	1.001 mg/L	50.05 ppm
2	Cu 324.754	325045.1	322758.2	1.013 mg/L	50.66 ppm
2	Fe 273.955	50546.0	47556.2	0.9550 mg/L	47.75 ppm
2	Mg 279.079	317308.8	316712.6	9.972 mg/L	498.6 ppm
2	Mn 257.610	1624747.7	1623627.0	1.023 mg/L	51.15 ppm
2	Mo 202.030	38802.8	38831.3	2.057 mg/L	102.8 ppm
2	Ni 231.604	54476.5	54201.3	1.071 mg/L	53.55 ppm
2	Pb 220.353	47069.1	46884.2	3.137 mg/L	156.9 ppm
2	Sb 206.833	2255.2	2194.5	0.4957 mg/L	24.79 ppm
2	Se 196.026	1447.1	1362.9	0.4950 mg/L	24.75 ppm
2	Tl 190.800	2007.2	1818.7	0.5288 mg/L	26.44 ppm
2	V 292.402	220120.5	219957.8	1.973 mg/L	98.64 ppm
2	Zn 213.856	56229.6	56813.0	0.5358 mg/L	26.79 ppm
3	Ag 328.068	197627.7	198701.6	0.9850 mg/L	49.25 ppm
3	Al 308.215	79435.9	74838.3	2.051 mg/L	102.6 ppm
3	As 188.979	1403.8	1334.3	0.5200 mg/L	26.00 ppm
3	Ba 233.527	1479804.4	1480670.1	4.191 mg/L	209.6 ppm
3	Be 313.107	561417.2	561831.4	0.2028 mg/L	10.14 ppm
3	Ca 227.547	5806.6	5523.2	21.12 mg/L	1056 ppm
3	Cd 228.802	33876.1	33786.4	0.2667 mg/L	13.33 ppm
3	Co 228.616	114683.4	115100.1	1.088 mg/L	54.40 ppm
3	Cr 267.716	90414.2	90574.0	1.002 mg/L	50.08 ppm
3	Cu 324.754	328356.9	326070.0	1.024 mg/L	51.18 ppm
3	Fe 273.955	50409.0	47419.2	0.9523 mg/L	47.61 ppm
3	Mg 279.079	320958.0	320361.9	10.09 mg/L	504.3 ppm
3	Mn 257.610	1637166.2	1636045.5	1.031 mg/L	51.54 ppm
3	Mo 202.030	39400.0	39428.5	2.089 mg/L	104.4 ppm
3	Ni 231.604	55429.5	55154.3	1.090 mg/L	54.49 ppm
3	Pb 220.353	47534.4	47349.5	3.168 mg/L	158.4 ppm
3	Sb 206.833	2268.0	2207.3	0.4988 mg/L	24.94 ppm
3	Se 196.026	1451.7	1367.5	0.4967 mg/L	24.83 ppm
3	Tl 190.800	2007.4	1818.9	0.5288 mg/L	26.44 ppm
3	V 292.402	219454.6	219291.9	1.967 mg/L	98.34 ppm
3	Zn 213.856	56988.3	57571.7	0.5430 mg/L	27.15 ppm

Mean Data ----------

ID: LCSD-02M2370 Seq. No.: 74 Sample No.: 52 A/S Pos: 60
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:14:45 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	197738.7	0.9802	0.00602	mg/L	49.01	0.301	ppm	0.61%
Al 308.215	74135.2	2.032	0.0223	mg/L	101.6	1.11	ppm	1.10%
As 188.979	1334.3	0.5200	0.00488	mg/L	26.00	0.244	ppm	0.94%
Ba 233.527	1468684.4	4.157	0.0328	mg/L	207.9	1.64	ppm	0.79%
Be 313.107	556146.7	0.2007	0.00180	mg/L	10.04	0.090	ppm	0.89%
Ca 227.547	5488.8	20.99	0.180	mg/L	1050	9.0	ppm	0.86%
Cd 228.802	33601.3	0.2652	0.00134	mg/L	13.26	0.067	ppm	0.51%
Co 228.616	114471.0	1.082	0.0053	mg/L	54.10	0.266	ppm	0.49%
Cr 267.716	90276.4	0.9982	0.00519	mg/L	49.91	0.259	ppm	0.52%
Cu 324.754	322887.8	1.014	0.0098	mg/L	50.68	0.490	ppm	0.97%
Fe 273.955	47397.0	0.9518	0.00344	mg/L	47.59	0.172	ppm	0.36%
Mg 279.079	317709.4	10.00	0.073	mg/L	500.2	3.65	ppm	0.73%
Mn 257.610	1626485.2	1.025	0.0054	mg/L	51.24	0.268	ppm	0.52%
Mo 202.030	39025.7	2.067	0.0185	mg/L	103.4	0.92	ppm	0.89%

i 231.604	54574.7	1.078	0.0101 mg/L	53.92	0.503 ppm	0.93%
b 220.353	46928.1	3.140	0.0269 mg/L	157.0	1.34 ppm	0.86%
b 206.833	2189.1	0.4945	0.00500 mg/L	24.73	0.250 ppm	1.01%
Se 196.026	1363.5	0.4953	0.00132 mg/L	24.76	0.066 ppm	0.27%
l 190.800	1816.5	0.5281	0.00114 mg/L	26.41	0.057 ppm	0.21%
292.402	219038.4	1.964	0.0096 mg/L	98.22	0.479 ppm	0.49%
n 213.856	57033.2	0.5379	0.00442 mg/L	26.89	0.221 ppm	0.82%

atrix Check Sample: LCSD-02M2370

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
g 328.068	1.000	0.9802	0.006	mg/L	97.981
l 308.215	2.014	2.032	0.022	mg/L	100.915
As 188.979	0.5005	0.5200	0.005	mg/L	103.908
Ba 233.527	4.000	4.157	0.033	mg/L	103.933
e 313.107	0.2001	0.2007	0.002	mg/L	100.308
a 227.547	19.74	20.99	0.180	mg/L	106.281
d 228.802	0.2499	0.2652	0.001	mg/L	106.124
Co 228.616	1.000	1.082	0.005	mg/L	108.169
r 267.716	1.000	0.9982	0.005	mg/L	99.787
u 324.754	0.9995	1.014	0.010	mg/L	101.406
e 273.955	0.9986	0.9518	0.003	mg/L	95.323
Mg 279.079	9.978	10.00	0.073	mg/L	100.255
n 257.610	1.000	1.025	0.005	mg/L	102.436
o 202.030	2.000	2.067	0.018	mg/L	103.372
i 231.604	1.002	1.078	0.010	mg/L	107.660
Pb 220.353	3.000	3.140	0.027	mg/L	104.651
Sb 206.833	0.5005	0.4945	0.005	mg/L	98.797
e 196.026	0.4978	0.4953	0.001	mg/L	99.498
l 190.800	0.4997	0.5281	0.001	mg/L	105.688
V 292.402	2.000	1.964	0.010	mg/L	98.211
Zn 213.856	0.5021	0.5379	0.004	mg/L	107.154

eplicate Data ----------

D: 6149-1 S F=50 Date: 11/21/02 3:18:17 PM

pl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-1164.0	-90.1	-0.0004	mg/L	-0.0223	ppm
1	Al 308.215	457498.4	452900.8	12.41	mg/L	620.7	ppm
1	As 188.979	13.2	-56.2	0.0406	mg/L	2.029	ppm
1	Ba 233.527	75844.3	76709.9	0.2171	mg/L	10.86	ppm
1	Be 313.107	-989.2	-574.9	-0.0002	mg/L	-0.0104	ppm
1	Ca 227.547	614492.4	614209.0	2349	mg/L	117500	ppm
1	Cd 228.802	210.0	120.2	0.0009	mg/L	0.0474	ppm
1	Co 228.616	535.1	951.8	0.0090	mg/L	0.4498	ppm
1	Cr 267.716	3782.4	3942.2	0.0436	mg/L	2.180	ppm
1	Cu 324.754	5702.3	3415.3	0.0107	mg/L	0.5361	ppm
1	Fe 273.955	1328199.1	1325209.3	26.61	mg/L	1331	ppm
1	Mg 279.079	1022009.5	1021413.3	32.16	mg/L	1608	ppm
1	Mn 257.610	1433780.2	1432659.5	0.9026	mg/L	45.13	ppm
1	Mo 202.030	-64.3	-35.8	-0.0019	mg/L	-0.0948	ppm
1	Ni 231.604	1547.2	1272.0	0.0251	mg/L	1.257	ppm
1	Pb 220.353	175.9	-9.0	0.0078	mg/L	0.3902	ppm
1	Sb 206.833	77.2	16.5	0.0040	mg/L	0.1977	ppm
1	Se 196.026	59.0	-25.2	-0.0012	mg/L	-0.0582	ppm
1	Tl 190.800	241.7	53.2	0.0131	mg/L	0.6555	ppm
1	V 292.402	5800.9	5638.1	0.0506	mg/L	2.528	ppm
1	Zn 213.856	6686.3	7269.7	0.0686	mg/L	3.428	ppm
2	Ag 328.068	-896.0	178.0	0.0009	mg/L	0.0441	ppm
2	Al 308.215	466028.9	461431.4	12.65	mg/L	632.4	ppm
2	As 188.979	6.9	-62.5	0.0397	mg/L	1.985	ppm
2	Ba 233.527	76976.4	77842.0	0.2203	mg/L	11.02	ppm
2	Be 313.107	-1095.8	-681.5	-0.0002	mg/L	-0.0123	ppm
2	Ca 227.547	629957.8	629674.4	2408	mg/L	120400	ppm
2	Cd 228.802	192.0	102.2	0.0008	mg/L	0.0403	ppm
2	Co 228.616	539.4	956.1	0.0090	mg/L	0.4519	ppm
2	Cr 267.716	3708.2	3868.0	0.0428	mg/L	2.139	ppm

2	Cu 324.754	5586.4	3299.4	0.0104	mg/L	0.5179 ppm
2	Fe 273.955	1338724.5	1335734.7	26.82	mg/L	1341 ppm
2	Mg 279.079	1034950.0	1034353.9	32.57	mg/L	1628 ppm
2	Mn 257.610	1463422.2	1462301.5	0.9213	mg/L	46.06 ppm
2	Mo 202.030	-70.8	-42.3	-0.0022	mg/L	-0.1120 ppm
2	Ni 231.604	1518.7	1243.5	0.0246	mg/L	1.229 ppm
2	Pb 220.353	175.9	-9.0	0.0080	mg/L	0.4007 ppm
2	Sb 206.833	90.1	29.4	0.0070	mg/L	0.3521 ppm
2	Se 196.026	66.8	-17.5	0.0017	mg/L	0.0861 ppm
2	Tl 190.800	236.6	48.1	0.0117	mg/L	0.5832 ppm
2	V 292.402	6062.8	5900.0	0.0529	mg/L	2.646 ppm
2	Zn 213.856	6734.0	7317.4	0.0690	mg/L	3.451 ppm
3	Ag 328.068	-873.0	201.0	0.0010	mg/L	0.0498 ppm
3	Al 308.215	453734.5	449137.0	12.31	mg/L	615.5 ppm
3	As 188.979	-1.3	-70.7	0.0341	mg/L	1.705 ppm
3	Ba 233.527	74484.6	75350.2	0.2133	mg/L	10.66 ppm
3	Be 313.107	-1270.7	-856.5	-0.0003	mg/L	-0.0155 ppm
3	Ca 227.547	605538.5	605255.0	2315	mg/L	115700 ppm
3	Cd 228.802	190.7	100.9	0.0008	mg/L	0.0398 ppm
3	Co 228.616	514.2	930.9	0.0088	mg/L	0.4400 ppm
3	Cr 267.716	3727.3	3887.1	0.0430	mg/L	2.149 ppm
3	Cu 324.754	5350.4	3063.5	0.0096	mg/L	0.4808 ppm
3	Fe 273.955	1305910.5	1302920.7	26.17	mg/L	1308 ppm
3	Mg 279.079	1002975.9	1002379.7	31.56	mg/L	1578 ppm
3	Mn 257.610	1412094.5	1410973.8	0.8889	mg/L	44.45 ppm
3	Mo 202.030	-66.1	-37.6	-0.0020	mg/L	-0.0997 ppm
3	Ni 231.604	1519.7	1244.5	0.0246	mg/L	1.230 ppm
3	Pb 220.353	179.4	-5.5	0.0079	mg/L	0.3957 ppm
3	Sb 206.833	86.2	25.6	0.0061	mg/L	0.3061 ppm
3	Se 196.026	52.9	-31.4	-0.0035	mg/L	-0.1762 ppm
3	Tl 190.800	235.8	47.3	0.0124	mg/L	0.6208 ppm
3	V 292.402	5932.2	5769.4	0.0517	mg/L	2.587 ppm
3	Zn 213.856	6744.5	7327.9	0.0691	mg/L	3.456 ppm

Mean Data ----------

ID: 6149-1 S F=50 Seq. No.: 75 Sample No.: 53 A/S Pos: 61
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:18:17 PM

Element	Mean Corr. Intensity	Mean Conc	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	96.3	0.0005	0.00080	mg/L	0.0239	0.04011	ppm	168.06%
Al 308.215	454489.7	12.46	0.173	mg/L	622.8	8.63	ppm	1.39%
As 188.979	-63.2	0.0381	0.00352	mg/L	1.906	0.1758	ppm	9.22%
Ba 233.527	76634.1	0.2169	0.00353	mg/L	10.85	0.177	ppm	1.63%
Be 313.107	-704.3	-0.0003	0.00005	mg/L	-0.0127	0.00256	ppm	20.18%
Ca 227.547	616379.5	2357	47.2	mg/L	117900	2362.4	ppm	2.00%
Cd 228.802	107.8	0.0009	0.00009	mg/L	0.0425	0.00426	ppm	10.01%
Co 228.616	946.2	0.0089	0.00013	mg/L	0.4472	0.00637	ppm	1.42%
Cr 267.716	3899.1	0.0431	0.00043	mg/L	2.156	0.0213	ppm	0.99%
Cu 324.754	3259.4	0.0102	0.00056	mg/L	0.5116	0.02815	ppm	5.50%
Fe 273.955	1321288.2	26.53	0.336	mg/L	1327	16.8	ppm	1.27%
Mg 279.079	1019382.3	32.10	0.506	mg/L	1605	25.3	ppm	1.58%
Mn 257.610	1435311.6	0.9043	0.01623	mg/L	45.21	0.812	ppm	1.80%
Mo 202.030	-38.6	-0.0020	0.00018	mg/L	-0.1022	0.00887	ppm	8.68%
Ni 231.604	1253.3	0.0248	0.00032	mg/L	1.238	0.0160	ppm	1.29%
Pb 220.353	-7.8	0.0079	0.00011	mg/L	0.3955	0.00526	ppm	1.33%
Sb 206.833	23.9	0.0057	0.00159	mg/L	0.2853	0.07927	ppm	27.79%
Se 196.026	-24.7	-0.0010	0.00263	mg/L	-0.0494	0.13136	ppm	265.67%
Tl 190.800	49.5	0.0124	0.00072	mg/L	0.6198	0.03615	ppm	5.83%
V 292.402	5769.2	0.0517	0.00117	mg/L	2.587	0.0587	ppm	2.27%
Zn 213.856	7305.0	0.0689	0.00029	mg/L	3.445	0.0146	ppm	0.43%

Replicate Data ----------

ID: 6149-1 D F=50 Date: 11/21/02 3:21:48 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1173.4	-99.4	-0.0005	mg/L	-0.0246	ppm
1	Al 308.215	465829.8	461232.2	12.64	mg/L	632.1	ppm

1	As 188.979	2.7	-66.7	0.0374	mg/L	1.869 ppm
1	Ba 233.527	76195.6	77061.2	0.2181	mg/L	10.91 ppm
1	Be 313.107	-1402.3	-988.1	-0.0004	mg/L	-0.0178 ppm
1	Ca 227.547	622931.7	622648.2	2381	mg/L	119100 ppm
1	Cd 228.802	185.2	95.5	0.0008	mg/L	0.0377 ppm
1	Co 228.616	517.6	934.3	0.0088	mg/L	0.4416 ppm
1	Cr 267.716	3727.1	3886.9	0.0430	mg/L	2.149 ppm
1	Cu 324.754	5230.2	2943.3	0.0092	mg/L	0.4620 ppm
1	Fe 273.955	1342052.3	1339062.5	26.89	mg/L	1345 ppm
1	Mg 279.079	1030126.6	1029530.5	32.42	mg/L	1621 ppm
1	Mn 257.610	1453428.3	1452307.6	0.9150	mg/L	45.75 ppm
1	Mo 202.030	-76.2	-47.7	-0.0025	mg/L	-0.1264 ppm
1	Ni 231.604	1499.7	1224.5	0.0242	mg/L	1.210 ppm
1	Pb 220.353	164.7	-20.1	0.0072	mg/L	0.3587 ppm
1	Sb 206.833	86.4	25.8	0.0062	mg/L	0.3081 ppm
1	Se 196.026	51.5	-32.8	-0.0038	mg/L	-0.1912 ppm
1	Tl 190.800	220.8	32.2	0.0070	mg/L	0.3500 ppm
1	V 292.402	6022.4	5859.6	0.0526	mg/L	2.628 ppm
1	Zn 213.856	6684.6	7268.0	0.0685	mg/L	3.427 ppm
2	Ag 328.068	-1234.9	-161.0	-0.0008	mg/L	-0.0399 ppm
2	Al 308.215	451365.0	446767.4	12.25	mg/L	612.3 ppm
2	As 188.979	-1.5	-70.9	0.0341	mg/L	1.707 ppm
2	Ba 233.527	74180.4	75046.0	0.2124	mg/L	10.62 ppm
2	Be 313.107	-1465.4	-1051.2	-0.0004	mg/L	-0.0190 ppm
2	Ca 227.547	606774.8	606491.3	2320	mg/L	116000 ppm
2	Cd 228.802	202.8	113.1	0.0009	mg/L	0.0446 ppm
2	Co 228.616	502.0	918.7	0.0087	mg/L	0.4342 ppm
2	Cr 267.716	3713.0	3872.8	0.0428	mg/L	2.141 ppm
2	Cu 324.754	5203.5	2916.6	0.0092	mg/L	0.4578 ppm
2	Fe 273.955	1306913.4	1303923.6	26.19	mg/L	1309 ppm
2	Mg 279.079	1006413.2	1005817.0	31.67	mg/L	1583 ppm
2	Mn 257.610	1415384.8	1414264.0	0.8910	mg/L	44.55 ppm
2	Mo 202.030	-85.9	-57.4	-0.0030	mg/L	-0.1519 ppm
2	Ni 231.604	1492.5	1217.3	0.0241	mg/L	1.203 ppm
2	Pb 220.353	173.9	-11.0	0.0076	mg/L	0.3782 ppm
2	Sb 206.833	72.4	11.8	0.0028	mg/L	0.1411 ppm
2	Se 196.026	62.0	-22.3	-0.0002	mg/L	-0.0112 ppm
2	Tl 190.800	227.6	39.0	0.0100	mg/L	0.5020 ppm
2	V 292.402	5893.3	5730.5	0.0514	mg/L	2.570 ppm
2	Zn 213.856	6671.4	7254.8	0.0684	mg/L	3.421 ppm
3	Ag 328.068	-844.2	229.7	0.0011	mg/L	0.0569 ppm
3	Al 308.215	463831.3	459233.8	12.59	mg/L	629.3 ppm
3	As 188.979	0.8	-68.6	0.0368	mg/L	1.838 ppm
3	Ba 233.527	75931.0	76796.6	0.2174	mg/L	10.87 ppm
3	Be 313.107	-1343.4	-929.2	-0.0003	mg/L	-0.0168 ppm
3	Ca 227.547	623903.2	623619.8	2385	mg/L	119300 ppm
3	Cd 228.802	175.0	85.3	0.0007	mg/L	0.0336 ppm
3	Co 228.616	512.8	929.5	0.0088	mg/L	0.4393 ppm
3	Cr 267.716	3714.5	3874.3	0.0428	mg/L	2.142 ppm
3	Cu 324.754	5406.9	3119.9	0.0098	mg/L	0.4897 ppm
3	Fe 273.955	1327939.8	1324950.0	26.61	mg/L	1330 ppm
3	Mg 279.079	1026716.4	1026120.3	32.31	mg/L	1615 ppm
3	Mn 257.610	1454254.6	1453133.9	0.9155	mg/L	45.78 ppm
3	Mo 202.030	-92.7	-64.2	-0.0034	mg/L	-0.1699 ppm
3	Ni 231.604	1483.0	1207.8	0.0239	mg/L	1.193 ppm
3	Pb 220.353	181.9	-3.0	0.0083	mg/L	0.4167 ppm
3	Sb 206.833	70.2	9.6	0.0023	mg/L	0.1146 ppm
3	Se 196.026	60.0	-24.3	-0.0008	mg/L	-0.0418 ppm
3	Tl 190.800	232.4	43.9	0.0104	mg/L	0.5223 ppm
3	V 292.402	6109.1	5946.3	0.0533	mg/L	2.667 ppm
3	Zn 213.856	6744.0	7327.4	0.0691	mg/L	3.455 ppm

ean Data ----------

D: 6149-1 D F=50 Seq. No.: 76 Sample No.: 54 A/S Pos: 62
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:21:48 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
Ag 328.068	-10.2	-0.0001	0.00104	mg/L	-0.0025	0.05206	ppm	>999.9%

012373

Al 308.215	455744.5	12.49	0.215 mg/L	624.6	10.74 ppm	1.72%
As 188.979	-68.8	0.0361	0.00172 mg/L	1.805	0.0859 ppm	4.76%
Ba 233.527	76301.3	0.2160	0.00310 mg/L	10.80	0.155 ppm	1.44%
Be 313.107	-989.5	-0.0004	0.00002 mg/L	-0.0179	0.00110 ppm	6.17%
Ca 227.547	617586.5	2362	36.8 mg/L	118100	1839.8 ppm	1.56%
Cd 228.802	97.9	0.0008	0.00011 mg/L	0.0386	0.00555 ppm	14.36%
Co 228.616	927.5	0.0088	0.00008 mg/L	0.4384	0.00377 ppm	0.86%
Cr 267.716	3878.0	0.0429	0.00009 mg/L	2.144	0.0043 ppm	0.20%
Cu 324.754	2993.3	0.0094	0.00035 mg/L	0.4698	0.01735 ppm	3.69%
Fe 273.955	1322645.4	26.56	0.355 mg/L	1328	17.8 ppm	1.34%
Mg 279.079	1020489.3	32.13	0.404 mg/L	1607	20.2 ppm	1.26%
Mn 257.610	1439901.8	0.9072	0.01399 mg/L	45.36	0.700 ppm	1.54%
Mo 202.030	-56.4	-0.0030	0.00044 mg/L	-0.1494	0.02188 ppm	14.64%
Ni 231.604	1216.5	0.0240	0.00017 mg/L	1.202	0.0083 ppm	0.69%
Pb 220.353	-11.4	0.0077	0.00059 mg/L	0.3845	0.02956 ppm	7.69%
Sb 206.833	15.7	0.0038	0.00210 mg/L	0.1879	0.10489 ppm	55.82%
Se 196.026	-26.5	-0.0016	0.00193 mg/L	-0.0814	0.09627 ppm	118.26%
Tl 190.800	38.4	0.0092	0.00188 mg/L	0.4581	0.09415 ppm	20.55%
V 292.402	5845.5	0.0524	0.00097 mg/L	2.621	0.0487 ppm	1.86%
Zn 213.856	7283.4	0.0687	0.00036 mg/L	3.435	0.0182 ppm	0.53%

Matrix Check Sample: 6149-1 D F=50

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	Relative % Diff.
Ag 328.068	0.0005	-0.0001	0.001	mg/L	247.505
Al 308.215	12.46	12.49	0.215	mg/L	0.276
As 188.979	0.0381	0.0361	0.002	mg/L	5.464
Ba 233.527	0.2169	0.2160	0.003	mg/L	0.435
Be 313.107	-0.0003	-0.0004	0.000	mg/L	-33.669
Ca 227.547	2357	2362	36.797	mg/L	0.196
Cd 228.802	0.0009	0.0008	0.000	mg/L	9.582
Co 228.616	0.0089	0.0088	0.000	mg/L	1.999
Cr 267.716	0.0431	0.0429	0.000	mg/L	0.543
Cu 324.754	0.0102	0.0094	0.000	mg/L	8.513
Fe 273.955	26.53	26.56	0.355	mg/L	0.103
Mg 279.079	32.10	32.13	0.404	mg/L	0.109
Mn 257.610	0.9043	0.9072	0.014	mg/L	0.319
Mo 202.030	-0.0020	-0.0030	0.000	mg/L	-37.555
Ni 231.604	0.0248	0.0240	0.000	mg/L	2.977
Pb 220.353	0.0079	0.0077	0.001	mg/L	2.817
Sb 206.833	0.0057	0.0038	0.002	mg/L	41.155
Se 196.026	-0.0010	-0.0016	0.002	mg/L	-48.852
Tl 190.800	0.0124	0.0092	0.002	mg/L	30.004
V 292.402	0.0517	0.0524	0.001	mg/L	1.314
Zn 213.856	0.0689	0.0687	0.000	mg/L	0.297

Replicate Data ----------
ID: 6149-1 1/5 F=250 Date: 11/21/02 3:25:15 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-1151.9	-77.9	-0.0004	mg/L	-0.0966	ppm
1	Al 308.215	107073.1	102475.5	2.809	mg/L	702.2	ppm
1	As 188.979	51.7	-17.7	0.0066	mg/L	1.647	ppm
1	Ba 233.527	16854.9	17720.5	0.0502	mg/L	12.54	ppm
1	Be 313.107	-497.8	-83.6	0.0000	mg/L	-0.0075	ppm
1	Ca 227.547	134832.2	134548.8	514.6	mg/L	128700	ppm
1	Cd 228.802	113.3	23.6	0.0002	mg/L	0.0465	ppm
1	Co 228.616	-159.0	257.7	0.0024	mg/L	0.6089	ppm
1	Cr 267.716	705.5	865.3	0.0096	mg/L	2.392	ppm
1	Cu 324.754	2815.5	528.6	0.0017	mg/L	0.4148	ppm
1	Fe 273.955	309804.4	306814.5	6.162	mg/L	1540	ppm
1	Mg 279.079	236672.1	236076.0	7.433	mg/L	1858	ppm
1	Mn 257.610	331424.2	330303.5	0.2081	mg/L	52.02	ppm
1	Mo 202.030	-39.4	-10.9	-0.0006	mg/L	-0.1443	ppm
1	Ni 231.604	572.4	297.2	0.0059	mg/L	1.468	ppm
1	Pb 220.353	171.8	-13.1	0.0010	mg/L	0.2419	ppm
1	Sb 206.833	62.2	1.6	0.0004	mg/L	0.0959	ppm
1	Se 196.026	70.1	-14.1	-0.0033	mg/L	-0.8213	ppm

1	Tl 190.800	195.6	7.1	0.0021	mg/L	0.5130 ppm
1	V 292.402	1520.8	1358.1	0.0122	mg/L	3.045 ppm
1	Zn 213.856	921.8	1505.2	0.0142	mg/L	3.549 ppm
2	Ag 328.068	-1040.5	33.5	0.0002	mg/L	0.0415 ppm
2	Al 308.215	104389.5	99791.9	2.735	mg/L	683.8 ppm
2	As 188.979	50.2	-19.2	0.0058	mg/L	1.459 ppm
2	Ba 233.527	16384.7	17250.3	0.0488	mg/L	12.21 ppm
2	Be 313.107	-605.4	-191.2	-0.0001	mg/L	-0.0173 ppm
2	Ca 227.547	133033.6	132750.2	507.7	mg/L	126900 ppm
2	Cd 228.802	104.2	14.5	0.0001	mg/L	0.0286 ppm
2	Co 228.616	-172.7	244.0	0.0023	mg/L	0.5767 ppm
2	Cr 267.716	709.5	869.2	0.0096	mg/L	2.403 ppm
2	Cu 324.754	2898.9	612.0	0.0019	mg/L	0.4803 ppm
2	Fe 273.955	300706.0	297716.1	5.979	mg/L	1495 ppm
2	Mg 279.079	232938.9	232342.7	7.315	mg/L	1829 ppm
2	Mn 257.610	325555.1	324434.4	0.2044	mg/L	51.10 ppm
2	Mo 202.030	-50.4	-21.9	-0.0012	mg/L	-0.2896 ppm
2	Ni 231.604	575.9	300.7	0.0059	mg/L	1.485 ppm
2	Pb 220.353	173.0	-11.9	0.0010	mg/L	0.2554 ppm
2	Sb 206.833	68.1	7.5	0.0018	mg/L	0.4494 ppm
2	Se 196.026	62.3	-22.0	-0.0062	mg/L	-1.551 ppm
2	Tl 190.800	194.3	5.8	0.0017	mg/L	0.4200 ppm
2	V 292.402	1485.6	1322.9	0.0119	mg/L	2.966 ppm
2	Zn 213.856	900.6	1484.0	0.0140	mg/L	3.499 ppm
3	Ag 328.068	-998.5	75.4	0.0004	mg/L	0.0935 ppm
3	Al 308.215	104680.0	100082.4	2.743	mg/L	685.8 ppm
3	As 188.979	50.1	-19.4	0.0057	mg/L	1.420 ppm
3	Ba 233.527	16355.9	17221.5	0.0487	mg/L	12.19 ppm
3	Be 313.107	-477.3	-63.1	0.0000	mg/L	-0.0057 ppm
3	Ca 227.547	132204.5	131921.0	504.6	mg/L	126100 ppm
3	Cd 228.802	88.4	-1.3	0.0000	mg/L	-0.0026 ppm
3	Co 228.616	-175.4	241.3	0.0023	mg/L	0.5702 ppm
3	Cr 267.716	693.8	853.6	0.0094	mg/L	2.360 ppm
3	Cu 324.754	2891.4	604.4	0.0019	mg/L	0.4743 ppm
3	Fe 273.955	302225.9	299236.1	6.009	mg/L	1502 ppm
3	Mg 279.079	231906.4	231310.2	7.283	mg/L	1821 ppm
3	Mn 257.610	324435.3	323314.6	0.2037	mg/L	50.92 ppm
3	Mo 202.030	-36.0	-7.5	-0.0004	mg/L	-0.0987 ppm
3	Ni 231.604	577.2	302.0	0.0060	mg/L	1.492 ppm
3	Pb 220.353	163.0	-21.9	0.0003	mg/L	0.0852 ppm
3	Sb 206.833	75.8	15.2	0.0036	mg/L	0.9093 ppm
3	Se 196.026	61.5	-22.8	-0.0065	mg/L	-1.619 ppm
3	Tl 190.800	192.8	4.3	0.0013	mg/L	0.3135 ppm
3	V 292.402	1494.0	1331.2	0.0119	mg/L	2.985 ppm
3	Zn 213.856	887.2	1470.6	0.0139	mg/L	3.467 ppm

ean Data ----------

ID: 6149-1 1/5 F=250 Seq. No.: 77 Sample No.: 55 A/S Pos: 63
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 250.0
Data: Original Date: 11/21/02 3:25:15 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	10.3	0.0001	0.00039	mg/L	0.0128	0.09822	ppm	767.78%
l 308.215	100783.3	2.762	0.0404	mg/L	690.6	10.09	ppm	1.46%
As 188.979	-18.8	0.0060	0.00049	mg/L	1.509	0.1217	ppm	8.07%
Ba 233.527	17397.4	0.0492	0.00079	mg/L	12.31	0.198	ppm	1.61%
e 313.107	-112.7	0.0000	0.00002	mg/L	-0.0102	0.00621	ppm	61.07%
a 227.547	133073.3	509.0	5.14	mg/L	127200	1284.5	ppm	1.01%
d 228.802	12.3	0.0001	0.00010	mg/L	0.0242	0.02485	ppm	102.80%
Co 228.616	247.6	0.0023	0.00008	mg/L	0.5852	0.02075	ppm	3.55%
r 267.716	862.7	0.0095	0.00009	mg/L	2.385	0.0225	ppm	0.94%
u 324.754	581.7	0.0018	0.00014	mg/L	0.4565	0.03620	ppm	7.93%
e 273.955	301255.6	6.050	0.0979	mg/L	1512	24.5	ppm	1.62%
Mg 279.079	233243.0	7.344	0.0789	mg/L	1836	19.7	ppm	1.07%
n 257.610	326017.5	0.2054	0.00236	mg/L	51.35	0.591	ppm	1.15%
o 202.030	-13.4	-0.0007	0.00040	mg/L	-0.1775	0.09969	ppm	56.15%
i 231.604	299.9	0.0059	0.00005	mg/L	1.482	0.0122	ppm	0.83%
Pb 220.353	-15.6	0.0008	0.00038	mg/L	0.1941	0.09461	ppm	48.74%
Sb 206.833	8.1	0.0019	0.00163	mg/L	0.4848	0.40787	ppm	84.12%

Se 196.026	-19.7	-0.0053	0.00177 mg/L	-1.331	0.4424 ppm	33.25%
Tl 190.800	5.7	0.0017	0.00040 mg/L	0.4155	0.09980 ppm	24.02%
V 292.402	1337.4	0.0120	0.00016 mg/L	2.999	0.0412 ppm	1.37%
Zn 213.856	1486.6	0.0140	0.00016 mg/L	3.505	0.0412 ppm	1.17%

Replicate Data ----------

ID: 6149-1 MS F=50 Date: 11/21/02 3:28:44 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	187887.1	188961.0	0.9367	mg/L	46.84	ppm
1	Al 308.215	498992.5	494394.9	13.55	mg/L	677.5	ppm
1	As 188.979	1184.7	1115.3	0.4966	mg/L	24.83	ppm
1	Ba 233.527	1330418.2	1331283.8	3.768	mg/L	188.4	ppm
1	Be 313.107	487455.1	487869.3	0.1761	mg/L	8.804	ppm
1	Ca 227.547	607480.3	607196.9	2322	mg/L	116100	ppm
1	Cd 228.802	29933.0	29843.3	0.2355	mg/L	11.78	ppm
1	Co 228.616	94990.6	95407.3	0.9019	mg/L	45.09	ppm
1	Cr 267.716	81014.1	81173.9	0.8976	mg/L	44.88	ppm
1	Cu 324.754	281879.5	279592.5	0.8777	mg/L	43.88	ppm
1	Fe 273.955	1315236.5	1312246.7	26.35	mg/L	1318	ppm
1	Mg 279.079	1206617.7	1206021.5	37.97	mg/L	1899	ppm
1	Mn 257.610	2611144.9	2610024.2	1.644	mg/L	82.22	ppm
1	Mo 202.030	33810.1	33838.6	1.793	mg/L	89.63	ppm
1	Ni 231.604	45834.4	45559.2	0.9003	mg/L	45.01	ppm
1	Pb 220.353	39280.4	39095.5	2.624	mg/L	131.2	ppm
1	Sb 206.833	2032.9	1972.3	0.4456	mg/L	22.28	ppm
1	Se 196.026	1294.3	1210.0	0.4474	mg/L	22.37	ppm
1	Tl 190.800	1660.2	1471.7	0.4252	mg/L	21.26	ppm
1	V 292.402	203282.0	203119.2	1.822	mg/L	91.09	ppm
1	Zn 213.856	53845.2	54428.6	0.5133	mg/L	25.67	ppm
2	Ag 328.068	189655.8	190729.8	0.9455	mg/L	47.27	ppm
2	Al 308.215	505680.8	501083.2	13.73	mg/L	686.7	ppm
2	As 188.979	1212.7	1143.2	0.5084	mg/L	25.42	ppm
2	Ba 233.527	1343403.4	1344269.0	3.805	mg/L	190.3	ppm
2	Be 313.107	490923.4	491337.6	0.1773	mg/L	8.866	ppm
2	Ca 227.547	617248.0	616964.6	2360	mg/L	118000	ppm
2	Cd 228.802	30495.6	30405.8	0.2400	mg/L	12.00	ppm
2	Co 228.616	95857.9	96274.6	0.9101	mg/L	45.50	ppm
2	Cr 267.716	81973.3	82133.1	0.9082	mg/L	45.41	ppm
2	Cu 324.754	289235.2	286948.3	0.9008	mg/L	45.04	ppm
2	Fe 273.955	1325032.4	1322042.5	26.55	mg/L	1327	ppm
2	Mg 279.079	1220290.2	1219694.1	38.40	mg/L	1920	ppm
2	Mn 257.610	2654216.6	2653095.9	1.672	mg/L	83.58	ppm
2	Mo 202.030	33943.6	33972.1	1.800	mg/L	89.98	ppm
2	Ni 231.604	46304.7	46029.5	0.9095	mg/L	45.48	ppm
2	Pb 220.353	39476.5	39291.6	2.637	mg/L	131.9	ppm
2	Sb 206.833	2044.7	1984.1	0.4481	mg/L	22.41	ppm
2	Se 196.026	1299.3	1215.0	0.4493	mg/L	22.46	ppm
2	Tl 190.800	1672.4	1483.8	0.4287	mg/L	21.44	ppm
2	V 292.402	206208.0	206045.2	1.848	mg/L	92.40	ppm
2	Zn 213.856	54584.9	55168.3	0.5203	mg/L	26.02	ppm
3	Ag 328.068	184822.5	185896.5	0.9215	mg/L	46.08	ppm
3	Al 308.215	502968.8	498371.3	13.66	mg/L	683.0	ppm
3	As 188.979	1205.2	1135.7	0.5041	mg/L	25.20	ppm
3	Ba 233.527	1329658.1	1330523.7	3.766	mg/L	188.3	ppm
3	Be 313.107	486729.8	487144.0	0.1758	mg/L	8.791	ppm
3	Ca 227.547	604739.1	604455.6	2312	mg/L	115600	ppm
3	Cd 228.802	29434.9	29345.2	0.2316	mg/L	11.58	ppm
3	Co 228.616	93281.7	93698.4	0.8857	mg/L	44.29	ppm
3	Cr 267.716	80065.4	80225.2	0.8871	mg/L	44.35	ppm
3	Cu 324.754	282733.1	280446.2	0.8804	mg/L	44.02	ppm
3	Fe 273.955	1320737.7	1317747.9	26.46	mg/L	1323	ppm
3	Mg 279.079	1202487.3	1201891.1	37.84	mg/L	1892	ppm
3	Mn 257.610	2607919.4	2606798.7	1.642	mg/L	82.12	ppm
3	Mo 202.030	33093.0	33121.5	1.755	mg/L	87.73	ppm
3	Ni 231.604	44813.2	44538.0	0.8801	mg/L	44.00	ppm
3	Pb 220.353	38307.1	38122.2	2.559	mg/L	128.0	ppm
3	Sb 206.833	2056.5	1995.9	0.4515	mg/L	22.58	ppm

3 Se 196.026	1307.3	1223.0	0.4522 mg/L	22.61 ppm
3 Tl 190.800	1683.5	1495.0	0.4319 mg/L	21.60 ppm
3 V 292.402	200733.3	200570.6	1.799 mg/L	89.94 ppm
3 Zn 213.856	52894.9	53478.3	0.5044 mg/L	25.22 ppm

an Data ----------

ID: 6149-1 MS F=50 Seq. No.: 78 Sample No.: 56 A/S Pos: 64
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:28:44 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	188529.1	0.9346	0.01212	mg/L	46.73	0.606	ppm	1.30%
308.215	497949.8	13.65	0.092	mg/L	682.4	4.61	ppm	0.68%
188.979	1131.4	0.5030	0.00596	mg/L	25.15	0.298	ppm	1.19%
Ba 233.527	1335358.8	3.780	0.0219	mg/L	189.0	1.09	ppm	0.58%
Be 313.107	488783.6	0.1764	0.00081	mg/L	8.820	0.0404	ppm	0.46%
227.547	609539.0	2331	25.1	mg/L	116600	1257.4	ppm	1.08%
228.802	29864.7	0.2357	0.00419	mg/L	11.79	0.209	ppm	1.78%
Co 228.616	95126.8	0.8992	0.01239	mg/L	44.96	0.620	ppm	1.38%
Cr 267.716	81177.4	0.8976	0.01055	mg/L	44.88	0.527	ppm	1.18%
324.754	282329.0	0.8863	0.01263	mg/L	44.31	0.631	ppm	1.42%
273.955	1317345.7	26.46	0.099	mg/L	1323	4.9	ppm	0.37%
279.079	1209202.2	38.07	0.293	mg/L	1904	14.7	ppm	0.77%
Mn 257.610	2623306.2	1.653	0.0163	mg/L	82.64	0.814	ppm	0.99%
202.030	33644.0	1.782	0.0242	mg/L	89.11	1.212	ppm	1.36%
231.604	45375.5	0.8966	0.01507	mg/L	44.83	0.753	ppm	1.68%
220.353	38836.5	2.607	0.0420	mg/L	130.3	2.10	ppm	1.61%
Sb 206.833	1984.1	0.4484	0.00298	mg/L	22.42	0.149	ppm	0.66%
196.026	1216.0	0.4496	0.00239	mg/L	22.48	0.119	ppm	0.53%
190.800	1483.5	0.4286	0.00337	mg/L	21.43	0.168	ppm	0.79%
292.402	203245.0	1.823	0.0246	mg/L	91.14	1.228	ppm	1.35%
Zn 213.856	54358.4	0.5127	0.00799	mg/L	25.63	0.399	ppm	1.56%

trix Check Sample: 6149-1 MS F=50

ement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
328.068	1.000	0.9346	0.012	mg/L	93.409
Al 308.215	14.46	13.65	0.092	mg/L	59.559
As 188.979	0.5381	0.5030	0.006	mg/L	92.978
233.527	4.217	3.780	0.022	mg/L	89.077
313.107	0.1997	0.1764	0.001	mg/L	88.329
Ca 227.547	2377	2331	25.148	mg/L	-130.812
Cd 228.802	0.2509	0.2357	0.004	mg/L	93.942
228.616	1.009	0.8992	0.012	mg/L	89.028
267.716	1.043	0.8976	0.011	mg/L	85.451
324.754	1.010	0.8863	0.013	mg/L	87.604
Fe 273.955	27.53	26.46	0.099	mg/L	-7.917
Mg 279.079	42.10	38.07	0.293	mg/L	59.766
257.610	1.904	1.653	0.016	mg/L	74.846
202.030	1.998	1.782	0.024	mg/L	89.212
Ni 231.604	1.025	0.8966	0.015	mg/L	87.186
Pb 220.353	3.008	2.607	0.042	mg/L	86.634
206.833	0.5057	0.4484	0.003	mg/L	88.544
196.026	0.4990	0.4496	0.002	mg/L	90.123
Tl 190.800	0.5124	0.4286	0.003	mg/L	83.241
V 292.402	2.052	1.823	0.025	mg/L	88.555
213.856	0.5689	0.5127	0.008	mg/L	88.754

Replicate Data ----------

ID: 6149-1 MSD F=50 Date: 11/21/02 3:32:20 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	189157.7	190231.7	0.9430	mg/L	47.15	ppm
1	Al 308.215	487673.9	483076.4	13.24	mg/L	662.0	ppm
1	As 188.979	1205.1	1135.6	0.5029	mg/L	25.14	ppm
1	Ba 233.527	1302904.8	1303770.4	3.691	mg/L	184.5	ppm
1	Be 313.107	477212.2	477626.4	0.1724	mg/L	8.619	ppm

1	Ca 227.547	591521.6	591238.2	2261	mg/L	113100 ppm
1	Cd 228.802	30298.3	30208.6	0.2384	mg/L	11.92 ppm
1	Co 228.616	95556.4	95973.1	0.9072	mg/L	45.36 ppm
1	Cr 267.716	81845.7	82005.5	0.9068	mg/L	45.34 ppm
1	Cu 324.754	287868.7	285581.7	0.8965	mg/L	44.82 ppm
1	Fe 273.955	1286865.0	1283875.2	25.78	mg/L	1289 ppm
1	Mg 279.079	1180793.2	1180197.1	37.16	mg/L	1858 ppm
1	Mn 257.610	2558871.6	2557750.9	1.611	mg/L	80.57 ppm
1	Mo 202.030	33791.7	33820.2	1.792	mg/L	89.58 ppm
1	Ni 231.604	46251.4	45976.2	0.9085	mg/L	45.42 ppm
1	Pb 220.353	39354.9	39170.0	2.629	mg/L	131.4 ppm
1	Sb 206.833	2043.0	1982.4	0.4477	mg/L	22.39 ppm
1	Se 196.026	1300.8	1216.6	0.4496	mg/L	22.48 ppm
1	Tl 190.800	1683.3	1494.8	0.4319	mg/L	21.60 ppm
1	V 292.402	204851.8	204689.0	1.836	mg/L	91.79 ppm
1	Zn 213.856	54571.6	55155.0	0.5202	mg/L	26.01 ppm
2	Ag 328.068	188277.4	189351.3	0.9386	mg/L	46.93 ppm
2	Al 308.215	505086.9	500489.3	13.72	mg/L	685.9 ppm
2	As 188.979	1203.8	1134.3	0.5045	mg/L	25.22 ppm
2	Ba 233.527	1341964.8	1342830.4	3.801	mg/L	190.1 ppm
2	Be 313.107	488008.9	488423.1	0.1763	mg/L	8.814 ppm
2	Ca 227.547	612572.1	612288.7	2342	mg/L	117100 ppm
2	Cd 228.802	30337.3	30247.5	0.2387	mg/L	11.94 ppm
2	Co 228.616	95340.9	95757.6	0.9052	mg/L	45.26 ppm
2	Cr 267.716	81665.0	81824.8	0.9048	mg/L	45.24 ppm
2	Cu 324.754	289234.6	286947.7	0.9008	mg/L	45.04 ppm
2	Fe 273.955	1324569.1	1321579.3	26.54	mg/L	1327 ppm
2	Mg 279.079	1214854.9	1214258.8	38.23	mg/L	1912 ppm
2	Mn 257.610	2644463.6	2643342.9	1.665	mg/L	83.27 ppm
2	Mo 202.030	33926.5	33955.0	1.799	mg/L	89.93 ppm
2	Ni 231.604	45548.8	45273.6	0.8946	mg/L	44.73 ppm
2	Pb 220.353	39140.5	38955.6	2.615	mg/L	130.7 ppm
2	Sb 206.833	2052.4	1991.7	0.4500	mg/L	22.50 ppm
2	Se 196.026	1307.8	1223.5	0.4524	mg/L	22.62 ppm
2	Tl 190.800	1674.9	1486.4	0.4294	mg/L	21.47 ppm
2	V 292.402	205126.6	204963.8	1.838	mg/L	91.91 ppm
2	Zn 213.856	54187.1	54770.4	0.5165	mg/L	25.83 ppm
3	Ag 328.068	187891.5	188965.5	0.9367	mg/L	46.84 ppm
3	Al 308.215	493907.4	489309.8	13.41	mg/L	670.6 ppm
3	As 188.979	1200.1	1130.6	0.5012	mg/L	25.06 ppm
3	Ba 233.527	1314825.2	1315690.8	3.724	mg/L	186.2 ppm
3	Be 313.107	481303.5	481717.7	0.1739	mg/L	8.693 ppm
3	Ca 227.547	594768.4	594485.0	2274	mg/L	113700 ppm
3	Cd 228.802	30037.1	29947.4	0.2364	mg/L	11.82 ppm
3	Co 228.616	94713.1	95129.8	0.8993	mg/L	44.96 ppm
3	Cr 267.716	81550.3	81710.1	0.9035	mg/L	45.18 ppm
3	Cu 324.754	288247.3	285960.4	0.8977	mg/L	44.88 ppm
3	Fe 273.955	1303616.1	1300626.2	26.12	mg/L	1306 ppm
3	Mg 279.079	1188818.0	1188221.9	37.41	mg/L	1871 ppm
3	Mn 257.610	2571536.9	2570416.2	1.619	mg/L	80.97 ppm
3	Mo 202.030	33674.9	33703.4	1.785	mg/L	89.27 ppm
3	Ni 231.604	45708.8	45433.6	0.8978	mg/L	44.89 ppm
3	Pb 220.353	38945.3	38760.4	2.602	mg/L	130.1 ppm
3	Sb 206.833	2043.0	1982.4	0.4478	mg/L	22.39 ppm
3	Se 196.026	1304.4	1220.1	0.4510	mg/L	22.55 ppm
3	Tl 190.800	1686.6	1498.1	0.4328	mg/L	21.64 ppm
3	V 292.402	204291.7	204129.0	1.831	mg/L	91.54 ppm
3	Zn 213.856	53727.9	54311.3	0.5122	mg/L	25.61 ppm

Mean Data ----------

ID: 6149-1 MSD F=50 Seq. No.: 79 Sample No.: 57 A/S Pos: 65
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:32:20 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	189516.2	0.9395	0.00322	mg/L	46.97	0.161	ppm	0.34%
Al 308.215	490958.5	13.46	0.242	mg/L	672.8	12.09	ppm	1.80%
As 188.979	1133.5	0.5029	0.00162	mg/L	25.14	0.081	ppm	0.32%
Ba 233.527	1320763.9	3.739	0.0567	mg/L	186.9	2.83	ppm	1.52%

	313.107	482589.1	0.1742	0.00197 mg/L	8.708	0.0984 ppm	1.13%
	227.547	599337.3	2292	43.3 mg/L	114600	2167.3 ppm	1.89%
Cu	228.802	30134.5	0.2378	0.00129 mg/L	11.89	0.064 ppm	0.54%
Co	228.616	95620.2	0.9039	0.00414 mg/L	45.19	0.207 ppm	0.46%
	267.716	81846.8	0.9050	0.00165 mg/L	45.25	0.082 ppm	0.18%
	324.754	286163.3	0.8983	0.00221 mg/L	44.92	0.111 ppm	0.25%
Fe	273.955	1302026.9	26.15	0.379 mg/L	1307	19.0 ppm	1.45%
Mg	279.079	1194225.9	37.60	0.561 mg/L	1880	28.0 ppm	1.49%
	257.610	2590503.3	1.632	0.0291 mg/L	81.60	1.455 ppm	1.78%
	202.030	33826.2	1.792	0.0067 mg/L	89.59	0.333 ppm	0.37%
	231.604	45561.1	0.9003	0.00728 mg/L	45.01	0.364 ppm	0.81%
Pb	220.353	38962.0	2.615	0.0137 mg/L	130.8	0.68 ppm	0.52%
Sb	206.833	1985.5	0.4485	0.00130 mg/L	22.43	0.065 ppm	0.29%
	196.026	1220.1	0.4510	0.00138 mg/L	22.55	0.069 ppm	0.31%
	190.800	1493.1	0.4314	0.00177 mg/L	21.57	0.088 ppm	0.41%
V	292.402	204593.9	1.835	0.0038 mg/L	91.75	0.191 ppm	0.21%
Zn	213.856	54745.6	0.5163	0.00398 mg/L	25.82	0.199 ppm	0.77%

Matrix Check Sample: 6149-1 MSD F=50

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
Ag 328.068	1.000	0.9395	0.003	mg/L	93.898
Al 308.215	14.46	13.46	0.242	mg/L	49.978
188.979	0.5381	0.5029	0.002	mg/L	92.946
233.527	4.217	3.739	0.057	mg/L	88.044
313.107	0.1997	0.1742	0.002	mg/L	87.211
Ca 227.547	2377	2292	43.345	mg/L	-325.904
Cd 228.802	0.2509	0.2378	0.001	mg/L	94.794
228.616	1.009	0.9039	0.004	mg/L	89.494
267.716	1.043	0.9050	0.002	mg/L	86.191
Cu 324.754	1.010	0.8983	0.002	mg/L	88.807
Fe 273.955	27.53	26.15	0.379	mg/L	-38.681
279.079	42.10	37.60	0.561	mg/L	55.050
257.610	1.904	1.632	0.029	mg/L	72.780
Mo 202.030	1.998	1.792	0.007	mg/L	89.695
Ni 231.604	1.025	0.9003	0.007	mg/L	87.553
220.353	3.008	2.615	0.014	mg/L	86.909
206.833	0.5057	0.4485	0.001	mg/L	88.568
Se 196.026	0.4990	0.4510	0.001	mg/L	90.399
Tl 190.800	0.5124	0.4314	0.002	mg/L	83.799
292.402	2.052	1.835	0.004	mg/L	89.160
213.856	0.5689	0.5163	0.004	mg/L	89.484

Replicate Data ----------

: 6149-1 PS F=50 Date: 11/21/02 3:35:57 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	198951.2	200025.1	0.9916	mg/L	49.58	ppm
1	Al 308.215	504006.2	499408.6	13.69	mg/L	684.4	ppm
1	As 188.979	1270.2	1200.8	0.5278	mg/L	26.39	ppm
1	Ba 233.527	1355453.7	1356319.3	3.839	mg/L	192.0	ppm
1	Be 313.107	500419.6	500833.8	0.1808	mg/L	9.038	ppm
1	Ca 227.547	587548.6	587265.2	2246	mg/L	112300	ppm
1	Cd 228.802	31758.5	31668.7	0.2499	mg/L	12.50	ppm
1	Co 228.616	99882.4	100299.1	0.9481	mg/L	47.41	ppm
1	Cr 267.716	85581.9	85741.7	0.9481	mg/L	47.40	ppm
1	Cu 324.754	300293.1	298006.2	0.9355	mg/L	46.77	ppm
1	Fe 273.955	1304522.8	1301533.0	26.14	mg/L	1307	ppm
1	Mg 279.079	1248023.6	1247427.4	39.28	mg/L	1964	ppm
1	Mn 257.610	2789572.5	2788451.8	1.757	mg/L	87.84	ppm
1	Mo 202.030	35530.0	35558.5	1.884	mg/L	94.18	ppm
1	Ni 231.604	48895.6	48620.4	0.9607	mg/L	48.04	ppm
1	Pb 220.353	41087.3	40902.5	2.745	mg/L	137.2	ppm
1	Sb 206.833	2145.3	2084.6	0.4710	mg/L	23.55	ppm
1	Se 196.026	1377.6	1293.3	0.4776	mg/L	23.88	ppm
1	Tl 190.800	1751.7	1563.2	0.4516	mg/L	22.58	ppm
1	V 292.402	213311.8	213149.1	1.912	mg/L	95.58	ppm
1	Zn 213.856	57505.3	58088.7	0.5478	mg/L	27.39	ppm

2 Ag 328.068	201997.9	203071.9	1.007	mg/L	50.33 ppm
2 Al 308.215	507249.5	502651.9	13.78	mg/L	688.8 ppm
2 As 188.979	1260.3	1190.9	0.5252	mg/L	26.26 ppm
2 Ba 233.527	1364599.0	1365464.6	3.865	mg/L	193.3 ppm
2 Be 313.107	502447.9	502862.1	0.1815	mg/L	9.074 ppm
2 Ca 227.547	598118.2	597834.8	2287	mg/L	114300 ppm
2 Cd 228.802	32565.7	32475.9	0.2563	mg/L	12.82 ppm
2 Co 228.616	102389.6	102806.3	0.9718	mg/L	48.59 ppm
2 Cr 267.716	87144.4	87304.1	0.9654	mg/L	48.27 ppm
2 Cu 324.754	311475.3	309188.3	0.9706	mg/L	48.53 ppm
2 Fe 273.955	1306976.2	1303986.3	26.19	mg/L	1309 ppm
2 Mg 279.079	1256148.3	1255552.2	39.53	mg/L	1977 ppm
2 Mn 257.610	2824102.0	2822981.3	1.779	mg/L	88.93 ppm
2 Mo 202.030	36163.6	36192.1	1.917	mg/L	95.86 ppm
2 Ni 231.604	49970.7	49695.5	0.9820	mg/L	49.10 ppm
2 Pb 220.353	41990.7	41805.8	2.805	mg/L	140.3 ppm
2 Sb 206.833	2147.5	2086.9	0.4710	mg/L	23.55 ppm
2 Se 196.026	1366.8	1282.5	0.4737	mg/L	23.68 ppm
2 Tl 190.800	1753.9	1565.4	0.4523	mg/L	22.61 ppm
2 V 292.402	217927.1	217764.3	1.953	mg/L	97.65 ppm
2 Zn 213.856	59078.1	59661.5	0.5627	mg/L	28.13 ppm
3 Ag 328.068	195598.1	196672.1	0.9749	mg/L	48.75 ppm
3 Al 308.215	517770.7	513173.1	14.07	mg/L	703.3 ppm
3 As 188.979	1272.7	1203.3	0.5304	mg/L	26.52 ppm
3 Ba 233.527	1385660.1	1386525.7	3.925	mg/L	196.2 ppm
3 Be 313.107	507004.8	507419.0	0.1831	mg/L	9.156 ppm
3 Ca 227.547	604024.7	603741.2	2309	mg/L	115500 ppm
3 Cd 228.802	31341.7	31252.0	0.2467	mg/L	12.33 ppm
3 Co 228.616	99274.5	99691.2	0.9424	mg/L	47.12 ppm
3 Cr 267.716	84980.4	85140.2	0.9414	mg/L	47.07 ppm
3 Cu 324.754	300147.0	297860.0	0.9350	mg/L	46.75 ppm
3 Fe 273.955	1332324.1	1329334.3	26.70	mg/L	1335 ppm
3 Mg 279.079	1271397.1	1270801.0	40.01	mg/L	2001 ppm
3 Mn 257.610	2858303.9	2857183.1	1.800	mg/L	90.00 ppm
3 Mo 202.030	34988.3	35016.8	1.855	mg/L	92.75 ppm
3 Ni 231.604	47984.6	47709.4	0.9427	mg/L	47.14 ppm
3 Pb 220.353	40730.5	40545.6	2.721	mg/L	136.1 ppm
3 Sb 206.833	2140.3	2079.7	0.4700	mg/L	23.50 ppm
3 Se 196.026	1376.1	1291.8	0.4762	mg/L	23.81 ppm
3 Tl 190.800	1759.4	1570.9	0.4538	mg/L	22.69 ppm
3 V 292.402	212895.6	212732.9	1.908	mg/L	95.40 ppm
3 Zn 213.856	56851.9	57435.2	0.5417	mg/L	27.08 ppm

Mean Data

ID: 6149-1 PS F=50 Seq. No.: 80 Sample No.: 58 A/S Pos: 66
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:35:57 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	199923.0	0.9910	0.01587	mg/L	49.55	0.793	ppm	1.60%
Al 308.215	505077.9	13.84	0.197	mg/L	692.2	9.86	ppm	1.42%
As 188.979	1198.3	0.5278	0.00259	mg/L	26.39	0.130	ppm	0.49%
Ba 233.527	1369436.5	3.876	0.0438	mg/L	193.8	2.19	ppm	1.13%
Be 313.107	503705.0	0.1818	0.00122	mg/L	9.089	0.0609	ppm	0.67%
Ca 227.547	596280.4	2281	31.9	mg/L	114000	1596.3	ppm	1.40%
Cd 228.802	31798.9	0.2510	0.00491	mg/L	12.55	0.246	ppm	1.96%
Co 228.616	100932.2	0.9541	0.01561	mg/L	47.71	0.780	ppm	1.64%
Cr 267.716	86062.0	0.9516	0.01235	mg/L	47.58	0.618	ppm	1.30%
Cu 324.754	301684.9	0.9470	0.02040	mg/L	47.35	1.020	ppm	2.15%
Fe 273.955	1311617.9	26.34	0.309	mg/L	1317	15.5	ppm	1.17%
Mg 279.079	1257926.9	39.61	0.374	mg/L	1980	18.7	ppm	0.94%
Mn 257.610	2822872.1	1.778	0.0217	mg/L	88.92	1.083	ppm	1.22%
Mo 202.030	35589.1	1.885	0.0312	mg/L	94.26	1.558	ppm	1.65%
Ni 231.604	48675.1	0.9618	0.01964	mg/L	48.09	0.982	ppm	2.04%
Pb 220.353	41084.6	2.757	0.0434	mg/L	137.9	2.17	ppm	1.58%
Sb 206.833	2083.7	0.4707	0.00058	mg/L	23.53	0.029	ppm	0.12%
Se 196.026	1289.2	0.4758	0.00199	mg/L	23.79	0.099	ppm	0.42%
Tl 190.800	1566.5	0.4526	0.00112	mg/L	22.63	0.056	ppm	0.25%
V 292.402	214548.8	1.924	0.0250	mg/L	96.21	1.252	ppm	1.30%

n 213.856	58395.1	0.5507	0.01079 mg/L	27.54	0.540 ppm	1.96%

Matrix Check Sample: 6149-1 PS F=50

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
Ag 328.068	1.000	0.9910	0.016	mg/L	99.057
l 308.215	14.46	13.84	0.197	mg/L	69.327
s 188.979	0.5381	0.5278	0.003	mg/L	97.934
a 233.527	4.217	3.876	0.044	mg/L	91.488
Be 313.107	0.1997	0.1818	0.001	mg/L	91.021
Ca 227.547	2377	2281	31.926	mg/L	-384.362
d 228.802	0.2509	0.2510	0.005	mg/L	100.048
o 228.616	1.009	0.9541	0.016	mg/L	94.516
Cr 267.716	1.043	0.9516	0.012	mg/L	90.852
Cu 324.754	1.010	0.9470	0.020	mg/L	93.680
e 273.955	27.53	26.34	0.309	mg/L	-19.420
g 279.079	42.10	39.61	0.374	mg/L	75.107
Mn 257.610	1.904	1.778	0.022	mg/L	87.419
Mo 202.030	1.998	1.885	0.031	mg/L	94.364
i 231.604	1.025	0.9618	0.020	mg/L	93.706
b 220.353	3.008	2.757	0.043	mg/L	91.642
b 206.833	0.5057	0.4707	0.001	mg/L	92.997
Se 196.026	0.4990	0.4758	0.002	mg/L	95.365
l 190.800	0.5124	0.4526	0.001	mg/L	88.035
292.402	2.052	1.924	0.025	mg/L	93.624
n 213.856	0.5689	0.5507	0.011	mg/L	96.368

Replicate Data ----------

D: 6149-2 F=50 Date: 11/21/02 3:39:28 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-932.8	141.1	0.0007	mg/L	0.0350	ppm
1	Al 308.215	378701.7	374104.1	10.25	mg/L	512.7	ppm
1	As 188.979	-7.4	-76.8	0.0262	mg/L	1.308	ppm
1	Ba 233.527	63092.2	63957.8	0.1810	mg/L	9.052	ppm
1	Be 313.107	-490.0	-75.8	0.0000	mg/L	-0.0014	ppm
1	Ca 227.547	559829.9	559546.5	2140	mg/L	107000	ppm
1	Cd 228.802	204.4	114.7	0.0009	mg/L	0.0453	ppm
1	Co 228.616	388.4	805.1	0.0076	mg/L	0.3805	ppm
1	Cr 267.716	2666.2	2826.0	0.0312	mg/L	1.562	ppm
1	Cu 324.754	7099.4	4812.5	0.0151	mg/L	0.7553	ppm
1	Fe 273.955	1039052.5	1036062.7	20.81	mg/L	1040	ppm
1	Mg 279.079	878408.1	877811.9	27.64	mg/L	1382	ppm
1	Mn 257.610	1343393.9	1342273.2	0.8457	mg/L	42.28	ppm
1	Mo 202.030	-72.2	-43.6	-0.0023	mg/L	-0.1156	ppm
1	Ni 231.604	1037.3	762.1	0.0151	mg/L	0.7529	ppm
1	Pb 220.353	184.4	-0.5	0.0076	mg/L	0.3811	ppm
1	Sb 206.833	70.7	10.1	0.0024	mg/L	0.1208	ppm
1	Se 196.026	74.3	-10.0	0.0026	mg/L	0.1315	ppm
1	Tl 190.800	231.4	42.9	0.0119	mg/L	0.5959	ppm
1	V 292.402	5006.4	4843.6	0.0434	mg/L	2.172	ppm
1	Zn 213.856	5364.3	5947.7	0.0561	mg/L	2.805	ppm
2	Ag 328.068	-975.8	98.2	0.0005	mg/L	0.0243	ppm
2	Al 308.215	364890.7	360293.1	9.875	mg/L	493.8	ppm
2	As 188.979	-4.8	-74.3	0.0257	mg/L	1.284	ppm
2	Ba 233.527	60759.5	61625.1	0.1744	mg/L	8.722	ppm
2	Be 313.107	-533.9	-119.7	0.0000	mg/L	-0.0022	ppm
2	Ca 227.547	545283.6	545000.2	2084	mg/L	104200	ppm
2	Cd 228.802	221.3	131.5	0.0010	mg/L	0.0519	ppm
2	Co 228.616	359.7	776.4	0.0073	mg/L	0.3670	ppm
2	Cr 267.716	2619.3	2779.1	0.0307	mg/L	1.536	ppm
2	Cu 324.754	6759.0	4472.1	0.0140	mg/L	0.7019	ppm
2	Fe 273.955	1000908.3	997918.5	20.04	mg/L	1002	ppm
2	Mg 279.079	852930.9	852334.7	26.84	mg/L	1342	ppm
2	Mn 257.610	1310072.5	1308951.8	0.8247	mg/L	41.23	ppm
2	Mo 202.030	-70.6	-42.1	-0.0022	mg/L	-0.1116	ppm
2	Ni 231.604	1021.7	746.5	0.0148	mg/L	0.7376	ppm

2 Pb 220.353	173.2	-11.7	0.0067	mg/L	0.3338 ppm
2 Sb 206.833	92.0	31.3	0.0075	mg/L	0.3746 ppm
2 Se 196.026	75.9	-8.4	0.0030	mg/L	0.1494 ppm
2 Tl 190.800	231.2	42.7	0.0119	mg/L	0.5965 ppm
2 V 292.402	4965.0	4802.2	0.0431	mg/L	2.153 ppm
2 Zn 213.856	5352.5	5935.9	0.0560	mg/L	2.799 ppm
3 Ag 328.068	-880.3	193.7	0.0010	mg/L	0.0480 ppm
3 Al 308.215	378468.4	373870.8	10.25	mg/L	512.4 ppm
3 As 188.979	2.3	-67.2	0.0296	mg/L	1.478 ppm
3 Ba 233.527	62135.1	63000.7	0.1783	mg/L	8.917 ppm
3 Be 313.107	-532.7	-118.5	0.0000	mg/L	-0.0021 ppm
3 Ca 227.547	556678.4	556394.9	2128	mg/L	106400 ppm
3 Cd 228.802	194.2	104.4	0.0008	mg/L	0.0412 ppm
3 Co 228.616	352.5	769.2	0.0073	mg/L	0.3636 ppm
3 Cr 267.716	2647.1	2806.9	0.0310	mg/L	1.552 ppm
3 Cu 324.754	6122.0	3835.1	0.0120	mg/L	0.6019 ppm
3 Fe 273.955	1027368.3	1024378.5	20.57	mg/L	1029 ppm
3 Mg 279.079	871995.8	871399.7	27.44	mg/L	1372 ppm
3 Mn 257.610	1338854.2	1337733.5	0.8428	mg/L	42.14 ppm
3 Mo 202.030	-89.5	-61.0	-0.0032	mg/L	-0.1615 ppm
3 Ni 231.604	1008.5	733.3	0.0145	mg/L	0.7245 ppm
3 Pb 220.353	153.8	-31.1	0.0055	mg/L	0.2766 ppm
3 Sb 206.833	72.0	11.3	0.0027	mg/L	0.1354 ppm
3 Se 196.026	68.6	-15.7	0.0005	mg/L	0.0238 ppm
3 Tl 190.800	229.1	40.5	0.0112	mg/L	0.5625 ppm
3 V 292.402	5016.3	4853.6	0.0435	mg/L	2.177 ppm
3 Zn 213.856	5351.3	5934.7	0.0560	mg/L	2.799 ppm

Mean Data ----------

ID: 6149-2 F=50 Seq. No.: 81 Sample No.: 59 A/S Pos: 67
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:39:28 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	144.3	0.0007	0.00024	mg/L	0.0358	0.01186	ppm	33.14%
Al 308.215	369422.7	10.13	0.217	mg/L	506.3	10.84	ppm	2.14%
As 188.979	-72.7	0.0271	0.00211	mg/L	1.357	0.1053	ppm	7.76%
Ba 233.527	62861.2	0.1779	0.00332	mg/L	8.897	0.1660	ppm	1.87%
Be 313.107	-104.7	0.0000	0.00001	mg/L	-0.0019	0.00045	ppm	23.90%
Ca 227.547	553647.2	2118	29.3	mg/L	105900	1463.4	ppm	1.38%
Cd 228.802	116.9	0.0009	0.00011	mg/L	0.0461	0.00540	ppm	11.71%
Co 228.616	783.6	0.0074	0.00018	mg/L	0.3704	0.00898	ppm	2.43%
Cr 267.716	2804.0	0.0310	0.00026	mg/L	1.550	0.0130	ppm	0.84%
Cu 324.754	4373.2	0.0137	0.00156	mg/L	0.6864	0.07787	ppm	11.34%
Fe 273.955	1019453.2	20.47	0.392	mg/L	1024	19.6	ppm	1.92%
Mg 279.079	867182.1	27.30	0.417	mg/L	1365	20.9	ppm	1.53%
Mn 257.610	1329652.9	0.8377	0.01138	mg/L	41.89	0.569	ppm	1.36%
Mo 202.030	-48.9	-0.0026	0.00055	mg/L	-0.1296	0.02775	ppm	21.41%
Ni 231.604	747.3	0.0148	0.00028	mg/L	0.7383	0.01421	ppm	1.92%
Pb 220.353	-14.5	0.0066	0.00105	mg/L	0.3305	0.05232	ppm	15.83%
Sb 206.833	17.6	0.0042	0.00285	mg/L	0.2103	0.14253	ppm	67.79%
Se 196.026	-11.4	0.0020	0.00136	mg/L	0.1016	0.06796	ppm	66.91%
Tl 190.800	42.0	0.0117	0.00039	mg/L	0.5850	0.01947	ppm	3.33%
V 292.402	4833.1	0.0433	0.00024	mg/L	2.167	0.0122	ppm	0.56%
Zn 213.856	5939.4	0.0560	0.00007	mg/L	2.801	0.0034	ppm	0.12%

Replicate Data ----------

ID: CCV 1379B Date: 11/21/02 3:42:59 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	209255.9	210329.8	1.043	mg/L		
1	Al 308.215	194985.4	190387.8	5.218	mg/L		
1	As 188.979	1418.7	1349.3	0.5234	mg/L		
1	Ba 233.527	1820825.5	1821691.1	5.157	mg/L		
1	Be 313.107	1442140.2	1442554.4	0.5206	mg/L		
1	Ca 227.547	14457.4	14173.9	54.21	mg/L		
1	Cd 228.802	137252.3	137162.6	1.083	mg/L		
1	Co 228.616	229367.7	229784.4	2.172	mg/L		

1	Cr 267.716	46773.5	46933.3	0.5190	mg/L
1	Cu 324.754	669928.7	667641.7	2.096	mg/L
1	Fe 273.955	260733.6	257743.7	5.176	mg/L
1	Mg 279.079	825461.4	824865.3	25.97	mg/L
1	Mn 257.610	3356385.4	3355264.6	2.114	mg/L
1	Mo 202.030	39772.9	39801.4	2.108	mg/L
1	Ni 231.604	109965.5	109690.3	2.167	mg/L
1	Pb 220.353	7788.3	7603.4	0.5087	mg/L
1	Sb 206.833	8760.9	8700.2	2.066	mg/L
1	Se 196.026	1479.7	1395.4	0.5084	mg/L
1	Tl 190.800	1947.9	1759.4	0.5115	mg/L
1	V 292.402	230277.9	230115.1	2.064	mg/L
1	Zn 213.856	223393.8	223977.2	2.112	mg/L
2	Ag 328.068	204295.4	205369.3	1.018	mg/L
2	Al 308.215	190069.5	185471.9	5.083	mg/L
2	As 188.979	1419.4	1350.0	0.5235	mg/L
2	Ba 233.527	1830708.9	1831574.5	5.185	mg/L
2	Be 313.107	1459054.8	1459469.0	0.5267	mg/L
2	Ca 227.547	14070.3	13786.9	52.73	mg/L
2	Cd 228.802	134184.4	134094.6	1.058	mg/L
2	Co 228.616	224356.8	224773.5	2.125	mg/L
2	Cr 267.716	45632.1	45791.9	0.5063	mg/L
2	Cu 324.754	676215.9	673929.0	2.116	mg/L
2	Fe 273.955	254383.5	251393.6	5.049	mg/L
2	Mg 279.079	832310.0	831713.9	26.19	mg/L
2	Mn 257.610	3378918.9	3377798.2	2.128	mg/L
2	Mo 202.030	39031.3	39059.8	2.069	mg/L
2	Ni 231.604	108552.6	108277.4	2.140	mg/L
2	Pb 220.353	7776.3	7591.4	0.5079	mg/L
2	Sb 206.833	8730.7	8670.0	2.059	mg/L
2	Se 196.026	1492.8	1408.5	0.5131	mg/L
2	Tl 190.800	1950.0	1761.5	0.5121	mg/L
2	V 292.402	223247.4	223084.6	2.001	mg/L
2	Zn 213.856	220316.1	220899.5	2.083	mg/L
3	Ag 328.068	198000.0	199074.0	0.9868	mg/L
3	Al 308.215	183985.3	179387.7	4.917	mg/L
3	As 188.979	1423.6	1354.2	0.5249	mg/L
3	Ba 233.527	1798165.7	1799031.3	5.093	mg/L
3	Be 313.107	1426746.9	1427161.1	0.5151	mg/L
3	Ca 227.547	13709.2	13425.7	51.35	mg/L
3	Cd 228.802	131552.7	131462.9	1.038	mg/L
3	Co 228.616	219403.7	219820.4	2.078	mg/L
3	Cr 267.716	44258.6	44418.4	0.4912	mg/L
3	Cu 324.754	664767.8	662480.8	2.080	mg/L
3	Fe 273.955	245367.7	242377.9	4.867	mg/L
3	Mg 279.079	819767.6	819171.4	25.79	mg/L
3	Mn 257.610	3337627.0	3336506.3	2.102	mg/L
3	Mo 202.030	38026.5	38055.0	2.016	mg/L
3	Ni 231.604	105774.2	105499.0	2.085	mg/L
3	Pb 220.353	7794.2	7609.3	0.5091	mg/L
3	Sb 206.833	8771.2	8710.6	2.069	mg/L
3	Se 196.026	1484.8	1400.5	0.5102	mg/L
3	Tl 190.800	1960.0	1771.5	0.5150	mg/L
3	V 292.402	218245.2	218082.4	1.956	mg/L
3	Zn 213.856	214603.9	215187.3	2.029	mg/L

Mean Data ----------

D: CCV 1379B Seq. No.: 82 Sample No.: 5 A/S Pos: 6
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 3:42:59 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	204924.4	1.016	0.0280	mg/L				2.75%
Al 308.215	185082.5	5.073	0.1510	mg/L				2.98%
As 188.979	1351.1	0.5239	0.00087	mg/L				0.17%
Ba 233.527	1817432.3	5.145	0.0472	mg/L				0.92%
Be 313.107	1443061.5	0.5208	0.00583	mg/L				1.12%
Ca 227.547	13795.5	52.76	1.431	mg/L				2.71%
Cd 228.802	134240.0	1.059	0.0225	mg/L				2.13%

Co 228.616	224792.8	2.125	0.0471 mg/L	
Cr 267.716	45714.5	0.5055	0.01392 mg/L	2.22%
Cu 324.754	668017.2	2.097	0.0180 mg/L	2.75%
Fe 273.955	250505.1	5.031	0.1551 mg/L	0.86%
Mg 279.079	825250.2	25.98	0.198 mg/L	3.08%
Mn 257.610	3356523.0	2.115	0.0130 mg/L	0.76%
Mo 202.030	38972.1	2.064	0.0464 mg/L	0.62%
Ni 231.604	107822.3	2.131	0.0421 mg/L	2.25%
Pb 220.353	7601.4	0.5086	0.00061 mg/L	1.98%
Sb 206.833	8693.6	2.065	0.0052 mg/L	0.12%
Se 196.026	1401.5	0.5105	0.00238 mg/L	0.25%
Tl 190.800	1764.1	0.5129	0.00189 mg/L	0.47%
V 292.402	223760.7	2.007	0.0542 mg/L	0.37%
Zn 213.856	220021.3	2.075	0.0421 mg/L	2.70%
				2.03%

Replicate Data
ID: CCB

Date: 11/21/02 3:46:28 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-988.1	85.8	0.0004	mg/L		
1	Al 308.215	4963.6	366.0	0.0100	mg/L		
1	As 188.979	66.6	-2.8	-0.0011	mg/L		
1	Ba 233.527	-573.4	292.2	0.0008	mg/L		
1	Be 313.107	367.2	781.4	0.0003	mg/L		
1	Ca 227.547	244.1	-39.4	-0.1507	mg/L		
1	Cd 228.802	101.0	11.3	0.0001	mg/L		
1	Co 228.616	-258.0	158.7	0.0015	mg/L		
1	Cr 267.716	30.3	190.1	0.0021	mg/L		
1	Cu 324.754	2579.4	292.5	0.0009	mg/L		
1	Fe 273.955	1909.5	-1080.3	-0.0217	mg/L		
1	Mg 279.079	-363.5	-959.7	-0.0302	mg/L		
1	Mn 257.610	2316.7	1196.0	0.0008	mg/L		
1	Mo 202.030	-11.5	17.0	0.0009	mg/L		
1	Ni 231.604	460.0	184.8	0.0037	mg/L		
1	Pb 220.353	182.9	-2.0	-0.0001	mg/L		
1	Sb 206.833	75.0	14.4	0.0034	mg/L		
1	Se 196.026	66.7	-17.6	-0.0064	mg/L		
1	Tl 190.800	195.5	7.0	0.0020	mg/L		
1	V 292.402	340.4	177.7	0.0016	mg/L		
1	Zn 213.856	-311.6	271.8	0.0026	mg/L		
2	Ag 328.068	-1009.4	64.6	0.0003	mg/L		
2	Al 308.215	5008.1	410.6	0.0113	mg/L		
2	As 188.979	61.0	-8.4	-0.0032	mg/L		
2	Ba 233.527	-714.8	150.8	0.0004	mg/L		
2	Be 313.107	195.6	609.8	0.0002	mg/L		
2	Ca 227.547	301.1	17.6	0.0675	mg/L		
2	Cd 228.802	101.8	12.0	0.0001	mg/L		
2	Co 228.616	-314.0	102.7	0.0010	mg/L		
2	Cr 267.716	-176.3	-16.5	-0.0002	mg/L		
2	Cu 324.754	2572.5	285.6	0.0009	mg/L		
2	Fe 273.955	1770.3	-1219.6	-0.0245	mg/L		
2	Mg 279.079	-391.8	-988.0	-0.0311	mg/L		
2	Mn 257.610	1942.0	821.3	0.0005	mg/L		
2	Mo 202.030	-18.4	10.1	0.0005	mg/L		
2	Ni 231.604	368.7	93.5	0.0018	mg/L		
2	Pb 220.353	185.3	0.4	0.0000	mg/L		
2	Sb 206.833	64.1	3.4	0.0008	mg/L		
2	Se 196.026	68.6	-15.7	-0.0057	mg/L		
2	Tl 190.800	191.9	3.4	0.0010	mg/L		
2	V 292.402	280.1	117.4	0.0011	mg/L		
2	Zn 213.856	-387.6	195.8	0.0018	mg/L		
3	Ag 328.068	-1205.0	-131.0	-0.0006	mg/L		
3	Al 308.215	5021.6	424.0	0.0116	mg/L		
3	As 188.979	72.9	3.5	0.0013	mg/L		
3	Ba 233.527	-713.7	151.9	0.0004	mg/L		
3	Be 313.107	157.9	572.1	0.0002	mg/L		
3	Ca 227.547	166.4	-117.0	-0.4476	mg/L		
3	Cd 228.802	66.8	-22.9	-0.0002	mg/L		

3	Co 228.616	-309.3	107.4	0.0010	mg/L
3	Cr 267.716	-236.9	-77.1	-0.0009	mg/L
3	Cu 324.754	2611.1	324.2	0.0010	mg/L
3	Fe 273.955	1598.1	-1391.8	-0.0279	mg/L
3	Mg 279.079	-546.2	-1142.3	-0.0360	mg/L
3	Mn 257.610	1880.8	760.0	0.0005	mg/L
3	Mo 202.030	-12.5	16.0	0.0008	mg/L
3	Ni 231.604	251.4	-23.8	-0.0005	mg/L
3	Pb 220.353	173.7	-11.2	-0.0007	mg/L
3	Sb 206.833	65.1	4.5	0.0011	mg/L
3	Se 196.026	73.5	-10.8	-0.0039	mg/L
3	Tl 190.800	194.1	5.5	0.0016	mg/L
3	V 292.402	343.5	180.7	0.0016	mg/L
3	Zn 213.856	-417.8	165.6	0.0016	mg/L

Mean Data ----------

ID: CCB Seq. No.: 83 Sample No.: 6 A/S Pos: 1

Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0

Data: Original Date: 11/21/02 3:46:28 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	6.5	0.0000	0.00059	mg/L				>999.9%
l 308.215	400.2	0.0110	0.00083	mg/L				7.58%
As 188.979	-2.6	-0.0010	0.00228	mg/L				229.87%
Ba 233.527	198.3	0.0006	0.00023	mg/L				41.01%
e 313.107	654.4	0.0002	0.00004	mg/L				17.05%
a 227.547	-46.3	-0.1769	0.25854	mg/L				146.13%
Cd 228.802	0.1	0.0000	0.00016	mg/L				>999.9%
Co 228.616	122.9	0.0012	0.00029	mg/L				25.26%
r 267.716	32.1	0.0004	0.00155	mg/L				436.04%
u 324.754	300.8	0.0009	0.00006	mg/L				6.85%
Fe 273.955	-1230.5	-0.0247	0.00313	mg/L				12.68%
Mg 279.079	-1030.0	-0.0324	0.00310	mg/L				9.54%
n 257.610	925.8	0.0006	0.00015	mg/L				25.49%
o 202.030	14.4	0.0008	0.00020	mg/L				25.77%
Ni 231.604	84.8	0.0017	0.00207	mg/L				123.28%
Pb 220.353	-4.2	-0.0003	0.00041	mg/L				143.96%
b 206.833	7.4	0.0018	0.00144	mg/L				80.98%
e 196.026	-14.7	-0.0053	0.00127	mg/L				23.84%
l 190.800	5.3	0.0015	0.00053	mg/L				34.33%
V 292.402	158.6	0.0014	0.00032	mg/L				22.53%
Zn 213.856	211.1	0.0020	0.00052	mg/L				25.92%

Replicate Data ----------

ID: 6149-3 F=50 Date: 11/21/02 3:49:37 PM

Rpl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-2333.1	-1259.2	-0.0062	mg/L	-0.3121	ppm
1	Al 308.215	4392842.1	4388244.6	120.3	mg/L	6014	ppm
1	As 188.979	133.4	64.0	0.0664	mg/L	3.319	ppm
1	Ba 233.527	244544.6	245410.2	0.6947	mg/L	34.73	ppm
1	Be 313.107	5381.8	5796.0	0.0021	mg/L	0.1046	ppm
1	Ca 227.547	399563.7	399280.3	1531	mg/L	76550	ppm
1	Cd 228.802	468.8	379.1	0.0030	mg/L	0.1496	ppm
1	Co 228.616	7987.9	8404.6	0.0794	mg/L	3.972	ppm
1	Cr 267.716	21943.9	22103.6	0.2401	mg/L	12.01	ppm
1	Cu 324.754	35173.9	32886.9	0.1112	mg/L	5.559	ppm
1	Fe 273.955	8648386.8	8645396.9	173.6	mg/L	8681	ppm
1	Mg 279.079	2778641.8	2778045.7	87.47	mg/L	4373	ppm
1	Mn 257.610	3801122.2	3800001.5	2.394	mg/L	119.7	ppm
1	Mo 202.030	37.6	66.1	-0.0032	mg/L	-0.1620	ppm
1	Ni 231.604	8436.0	8160.8	0.1613	mg/L	8.063	ppm
1	Pb 220.353	1397.3	1212.4	0.0920	mg/L	4.602	ppm
1	Sb 206.833	145.6	85.0	0.0025	mg/L	0.1234	ppm
1	Se 196.026	-21.8	-106.1	0.0050	mg/L	0.2497	ppm
1	Tl 190.800	346.5	157.9	0.0029	mg/L	0.1444	ppm
1	V 292.402	37416.9	37254.2	0.3341	mg/L	16.71	ppm
1	Zn 213.856	65296.0	65879.4	0.6030	mg/L	30.15	ppm

2	Ag 328.068	-2075.7	-1001.8	-0.0050	mg/L	-0.2483 ppm
2	Al 308.215	4436120.0	4431522.4	121.5	mg/L	6073 ppm
2	As 188.979	146.9	77.5	0.0725	mg/L	3.626 ppm
2	Ba 233.527	249842.9	250708.5	0.7097	mg/L	35.48 ppm
2	Be 313.107	5652.2	6066.4	0.0022	mg/L	0.1095 ppm
2	Ca 227.547	410053.8	409770.4	1571	mg/L	78560 ppm
2	Cd 228.802	549.6	459.9	0.0036	mg/L	0.1815 ppm
2	Co 228.616	7676.1	8092.8	0.0765	mg/L	3.825 ppm
2	Cr 267.716	20927.5	21087.3	0.2288	mg/L	11.44 ppm
2	Cu 324.754	36111.4	33824.5	0.1142	mg/L	5.710 ppm
2	Fe 273.955	8715901.2	8712911.4	175.0	mg/L	8749 ppm
2	Mg 279.079	2789256.8	2788660.6	87.80	mg/L	4390 ppm
2	Mn 257.610	3822185.9	3821065.2	2.407	mg/L	120.4 ppm
2	Mo 202.030	-0.5	28.0	-0.0053	mg/L	-0.2654 ppm
2	Ni 231.604	7988.1	7712.9	0.1524	mg/L	7.620 ppm
2	Pb 220.353	1535.8	1350.9	0.1015	mg/L	5.076 ppm
2	Sb 206.833	101.1	40.5	-0.0079	mg/L	-0.3969 ppm
2	Se 196.026	-106.2	-190.5	-0.0253	mg/L	-1.267 ppm
2	Tl 190.800	311.8	123.3	-0.0075	mg/L	-0.3747 ppm
2	V 292.402	38619.8	38457.0	0.3449	mg/L	17.25 ppm
2	Zn 213.856	66547.9	67131.3	0.6146	mg/L	30.73 ppm
3	Ag 328.068	-2054.2	-980.2	-0.0049	mg/L	-0.2429 ppm
3	Al 308.215	4461103.1	4456505.5	122.1	mg/L	6107 ppm
3	As 188.979	114.5	45.1	0.0593	mg/L	2.966 ppm
3	Ba 233.527	245133.0	245998.6	0.6963	mg/L	34.82 ppm
3	Be 313.107	5664.8	6079.0	0.0022	mg/L	0.1097 ppm
3	Ca 227.547	402653.4	402369.9	1543	mg/L	77140 ppm
3	Cd 228.802	473.0	383.3	0.0030	mg/L	0.1512 ppm
3	Co 228.616	7637.0	8053.7	0.0761	mg/L	3.807 ppm
3	Cr 267.716	21031.8	21191.6	0.2300	mg/L	11.50 ppm
3	Cu 324.754	35410.7	33123.8	0.1120	mg/L	5.600 ppm
3	Fe 273.955	8731264.7	8728274.9	175.3	mg/L	8764 ppm
3	Mg 279.079	2802474.1	2801877.9	88.22	mg/L	4411 ppm
3	Mn 257.610	3857162.5	3856041.8	2.429	mg/L	121.5 ppm
3	Mo 202.030	-23.5	5.0	-0.0065	mg/L	-0.3269 ppm
3	Ni 231.604	7993.0	7717.8	0.1525	mg/L	7.625 ppm
3	Pb 220.353	1465.1	1280.2	0.0967	mg/L	4.836 ppm
3	Sb 206.833	123.6	63.0	-0.0026	mg/L	-0.1309 ppm
3	Se 196.026	-32.6	-116.9	0.0014	mg/L	0.0718 ppm
3	Tl 190.800	339.1	150.6	0.0002	mg/L	0.0119 ppm
3	V 292.402	38019.8	37857.0	0.3395	mg/L	16.98 ppm
3	Zn 213.856	65383.5	65966.9	0.6036	mg/L	30.18 ppm

Mean Data ----------

ID: 6149-3 F=50 Seq. No.: 84 Sample No.: 60 A/S Pos: 68
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:49:37 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-1080.4	-0.0054	0.00077	mg/L	-0.2678	0.03847	ppm	14.37%
Al 308.215	4425424.1	121.3	0.95	mg/L	6065	47.3	ppm	0.78%
As 188.979	62.2	0.0661	0.00660	mg/L	3.304	0.3301	ppm	9.99%
Ba 233.527	247372.4	0.7002	0.00822	mg/L	35.01	0.411	ppm	1.17%
Be 313.107	5980.5	0.0022	0.00006	mg/L	0.1079	0.00289	ppm	2.67%
Ca 227.547	403806.8	1548	20.6	mg/L	77410	1031.5	ppm	1.33%
Cd 228.802	407.4	0.0032	0.00036	mg/L	0.1608	0.01795	ppm	11.16%
Co 228.616	8183.7	0.0774	0.00182	mg/L	3.868	0.0909	ppm	2.35%
Cr 267.716	21460.9	0.2330	0.00620	mg/L	11.65	0.310	ppm	2.66%
Cu 324.754	33278.4	0.1125	0.00155	mg/L	5.623	0.0777	ppm	1.38%
Fe 273.955	8695527.7	174.6	0.89	mg/L	8731	44.3	ppm	0.51%
Mg 279.079	2789528.1	87.83	0.376	mg/L	4391	18.8	ppm	0.43%
Mn 257.610	3825702.9	2.410	0.0178	mg/L	120.5	0.89	ppm	0.74%
Mo 202.030	33.1	-0.0050	0.00167	mg/L	-0.2514	0.08332	ppm	33.14%
Ni 231.604	7863.8	0.1554	0.00508	mg/L	7.769	0.2541	ppm	3.27%
Pb 220.353	1281.2	0.0968	0.00473	mg/L	4.838	0.2367	ppm	4.89%
Sb 206.833	62.8	-0.0027	0.00520	mg/L	-0.1348	0.26016	ppm	192.98%
Se 196.026	-137.8	-0.0063	0.01658	mg/L	-0.3151	0.82890	ppm	263.09%
Tl 190.800	143.9	-0.0015	0.00539	mg/L	-0.0728	0.26972	ppm	370.44%
V 292.402	37856.1	0.3395	0.00539	mg/L	16.98	0.270	ppm	1.59%
Zn 213.856	66325.9	0.6071	0.00655	mg/L	30.35	0.328	ppm	1.08%

eplicate Data
ID: 6149-4 F=50 Date: 11/21/02 3:52:14 PM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-1772.2	-698.2	-0.0035	mg/L	-0.1731	ppm
1	Al 308.215	3207666.1	3203068.6	87.79	mg/L	4390	ppm
1	As 188.979	106.8	37.4	0.0450	mg/L	2.249	ppm
1	Ba 233.527	146070.0	146935.6	0.4159	mg/L	20.80	ppm
1	Be 313.107	2787.7	3201.9	0.0012	mg/L	0.0578	ppm
1	Ca 227.547	293102.8	292819.4	1123	mg/L	56140	ppm
1	Cd 228.802	267.4	177.6	0.0014	mg/L	0.0701	ppm
1	Co 228.616	5170.0	5586.7	0.0528	mg/L	2.641	ppm
1	Cr 267.716	14441.6	14601.4	0.1615	mg/L	8.073	ppm
1	Cu 324.754	24240.5	21953.5	0.0748	mg/L	3.741	ppm
1	Fe 273.955	6426678.0	6423688.2	129.0	mg/L	6450	ppm
1	Mg 279.079	1576140.0	1575543.8	49.61	mg/L	2480	ppm
1	Mn 257.610	3082949.0	3081828.3	1.942	mg/L	97.08	ppm
1	Mo 202.030	-37.9	-9.4	-0.0055	mg/L	-0.2753	ppm
1	Ni 231.604	4394.9	4119.7	0.0814	mg/L	4.070	ppm
1	Pb 220.353	846.2	661.3	0.0531	mg/L	2.653	ppm
1	Sb 206.833	110.3	49.7	-0.0008	mg/L	-0.0375	ppm
1	Se 196.026	-45.7	-130.0	-0.0148	mg/L	-0.7381	ppm
1	Tl 190.800	316.6	128.0	0.0059	mg/L	0.2960	ppm
1	V 292.402	27927.9	27765.1	0.2490	mg/L	12.45	ppm
1	Zn 213.856	28374.2	28957.6	0.2595	mg/L	12.97	ppm
2	Ag 328.068	-1420.8	-346.8	-0.0017	mg/L	-0.0860	ppm
2	Al 308.215	3240766.6	3236169.0	88.70	mg/L	4435	ppm
2	As 188.979	109.6	40.1	0.0466	mg/L	2.331	ppm
2	Ba 233.527	148645.0	149510.6	0.4232	mg/L	21.16	ppm
2	Be 313.107	2825.6	3239.8	0.0012	mg/L	0.0585	ppm
2	Ca 227.547	299107.8	298824.3	1146	mg/L	57290	ppm
2	Cd 228.802	298.3	208.5	0.0016	mg/L	0.0823	ppm
2	Co 228.616	5341.6	5758.3	0.0544	mg/L	2.722	ppm
2	Cr 267.716	14526.1	14685.9	0.1624	mg/L	8.119	ppm
2	Cu 324.754	24960.7	22673.8	0.0771	mg/L	3.856	ppm
2	Fe 273.955	6476545.2	6473555.4	130.0	mg/L	6500	ppm
2	Mg 279.079	1601907.9	1601311.7	50.42	mg/L	2521	ppm
2	Mn 257.610	3118542.8	3117422.1	1.964	mg/L	98.20	ppm
2	Mo 202.030	-41.6	-13.1	-0.0057	mg/L	-0.2871	ppm
2	Ni 231.604	4438.2	4163.0	0.0823	mg/L	4.113	ppm
2	Pb 220.353	699.5	514.6	0.0434	mg/L	2.169	ppm
2	Sb 206.833	75.1	14.5	-0.0093	mg/L	-0.4628	ppm
2	Se 196.026	3.2	-81.1	0.0033	mg/L	0.1629	ppm
2	Tl 190.800	336.9	148.3	0.0116	mg/L	0.5783	ppm
2	V 292.402	28507.9	28345.1	0.2542	mg/L	12.71	ppm
2	Zn 213.856	28805.8	29389.2	0.2634	mg/L	13.17	ppm
3	Ag 328.068	-1697.5	-623.5	-0.0031	mg/L	-0.1545	ppm
3	Al 308.215	3117056.8	3112459.2	85.31	mg/L	4265	ppm
3	As 188.979	113.1	43.7	0.0475	mg/L	2.377	ppm
3	Ba 233.527	146664.4	147530.0	0.4176	mg/L	20.88	ppm
3	Be 313.107	2725.3	3139.5	0.0011	mg/L	0.0567	ppm
3	Ca 227.547	294376.5	294093.0	1128	mg/L	56380	ppm
3	Cd 228.802	281.0	191.3	0.0015	mg/L	0.0755	ppm
3	Co 228.616	5285.7	5702.4	0.0539	mg/L	2.695	ppm
3	Cr 267.716	14415.1	14574.8	0.1612	mg/L	8.058	ppm
3	Cu 324.754	24466.9	22179.9	0.0754	mg/L	3.769	ppm
3	Fe 273.955	6263750.5	6260760.7	125.7	mg/L	6286	ppm
3	Mg 279.079	1579252.4	1578656.3	49.70	mg/L	2485	ppm
3	Mn 257.610	3008353.4	3007232.7	1.895	mg/L	94.73	ppm
3	Mo 202.030	11.3	39.8	-0.0028	mg/L	-0.1387	ppm
3	Ni 231.604	4437.2	4162.0	0.0822	mg/L	4.112	ppm
3	Pb 220.353	736.0	551.1	0.0456	mg/L	2.279	ppm
3	Sb 206.833	86.8	26.2	-0.0061	mg/L	-0.3071	ppm
3	Se 196.026	52.4	-31.9	0.0201	mg/L	1.003	ppm
3	Tl 190.800	292.7	104.2	-0.0002	mg/L	-0.0086	ppm
3	V 292.402	27820.9	27658.2	0.2481	mg/L	12.40	ppm
3	Zn 213.856	29180.7	29764.1	0.2674	mg/L	13.37	ppm

Mean Data

ID: 6149-4 F=50 Seq. No.: 85 Sample No.: 61 A/S Pos: 69
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:52:14 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-556.2	-0.0028	0.00092	mg/L	-0.1379	0.04588	ppm	33.28%
Al 308.215	3183898.9	87.27	1.755	mg/L	4363	87.8	ppm	2.01%
As 188.979	40.4	0.0464	0.00130	mg/L	2.319	0.0648	ppm	2.80%
Ba 233.527	147992.1	0.4189	0.00382	mg/L	20.95	0.191	ppm	0.91%
Be 313.107	3193.7	0.0012	0.00002	mg/L	0.0576	0.00091	ppm	1.58%
Ca 227.547	295245.6	1132	12.1	mg/L	56600	606.4	ppm	1.07%
Cd 228.802	192.5	0.0015	0.00012	mg/L	0.0760	0.00611	ppm	8.05%
Co 228.616	5682.5	0.0537	0.00083	mg/L	2.686	0.0414	ppm	1.54%
Cr 267.716	14620.7	0.1617	0.00064	mg/L	8.083	0.0321	ppm	0.40%
Cu 324.754	22269.1	0.0758	0.00120	mg/L	3.789	0.0602	ppm	1.59%
Fe 273.955	6386001.4	128.2	2.23	mg/L	6412	111.7	ppm	1.74%
Mg 279.079	1585170.6	49.91	0.443	mg/L	2495	22.1	ppm	0.89%
Mn 257.610	3068827.7	1.933	0.0354	mg/L	96.67	1.771	ppm	1.83%
Mo 202.030	5.7	-0.0047	0.00165	mg/L	-0.2337	0.08247	ppm	35.29%
Ni 231.604	4148.2	0.0820	0.00049	mg/L	4.098	0.0244	ppm	0.60%
Pb 220.353	575.7	0.0473	0.00508	mg/L	2.367	0.2538	ppm	10.72%
Sb 206.833	30.1	-0.0054	0.00430	mg/L	-0.2691	0.21516	ppm	79.94%
Se 196.026	-81.0	0.0029	0.01742	mg/L	0.1426	0.87079	ppm	610.56%
Tl 190.800	126.8	0.0058	0.00587	mg/L	0.2886	0.29354	ppm	101.72%
V 292.402	27922.8	0.2504	0.00332	mg/L	12.52	0.166	ppm	1.32%
Zn 213.856	29370.3	0.2634	0.00398	mg/L	13.17	0.199	ppm	1.51%

Replicate Data

ID: 6149-5 F=50 Date: 11/21/02 3:55:10 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1593.4	-519.5	-0.0026	mg/L	-0.1288	ppm
1	Al 308.215	1835070.9	1830473.3	50.17	mg/L	2509	ppm
1	As 188.979	25.8	-43.6	0.0375	mg/L	1.874	ppm
1	Ba 233.527	174319.4	175185.0	0.4959	mg/L	24.79	ppm
1	Be 313.107	1551.6	1965.8	0.0007	mg/L	0.0355	ppm
1	Ca 227.547	542156.1	541872.7	2072	mg/L	103600	ppm
1	Cd 228.802	396.9	307.1	0.0024	mg/L	0.1212	ppm
1	Co 228.616	3191.8	3608.5	0.0341	mg/L	1.706	ppm
1	Cr 267.716	10089.4	10249.2	0.1133	mg/L	5.667	ppm
1	Cu 324.754	19231.8	16944.9	0.0532	mg/L	2.660	ppm
1	Fe 273.955	3906034.5	3903044.6	78.38	mg/L	3919	ppm
1	Mg 279.079	2098158.1	2097561.9	66.04	mg/L	3302	ppm
1	Mn 257.610	3149379.1	3148258.4	1.983	mg/L	99.17	ppm
1	Mo 202.030	-42.6	-14.1	-0.0038	mg/L	-0.1895	ppm
1	Ni 231.604	3520.0	3244.8	0.0641	mg/L	3.206	ppm
1	Pb 220.353	1004.1	819.2	0.0650	mg/L	3.249	ppm
1	Sb 206.833	103.2	42.5	0.0038	mg/L	0.1879	ppm
1	Se 196.026	33.1	-51.2	0.0014	mg/L	0.0686	ppm
1	Tl 190.800	275.8	87.2	0.0083	mg/L	0.4144	ppm
1	V 292.402	17879.4	17716.7	0.1589	mg/L	7.945	ppm
1	Zn 213.856	53057.5	53640.9	0.4976	mg/L	24.88	ppm
2	Ag 328.068	-1645.0	-571.0	-0.0028	mg/L	-0.1415	ppm
2	Al 308.215	1912559.9	1907962.3	52.29	mg/L	2615	ppm
2	As 188.979	31.8	-37.7	0.0420	mg/L	2.102	ppm
2	Ba 233.527	164045.7	164911.3	0.4668	mg/L	23.34	ppm
2	Be 313.107	1415.2	1829.4	0.0007	mg/L	0.0330	ppm
2	Ca 227.547	565318.4	565034.9	2161	mg/L	108100	ppm
2	Cd 228.802	407.5	317.8	0.0025	mg/L	0.1254	ppm
2	Co 228.616	3176.3	3593.0	0.0340	mg/L	1.698	ppm
2	Cr 267.716	9456.6	9616.4	0.1063	mg/L	5.317	ppm
2	Cu 324.754	18476.9	16190.0	0.0508	mg/L	2.541	ppm
2	Fe 273.955	4041679.7	4038689.9	81.11	mg/L	4055	ppm
2	Mg 279.079	2171661.5	2171065.3	68.36	mg/L	3418	ppm
2	Mn 257.610	3280757.2	3279636.4	2.066	mg/L	103.3	ppm
2	Mo 202.030	-40.8	-12.3	-0.0038	mg/L	-0.1901	ppm

2	Ni 231.604	3513.8	3238.6	0.0640	mg/L	3.200 ppm
2	Pb 220.353	1020.3	835.4	0.0665	mg/L	3.325 ppm
2	Sb 206.833	90.0	29.4	0.0007	mg/L	0.0355 ppm
2	Se 196.026	33.5	-50.8	0.0022	mg/L	0.1082 ppm
2	Tl 190.800	277.6	89.1	0.0082	mg/L	0.4104 ppm
2	V 292.402	16944.6	16781.9	0.1505	mg/L	7.526 ppm
2	Zn 213.856	49970.9	50554.3	0.4682	mg/L	23.41 ppm
3	Ag 328.068	-1607.1	-533.1	-0.0026	mg/L	-0.1321 ppm
3	Al 308.215	1911070.2	1906472.6	52.25	mg/L	2613 ppm
3	As 188.979	39.2	-30.2	0.0446	mg/L	2.231 ppm
3	Ba 233.527	163820.9	164686.5	0.4662	mg/L	23.31 ppm
3	Be 313.107	1441.1	1855.3	0.0007	mg/L	0.0335 ppm
3	Ca 227.547	562374.1	562090.7	2150	mg/L	107500 ppm
3	Cd 228.802	397.2	307.5	0.0024	mg/L	0.1213 ppm
3	Co 228.616	3212.2	3628.9	0.0343	mg/L	1.715 ppm
3	Cr 267.716	9601.4	9761.2	0.1079	mg/L	5.397 ppm
3	Cu 324.754	18651.7	16364.8	0.0514	mg/L	2.569 ppm
3	Fe 273.955	4054675.8	4051686.0	81.37	mg/L	4068 ppm
3	Mg 279.079	2167330.1	2166734.0	68.22	mg/L	3411 ppm
3	Mn 257.610	3260393.3	3259272.5	2.053	mg/L	102.7 ppm
3	Mo 202.030	-42.2	-13.7	-0.0039	mg/L	-0.1942 ppm
3	Ni 231.604	3534.3	3259.1	0.0644	mg/L	3.220 ppm
3	Pb 220.353	1018.5	833.6	0.0663	mg/L	3.317 ppm
3	Sb 206.833	93.2	32.5	0.0014	mg/L	0.0703 ppm
3	Se 196.026	35.5	-48.8	0.0030	mg/L	0.1495 ppm
3	Tl 190.800	281.0	92.5	0.0092	mg/L	0.4576 ppm
3	V 292.402	16737.6	16574.9	0.1487	mg/L	7.433 ppm
3	Zn 213.856	50238.1	50821.4	0.4707	mg/L	23.54 ppm

ean Data --

D: 6149-5 F=50 Seq. No.: 86 Sample No.: 62 A/S Pos: 70

Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 3:55:10 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-541.2	-0.0027	0.00013	mg/L	-0.1341	0.00662	ppm	4.94%
l 308.215	1881636.1	51.57	1.215	mg/L	2579	60.7	ppm	2.36%
s 188.979	-37.2	0.0414	0.00362	mg/L	2.069	0.1808	ppm	8.74%
a 233.527	168260.9	0.4763	0.01698	mg/L	23.81	0.849	ppm	3.56%
Be 313.107	1883.5	0.0007	0.00003	mg/L	0.0340	0.00131	ppm	3.85%
a 227.547	556332.8	2128	48.2	mg/L	106400	2411.3	ppm	2.27%
d 228.802	310.8	0.0025	0.00005	mg/L	0.1226	0.00239	ppm	1.95%
o 228.616	3610.1	0.0341	0.00017	mg/L	1.706	0.0085	ppm	0.50%
Cr 267.716	9875.6	0.1092	0.00367	mg/L	5.460	0.1833	ppm	3.36%
u 324.754	16499.9	0.0518	0.00124	mg/L	2.590	0.0620	ppm	2.39%
e 273.955	3997806.8	80.28	1.653	mg/L	4014	82.7	ppm	2.06%
g 279.079	2145120.4	67.54	1.299	mg/L	3377	64.9	ppm	1.92%
Mn 257.610	3229055.8	2.034	0.0445	mg/L	101.7	2.23	ppm	2.19%
Mo 202.030	-13.4	-0.0038	0.00005	mg/L	-0.1913	0.00253	ppm	1.32%
i 231.604	3247.5	0.0642	0.00021	mg/L	3.209	0.0104	ppm	0.32%
b 220.353	829.4	0.0659	0.00083	mg/L	3.297	0.0416	ppm	1.26%
Sb 206.833	34.8	0.0020	0.00160	mg/L	0.0979	0.07983	ppm	81.55%
Se 196.026	-50.2	0.0022	0.00081	mg/L	0.1088	0.04044	ppm	37.18%
l 190.800	89.6	0.0085	0.00052	mg/L	0.4275	0.02614	ppm	6.11%
292.402	17024.5	0.1527	0.00546	mg/L	7.634	0.2728	ppm	3.57%
Zn 213.856	51672.2	0.4788	0.01630	mg/L	23.94	0.815	ppm	3.40%

eplicate Data --

D: 6149-6 F=50 Date: 11/21/02 3:58:45 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1399.4	-325.4	-0.0016	mg/L	-0.0807	ppm
1	Al 308.215	1989199.6	1984602.1	54.39	mg/L	2720	ppm
1	As 188.979	-1.5	-70.9	0.0304	mg/L	1.521	ppm
1	Ba 233.527	170290.3	171155.9	0.4845	mg/L	24.22	ppm
1	Be 313.107	484.0	898.2	0.0003	mg/L	0.0162	ppm
1	Ca 227.547	585036.5	584753.0	2236	mg/L	111800	ppm
1	Cd 228.802	486.8	397.1	0.0031	mg/L	0.1567	ppm

1	Co 228.616	2459.6	2876.3	0.0272	mg/L	1.359 ppm
1	Cr 267.716	10433.5	10593.3	0.1171	mg/L	5.857 ppm
1	Cu 324.754	13023.1	10736.1	0.0337	mg/L	1.685 ppm
1	Fe 273.955	3172345.3	3169355.5	63.65	mg/L	3182 ppm
1	Mg 279.079	2118999.8	2118403.7	66.70	mg/L	3335 ppm
1	Mn 257.610	2411836.4	2410715.7	1.519	mg/L	75.94 ppm
1	Mo 202.030	-76.9	-48.4	-0.0026	mg/L	-0.1282 ppm
1	Ni 231.604	2966.3	2691.1	0.0532	mg/L	2.659 ppm
1	Pb 220.353	586.7	401.8	0.0379	mg/L	1.893 ppm
1	Sb 206.833	88.0	27.4	0.0006	mg/L	0.0307 ppm
1	Se 196.026	59.8	-24.4	0.0063	mg/L	0.3170 ppm
1	Tl 190.800	273.6	85.0	0.0096	mg/L	0.4804 ppm
1	V 292.402	13603.4	13440.6	0.1205	mg/L	6.027 ppm
1	Zn 213.856	19647.0	20230.4	0.1841	mg/L	9.204 ppm
2	Ag 328.068	-1375.1	-301.1	-0.0015	mg/L	-0.0746 ppm
2	Al 308.215	2039956.7	2035359.1	55.79	mg/L	2789 ppm
2	As 188.979	17.3	-52.1	0.0391	mg/L	1.956 ppm
2	Ba 233.527	169390.1	170255.8	0.4819	mg/L	24.10 ppm
2	Be 313.107	502.4	916.6	0.0003	mg/L	0.0165 ppm
2	Ca 227.547	600280.1	599996.6	2295	mg/L	114700 ppm
2	Cd 228.802	464.4	374.6	0.0030	mg/L	0.1478 ppm
2	Co 228.616	2463.1	2879.8	0.0272	mg/L	1.361 ppm
2	Cr 267.716	10490.3	10650.1	0.1178	mg/L	5.888 ppm
2	Cu 324.754	12992.5	10705.6	0.0336	mg/L	1.680 ppm
2	Fe 273.955	3233837.6	3230847.7	64.88	mg/L	3244 ppm
2	Mg 279.079	2156464.6	2155868.4	67.88	mg/L	3394 ppm
2	Mn 257.610	2467644.2	2466523.5	1.554	mg/L	77.70 ppm
2	Mo 202.030	-81.8	-53.3	-0.0028	mg/L	-0.1413 ppm
2	Ni 231.604	2926.1	2650.9	0.0524	mg/L	2.619 ppm
2	Pb 220.353	578.5	393.6	0.0376	mg/L	1.880 ppm
2	Sb 206.833	91.7	31.1	0.0014	mg/L	0.0713 ppm
2	Se 196.026	45.3	-39.0	0.0013	mg/L	0.0667 ppm
2	Tl 190.800	269.8	81.3	0.0082	mg/L	0.4106 ppm
2	V 292.402	13741.8	13579.0	0.1218	mg/L	6.089 ppm
2	Zn 213.856	19469.6	20053.0	0.1823	mg/L	9.113 ppm
3	Ag 328.068	-1392.0	-318.0	-0.0016	mg/L	-0.0788 ppm
3	Al 308.215	1989242.9	1984645.3	54.40	mg/L	2720 ppm
3	As 188.979	-0.2	-69.6	0.0308	mg/L	1.539 ppm
3	Ba 233.527	165319.5	166185.1	0.4704	mg/L	23.52 ppm
3	Be 313.107	316.2	730.4	0.0003	mg/L	0.0132 ppm
3	Ca 227.547	583499.0	583215.6	2231	mg/L	111500 ppm
3	Cd 228.802	468.5	378.7	0.0030	mg/L	0.1495 ppm
3	Co 228.616	2410.7	2827.4	0.0267	mg/L	1.336 ppm
3	Cr 267.716	10066.3	10226.1	0.1131	mg/L	5.654 ppm
3	Cu 324.754	12907.8	10620.8	0.0333	mg/L	1.667 ppm
3	Fe 273.955	3177141.8	3174151.9	63.74	mg/L	3187 ppm
3	Mg 279.079	2112723.0	2112126.8	66.50	mg/L	3325 ppm
3	Mn 257.610	2400866.6	2399745.9	1.512	mg/L	75.59 ppm
3	Mo 202.030	-89.3	-60.8	-0.0032	mg/L	-0.1612 ppm
3	Ni 231.604	2924.2	2649.0	0.0523	mg/L	2.617 ppm
3	Pb 220.353	563.3	378.4	0.0363	mg/L	1.814 ppm
3	Sb 206.833	99.2	38.6	0.0034	mg/L	0.1699 ppm
3	Se 196.026	33.3	-51.0	-0.0033	mg/L	-0.1633 ppm
3	Tl 190.800	276.8	88.2	0.0105	mg/L	0.5259 ppm
3	V 292.402	13366.7	13204.0	0.1184	mg/L	5.921 ppm
3	Zn 213.856	19177.1	19760.5	0.1796	mg/L	8.981 ppm

Mean Data ----------

ID: 6149-6 F=50 Seq. No.: 87 Sample No.: 63 A/S Pos: 71
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 3:58:45 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	-314.9	-0.0016	0.00006	mg/L	-0.0780	0.00309	ppm	3.96%
Al 308.215	2001535.5	54.86	0.803	mg/L	2743	40.1	ppm	1.46%
As 188.979	-64.2	0.0334	0.00492	mg/L	1.672	0.2459	ppm	14.71%
Ba 233.527	169198.9	0.4790	0.00750	mg/L	23.95	0.375	ppm	1.57%
Be 313.107	848.4	0.0003	0.00004	mg/L	0.0153	0.00185	ppm	12.09%
Ca 227.547	589321.7	2254	35.5	mg/L	112700	1774.0	ppm	1.57%

i	228.802	383.5	0.0030	0.00009	mg/L	0.1513	0.00472	ppm	3.12%
	228.616	2861.1	0.0270	0.00028	mg/L	1.352	0.0139	ppm	1.02%
Cr	267.716	10489.8	0.1160	0.00255	mg/L	5.800	0.1273	ppm	2.19%
Cu	324.754	10687.5	0.0335	0.00019	mg/L	1.677	0.0094	ppm	0.56%
	273.955	3191451.7	64.09	0.687	mg/L	3205	34.3	ppm	1.07%
	279.079	2128799.6	67.03	0.745	mg/L	3351	37.2	ppm	1.11%
	257.610	2425661.7	1.528	0.0226	mg/L	76.41	1.128	ppm	1.48%
Mo	202.030	-54.2	-0.0029	0.00033	mg/L	-0.1436	0.01658	ppm	11.55%
	231.604	2663.7	0.0526	0.00047	mg/L	2.632	0.0235	ppm	0.89%
	220.353	391.3	0.0373	0.00085	mg/L	1.863	0.0425	ppm	2.28%
	206.833	32.3	0.0018	0.00143	mg/L	0.0906	0.07159	ppm	78.99%
Se	196.026	-38.1	0.0015	0.00480	mg/L	0.0735	0.24022	ppm	326.95%
Tl	190.800	84.9	0.0094	0.00116	mg/L	0.4723	0.05809	ppm	12.30%
	292.402	13407.9	0.1203	0.00170	mg/L	6.013	0.0850	ppm	1.41%
	213.856	20014.7	0.1820	0.00223	mg/L	9.099	0.1117	ppm	1.23%

Replicate Data ----------

: 6149-7 F=50 Date: 11/21/02 4:02:20 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-1457.6	-383.6	-0.0019	mg/L	-0.0951	ppm
1	Al 308.215	1790308.5	1785711.0	48.94	mg/L	2447	ppm
1	As 188.979	-14.1	-83.5	0.0344	mg/L	1.722	ppm
1	Ba 233.527	147400.4	148266.0	0.4197	mg/L	20.98	ppm
1	Be 313.107	138.4	552.6	0.0002	mg/L	0.0100	ppm
1	Ca 227.547	674091.5	673808.0	2577	mg/L	128900	ppm
1	Cd 228.802	409.4	319.6	0.0025	mg/L	0.1261	ppm
1	Co 228.616	2246.2	2662.9	0.0252	mg/L	1.259	ppm
1	Cr 267.716	10360.9	10520.7	0.1163	mg/L	5.817	ppm
1	Cu 324.754	9877.1	7590.2	0.0238	mg/L	1.191	ppm
1	Fe 273.955	2770851.8	2767862.0	55.58	mg/L	2779	ppm
1	Mg 279.079	2261352.7	2260756.5	71.18	mg/L	3559	ppm
1	Mn 257.610	2105715.5	2104594.8	1.326	mg/L	66.30	ppm
1	Mo 202.030	-102.5	-74.0	-0.0039	mg/L	-0.1960	ppm
1	Ni 231.604	2983.7	2708.5	0.0535	mg/L	2.676	ppm
1	Pb 220.353	319.2	134.3	0.0209	mg/L	1.044	ppm
1	Sb 206.833	84.0	23.4	0.0000	mg/L	-0.0004	ppm
1	Se 196.026	31.8	-52.4	-0.0059	mg/L	-0.2931	ppm
1	Tl 190.800	274.9	86.4	0.0125	mg/L	0.6243	ppm
1	V 292.402	13067.6	12904.9	0.1157	mg/L	5.787	ppm
1	Zn 213.856	14945.1	15528.5	0.1406	mg/L	7.029	ppm
2	Ag 328.068	-1172.3	-98.4	-0.0005	mg/L	-0.0244	ppm
2	Al 308.215	1765961.4	1761363.8	48.28	mg/L	2414	ppm
2	As 188.979	10.3	-59.1	0.0425	mg/L	2.125	ppm
2	Ba 233.527	146447.6	147313.2	0.4170	mg/L	20.85	ppm
2	Be 313.107	296.3	710.5	0.0003	mg/L	0.0128	ppm
2	Ca 227.547	661052.7	660769.2	2527	mg/L	126400	ppm
2	Cd 228.802	423.4	333.6	0.0026	mg/L	0.1316	ppm
2	Co 228.616	2286.4	2703.1	0.0256	mg/L	1.278	ppm
2	Cr 267.716	10298.2	10457.9	0.1156	mg/L	5.782	ppm
2	Cu 324.754	9938.0	7651.1	0.0240	mg/L	1.201	ppm
2	Fe 273.955	2749154.5	2746164.7	55.15	mg/L	2757	ppm
2	Mg 279.079	2233317.1	2232721.0	70.30	mg/L	3515	ppm
2	Mn 257.610	2066199.1	2065078.4	1.301	mg/L	65.05	ppm
2	Mo 202.030	-110.6	-82.1	-0.0043	mg/L	-0.2175	ppm
2	Ni 231.604	2986.9	2711.7	0.0536	mg/L	2.679	ppm
2	Pb 220.353	318.5	133.6	0.0206	mg/L	1.031	ppm
2	Sb 206.833	91.7	31.0	0.0019	mg/L	0.0935	ppm
2	Se 196.026	39.0	-45.3	-0.0033	mg/L	-0.1667	ppm
2	Tl 190.800	267.9	79.3	0.0105	mg/L	0.5269	ppm
2	V 292.402	12865.8	12703.1	0.1139	mg/L	5.696	ppm
2	Zn 213.856	15100.1	15683.5	0.1421	mg/L	7.104	ppm
3	Ag 328.068	-1245.0	-171.1	-0.0008	mg/L	-0.0424	ppm
3	Al 308.215	1753455.7	1748858.2	47.93	mg/L	2397	ppm
3	As 188.979	-7.2	-76.6	0.0358	mg/L	1.790	ppm
3	Ba 233.527	144818.5	145684.1	0.4124	mg/L	20.62	ppm
3	Be 313.107	197.9	612.1	0.0002	mg/L	0.0110	ppm
3	Ca 227.547	661247.6	660964.1	2528	mg/L	126400	ppm

Zn 213.856	36257.2	0.3314	0.00393 mg/L	16.57	0.196 ppm	1.19%

Replicate Data
ID: 6149-9 F=50 Date: 11/21/02 4:08:11 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-1963.2	-889.2	-0.0044	mg/L	-0.2204	ppm
1	Al 308.215	4047962.1	4043364.5	110.8	mg/L	5541	ppm
1	As 188.979	117.6	48.1	0.0604	mg/L	3.019	ppm
1	Ba 233.527	186002.3	186867.9	0.5290	mg/L	26.45	ppm
1	Be 313.107	1012.1	1426.3	0.0005	mg/L	0.0257	ppm
1	Ca 227.547	406883.0	406599.5	1558	mg/L	77920	ppm
1	Cd 228.802	311.4	221.7	0.0017	mg/L	0.0875	ppm
1	Co 228.616	6110.1	6526.8	0.0617	mg/L	3.085	ppm
1	Cr 267.716	18620.3	18780.1	0.2077	mg/L	10.38	ppm
1	Cu 324.754	26519.3	24232.3	0.0830	mg/L	4.150	ppm
1	Fe 273.955	7531316.4	7528326.6	151.2	mg/L	7559	ppm
1	Mg 279.079	2622721.0	2622124.8	82.56	mg/L	4128	ppm
1	Mn 257.610	3294053.9	3292933.2	2.075	mg/L	103.7	ppm
1	Mo 202.030	-17.6	10.9	-0.0053	mg/L	-0.2645	ppm
1	Ni 231.604	5887.9	5612.7	0.1109	mg/L	5.545	ppm
1	Pb 220.353	1312.5	1127.6	0.0871	mg/L	4.355	ppm
1	Sb 206.833	180.9	120.2	0.0132	mg/L	0.6584	ppm
1	Se 196.026	-54.5	-138.8	-0.0130	mg/L	-0.6475	ppm
1	Tl 190.800	269.7	81.1	-0.0145	mg/L	-0.7250	ppm
1	V 292.402	33500.9	33338.1	0.2990	mg/L	14.95	ppm
1	Zn 213.856	175540.2	176123.5	1.645	mg/L	82.25	ppm
2	Ag 328.068	-1812.1	-738.1	-0.0037	mg/L	-0.1830	ppm
2	Al 308.215	4000586.3	3995988.7	109.5	mg/L	5476	ppm
2	As 188.979	89.3	19.8	0.0488	mg/L	2.438	ppm
2	Ba 233.527	184157.4	185023.0	0.5237	mg/L	26.19	ppm
2	Be 313.107	800.5	1214.7	0.0004	mg/L	0.0219	ppm
2	Ca 227.547	399429.7	399146.2	1530	mg/L	76500	ppm
2	Cd 228.802	522.4	432.6	0.0034	mg/L	0.1707	ppm
2	Co 228.616	6043.5	6460.2	0.0611	mg/L	3.053	ppm
2	Cr 267.716	18265.2	18425.0	0.2037	mg/L	10.19	ppm
2	Cu 324.754	26531.9	24245.0	0.0830	mg/L	4.149	ppm
2	Fe 273.955	7464818.4	7461828.6	149.8	mg/L	7492	ppm
2	Mg 279.079	2591389.4	2590793.2	81.57	mg/L	4079	ppm
2	Mn 257.610	3242221.1	3241100.3	2.042	mg/L	102.1	ppm
2	Mo 202.030	-50.6	-22.1	-0.0070	mg/L	-0.3494	ppm
2	Ni 231.604	5638.0	5362.8	0.1060	mg/L	5.298	ppm
2	Pb 220.353	1239.2	1054.3	0.0820	mg/L	4.101	ppm
2	Sb 206.833	133.3	72.7	0.0020	mg/L	0.0998	ppm
2	Se 196.026	-41.6	-125.9	-0.0086	mg/L	-0.4286	ppm
2	Tl 190.800	314.0	125.4	-0.0013	mg/L	-0.0632	ppm
2	V 292.402	32970.7	32808.0	0.2942	mg/L	14.71	ppm
2	Zn 213.856	173635.2	174218.6	1.627	mg/L	81.36	ppm
3	Ag 328.068	-1773.3	-699.3	-0.0035	mg/L	-0.1733	ppm
3	Al 308.215	4103876.4	4099278.8	112.4	mg/L	5618	ppm
3	As 188.979	69.0	-0.4	0.0408	mg/L	2.039	ppm
3	Ba 233.527	184069.7	184935.3	0.5235	mg/L	26.17	ppm
3	Be 313.107	748.0	1162.3	0.0004	mg/L	0.0210	ppm
3	Ca 227.547	397020.0	396736.5	1521	mg/L	76040	ppm
3	Cd 228.802	431.0	341.3	0.0027	mg/L	0.1347	ppm
3	Co 228.616	6084.0	6500.7	0.0614	mg/L	3.072	ppm
3	Cr 267.716	18826.9	18986.6	0.2099	mg/L	10.50	ppm
3	Cu 324.754	26835.7	24548.8	0.0841	mg/L	4.204	ppm
3	Fe 273.955	7640081.6	7637091.8	153.4	mg/L	7668	ppm
3	Mg 279.079	2638176.8	2637580.6	83.05	mg/L	4152	ppm
3	Mn 257.610	3297927.9	3296807.2	2.077	mg/L	103.9	ppm
3	Mo 202.030	16.6	45.1	-0.0036	mg/L	-0.1781	ppm
3	Ni 231.604	5826.2	5551.0	0.1097	mg/L	5.484	ppm
3	Pb 220.353	1221.9	1037.0	0.0800	mg/L	3.999	ppm
3	Sb 206.833	72.5	11.8	-0.0130	mg/L	-0.6483	ppm
3	Se 196.026	1.3	-83.0	0.0079	mg/L	0.3932	ppm
3	Tl 190.800	306.5	118.0	-0.0044	mg/L	-0.2211	ppm
3	V 292.402	32894.9	32732.2	0.2936	mg/L	14.68	ppm

3 Zn 213.856	172462.4	173045.8	1.616 mg/L	80.79 ppm	

Mean Data ----------

ID: 6149-9 F=50 Seq. No.: 90 Sample No.: 66 A/S Pos: 74

Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 4:08:11 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	-775.6	-0.0038	0.00050	mg/L	-0.1922	0.02487	ppm	12.94%
l 308.215	4046210.7	110.9	1.42	mg/L	5545	70.9	ppm	1.28%
As 188.979	22.5	0.0500	0.00986	mg/L	2.499	0.4928	ppm	19.72%
Ba 233.527	185608.8	0.5254	0.00309	mg/L	26.27	0.154	ppm	0.59%
e 313.107	1267.8	0.0005	0.00005	mg/L	0.0229	0.00252	ppm	11.03%
a 227.547	400827.4	1536	19.7	mg/L	76820	982.6	ppm	1.28%
Cd 228.802	331.9	0.0026	0.00084	mg/L	0.1310	0.04176	ppm	31.89%
Co 228.616	6495.9	0.0614	0.00032	mg/L	3.070	0.0159	ppm	0.52%
r 267.716	18730.6	0.2071	0.00314	mg/L	10.36	0.157	ppm	1.52%
u 324.754	24342.0	0.0833	0.00064	mg/L	4.167	0.0319	ppm	0.76%
Fe 273.955	7542415.6	151.5	1.78	mg/L	7573	88.8	ppm	1.17%
Mg 279.079	2616832.9	82.39	0.751	mg/L	4120	37.5	ppm	0.91%
n 257.610	3276946.9	2.065	0.0196	mg/L	103.2	0.98	ppm	0.95%
o 202.030	11.3	-0.0053	0.00171	mg/L	-0.2640	0.08563	ppm	32.43%
Ni 231.604	5508.8	0.1089	0.00257	mg/L	5.443	0.1286	ppm	2.36%
Pb 220.353	1073.0	0.0830	0.00366	mg/L	4.151	0.1832	ppm	4.41%
b 206.833	68.2	0.0007	0.01311	mg/L	0.0366	0.65565	ppm	>999.9%
e 196.026	-115.9	-0.0046	0.01097	mg/L	-0.2276	0.54869	ppm	241.04%
l 190.800	108.2	-0.0067	0.00691	mg/L	-0.3364	0.34562	ppm	102.73%
V 292.402	32959.4	0.2956	0.00296	mg/L	14.78	0.148	ppm	1.00%
Zn 213.856	174462.7	1.629	0.0147	mg/L	81.47	0.737	ppm	0.90%

Replicate Data ----------

ID: 6149-10 F=50 Date: 11/21/02 4:10:52 PM

Rpl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-3605.9	-2531.9	-0.0126	mg/L	-0.6276	ppm
1	Al 308.215	9121663.2	9117065.7	249.9	mg/L	12490	ppm
1	As 188.979	412.9	343.5	0.1554	mg/L	7.769	ppm
1	Ba 233.527	295657.9	296523.5	0.8394	mg/L	41.97	ppm
1	Be 313.107	23559.8	23974.0	0.0087	mg/L	0.4326	ppm
1	Ca 227.547	186164.8	185881.3	719.6	mg/L	35980	ppm
1	Cd 228.802	224.0	134.3	0.0011	mg/L	0.0530	ppm
1	Co 228.616	21478.2	21894.9	0.2070	mg/L	10.35	ppm
1	Cr 267.716	39419.5	39579.3	0.4280	mg/L	21.40	ppm
1	Cu 324.754	53820.9	51534.0	0.1796	mg/L	8.982	ppm
1	Fe 273.955	19436082.0	19433092.2	390.3	mg/L	19510	ppm
1	Mg 279.079	3570822.1	3570225.9	112.4	mg/L	5621	ppm
1	Mn 257.610	4333796.4	4332675.6	2.730	mg/L	136.5	ppm
1	Mo 202.030	155.0	183.5	-0.0054	mg/L	-0.2715	ppm
1	Ni 231.604	21188.2	20913.0	0.4132	mg/L	20.66	ppm
1	Pb 220.353	2839.2	2654.3	0.1913	mg/L	9.565	ppm
1	Sb 206.833	246.9	186.3	0.0083	mg/L	0.4169	ppm
1	Se 196.026	-244.2	-328.5	-0.0200	mg/L	-0.9987	ppm
1	Tl 190.800	413.7	225.2	-0.0309	mg/L	-1.547	ppm
1	V 292.402	92882.0	92719.2	0.8316	mg/L	41.58	ppm
1	Zn 213.856	90107.0	90690.4	0.8141	mg/L	40.70	ppm
2	Ag 328.068	-3640.3	-2566.3	-0.0127	mg/L	-0.6361	ppm
2	Al 308.215	9257869.1	9253271.5	253.6	mg/L	12680	ppm
2	As 188.979	368.7	299.3	0.1378	mg/L	6.888	ppm
2	Ba 233.527	289677.9	290543.5	0.8224	mg/L	41.12	ppm
2	Be 313.107	23042.5	23456.7	0.0085	mg/L	0.4233	ppm
2	Ca 227.547	180727.6	180444.1	698.9	mg/L	34940	ppm
2	Cd 228.802	288.8	199.0	0.0016	mg/L	0.0785	ppm
2	Co 228.616	21717.1	22133.8	0.2092	mg/L	10.46	ppm
2	Cr 267.716	38147.7	38307.4	0.4138	mg/L	20.69	ppm
2	Cu 324.754	52684.4	50397.5	0.1763	mg/L	8.816	ppm
2	Fe 273.955	19700565.7	19697575.9	395.6	mg/L	19780	ppm
2	Mg 279.079	3483879.0	3483282.9	109.7	mg/L	5484	ppm
2	Mn 257.610	4214360.4	4213239.7	2.654	mg/L	132.7	ppm

2	Mo 202.030	111.7	140.2	-0.0079	mg/L	-0.3965 ppm
2	Ni 231.604	21270.3	20995.1	0.4149	mg/L	20.74 ppm
2	Pb 220.353	2829.7	2644.8	0.1908	mg/L	9.538 ppm
2	Sb 206.833	198.5	137.9	-0.0032	mg/L	-0.1580 ppm
2	Se 196.026	-221.6	-305.9	-0.0104	mg/L	-0.5219 ppm
2	Tl 190.800	419.5	230.9	-0.0306	mg/L	-1.528 ppm
2	V 292.402	89605.2	89442.5	0.8022	mg/L	40.11 ppm
2	Zn 213.856	87812.5	88395.9	0.7919	mg/L	39.59 ppm
3	Ag 328.068	-3929.7	-2855.8	-0.0142	mg/L	-0.7078 ppm
3	Al 308.215	9288021.8	9283424.2	254.4	mg/L	12720 ppm
3	As 188.979	410.0	340.6	0.1541	mg/L	7.704 ppm
3	Ba 233.527	295577.9	296443.5	0.8391	mg/L	41.96 ppm
3	Be 313.107	23516.3	23930.5	0.0086	mg/L	0.4318 ppm
3	Ca 227.547	184457.7	184174.2	713.2	mg/L	35660 ppm
3	Cd 228.802	343.4	253.7	0.0020	mg/L	0.1001 ppm
3	Co 228.616	21930.2	22346.9	0.2112	mg/L	10.56 ppm
3	Cr 267.716	39131.5	39291.3	0.4246	mg/L	21.23 ppm
3	Cu 324.754	53976.2	51689.3	0.1804	mg/L	9.022 ppm
3	Fe 273.955	19774889.5	19771899.7	397.1	mg/L	19850 ppm
3	Mg 279.079	3551767.8	3551171.7	111.8	mg/L	5591 ppm
3	Mn 257.610	4296523.1	4295402.4	2.706	mg/L	135.3 ppm
3	Mo 202.030	209.7	238.2	-0.0028	mg/L	-0.1398 ppm
3	Ni 231.604	21166.8	20891.5	0.4128	mg/L	20.64 ppm
3	Pb 220.353	2915.3	2730.5	0.1966	mg/L	9.829 ppm
3	Sb 206.833	156.8	96.2	-0.0135	mg/L	-0.6773 ppm
3	Se 196.026	-207.0	-291.3	-0.0048	mg/L	-0.2379 ppm
3	Tl 190.800	386.5	197.9	-0.0405	mg/L	-2.026 ppm
3	V 292.402	92229.5	92066.7	0.8257	mg/L	41.29 ppm
3	Zn 213.856	89657.3	90240.7	0.8091	mg/L	40.46 ppm

Mean Data ----------

ID: 6149-10 F=50 Seq. No.: 91 Sample No.: 67 A/S Pos: 75

Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 4:10:52 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-2651.3	-0.0131	0.00088	mg/L	-0.6572	0.04409	ppm	6.71%
Al 308.215	9217920.5	252.6	2.43	mg/L	12630	121.5	ppm	0.96%
As 188.979	327.8	0.1491	0.00982	mg/L	7.454	0.4911	ppm	6.59%
Ba 233.527	294503.5	0.8336	0.00971	mg/L	41.68	0.485	ppm	1.16%
Be 313.107	23787.1	0.0086	0.00010	mg/L	0.4292	0.00518	ppm	1.21%
Ca 227.547	183499.9	710.5	10.59	mg/L	35530	529.4	ppm	1.49%
Cd 228.802	195.6	0.0015	0.00047	mg/L	0.0772	0.02359	ppm	30.55%
Co 228.616	22125.2	0.2091	0.00214	mg/L	10.46	0.107	ppm	1.02%
Cr 267.716	39059.3	0.4221	0.00742	mg/L	21.11	0.371	ppm	1.76%
Cu 324.754	51207.0	0.1788	0.00219	mg/L	8.940	0.1093	ppm	1.22%
Fe 273.955	19634189.3	394.3	3.58	mg/L	19710	178.8	ppm	0.91%
Mg 279.079	3534893.5	111.3	1.44	mg/L	5565	71.9	ppm	1.29%
Mn 257.610	4280439.3	2.697	0.0385	mg/L	134.8	1.92	ppm	1.43%
Mo 202.030	187.3	-0.0054	0.00257	mg/L	-0.2693	0.12837	ppm	47.67%
Ni 231.604	20933.2	0.4136	0.00108	mg/L	20.68	0.054	ppm	0.26%
Pb 220.353	2676.5	0.1929	0.00321	mg/L	9.644	0.1607	ppm	1.67%
Sb 206.833	140.1	-0.0028	0.01095	mg/L	-0.1395	0.54729	ppm	392.40%
Se 196.026	-308.6	-0.0117	0.00769	mg/L	-0.5862	0.38446	ppm	65.59%
Tl 190.800	218.0	-0.0340	0.00565	mg/L	-1.700	0.2826	ppm	16.62%
V 292.402	91409.5	0.8198	0.01556	mg/L	40.99	0.778	ppm	1.90%
Zn 213.856	89775.7	0.8050	0.01165	mg/L	40.25	0.583	ppm	1.45%

Replicate Data ----------

ID: 6149-11 F=50 Date: 11/21/02 4:13:39 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-2940.4	-1866.5	-0.0093	mg/L	-0.4626	ppm
1	Al 308.215	3360093.7	3355496.1	91.97	mg/L	4598	ppm
1	As 188.979	94.2	24.7	0.0603	mg/L	3.013	ppm
1	Ba 233.527	325242.0	326107.6	0.9231	mg/L	46.16	ppm
1	Be 313.107	5626.9	6041.1	0.0022	mg/L	0.1090	ppm
1	Ca 227.547	497320.8	497037.3	1904	mg/L	95190	ppm

1	Cd 228.802	595.4	505.6	0.0040	mg/L	0.1995 ppm
1	Co 228.616	24708.2	25124.9	0.2375	mg/L	11.88 ppm
1	Cr 267.716	16884.8	17044.6	0.1885	mg/L	9.424 ppm
1	Cu 324.754	22794.0	20507.1	0.0701	mg/L	3.506 ppm
1	Fe 273.955	6258272.7	6255282.9	125.6	mg/L	6281 ppm
1	Mg 279.079	2549979.7	2549383.5	80.27	mg/L	4013 ppm
1	Mn 257.610	11383729.0	11382608.3	7.171	mg/L	358.6 ppm
1	Mo 202.030	-35.1	-6.6	-0.0052	mg/L	-0.2612 ppm
1	Ni 231.604	11029.9	10754.7	0.2125	mg/L	10.63 ppm
1	Pb 220.353	1116.0	931.1	0.0741	mg/L	3.707 ppm
1	Sb 206.833	62.3	1.7	-0.0130	mg/L	-0.6508 ppm
1	Se 196.026	-44.3	-128.6	-0.0156	mg/L	-0.7786 ppm
1	Tl 190.800	272.5	84.0	-0.0064	mg/L	-0.3218 ppm
1	V 292.402	30181.8	30019.1	0.2692	mg/L	13.46 ppm
1	Zn 213.856	57636.2	58219.6	0.5358	mg/L	26.79 ppm
2	Ag 328.068	-2672.9	-1599.0	-0.0079	mg/L	-0.3963 ppm
2	Al 308.215	3298222.5	3293625.0	90.27	mg/L	4514 ppm
2	As 188.979	121.9	52.4	0.0697	mg/L	3.486 ppm
2	Ba 233.527	319134.3	319999.9	0.9058	mg/L	45.29 ppm
2	Be 313.107	5593.0	6007.2	0.0022	mg/L	0.1084 ppm
2	Ca 227.547	485248.4	484964.9	1858	mg/L	92880 ppm
2	Cd 228.802	665.1	575.3	0.0045	mg/L	0.2270 ppm
2	Co 228.616	25099.3	25516.0	0.2412	mg/L	12.06 ppm
2	Cr 267.716	17256.0	17415.8	0.1926	mg/L	9.629 ppm
2	Cu 324.754	22399.5	20112.5	0.0688	mg/L	3.438 ppm
2	Fe 273.955	6126023.9	6123034.1	123.0	mg/L	6148 ppm
2	Mg 279.079	2496274.3	2495678.2	78.58	mg/L	3929 ppm
2	Mn 257.610	11034446.9	11033326.2	6.951	mg/L	347.6 ppm
2	Mo 202.030	-57.7	-29.2	-0.0063	mg/L	-0.3161 ppm
2	Ni 231.604	11134.2	10858.9	0.2146	mg/L	10.73 ppm
2	Pb 220.353	1046.8	861.9	0.0693	mg/L	3.463 ppm
2	Sb 206.833	87.9	27.3	-0.0069	mg/L	-0.3428 ppm
2	Se 196.026	-85.7	-170.0	-0.0313	mg/L	-1.563 ppm
2	Tl 190.800	262.2	73.7	-0.0088	mg/L	-0.4404 ppm
2	V 292.402	29772.8	29610.0	0.2656	mg/L	13.28 ppm
2	Zn 213.856	56176.2	56759.6	0.5223	mg/L	26.12 ppm
3	Ag 328.068	-2632.4	-1558.4	-0.0077	mg/L	-0.3863 ppm
3	Al 308.215	3303942.4	3299344.8	90.43	mg/L	4521 ppm
3	As 188.979	93.7	24.2	0.0593	mg/L	2.963 ppm
3	Ba 233.527	319778.7	320644.3	0.9076	mg/L	45.38 ppm
3	Be 313.107	5666.7	6080.9	0.0022	mg/L	0.1097 ppm
3	Ca 227.547	487683.7	487400.3	1867	mg/L	93350 ppm
3	Cd 228.802	482.9	393.2	0.0031	mg/L	0.1551 ppm
3	Co 228.616	24341.0	24757.7	0.2340	mg/L	11.70 ppm
3	Cr 267.716	16761.2	16921.0	0.1871	mg/L	9.355 ppm
3	Cu 324.754	23010.0	20723.1	0.0709	mg/L	3.543 ppm
3	Fe 273.955	6324042.3	6321052.5	126.9	mg/L	6347 ppm
3	Mg 279.079	2500973.4	2500377.3	78.73	mg/L	3936 ppm
3	Mn 257.610	11403977.0	11402856.3	7.184	mg/L	359.2 ppm
3	Mo 202.030	-3.7	24.9	-0.0036	mg/L	-0.1806 ppm
3	Ni 231.604	10793.1	10517.9	0.2078	mg/L	10.39 ppm
3	Pb 220.353	1078.9	894.0	0.0714	mg/L	3.572 ppm
3	Sb 206.833	64.6	3.9	-0.0124	mg/L	-0.6218 ppm
3	Se 196.026	0.6	-83.7	0.0013	mg/L	0.0633 ppm
3	Tl 190.800	234.2	45.7	-0.0176	mg/L	-0.8789 ppm
3	V 292.402	29990.4	29827.6	0.2675	mg/L	13.38 ppm
3	Zn 213.856	56794.1	57377.5	0.5277	mg/L	26.39 ppm

ean Data

ID: 6149-11 F=50 Seq. No.: 92 Sample No.: 68 A/S Pos: 76
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 4:13:39 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-1674.6	-0.0083	0.00083	mg/L	-0.4151	0.04148	ppm	9.99%
l 308.215	3316155.3	90.89	0.937	mg/L	4545	46.9	ppm	1.03%
s 188.979	33.8	0.0631	0.00577	mg/L	3.154	0.2886	ppm	9.15%
Ba 233.527	322250.6	0.9122	0.00950	mg/L	45.61	0.475	ppm	1.04%
e 313.107	6043.1	0.0022	0.00001	mg/L	0.1090	0.00067	ppm	0.61%

Ca 227.547	489800.8	1876	24.4 mg/L	93800	1221.7 ppm	1.30%
Cd 228.802	491.4	0.0039	0.00073 mg/L	0.1939	0.03628 ppm	18.71%
Co 228.616	25132.9	0.2376	0.00358 mg/L	11.88	0.179 ppm	1.51%
Cr 267.716	17127.1	0.1894	0.00285 mg/L	9.469	0.1424 ppm	1.50%
Cu 324.754	20447.6	0.0699	0.00106 mg/L	3.496	0.0532 ppm	1.52%
Fe 273.955	6233123.1	125.2	2.03 mg/L	6259	101.3 ppm	1.62%
Mg 279.079	2515146.3	79.19	0.936 mg/L	3960	46.8 ppm	1.18%
Mn 257.610	11272930.3	7.102	0.1309 mg/L	355.1	6.54 ppm	1.84%
Mo 202.030	-3.6	-0.0051	0.00136 mg/L	-0.2526	0.06817 ppm	26.98%
Ni 231.604	10710.5	0.2116	0.00345 mg/L	10.58	0.173 ppm	1.63%
Pb 220.353	895.7	0.0716	0.00245 mg/L	3.581	0.1223 ppm	3.42%
Sb 206.833	10.9	-0.0108	0.00340 mg/L	-0.5385	0.17008 ppm	31.59%
Se 196.026	-127.4	-0.0152	0.01627 mg/L	-0.7595	0.81346 ppm	107.10%
Tl 190.800	67.8	-0.0109	0.00587 mg/L	-0.5470	0.29348 ppm	53.65%
V 292.402	29818.9	0.2674	0.00184 mg/L	13.37	0.092 ppm	0.69%
Zn 213.856	57452.2	0.5286	0.00679 mg/L	26.43	0.339 ppm	1.28%

Replicate Data ----------
ID: 6149-12 F=50 Date: 11/21/02 4:16:25 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-3074.5	-2000.5	-0.0099	mg/L	-0.4958	ppm
1	Al 308.215	5552746.2	5548148.6	152.1	mg/L	7603	ppm
1	As 188.979	309.0	239.5	0.1110	mg/L	5.549	ppm
1	Ba 233.527	295826.3	296691.9	0.8398	mg/L	41.99	ppm
1	Be 313.107	6512.8	6927.0	0.0025	mg/L	0.1250	ppm
1	Ca 227.547	134686.1	134402.6	520.6	mg/L	26030	ppm
1	Cd 228.802	415.9	326.2	0.0026	mg/L	0.1287	ppm
1	Co 228.616	14457.7	14874.4	0.1406	mg/L	7.030	ppm
1	Cr 267.716	27073.7	27233.5	0.2938	mg/L	14.69	ppm
1	Cu 324.754	62455.5	60168.6	0.2024	mg/L	10.12	ppm
1	Fe 273.955	14715836.6	14712846.7	295.5	mg/L	14770	ppm
1	Mg 279.079	2805859.0	2805262.9	88.32	mg/L	4416	ppm
1	Mn 257.610	6411260.9	6410140.2	4.039	mg/L	201.9	ppm
1	Mo 202.030	152.7	181.2	-0.0019	mg/L	-0.0936	ppm
1	Ni 231.604	13734.0	13458.8	0.2659	mg/L	13.30	ppm
1	Pb 220.353	2629.1	2444.2	0.1718	mg/L	8.589	ppm
1	Sb 206.833	170.7	110.1	0.0010	mg/L	0.0481	ppm
1	Se 196.026	-150.2	-234.5	-0.0073	mg/L	-0.3641	ppm
1	Tl 190.800	334.3	145.8	-0.0266	mg/L	-1.329	ppm
1	V 292.402	69358.1	69195.3	0.6206	mg/L	31.03	ppm
1	Zn 213.856	136260.2	136843.6	1.259	mg/L	62.97	ppm
2	Ag 328.068	-2960.4	-1886.4	-0.0094	mg/L	-0.4676	ppm
2	Al 308.215	5528564.2	5523966.7	151.4	mg/L	7570	ppm
2	As 188.979	295.6	226.1	0.1062	mg/L	5.310	ppm
2	Ba 233.527	304100.1	304965.7	0.8633	mg/L	43.16	ppm
2	Be 313.107	6709.1	7123.3	0.0026	mg/L	0.1285	ppm
2	Ca 227.547	137994.6	137711.1	533.2	mg/L	26660	ppm
2	Cd 228.802	465.6	375.8	0.0030	mg/L	0.1483	ppm
2	Co 228.616	14434.2	14850.9	0.1404	mg/L	7.019	ppm
2	Cr 267.716	27311.4	27471.2	0.2965	mg/L	14.82	ppm
2	Cu 324.754	64815.0	62528.1	0.2098	mg/L	10.49	ppm
2	Fe 273.955	14669096.1	14666106.2	294.5	mg/L	14730	ppm
2	Mg 279.079	2876961.3	2876365.1	90.56	mg/L	4528	ppm
2	Mn 257.610	6342753.3	6341632.6	3.995	mg/L	199.8	ppm
2	Mo 202.030	182.2	210.7	-0.0003	mg/L	-0.0137	ppm
2	Ni 231.604	13723.8	13448.6	0.2657	mg/L	13.29	ppm
2	Pb 220.353	2605.2	2420.3	0.1702	mg/L	8.510	ppm
2	Sb 206.833	145.5	84.9	-0.0051	mg/L	-0.2539	ppm
2	Se 196.026	-81.7	-166.0	0.0174	mg/L	0.8679	ppm
2	Tl 190.800	262.1	73.6	-0.0474	mg/L	-2.370	ppm
2	V 292.402	70760.9	70598.1	0.6332	mg/L	31.66	ppm
2	Zn 213.856	140020.2	140603.6	1.295	mg/L	64.75	ppm
3	Ag 328.068	-3040.7	-1966.7	-0.0097	mg/L	-0.4875	ppm
3	Al 308.215	5656858.9	5652261.4	154.9	mg/L	7746	ppm
3	As 188.979	279.1	209.7	0.0995	mg/L	4.975	ppm
3	Ba 233.527	299146.1	300011.7	0.8492	mg/L	42.46	ppm
3	Be 313.107	6650.3	7064.5	0.0025	mg/L	0.1275	ppm

3	Ca 227.547	135285.5	135002.0	523.0	mg/L	26150 ppm
3	Cd 228.802	422.5	332.8	0.0026	mg/L	0.1313 ppm
3	Co 228.616	13682.7	14099.4	0.1333	mg/L	6.664 ppm
3	Cr 267.716	25692.0	25851.8	0.2784	mg/L	13.92 ppm
3	Cu 324.754	63439.7	61152.7	0.2057	mg/L	10.29 ppm
3	Fe 273.955	14942322.4	14939332.6	300.0	mg/L	15000 ppm
3	Mg 279.079	2831573.0	2830976.9	89.13	mg/L	4457 ppm
3	Mn 257.610	6449979.1	6448858.4	4.063	mg/L	203.1 ppm
3	Mo 202.030	186.2	214.7	-0.0003	mg/L	-0.0136 ppm
3	Ni 231.604	13246.5	12971.3	0.2563	mg/L	12.82 ppm
3	Pb 220.353	2390.9	2206.0	0.1560	mg/L	7.799 ppm
3	Sb 206.833	181.7	121.0	0.0038	mg/L	0.1881 ppm
3	Se 196.026	-105.9	-190.2	0.0100	mg/L	0.4990 ppm
3	Tl 190.800	336.8	148.3	-0.0270	mg/L	-1.349 ppm
3	V 292.402	70117.6	69954.9	0.6274	mg/L	31.37 ppm
3	Zn 213.856	137261.6	137845.0	1.268	mg/L	63.42 ppm

ean Data ----------

): 6149-12 F=50 Seq. No.: 93 Sample No.: 69 A/S Pos: 77

Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 11/21/02 4:16:25 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-1951.2	-0.0097	0.00029	mg/L	-0.4836	0.01453	ppm	3.00%
l 308.215	5574792.2	152.8	1.87	mg/L	7640	93.4	ppm	1.22%
188.979	225.1	0.1056	0.00577	mg/L	5.278	0.2884	ppm	5.46%
233.527	300556.4	0.8508	0.01179	mg/L	42.54	0.589	ppm	1.39%
Be 313.107	7038.3	0.0025	0.00004	mg/L	0.1270	0.00182	ppm	1.43%
a 227.547	135705.3	525.6	6.71	mg/L	26280	335.5	ppm	1.28%
d 228.802	344.9	0.0027	0.00021	mg/L	0.1361	0.01064	ppm	7.82%
o 228.616	14608.2	0.1381	0.00417	mg/L	6.904	0.2084	ppm	3.02%
Cr 267.716	26852.1	0.2896	0.00974	mg/L	14.48	0.487	ppm	3.36%
Cu 324.754	61283.1	0.2060	0.00369	mg/L	10.30	0.184	ppm	1.79%
e 273.955	14772761.9	296.7	2.93	mg/L	14830	146.7	ppm	0.99%
g 279.079	2837535.0	89.34	1.134	mg/L	4467	56.7	ppm	1.27%
Mn 257.610	6400210.4	4.032	0.0342	mg/L	201.6	1.71	ppm	0.85%
Mo 202.030	202.2	-0.0008	0.00092	mg/L	-0.0403	0.04617	ppm	114.62%
231.604	13292.9	0.2627	0.00550	mg/L	13.13	0.275	ppm	2.10%
b 220.353	2356.8	0.1660	0.00870	mg/L	8.300	0.4352	ppm	5.24%
Sb 206.833	105.3	-0.0001	0.00452	mg/L	-0.0059	0.22589	ppm	>999.9%
Se 196.026	-196.9	0.0067	0.01265	mg/L	0.3342	0.63231	ppm	189.18%
l 190.800	122.6	-0.0337	0.01191	mg/L	-1.683	0.5954	ppm	35.38%
292.402	69916.1	0.6271	0.00630	mg/L	31.35	0.315	ppm	1.00%
n 213.856	138430.8	1.274	0.0185	mg/L	63.71	0.925	ppm	1.45%

eplicate Data ----------

): CCV 1379B Date: 11/21/02 4:19:30 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	204017.1	205091.1	1.017	mg/L		
1	Al 308.215	189293.1	184695.5	5.062	mg/L		
1	As 188.979	1396.3	1326.8	0.5146	mg/L		
1	Ba 233.527	1834459.1	1835324.7	5.195	mg/L		
1	Be 313.107	1420394.0	1420808.2	0.5128	mg/L		
1	Ca 227.547	13683.8	13400.3	51.25	mg/L		
1	Cd 228.802	132288.9	132199.2	1.043	mg/L		
1	Co 228.616	220903.6	221320.3	2.092	mg/L		
1	Cr 267.716	46057.1	46216.9	0.5110	mg/L		
1	Cu 324.754	667709.3	665422.4	2.089	mg/L		
1	Fe 273.955	260837.9	257848.1	5.178	mg/L		
1	Mg 279.079	826797.0	826200.9	26.01	mg/L		
1	Mn 257.610	3345790.6	3344669.9	2.107	mg/L		
1	Mo 202.030	38395.3	38423.8	2.035	mg/L		
1	Ni 231.604	105336.0	105060.8	2.076	mg/L		
1	Pb 220.353	7804.8	7619.9	0.5099	mg/L		
1	Sb 206.833	8701.0	8640.4	2.052	mg/L		
1	Se 196.026	1496.7	1412.4	0.5146	mg/L		
1	Tl 190.800	1975.6	1787.1	0.5196	mg/L		
1	V 292.402	226968.0	226805.2	2.034	mg/L		

1	Zn 213.856	216006.8	216590.2	2.043 mg/L
2	Ag 328.068	196924.8	197998.8	0.9815 mg/L
2	Al 308.215	184241.5	179644.0	4.924 mg/L
2	As 188.979	1389.2	1319.7	0.5117 mg/L
2	Ba 233.527	1792711.4	1793577.0	5.077 mg/L
2	Be 313.107	1396712.4	1397126.6	0.5042 mg/L
2	Ca 227.547	13409.6	13126.1	50.20 mg/L
2	Cd 228.802	127654.0	127564.2	1.007 mg/L
2	Co 228.616	213536.9	213953.6	2.022 mg/L
2	Cr 267.716	44371.6	44531.4	0.4924 mg/L
2	Cu 324.754	650797.8	648510.9	2.036 mg/L
2	Fe 273.955	252695.6	249705.7	5.015 mg/L
2	Mg 279.079	807585.7	806989.6	25.41 mg/L
2	Mn 257.610	3252050.6	3250929.9	2.048 mg/L
2	Mo 202.030	37572.6	37601.1	1.992 mg/L
2	Ni 231.604	102863.9	102588.7	2.027 mg/L
2	Pb 220.353	7719.4	7534.5	0.5041 mg/L
2	Sb 206.833	8607.5	8546.8	2.030 mg/L
2	Se 196.026	1493.2	1408.9	0.5132 mg/L
2	Tl 190.800	1955.0	1766.5	0.5136 mg/L
2	V 292.402	218299.3	218136.6	1.956 mg/L
2	Zn 213.856	209734.0	210317.4	1.984 mg/L
3	Ag 328.068	202053.9	203127.9	1.007 mg/L
3	Al 308.215	188128.2	183530.6	5.030 mg/L
3	As 188.979	1392.6	1323.1	0.5132 mg/L
3	Ba 233.527	1811050.0	1811915.6	5.129 mg/L
3	Be 313.107	1404683.0	1405097.2	0.5071 mg/L
3	Ca 227.547	13722.0	13438.6	51.40 mg/L
3	Cd 228.802	131271.8	131182.0	1.035 mg/L
3	Co 228.616	219813.3	220230.0	2.082 mg/L
3	Cr 267.716	45680.9	45840.7	0.5069 mg/L
3	Cu 324.754	659856.0	657569.1	2.064 mg/L
3	Fe 273.955	255829.4	252839.6	5.078 mg/L
3	Mg 279.079	818077.0	817480.9	25.74 mg/L
3	Mn 257.610	3309224.1	3308103.4	2.084 mg/L
3	Mo 202.030	38426.4	38454.9	2.037 mg/L
3	Ni 231.604	104716.1	104440.9	2.064 mg/L
3	Pb 220.353	7740.5	7555.6	0.5056 mg/L
3	Sb 206.833	8630.7	8570.1	2.035 mg/L
3	Se 196.026	1496.7	1412.4	0.5145 mg/L
3	Tl 190.800	1970.7	1782.1	0.5181 mg/L
3	V 292.402	225647.6	225484.9	2.022 mg/L
3	Zn 213.856	214889.2	215472.6	2.032 mg/L

Mean Data ----------

ID: CCV 1379B
Sample Qty: 1.0000 g

Seq. No.: 94
Prep. Vol.:
Data: Original

Sample No.: 5
1.0 L

A/S Pos: 6
Dilution: 1.0: 1.0
Date: 11/21/02 4:19:30 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	202072.6	1.002	0.0182	mg/L				1.81%
Al 308.215	182623.4	5.005	0.0725	mg/L				1.45%
As 188.979	1323.2	0.5132	0.00145	mg/L				0.28%
Ba 233.527	1813605.8	5.134	0.0592	mg/L				1.15%
Be 313.107	1407677.3	0.5080	0.00435	mg/L				0.86%
Ca 227.547	13321.7	50.95	0.652	mg/L				1.28%
Cd 228.802	130315.1	1.029	0.0192	mg/L				1.87%
Co 228.616	218501.3	2.065	0.0376	mg/L				1.82%
Cr 267.716	45529.6	0.5034	0.00978	mg/L				1.94%
Cu 324.754	657167.5	2.063	0.0266	mg/L				1.29%
Fe 273.955	253464.4	5.090	0.0825	mg/L				1.62%
Mg 279.079	816890.4	25.72	0.303	mg/L				1.18%
Mn 257.610	3301234.4	2.080	0.0298	mg/L				1.43%
Mo 202.030	38159.9	2.021	0.0257	mg/L				1.27%
Ni 231.604	104030.1	2.056	0.0254	mg/L				1.24%
Pb 220.353	7570.0	0.5065	0.00297	mg/L				0.59%
Sb 206.833	8585.8	2.039	0.0114	mg/L				0.56%
Se 196.026	1411.2	0.5141	0.00075	mg/L				0.15%
Tl 190.800	1778.6	0.5171	0.00313	mg/L				0.60%

292.402	223475.6	2.004	0.0419 mg/L	2.09%
213.856	214126.7	2.019	0.0316 mg/L	1.56%

Replicate Data ----------

: CCB Date: 11/21/02 4:22:57 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-988.4	85.5	0.0004	mg/L		
1	Al 308.215	4888.8	291.2	0.0080	mg/L		
1	As 188.979	64.0	-5.4	-0.0021	mg/L		
1	Ba 233.527	-501.0	364.6	0.0010	mg/L		
1	Be 313.107	157.4	571.6	0.0002	mg/L		
1	Ca 227.547	222.9	-60.6	-0.2317	mg/L		
1	Cd 228.802	97.0	7.2	0.0001	mg/L		
1	Co 228.616	-376.7	40.0	0.0004	mg/L		
1	Cr 267.716	-127.9	31.9	0.0004	mg/L		
1	Cu 324.754	2588.9	302.0	0.0009	mg/L		
1	Fe 273.955	4216.5	1226.7	0.0246	mg/L		
1	Mg 279.079	-641.9	-1238.1	-0.0390	mg/L		
1	Mn 257.610	2563.9	1443.2	0.0009	mg/L		
1	Mo 202.030	0.9	29.4	0.0016	mg/L		
1	Ni 231.604	376.5	101.3	0.0020	mg/L		
1	Pb 220.353	187.0	2.1	0.0001	mg/L		
1	Sb 206.833	62.0	1.4	0.0003	mg/L		
1	Se 196.026	77.4	-6.8	-0.0025	mg/L		
1	Tl 190.800	199.5	10.9	0.0032	mg/L		
1	V 292.402	296.4	133.7	0.0012	mg/L		
1	Zn 213.856	-211.8	371.6	0.0035	mg/L		
2	Ag 328.068	-879.0	194.9	0.0010	mg/L		
2	Al 308.215	4765.3	167.7	0.0046	mg/L		
2	As 188.979	68.4	-1.0	-0.0004	mg/L		
2	Ba 233.527	-727.8	137.9	0.0004	mg/L		
2	Be 313.107	167.8	582.0	0.0002	mg/L		
2	Ca 227.547	306.2	22.7	0.0869	mg/L		
2	Cd 228.802	87.8	-2.0	0.0000	mg/L		
2	Co 228.616	-344.9	71.8	0.0007	mg/L		
2	Cr 267.716	-114.9	44.9	0.0005	mg/L		
2	Cu 324.754	2366.3	79.3	0.0002	mg/L		
2	Fe 273.955	3733.8	743.9	0.0149	mg/L		
2	Mg 279.079	-591.2	-1187.4	-0.0374	mg/L		
2	Mn 257.610	2229.1	1108.4	0.0007	mg/L		
2	Mo 202.030	-20.1	8.4	0.0004	mg/L		
2	Ni 231.604	351.3	76.1	0.0015	mg/L		
2	Pb 220.353	176.0	-8.9	-0.0006	mg/L		
2	Sb 206.833	64.2	3.6	0.0009	mg/L		
2	Se 196.026	73.6	-10.7	-0.0039	mg/L		
2	Tl 190.800	192.8	4.3	0.0012	mg/L		
2	V 292.402	307.9	145.2	0.0013	mg/L		
2	Zn 213.856	-316.9	266.5	0.0025	mg/L		
3	Ag 328.068	-941.3	132.7	0.0007	mg/L		
3	Al 308.215	4853.9	256.3	0.0070	mg/L		
3	As 188.979	65.0	-4.5	-0.0017	mg/L		
3	Ba 233.527	-679.4	186.2	0.0005	mg/L		
3	Be 313.107	4.7	418.9	0.0002	mg/L		
3	Ca 227.547	281.3	-2.2	-0.0084	mg/L		
3	Cd 228.802	85.8	-3.9	0.0000	mg/L		
3	Co 228.616	-326.3	90.4	0.0009	mg/L		
3	Cr 267.716	-77.5	82.3	0.0009	mg/L		
3	Cu 324.754	2454.0	167.1	0.0005	mg/L		
3	Fe 273.955	3499.2	509.4	0.0102	mg/L		
3	Mg 279.079	-482.6	-1078.7	-0.0340	mg/L		
3	Mn 257.610	1982.0	861.3	0.0005	mg/L		
3	Mo 202.030	-29.0	-0.5	0.0000	mg/L		
3	Ni 231.604	389.3	114.0	0.0023	mg/L		
3	Pb 220.353	177.6	-7.3	-0.0005	mg/L		
3	Sb 206.833	51.0	-9.6	-0.0023	mg/L		
3	Se 196.026	78.6	-5.7	-0.0021	mg/L		
3	Tl 190.800	191.5	3.0	0.0009	mg/L		

3 V 292.402	229.7	66.9	0.0006	mg/L
3 Zn 213.856	-380.5	202.9	0.0019	mg/L

Mean Data

ID: CCB Seq. No.: 95 Sample No.: 6 A/S Pos: 1
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 4:22:57 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	137.7	0.0007	0.00027	mg/L				39.84%
Al 308.215	238.4	0.0065	0.00175	mg/L				26.71%
As 188.979	-3.6	-0.0014	0.00088	mg/L				63.19%
Ba 233.527	229.5	0.0006	0.00034	mg/L				52.02%
Be 313.107	524.2	0.0002	0.00003	mg/L				17.41%
Ca 227.547	-13.3	-0.0511	0.16352	mg/L				320.27%
Cd 228.802	0.4	0.0000	0.00005	mg/L				>999.9%
Co 228.616	67.4	0.0006	0.00024	mg/L				37.80%
Cr 267.716	53.0	0.0006	0.00029	mg/L				49.28%
Cu 324.754	182.8	0.0006	0.00035	mg/L				61.35%
Fe 273.955	826.7	0.0166	0.00734	mg/L				44.24%
Mg 279.079	-1168.1	-0.0368	0.00256	mg/L				6.97%
Mn 257.610	1137.6	0.0007	0.00018	mg/L				25.67%
Mo 202.030	12.4	0.0007	0.00081	mg/L				123.69%
Ni 231.604	97.1	0.0019	0.00038	mg/L				19.87%
Pb 220.353	-4.7	-0.0003	0.00040	mg/L				127.57%
Sb 206.833	-1.5	-0.0004	0.00170	mg/L				459.40%
Se 196.026	-7.8	-0.0028	0.00095	mg/L				33.91%
Tl 190.800	6.1	0.0018	0.00124	mg/L				70.55%
V 292.402	115.3	0.0010	0.00038	mg/L				36.64%
Zn 213.856	280.3	0.0026	0.00080	mg/L				30.39%

Replicate Data

ID: 6149-13 F=50 Date: 11/21/02 4:26:07 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-3178.3	-2104.4	-0.0104	mg/L	-0.5216	ppm
1	Al 308.215	5404567.0	5399969.4	148.0	mg/L	7400	ppm
1	As 188.979	329.0	259.5	0.1444	mg/L	7.219	ppm
1	Ba 233.527	801293.6	802159.2	2.271	mg/L	113.5	ppm
1	Be 313.107	13531.0	13945.2	0.0050	mg/L	0.2516	ppm
1	Ca 227.547	377578.5	377295.0	1450	mg/L	72510	ppm
1	Cd 228.802	1107.0	1017.3	0.0080	mg/L	0.4014	ppm
1	Co 228.616	17639.2	18055.9	0.1707	mg/L	8.534	ppm
1	Cr 267.716	29298.7	29458.5	0.3177	mg/L	15.89	ppm
1	Cu 324.754	141440.1	139153.2	0.4516	mg/L	22.58	ppm
1	Fe 273.955	16114423.8	16111434.0	323.6	mg/L	16180	ppm
1	Mg 279.079	3488641.3	3488045.2	109.8	mg/L	5491	ppm
1	Mn 257.610	9125573.6	9124452.9	5.749	mg/L	287.4	ppm
1	Mo 202.030	117.7	146.2	-0.0048	mg/L	-0.2407	ppm
1	Ni 231.604	16121.6	15846.4	0.3131	mg/L	15.66	ppm
1	Pb 220.353	4115.8	3930.9	0.2742	mg/L	13.71	ppm
1	Sb 206.833	166.1	105.4	-0.0018	mg/L	-0.0921	ppm
1	Se 196.026	-122.3	-206.6	0.0116	mg/L	0.5788	ppm
1	Tl 190.800	397.2	208.7	-0.0100	mg/L	-0.4982	ppm
1	V 292.402	76337.6	76174.9	0.6832	mg/L	34.16	ppm
1	Zn 213.856	126837.8	127421.2	1.168	mg/L	58.38	ppm
2	Ag 328.068	-2983.6	-1909.7	-0.0095	mg/L	-0.4733	ppm
2	Al 308.215	5340644.1	5336046.5	146.3	mg/L	7313	ppm
2	As 188.979	319.3	249.9	0.1405	mg/L	7.025	ppm
2	Ba 233.527	798684.3	799549.9	2.263	mg/L	113.2	ppm
2	Be 313.107	13510.1	13924.3	0.0050	mg/L	0.2513	ppm
2	Ca 227.547	376469.6	376186.2	1446	mg/L	72290	ppm
2	Cd 228.802	1080.7	991.0	0.0078	mg/L	0.3911	ppm
2	Co 228.616	17550.4	17967.1	0.1698	mg/L	8.492	ppm
2	Cr 267.716	29020.4	29180.2	0.3147	mg/L	15.74	ppm
2	Cu 324.754	141306.1	139019.2	0.4510	mg/L	22.55	ppm
2	Fe 273.955	15923261.5	15920271.6	319.7	mg/L	15990	ppm
2	Mg 279.079	3473912.7	3473316.5	109.4	mg/L	5468	ppm

2	Mn 257.610	9028825.1	9027704.4	5.688	mg/L	284.4 ppm
2	Mo 202.030	187.5	216.1	-0.0010	mg/L	-0.0483 ppm
2	Ni 231.604	16161.6	15886.4	0.3139	mg/L	15.70 ppm
2	Pb 220.353	4054.1	3869.2	0.2700	mg/L	13.50 ppm
2	Sb 206.833	175.8	115.1	0.0008	mg/L	0.0388 ppm
2	Se 196.026	-141.8	-226.1	0.0035	mg/L	0.1748 ppm
2	Tl 190.800	355.0	166.4	-0.0214	mg/L	-1.071 ppm
2	V 292.402	75013.3	74850.5	0.6713	mg/L	33.57 ppm
2	Zn 213.856	127339.6	127923.0	1.173	mg/L	58.63 ppm
3	Ag 328.068	-2911.4	-1837.4	-0.0091	mg/L	-0.4554 ppm
3	Al 308.215	5201054.8	5196457.2	142.4	mg/L	7121 ppm
3	As 188.979	331.1	261.6	0.1451	mg/L	7.256 ppm
3	Ba 233.527	804189.0	805054.6	2.279	mg/L	113.9 ppm
3	Be 313.107	13468.0	13882.3	0.0050	mg/L	0.2505 ppm
3	Ca 227.547	377887.9	377604.4	1451	mg/L	72560 ppm
3	Cd 228.802	1053.3	963.6	0.0076	mg/L	0.3803 ppm
3	Co 228.616	17797.9	18214.6	0.1722	mg/L	8.609 ppm
3	Cr 267.716	29185.3	29345.0	0.3167	mg/L	15.84 ppm
3	Cu 324.754	142387.1	140100.2	0.4542	mg/L	22.71 ppm
3	Fe 273.955	15619160.3	15616170.5	313.6	mg/L	15680 ppm
3	Mg 279.079	3497322.7	3496726.5	110.1	mg/L	5505 ppm
3	Mn 257.610	8786115.4	8784994.7	5.535	mg/L	276.7 ppm
3	Mo 202.030	142.7	171.2	-0.0031	mg/L	-0.1551 ppm
3	Ni 231.604	16258.9	15983.7	0.3158	mg/L	15.79 ppm
3	Pb 220.353	4163.1	3978.2	0.2771	mg/L	13.86 ppm
3	Sb 206.833	218.3	157.7	0.0113	mg/L	0.5629 ppm
3	Se 196.026	-182.7	-267.0	-0.0129	mg/L	-0.6461 ppm
3	Tl 190.800	395.1	206.6	-0.0083	mg/L	-0.4148 ppm
3	V 292.402	75408.5	75245.8	0.6749	mg/L	33.74 ppm
3	Zn 213.856	127840.8	128424.2	1.178	mg/L	58.90 ppm

Mean Data

ID: 6149-13 F=50 Seq. No.: 96 Sample No.: 70 A/S Pos: 78
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 4:26:07 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	-1950.5	-0.0097	0.00068	mg/L	-0.4834	0.03422	ppm	7.08%
Al 308.215	5310824.4	145.6	2.85	mg/L	7278	142.6	ppm	1.96%
As 188.979	257.0	0.1433	0.00249	mg/L	7.166	0.1243	ppm	1.73%
Ba 233.527	802254.5	2.271	0.0078	mg/L	113.5	0.39	ppm	0.34%
Be 313.107	13917.2	0.0050	0.00001	mg/L	0.2511	0.00058	ppm	0.23%
Ca 227.547	377028.5	1449	2.8	mg/L	72450	140.9	ppm	0.19%
Cd 228.802	990.6	0.0078	0.00021	mg/L	0.3909	0.01059	ppm	2.71%
Co 228.616	18079.2	0.1709	0.00119	mg/L	8.545	0.0593	ppm	0.69%
Cr 267.716	29327.9	0.3164	0.00152	mg/L	15.82	0.076	ppm	0.48%
Cu 324.754	139424.2	0.4523	0.00165	mg/L	22.61	0.083	ppm	0.37%
Fe 273.955	15882625.4	319.0	5.02	mg/L	15950	250.8	ppm	1.57%
Mg 279.079	3486029.4	109.8	0.37	mg/L	5488	18.6	ppm	0.34%
Mn 257.610	8979050.6	5.657	0.1102	mg/L	282.9	5.51	ppm	1.95%
Mo 202.030	177.8	-0.0030	0.00193	mg/L	-0.1480	0.09639	ppm	65.11%
Ni 231.604	15905.5	0.3143	0.00140	mg/L	15.71	0.070	ppm	0.44%
Pb 220.353	3926.1	0.2738	0.00359	mg/L	13.69	0.180	ppm	1.31%
Sb 206.833	126.1	0.0034	0.00693	mg/L	0.1698	0.34660	ppm	204.07%
Se 196.026	-233.2	0.0007	0.01248	mg/L	0.0358	0.62419	ppm	>999.9%
Tl 190.800	193.9	-0.0132	0.00714	mg/L	-0.6612	0.35701	ppm	53.99%
V 292.402	75423.7	0.6764	0.00610	mg/L	33.82	0.305	ppm	0.90%
Zn 213.856	127922.8	1.173	0.0053	mg/L	58.64	0.263	ppm	0.45%

Replicate Data

ID: 6149-14 F=50 Date: 11/21/02 4:28:46 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-3573.5	-2499.6	-0.0124	mg/L	-0.6195	ppm
1	Al 308.215	6168293.0	6163695.4	168.9	mg/L	8447	ppm
1	As 188.979	414.4	345.0	0.1464	mg/L	7.322	ppm
1	Ba 233.527	281968.1	282833.7	0.8006	mg/L	40.03	ppm
1	Be 313.107	18493.1	18907.3	0.0068	mg/L	0.3412	ppm

1	Ca 227.547	66341.4	66057.9	260.6	mg/L	13030	ppm
1	Cd 228.802	242.0	152.2	0.0012	mg/L	0.0601	ppm
1	Co 228.616	16761.4	17178.1	0.1624	mg/L	8.119	ppm
1	Cr 267.716	28045.6	28205.4	0.3029	mg/L	15.15	ppm
1	Cu 324.754	79764.5	77477.6	0.2598	mg/L	12.99	ppm
1	Fe 273.955	17988331.6	17985341.8	361.2	mg/L	18060	ppm
1	Mg 279.079	2946258.2	2945662.1	92.75	mg/L	4637	ppm
1	Mn 257.610	3391691.4	3390570.7	2.136	mg/L	106.8	ppm
1	Mo 202.030	125.7	154.2	-0.0059	mg/L	-0.2927	ppm
1	Ni 231.604	19608.7	19333.5	0.3820	mg/L	19.10	ppm
1	Pb 220.353	2996.4	2811.5	0.1950	mg/L	9.751	ppm
1	Sb 206.833	140.5	79.8	-0.0097	mg/L	-0.4864	ppm
1	Se 196.026	-161.1	-245.4	0.0073	mg/L	0.3651	ppm
1	Tl 190.800	404.2	215.6	-0.0188	mg/L	-0.9397	ppm
1	V 292.402	72723.6	72560.9	0.6508	mg/L	32.54	ppm
1	Zn 213.856	85256.4	85839.8	0.7714	mg/L	38.57	ppm
2	Ag 328.068	-3413.9	-2339.9	-0.0116	mg/L	-0.5800	ppm
2	Al 308.215	6355488.5	6350891.0	174.1	mg/L	8703	ppm
2	As 188.979	395.8	326.4	0.1397	mg/L	6.985	ppm
2	Ba 233.527	290830.1	291695.7	0.8257	mg/L	41.29	ppm
2	Be 313.107	18680.9	19095.2	0.0069	mg/L	0.3446	ppm
2	Ca 227.547	68446.7	68163.3	268.9	mg/L	13440	ppm
2	Cd 228.802	124.1	34.3	0.0003	mg/L	0.0135	ppm
2	Co 228.616	16671.8	17088.5	0.1615	mg/L	8.077	ppm
2	Cr 267.716	29092.7	29252.5	0.3143	mg/L	15.71	ppm
2	Cu 324.754	82626.5	80339.6	0.2692	mg/L	13.46	ppm
2	Fe 273.955	18457268.3	18454278.5	370.6	mg/L	18530	ppm
2	Mg 279.079	3028494.2	3027898.1	95.33	mg/L	4767	ppm
2	Mn 257.610	3484908.7	3483788.0	2.195	mg/L	109.7	ppm
2	Mo 202.030	148.0	176.5	-0.0050	mg/L	-0.2519	ppm
2	Ni 231.604	19257.3	18982.1	0.3751	mg/L	18.75	ppm
2	Pb 220.353	3010.2	2825.3	0.1962	mg/L	9.808	ppm
2	Sb 206.833	157.5	96.9	-0.0065	mg/L	-0.3260	ppm
2	Se 196.026	-166.7	-251.0	0.0077	mg/L	0.3871	ppm
2	Tl 190.800	413.1	224.6	-0.0184	mg/L	-0.9212	ppm
2	V 292.402	75184.5	75021.8	0.6728	mg/L	33.64	ppm
2	Zn 213.856	87317.6	87901.0	0.7898	mg/L	39.49	ppm
3	Ag 328.068	-3340.7	-2266.8	-0.0112	mg/L	-0.5618	ppm
3	Al 308.215	6142955.3	6138357.8	168.2	mg/L	8412	ppm
3	As 188.979	443.5	374.0	0.1576	mg/L	7.882	ppm
3	Ba 233.527	282965.8	283831.4	0.8034	mg/L	40.17	ppm
3	Be 313.107	18452.2	18866.4	0.0068	mg/L	0.3404	ppm
3	Ca 227.547	66839.9	66556.4	262.5	mg/L	13120	ppm
3	Cd 228.802	131.4	41.6	0.0003	mg/L	0.0164	ppm
3	Co 228.616	17296.1	17712.8	0.1674	mg/L	8.372	ppm
3	Cr 267.716	28356.6	28516.4	0.3064	mg/L	15.32	ppm
3	Cu 324.754	80287.1	78000.2	0.2613	mg/L	13.07	ppm
3	Fe 273.955	17894843.7	17891853.8	359.3	mg/L	17970	ppm
3	Mg 279.079	2952100.8	2951504.6	92.93	mg/L	4646	ppm
3	Mn 257.610	3409715.7	3408594.9	2.147	mg/L	107.4	ppm
3	Mo 202.030	99.0	127.5	-0.0072	mg/L	-0.3597	ppm
3	Ni 231.604	19769.3	19494.1	0.3852	mg/L	19.26	ppm
3	Pb 220.353	3021.5	2836.6	0.1967	mg/L	9.834	ppm
3	Sb 206.833	195.2	134.6	0.0034	mg/L	0.1680	ppm
3	Se 196.026	-185.7	-270.0	-0.0021	mg/L	-0.1069	ppm
3	Tl 190.800	398.6	210.0	-0.0200	mg/L	-1.002	ppm
3	V 292.402	73694.9	73532.2	0.6595	mg/L	32.97	ppm
3	Zn 213.856	85121.2	85704.6	0.7703	mg/L	38.52	ppm

Mean Data ----------

ID: 6149-14 F=50 Seq. No.: 97 Sample No.: 71 A/S Pos: 79
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 4:28:46 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
Ag 328.068	-2368.8	-0.0117	0.00059	mg/L	-0.5871	0.02950	ppm	5.03%
Al 308.215	6217648.1	170.4	3.18	mg/L	8521	159.1	ppm	1.87%
As 188.979	348.5	0.1479	0.00906	mg/L	7.397	0.4532	ppm	6.13%
Ba 233.527	286120.3	0.8099	0.01374	mg/L	40.50	0.687	ppm	1.70%

e	313.107	18956.3	0.0068	0.00004	mg/L	0.3421	0.00220	ppm	0.64%
a	227.547	66925.9	264.0	4.33	mg/L	13200	216.6	ppm	1.64%
Cd	228.802	76.0	0.0006	0.00052	mg/L	0.0300	0.02607	ppm	86.86%
Co	228.616	17326.5	0.1638	0.00319	mg/L	8.189	0.1595	ppm	1.95%
r	267.716	28658.1	0.3079	0.00581	mg/L	15.39	0.291	ppm	1.89%
u	324.754	78605.8	0.2634	0.00505	mg/L	13.17	0.252	ppm	1.92%
Fe	273.955	18110491.4	363.7	6.05	mg/L	18180	302.6	ppm	1.66%
Mg	279.079	2975021.6	93.67	1.445	mg/L	4683	72.2	ppm	1.54%
n	257.610	3427651.2	2.159	0.0312	mg/L	108.0	1.56	ppm	1.44%
o	202.030	152.7	-0.0060	0.00109	mg/L	-0.3014	0.05447	ppm	18.07%
i	231.604	19269.9	0.3808	0.00517	mg/L	19.04	0.259	ppm	1.36%
Pb	220.353	2824.5	0.1960	0.00085	mg/L	9.798	0.0424	ppm	0.43%
b	206.833	103.8	-0.0043	0.00682	mg/L	-0.2148	0.34104	ppm	158.76%
e	196.026	-255.5	0.0043	0.00558	mg/L	0.2151	0.27907	ppm	129.75%
l	190.800	216.7	-0.0191	0.00085	mg/L	-0.9544	0.04241	ppm	4.44%
V	292.402	73705.0	0.6610	0.01112	mg/L	33.05	0.556	ppm	1.68%
Zn	213.856	86481.8	0.7772	0.01097	mg/L	38.86	0.549	ppm	1.41%

eplicate Data ----------

ID: 6149-15 F=50 Date: 11/21/02 4:31:42 PM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-983.2	90.8	0.0005	mg/L	0.0225	ppm
1	Al 308.215	551680.4	547082.9	14.99	mg/L	749.7	ppm
1	As 188.979	92.9	23.4	0.0119	mg/L	0.5932	ppm
1	Ba 233.527	193256.6	194122.2	0.5495	mg/L	27.48	ppm
1	Be 313.107	-582.8	-168.6	-0.0001	mg/L	-0.0030	ppm
1	Ca 227.547	29179.0	28895.5	110.5	mg/L	5526	ppm
1	Cd 228.802	355.8	266.0	0.0021	mg/L	0.1050	ppm
1	Co 228.616	1062.4	1479.1	0.0140	mg/L	0.6991	ppm
1	Cr 267.716	3455.0	3614.8	0.0400	mg/L	1.999	ppm
1	Cu 324.754	40676.8	38389.9	0.1205	mg/L	6.026	ppm
1	Fe 273.955	1169231.3	1166241.4	23.42	mg/L	1171	ppm
1	Mg 279.079	1207712.4	1207116.3	38.01	mg/L	1900	ppm
1	Mn 257.610	2583951.8	2582831.1	1.627	mg/L	81.36	ppm
1	Mo 202.030	78.1	106.6	0.0056	mg/L	0.2824	ppm
1	Ni 231.604	2423.4	2148.2	0.0424	mg/L	2.122	ppm
1	Pb 220.353	703.3	518.4	0.0347	mg/L	1.734	ppm
1	Sb 206.833	87.3	26.7	0.0064	mg/L	0.3190	ppm
1	Se 196.026	83.2	-1.1	0.0056	mg/L	0.2788	ppm
1	Tl 190.800	225.5	37.0	0.0039	mg/L	0.1959	ppm
1	V 292.402	4942.2	4779.5	0.0429	mg/L	2.143	ppm
1	Zn 213.856	79655.4	80238.8	0.7567	mg/L	37.84	ppm
2	Ag 328.068	-1082.4	-8.4	0.0000	mg/L	-0.0021	ppm
2	Al 308.215	559800.3	555202.7	15.22	mg/L	760.9	ppm
2	As 188.979	95.3	25.9	0.0129	mg/L	0.6445	ppm
2	Ba 233.527	197767.6	198633.2	0.5623	mg/L	28.11	ppm
2	Be 313.107	-548.4	-134.2	0.0000	mg/L	-0.0024	ppm
2	Ca 227.547	30047.8	29764.3	113.8	mg/L	5692	ppm
2	Cd 228.802	358.7	269.0	0.0021	mg/L	0.1061	ppm
2	Co 228.616	1055.2	1471.9	0.0139	mg/L	0.6957	ppm
2	Cr 267.716	3458.8	3618.6	0.0400	mg/L	2.001	ppm
2	Cu 324.754	41679.6	39392.7	0.1237	mg/L	6.183	ppm
2	Fe 273.955	1183459.7	1180469.9	23.71	mg/L	1185	ppm
2	Mg 279.079	1227810.0	1227213.8	38.64	mg/L	1932	ppm
2	Mn 257.610	2617067.1	2615946.4	1.648	mg/L	82.41	ppm
2	Mo 202.030	86.1	114.6	0.0061	mg/L	0.3036	ppm
2	Ni 231.604	2413.9	2138.7	0.0423	mg/L	2.113	ppm
2	Pb 220.353	697.7	512.8	0.0343	mg/L	1.716	ppm
2	Sb 206.833	75.0	14.4	0.0034	mg/L	0.1722	ppm
2	Se 196.026	80.7	-3.6	0.0047	mg/L	0.2370	ppm
2	Tl 190.800	227.3	38.8	0.0043	mg/L	0.2168	ppm
2	V 292.402	5061.7	4898.9	0.0439	mg/L	2.197	ppm
2	Zn 213.856	81451.0	82034.4	0.7737	mg/L	38.68	ppm
3	Ag 328.068	-1060.6	13.3	0.0001	mg/L	0.0033	ppm
3	Al 308.215	556557.7	551960.1	15.13	mg/L	756.4	ppm
3	As 188.979	102.3	32.9	0.0155	mg/L	0.7770	ppm
3	Ba 233.527	193842.5	194708.1	0.5512	mg/L	27.56	ppm

3	Be 313.107	-593.5	-179.3	-0.0001	mg/L	-0.0032 ppm
3	Ca 227.547	29709.9	29426.5	112.5	mg/L	5627 ppm
3	Cd 228.802	367.5	277.7	0.0022	mg/L	0.1096 ppm
3	Co 228.616	1050.4	1467.1	0.0139	mg/L	0.6934 ppm
3	Cr 267.716	3450.6	3610.4	0.0399	mg/L	1.996 ppm
3	Cu 324.754	41081.6	38794.6	0.1218	mg/L	6.089 ppm
3	Fe 273.955	1174754.2	1171764.4	23.53	mg/L	1177 ppm
3	Mg 279.079	1221214.9	1220618.8	38.43	mg/L	1922 ppm
3	Mn 257.610	2612669.0	2611548.3	1.645	mg/L	82.27 ppm
3	Mo 202.030	72.3	100.8	0.0053	mg/L	0.2670 ppm
3	Ni 231.604	2414.7	2139.5	0.0423	mg/L	2.114 ppm
3	Pb 220.353	697.0	512.2	0.0343	mg/L	1.713 ppm
3	Sb 206.833	88.3	27.7	0.0066	mg/L	0.3310 ppm
3	Se 196.026	86.7	2.4	0.0069	mg/L	0.3432 ppm
3	Tl 190.800	223.9	35.4	0.0034	mg/L	0.1696 ppm
3	V 292.402	5019.9	4857.2	0.0436	mg/L	2.178 ppm
3	Zn 213.856	79876.6	80460.0	0.7588	mg/L	37.94 ppm

Mean Data ----------

ID: 6149-15 F=50 Seq. No.: 98 Sample No.: 72 A/S Pos: 80
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 4:31:42 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ag 328.068	31.9	0.0002	0.00026	mg/L	0.0079	0.01293	ppm	163.49%
Al 308.215	551415.2	15.11	0.112	mg/L	755.7	5.60	ppm	0.74%
As 188.979	27.4	0.0134	0.00190	mg/L	0.6716	0.09486	ppm	14.12%
Ba 233.527	195821.2	0.5543	0.00694	mg/L	27.72	0.347	ppm	1.25%
Be 313.107	-160.7	-0.0001	0.00001	mg/L	-0.0029	0.00043	ppm	14.66%
Ca 227.547	29362.1	112.3	1.67	mg/L	5615	83.7	ppm	1.49%
Cd 228.802	270.9	0.0021	0.00005	mg/L	0.1069	0.00240	ppm	2.25%
Co 228.616	1472.7	0.0139	0.00006	mg/L	0.6961	0.00286	ppm	0.41%
Cr 267.716	3614.6	0.0400	0.00005	mg/L	1.998	0.0023	ppm	0.11%
Cu 324.754	38859.1	0.1220	0.00158	mg/L	6.099	0.0792	ppm	1.30%
Fe 273.955	1172825.2	23.55	0.144	mg/L	1178	7.2	ppm	0.61%
Mg 279.079	1218316.3	38.36	0.323	mg/L	1918	16.1	ppm	0.84%
Mn 257.610	2603441.9	1.640	0.0113	mg/L	82.01	0.567	ppm	0.69%
Mo 202.030	107.4	0.0057	0.00037	mg/L	0.2843	0.01836	ppm	6.46%
Ni 231.604	2142.1	0.0423	0.00010	mg/L	2.116	0.0052	ppm	0.25%
Pb 220.353	514.5	0.0344	0.00023	mg/L	1.721	0.0114	ppm	0.66%
Sb 206.833	22.9	0.0055	0.00177	mg/L	0.2740	0.08843	ppm	32.27%
Se 196.026	-0.7	0.0057	0.00107	mg/L	0.2863	0.05348	ppm	18.68%
Tl 190.800	37.0	0.0039	0.00047	mg/L	0.1941	0.02366	ppm	12.19%
V 292.402	4845.2	0.0435	0.00054	mg/L	2.173	0.0272	ppm	1.25%
Zn 213.856	80911.0	0.7631	0.00923	mg/L	38.15	0.462	ppm	1.21%

Replicate Data ----------

ID: 6149-16 F=50 Date: 11/21/02 4:35:12 PM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-1004.0	70.0	0.0003	mg/L	0.0173	ppm
1	Al 308.215	624457.7	619860.1	16.99	mg/L	849.5	ppm
1	As 188.979	95.8	26.3	0.0151	mg/L	0.7538	ppm
1	Ba 233.527	209021.8	209887.4	0.5941	mg/L	29.71	ppm
1	Be 313.107	-572.9	-158.7	-0.0001	mg/L	-0.0029	ppm
1	Ca 227.547	38878.8	38595.3	147.6	mg/L	7381	ppm
1	Cd 228.802	365.3	275.6	0.0022	mg/L	0.1088	ppm
1	Co 228.616	1167.6	1584.3	0.0150	mg/L	0.7488	ppm
1	Cr 267.716	3855.3	4015.1	0.0444	mg/L	2.220	ppm
1	Cu 324.754	44120.7	41833.8	0.1313	mg/L	6.566	ppm
1	Fe 273.955	1394628.1	1391638.3	27.95	mg/L	1397	ppm
1	Mg 279.079	1649318.4	1648722.3	51.91	mg/L	2596	ppm
1	Mn 257.610	2744010.2	2742889.5	1.728	mg/L	86.40	ppm
1	Mo 202.030	90.3	118.8	0.0063	mg/L	0.3146	ppm
1	Ni 231.604	2583.9	2308.6	0.0456	mg/L	2.281	ppm
1	Pb 220.353	740.8	555.9	0.0372	mg/L	1.860	ppm
1	Sb 206.833	89.3	28.6	0.0069	mg/L	0.3426	ppm
1	Se 196.026	81.2	-3.1	0.0061	mg/L	0.3028	ppm
1	Tl 190.800	229.3	40.7	0.0036	mg/L	0.1799	ppm

1 V 292.402	5967.0	5804.3	0.0521 mg/L	2.603 ppm
1 Zn 213.856	59389.4	59972.8	0.5656 mg/L	28.28 ppm
2 Ag 328.068	-1085.7	-11.8	-0.0001 mg/L	-0.0029 ppm
2 Al 308.215	603133.3	598535.7	16.40 mg/L	820.2 ppm
2 As 188.979	104.8	35.4	0.0185 mg/L	0.9262 ppm
2 Ba 233.527	206646.0	207511.6	0.5874 mg/L	29.37 ppm
2 Be 313.107	-409.6	4.6	0.0000 mg/L	0.0001 ppm
2 Ca 227.547	38996.6	38713.1	148.1 mg/L	7403 ppm
2 Cd 228.802	365.9	276.1	0.0022 mg/L	0.1090 ppm
2 Co 228.616	1150.7	1567.4	0.0148 mg/L	0.7408 ppm
2 Cr 267.716	3758.1	3917.9	0.0433 mg/L	2.166 ppm
2 Cu 324.754	44287.3	42000.4	0.1318 mg/L	6.592 ppm
2 Fe 273.955	1345527.8	1342537.9	26.96 mg/L	1348 ppm
2 Mg 279.079	1604278.1	1603681.9	50.49 mg/L	2525 ppm
2 Mn 257.610	2680329.9	2679209.2	1.688 mg/L	84.40 ppm
2 Mo 202.030	78.0	106.5	0.0056 mg/L	0.2820 ppm
2 Ni 231.604	2585.5	2310.3	0.0457 mg/L	2.283 ppm
2 Pb 220.353	728.2	543.3	0.0364 mg/L	1.818 ppm
2 Sb 206.833	68.7	8.1	0.0019 mg/L	0.0969 ppm
2 Se 196.026	88.4	4.1	0.0084 mg/L	0.4207 ppm
2 Tl 190.800	226.1	37.6	0.0030 mg/L	0.1482 ppm
2 V 292.402	6115.7	5952.9	0.0534 mg/L	2.669 ppm
2 Zn 213.856	59835.3	60418.7	0.5698 mg/L	28.49 ppm
3 Ag 328.068	-1031.5	42.4	0.0002 mg/L	0.0105 ppm
3 Al 308.215	630926.3	626328.7	17.17 mg/L	858.3 ppm
3 As 188.979	96.3	26.9	0.0151 mg/L	0.7559 ppm
3 Ba 233.527	198808.1	199673.8	0.5652 mg/L	28.26 ppm
3 Be 313.107	-543.9	-129.7	0.0000 mg/L	-0.0023 ppm
3 Ca 227.547	37142.7	36859.2	141.0 mg/L	7049 ppm
3 Cd 228.802	343.5	253.7	0.0020 mg/L	0.1001 ppm
3 Co 228.616	1162.3	1579.0	0.0149 mg/L	0.7463 ppm
3 Cr 267.716	3792.4	3952.2	0.0437 mg/L	2.185 ppm
3 Cu 324.754	42241.4	39954.5	0.1254 mg/L	6.271 ppm
3 Fe 273.955	1401525.0	1398535.1	28.09 mg/L	1404 ppm
3 Mg 279.079	1657256.2	1656660.0	52.16 mg/L	2608 ppm
3 Mn 257.610	2770383.5	2769262.8	1.745 mg/L	87.23 ppm
3 Mo 202.030	88.2	116.7	0.0062 mg/L	0.3091 ppm
3 Ni 231.604	2604.3	2329.1	0.0460 mg/L	2.301 ppm
3 Pb 220.353	744.5	559.6	0.0374 mg/L	1.872 ppm
3 Sb 206.833	82.4	21.8	0.0052 mg/L	0.2606 ppm
3 Se 196.026	82.9	-1.4	0.0067 mg/L	0.3348 ppm
3 Tl 190.800	230.9	42.4	0.0040 mg/L	0.2013 ppm
3 V 292.402	5783.2	5620.4	0.0504 mg/L	2.520 ppm
3 Zn 213.856	56681.1	57264.5	0.5401 mg/L	27.00 ppm

ean Data ----------

ID: 6149-16 F=50 Seq. No.: 99 Sample No.: 73 A/S Pos: 81
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 11/21/02 4:35:12 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	33.5	0.0002	0.00021	mg/L	0.0083	0.01031	ppm	124.02%
Al 308.215	614908.2	16.85	0.399	mg/L	842.7	19.93	ppm	2.37%
As 188.979	29.5	0.0162	0.00198	mg/L	0.8120	0.09897	ppm	12.19%
Ba 233.527	205690.9	0.5822	0.01513	mg/L	29.11	0.756	ppm	2.60%
Be 313.107	-94.6	0.0000	0.00003	mg/L	-0.0017	0.00157	ppm	92.08%
Ca 227.547	38055.9	145.6	3.97	mg/L	7278	198.5	ppm	2.73%
Cd 228.802	268.5	0.0021	0.00010	mg/L	0.1059	0.00505	ppm	4.77%
Co 228.616	1576.9	0.0149	0.00008	mg/L	0.7453	0.00408	ppm	0.55%
Cr 267.716	3961.7	0.0438	0.00054	mg/L	2.190	0.0272	ppm	1.24%
Cu 324.754	41262.9	0.1295	0.00357	mg/L	6.476	0.1783	ppm	2.75%
Fe 273.955	1377570.5	27.66	0.613	mg/L	1383	30.7	ppm	2.22%
Mg 279.079	1636354.7	51.52	0.900	mg/L	2576	45.0	ppm	1.75%
Mn 257.610	2730453.9	1.720	0.0292	mg/L	86.01	1.458	ppm	1.70%
Mo 202.030	114.0	0.0060	0.00035	mg/L	0.3019	0.01744	ppm	5.78%
Ni 231.604	2316.0	0.0458	0.00022	mg/L	2.288	0.0112	ppm	0.49%
Pb 220.353	552.9	0.0370	0.00057	mg/L	1.850	0.0286	ppm	1.55%
Sb 206.833	19.5	0.0047	0.00250	mg/L	0.2334	0.12508	ppm	53.60%
Se 196.026	-0.1	0.0071	0.00122	mg/L	0.3527	0.06098	ppm	17.29%

Tl 190.800	40.2	0.0035	0.00053 mg/L	0.1765	0.02668 ppm	15.12%
V 292.402	5792.5	0.0520	0.00149 mg/L	2.598	0.0747 ppm	2.88%
Zn 213.856	59218.6	0.5585	0.01610 mg/L	27.93	0.805 ppm	2.88%

Calibration Summary
Method: TTLC
Date: 11/21/02 4:41:35 PM

Element	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
Ag 328.068	3	Linear-thru-Zero	0.0	201728.5	0.00000	0.999629
Al 308.215	3	Linear-thru-Zero	0.0	36485.1	0.00000	0.999817
As 188.979	3	Linear-thru-Zero	0.0	2605.5	0.00000	0.999770
Ba 233.527	3	Linear-thru-Zero	0.0	353270.2	0.00000	0.999272
Be 313.107	3	Linear-thru-Zero	0.0	2770834.2	0.00000	0.999755
Ca 227.547	3	Linear-thru-Zero	0.0	261.5	0.00000	0.999735
Cd 228.802	3	Linear-thru-Zero	0.0	126703.2	0.00000	0.999443
Co 228.616	3	Linear-thru-Zero	0.0	105787.8	0.00000	0.999180
Cr 267.716	3	Linear-thru-Zero	0.0	90436.1	0.00000	0.999515
Cu 324.754	3	Linear-thru-Zero	0.0	318559.2	0.00000	0.999411
Fe 273.955	3	Linear-thru-Zero	0.0	49795.4	0.00000	0.999686
Mg 279.079	3	Linear-thru-Zero	0.0	31760.7	0.00000	0.999341
Mn 257.610	3	Linear-thru-Zero	0.0	1587245.5	0.00000	0.999235
Mo 202.030	3	Linear-thru-Zero	0.0	18877.8	0.00000	0.999543
Ni 231.604	3	Linear-thru-Zero	0.0	50607.1	0.00000	0.999058
Pb 220.353	3	Linear-thru-Zero	0.0	14945.2	0.00000	0.999777
Sb 206.833	3	Linear-thru-Zero	0.0	4181.0	0.00000	0.999783
Se 196.026	3	Linear-thru-Zero	0.0	2753.2	0.00000	0.999567
Tl 190.800	3	Linear-thru-Zero	0.0	3439.5	0.00000	0.999429
V 292.402	3	Linear-thru-Zero	0.0	111499.4	0.00000	0.999629
Zn 213.856	3	Linear-thru-Zero	0.0	106031.3	0.00000	0.999610

Replicate Data
ID: CCV 1379B
Date: 11/21/02 4:43:00 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	210814.1	211888.0	1.050	mg/L	1.050	ppm
1	Al 308.215	197367.4	192769.9	5.284	mg/L	5.284	ppm
1	As 188.979	1392.4	1322.9	0.5133	mg/L	0.5133	ppm
1	Ba 233.527	1829791.1	1830656.7	5.182	mg/L	5.182	ppm
1	Be 313.107	1422295.8	1422710.0	0.5135	mg/L	0.5135	ppm
1	Ca 227.547	14407.8	14124.3	54.02	mg/L	54.02	ppm
1	Cd 228.802	135652.3	135562.6	1.070	mg/L	1.070	ppm
1	Co 228.616	228758.7	229175.4	2.166	mg/L	2.166	ppm
1	Cr 267.716	47353.8	47513.6	0.5254	mg/L	0.5254	ppm
1	Cu 324.754	663307.3	661020.4	2.075	mg/L	2.075	ppm
1	Fe 273.955	268200.9	265211.1	5.326	mg/L	5.326	ppm
1	Mg 279.079	826229.5	825633.3	26.00	mg/L	26.00	ppm
1	Mn 257.610	3327025.2	3325904.5	2.095	mg/L	2.095	ppm
1	Mo 202.030	40363.3	40391.8	2.140	mg/L	2.140	ppm
1	Ni 231.604	109748.0	109472.8	2.163	mg/L	2.163	ppm
1	Pb 220.353	7753.9	7569.0	0.5065	mg/L	0.5065	ppm
1	Sb 206.833	8590.9	8530.2	2.025	mg/L	2.025	ppm
1	Se 196.026	1498.2	1413.9	0.5151	mg/L	0.5151	ppm
1	Tl 190.800	1955.1	1766.6	0.5136	mg/L	0.5136	ppm
1	V 292.402	234469.3	234306.6	2.101	mg/L	2.101	ppm
1	Zn 213.856	223714.8	224298.2	2.115	mg/L	2.115	ppm
2	Ag 328.068	210011.6	211085.6	1.046	mg/L	1.046	ppm
2	Al 308.215	194579.8	189982.2	5.207	mg/L	5.207	ppm
2	As 188.979	1400.2	1330.7	0.5163	mg/L	0.5163	ppm
2	Ba 233.527	1823768.1	1824633.7	5.165	mg/L	5.165	ppm
2	Be 313.107	1406192.4	1406606.6	0.5076	mg/L	0.5076	ppm
2	Ca 227.547	14114.1	13830.7	52.90	mg/L	52.90	ppm
2	Cd 228.802	135031.8	134942.0	1.065	mg/L	1.065	ppm
2	Co 228.616	225999.7	226416.4	2.140	mg/L	2.140	ppm
2	Cr 267.716	47465.5	47625.3	0.5266	mg/L	0.5266	ppm
2	Cu 324.754	660996.4	658709.5	2.068	mg/L	2.068	ppm
2	Fe 273.955	263467.4	260477.6	5.231	mg/L	5.231	ppm
2	Mg 279.079	820146.1	819550.0	25.80	mg/L	25.80	ppm

2	Mn 257.610	3311096.8	3309976.1	2.085 mg/L	2.085 ppm
2	Mo 202.030	39612.2	39640.7	2.100 mg/L	2.100 ppm
2	Ni 231.604	107765.1	107489.9	2.124 mg/L	2.124 ppm
2	Pb 220.353	7810.5	7625.6	0.5102 mg/L	0.5102 ppm
2	Sb 206.833	8698.2	8637.6	2.051 mg/L	2.051 ppm
2	Se 196.026	1501.2	1416.9	0.5162 mg/L	0.5162 ppm
2	Tl 190.800	1966.0	1777.5	0.5168 mg/L	0.5168 ppm
2	V 292.402	233600.0	233437.3	2.094 mg/L	2.094 ppm
2	Zn 213.856	221694.4	222277.8	2.096 mg/L	2.096 ppm
3	Ag 328.068	204274.2	205348.1	1.018 mg/L	1.018 ppm
3	Al 308.215	191013.0	186415.5	5.109 mg/L	5.109 ppm
3	As 188.979	1404.0	1334.5	0.5176 mg/L	0.5176 ppm
3	Ba 233.527	1820999.2	1821864.8	5.157 mg/L	5.157 ppm
3	Be 313.107	1412002.2	1412416.5	0.5097 mg/L	0.5097 ppm
3	Ca 227.547	13872.8	13589.4	51.97 mg/L	51.97 ppm
3	Cd 228.802	130917.1	130827.3	1.033 mg/L	1.033 ppm
3	Co 228.616	220011.5	220428.2	2.084 mg/L	2.084 ppm
3	Cr 267.716	45845.8	46005.6	0.5087 mg/L	0.5087 ppm
3	Cu 324.754	660419.9	658133.0	2.066 mg/L	2.066 ppm
3	Fe 273.955	258294.4	255304.5	5.127 mg/L	5.127 ppm
3	Mg 279.079	818634.1	818038.0	25.76 mg/L	25.76 ppm
3	Mn 257.610	3285470.9	3284350.2	2.069 mg/L	2.069 ppm
3	Mo 202.030	38937.2	38965.7	2.064 mg/L	2.064 ppm
3	Ni 231.604	105502.4	105227.1	2.079 mg/L	2.079 ppm
3	Pb 220.353	7827.0	7642.1	0.5113 mg/L	0.5113 ppm
3	Sb 206.833	8655.9	8595.2	2.041 mg/L	2.041 ppm
3	Se 196.026	1511.6	1427.3	0.5200 mg/L	0.5200 ppm
3	Tl 190.800	1961.9	1773.4	0.5156 mg/L	0.5156 ppm
3	V 292.402	226313.7	226150.9	2.028 mg/L	2.028 ppm
3	Zn 213.856	216194.0	216777.4	2.044 mg/L	2.044 ppm

Mean Data ----------

ID: CCV 1379B Seq. No.: 100 Sample No.: 1 A/S Pos: 6

Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0

Data: Original Date: 11/21/02 4:43:00 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	209440.6	1.038	0.0177	mg/L	1.038	0.0177	ppm	1.70%
Al 308.215	189722.5	5.200	0.0873	mg/L	5.200	0.0873	ppm	1.68%
As 188.979	1329.4	0.5157	0.00218	mg/L	0.5157	0.00218	ppm	0.42%
Ba 233.527	1825718.4	5.168	0.0127	mg/L	5.168	0.0127	ppm	0.25%
Be 313.107	1413911.0	0.5103	0.00294	mg/L	0.5103	0.00294	ppm	0.58%
Ca 227.547	13848.1	52.96	1.025	mg/L	52.96	1.025	ppm	1.93%
Cd 228.802	133777.3	1.056	0.0203	mg/L	1.056	0.0203	ppm	1.92%
Co 228.616	225340.0	2.130	0.0423	mg/L	2.130	0.0423	ppm	1.98%
Cr 267.716	47048.1	0.5202	0.01000	mg/L	0.5202	0.01000	ppm	1.92%
Cu 324.754	659287.6	2.070	0.0048	mg/L	2.070	0.0048	ppm	0.23%
Fe 273.955	260331.1	5.228	0.0995	mg/L	5.228	0.0995	ppm	1.90%
Mg 279.079	821073.8	25.85	0.127	mg/L	25.85	0.127	ppm	0.49%
Mn 257.610	3306743.6	2.083	0.0132	mg/L	2.083	0.0132	ppm	0.63%
Mo 202.030	39666.1	2.101	0.0378	mg/L	2.101	0.0378	ppm	1.80%
Ni 231.604	107396.6	2.122	0.0420	mg/L	2.122	0.0420	ppm	1.98%
Pb 220.353	7612.2	0.5093	0.00256	mg/L	0.5093	0.00256	ppm	0.50%
Sb 206.833	8587.7	2.039	0.0130	mg/L	2.039	0.0130	ppm	0.64%
Se 196.026	1419.4	0.5171	0.00253	mg/L	0.5171	0.00253	ppm	0.49%
Tl 190.800	1772.5	0.5153	0.00160	mg/L	0.5153	0.00160	ppm	0.31%
V 292.402	231298.3	2.074	0.0402	mg/L	2.074	0.0402	ppm	1.94%
Zn 213.856	221117.8	2.085	0.0367	mg/L	2.085	0.0367	ppm	1.76%

Replicate Data ----------

ID: CCB Date: 11/21/02 4:46:29 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-983.0	91.0	0.0005	mg/L	0.0005	ppm
1	Al 308.215	4604.9	7.4	0.0002	mg/L	0.0002	ppm
1	As 188.979	68.4	-1.0	-0.0004	mg/L	-0.0004	ppm
1	Ba 233.527	-428.7	436.9	0.0012	mg/L	0.0012	ppm
1	Be 313.107	258.1	672.3	0.0002	mg/L	0.0002	ppm

1	Ca 227.547	202.8	-80.6	-0.3083	mg/L	-0.3083	ppm
1	Cd 228.802	115.2	25.5	0.0002	mg/L	0.0002	ppm
1	Co 228.616	-375.9	40.8	0.0004	mg/L	0.0004	ppm
1	Cr 267.716	-115.2	44.6	0.0005	mg/L	0.0005	ppm
1	Cu 324.754	2581.7	294.8	0.0009	mg/L	0.0009	ppm
1	Fe 273.955	3374.1	384.3	0.0077	mg/L	0.0077	ppm
1	Mg 279.079	-600.1	-1196.3	-0.0377	mg/L	-0.0377	ppm
1	Mn 257.610	2258.8	1138.1	0.0007	mg/L	0.0007	ppm
1	Mo 202.030	-11.2	17.3	0.0009	mg/L	0.0009	ppm
1	Ni 231.604	389.4	114.2	0.0023	mg/L	0.0023	ppm
1	Pb 220.353	174.9	-10.0	-0.0007	mg/L	-0.0007	ppm
1	Sb 206.833	73.0	12.4	0.0030	mg/L	0.0030	ppm
1	Se 196.026	69.2	-15.1	-0.0055	mg/L	-0.0055	ppm
1	Tl 190.800	189.5	1.0	0.0003	mg/L	0.0003	ppm
1	V 292.402	299.7	137.0	0.0012	mg/L	0.0012	ppm
1	Zn 213.856	-306.2	277.2	0.0026	mg/L	0.0026	ppm
2	Ag 328.068	-891.0	183.0	0.0009	mg/L	0.0009	ppm
2	Al 308.215	4570.3	-27.3	-0.0007	mg/L	-0.0007	ppm
2	As 188.979	67.1	-2.4	-0.0009	mg/L	-0.0009	ppm
2	Ba 233.527	-656.6	209.0	0.0006	mg/L	0.0006	ppm
2	Be 313.107	151.5	565.8	0.0002	mg/L	0.0002	ppm
2	Ca 227.547	282.1	-1.3	-0.0050	mg/L	-0.0050	ppm
2	Cd 228.802	104.2	14.5	0.0001	mg/L	0.0001	ppm
2	Co 228.616	-370.3	46.4	0.0004	mg/L	0.0004	ppm
2	Cr 267.716	-145.3	14.5	0.0002	mg/L	0.0002	ppm
2	Cu 324.754	2444.7	157.8	0.0005	mg/L	0.0005	ppm
2	Fe 273.955	3008.7	18.9	0.0004	mg/L	0.0004	ppm
2	Mg 279.079	-475.2	-1071.4	-0.0337	mg/L	-0.0337	ppm
2	Mn 257.610	2027.0	906.3	0.0006	mg/L	0.0006	ppm
2	Mo 202.030	-16.4	12.1	0.0006	mg/L	0.0006	ppm
2	Ni 231.604	362.8	87.6	0.0017	mg/L	0.0017	ppm
2	Pb 220.353	168.1	-16.8	-0.0011	mg/L	-0.0011	ppm
2	Sb 206.833	62.6	1.9	0.0005	mg/L	0.0005	ppm
2	Se 196.026	67.4	-16.8	-0.0061	mg/L	-0.0061	ppm
2	Tl 190.800	199.5	11.0	0.0032	mg/L	0.0032	ppm
2	V 292.402	282.7	120.0	0.0011	mg/L	0.0011	ppm
2	Zn 213.856	-376.3	207.1	0.0020	mg/L	0.0020	ppm
3	Ag 328.068	-1080.3	-6.4	0.0000	mg/L	0.0000	ppm
3	Al 308.215	4675.2	77.6	0.0021	mg/L	0.0021	ppm
3	As 188.979	66.4	-3.0	-0.0012	mg/L	-0.0012	ppm
3	Ba 233.527	-770.6	95.0	0.0003	mg/L	0.0003	ppm
3	Be 313.107	21.3	435.6	0.0002	mg/L	0.0002	ppm
3	Ca 227.547	218.2	-65.3	-0.2497	mg/L	-0.2497	ppm
3	Cd 228.802	101.3	11.5	0.0001	mg/L	0.0001	ppm
3	Co 228.616	-343.4	73.3	0.0007	mg/L	0.0007	ppm
3	Cr 267.716	-181.0	-21.2	-0.0002	mg/L	-0.0002	ppm
3	Cu 324.754	2325.1	38.2	0.0001	mg/L	0.0001	ppm
3	Fe 273.955	2913.5	-76.3	-0.0015	mg/L	-0.0015	ppm
3	Mg 279.079	-345.1	-941.2	-0.0296	mg/L	-0.0296	ppm
3	Mn 257.610	1809.3	688.6	0.0004	mg/L	0.0004	ppm
3	Mo 202.030	-22.9	5.6	0.0003	mg/L	0.0003	ppm
3	Ni 231.604	315.3	40.1	0.0008	mg/L	0.0008	ppm
3	Pb 220.353	183.9	-1.0	-0.0001	mg/L	-0.0001	ppm
3	Sb 206.833	63.2	2.6	0.0006	mg/L	0.0006	ppm
3	Se 196.026	76.9	-7.3	-0.0027	mg/L	-0.0027	ppm
3	Tl 190.800	197.0	8.5	0.0025	mg/L	0.0025	ppm
3	V 292.402	150.5	-12.2	-0.0001	mg/L	-0.0001	ppm
3	Zn 213.856	-419.9	163.5	0.0015	mg/L	0.0015	ppm

Mean Data ----------

ID: CCB Seq. No.: 101 Sample No.: 1 A/S Pos: 1
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 11/21/02 4:46:29 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ag 328.068	89.2	0.0004	0.00047	mg/L	0.0004	0.00047	ppm	106.18%
Al 308.215	19.2	0.0005	0.00147	mg/L	0.0005	0.00147	ppm	278.11%
As 188.979	-2.1	-0.0008	0.00040	mg/L	-0.0008	0.00040	ppm	48.35%
Ba 233.527	247.0	0.0007	0.00049	mg/L	0.0007	0.00049	ppm	70.48%

e	313.107	557.9	0.0002	0.00004	mg/L	0.0002	0.00004	ppm	21.25%
a	227.547	-49.1	-0.1877	0.16087	mg/L	-0.1877	0.16087	ppm	85.72%
Cd	228.802	17.2	0.0001	0.00006	mg/L	0.0001	0.00006	ppm	42.83%
Co	228.616	53.5	0.0005	0.00016	mg/L	0.0005	0.00016	ppm	32.46%
r	267.716	12.6	0.0001	0.00036	mg/L	0.0001	0.00036	ppm	260.67%
u	324.754	163.6	0.0005	0.00040	mg/L	0.0005	0.00040	ppm	78.51%
Fe	273.955	109.0	0.0022	0.00488	mg/L	0.0022	0.00488	ppm	223.13%
Mg	279.079	-1069.6	-0.0337	0.00402	mg/L	-0.0337	0.00402	ppm	11.92%
n	257.610	911.0	0.0006	0.00014	mg/L	0.0006	0.00014	ppm	24.68%
o	202.030	11.7	0.0006	0.00031	mg/L	0.0006	0.00031	ppm	50.10%
i	231.604	80.6	0.0016	0.00074	mg/L	0.0016	0.00074	ppm	46.59%
Pb	220.353	-9.3	-0.0006	0.00053	mg/L	-0.0006	0.00053	ppm	85.27%
b	206.833	5.6	0.0013	0.00139	mg/L	0.0013	0.00139	ppm	103.50%
e	196.026	-13.1	-0.0048	0.00184	mg/L	-0.0048	0.00184	ppm	38.63%
l	190.800	6.8	0.0020	0.00152	mg/L	0.0020	0.00152	ppm	76.68%
V	292.402	81.6	0.0007	0.00073	mg/L	0.0007	0.00073	ppm	100.10%
Zn	213.856	215.9	0.0020	0.00054	mg/L	0.0020	0.00054	ppm	26.55%

eplicate Data ----------

ID: M-BL 02M2376S Date: 11/21/02 4:49:49 PM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Conc.	Sample Units
1	Ag 328.068	-910.5	163.4	0.0008	mg/L	0.0405	ppm
1	Al 308.215	4479.0	-118.6	-0.0032	mg/L	-0.1625	ppm
1	As 188.979	67.1	-2.4	-0.0009	mg/L	-0.0452	ppm
1	Ba 233.527	-762.9	102.7	0.0003	mg/L	0.0145	ppm
1	Be 313.107	-298.4	115.8	0.0000	mg/L	0.0021	ppm
1	Ca 227.547	160.9	-122.6	-0.4688	mg/L	-23.44	ppm
1	Cd 228.802	93.3	3.5	0.0000	mg/L	0.0014	ppm
1	Co 228.616	-404.9	11.8	0.0001	mg/L	0.0056	ppm
1	Cr 267.716	-23.4	136.4	0.0015	mg/L	0.0754	ppm
1	Cu 324.754	2143.9	-143.0	-0.0004	mg/L	-0.0224	ppm
1	Fe 273.955	3087.0	97.1	0.0020	mg/L	0.0975	ppm
1	Mg 279.079	-441.1	-1037.2	-0.0327	mg/L	-1.633	ppm
1	Mn 257.610	1742.3	621.6	0.0004	mg/L	0.0196	ppm
1	Mo 202.030	-29.8	-1.3	-0.0001	mg/L	-0.0035	ppm
1	Ni 231.604	373.7	98.5	0.0019	mg/L	0.0973	ppm
1	Pb 220.353	174.3	-10.6	-0.0007	mg/L	-0.0353	ppm
1	Sb 206.833	60.2	-0.4	-0.0001	mg/L	-0.0052	ppm
1	Se 196.026	80.5	-3.8	-0.0014	mg/L	-0.0682	ppm
1	Tl 190.800	191.5	2.9	0.0009	mg/L	0.0426	ppm
1	V 292.402	294.2	131.4	0.0012	mg/L	0.0589	ppm
1	Zn 213.856	-412.4	171.0	0.0016	mg/L	0.0806	ppm
2	Ag 328.068	-1184.3	-110.4	-0.0005	mg/L	-0.0274	ppm
2	Al 308.215	4642.3	44.7	0.0012	mg/L	0.0613	ppm
2	As 188.979	71.6	2.2	0.0008	mg/L	0.0419	ppm
2	Ba 233.527	-817.2	48.4	0.0001	mg/L	0.0068	ppm
2	Be 313.107	-358.2	56.0	0.0000	mg/L	0.0010	ppm
2	Ca 227.547	175.6	-107.8	-0.4124	mg/L	-20.62	ppm
2	Cd 228.802	97.2	7.4	0.0001	mg/L	0.0029	ppm
2	Co 228.616	-296.0	120.7	0.0011	mg/L	0.0571	ppm
2	Cr 267.716	-155.1	4.7	0.0001	mg/L	0.0026	ppm
2	Cu 324.754	2422.7	135.7	0.0004	mg/L	0.0213	ppm
2	Fe 273.955	2671.3	-318.5	-0.0064	mg/L	-0.3199	ppm
2	Mg 279.079	-622.1	-1218.2	-0.0384	mg/L	-1.918	ppm
2	Mn 257.610	1506.1	385.3	0.0002	mg/L	0.0121	ppm
2	Mo 202.030	-24.3	4.2	0.0002	mg/L	0.0111	ppm
2	Ni 231.604	373.3	98.1	0.0019	mg/L	0.0970	ppm
2	Pb 220.353	169.7	-15.2	-0.0010	mg/L	-0.0507	ppm
2	Sb 206.833	60.7	0.0	0.0000	mg/L	0.0006	ppm
2	Se 196.026	76.6	-7.7	-0.0028	mg/L	-0.1391	ppm
2	Tl 190.800	193.2	4.7	0.0014	mg/L	0.0682	ppm
2	V 292.402	299.6	136.9	0.0012	mg/L	0.0614	ppm
2	Zn 213.856	-463.2	120.2	0.0011	mg/L	0.0567	ppm
3	Ag 328.068	-1054.0	19.9	0.0001	mg/L	0.0049	ppm
3	Al 308.215	4739.9	142.3	0.0039	mg/L	0.1950	ppm
3	As 188.979	65.1	-4.4	-0.0017	mg/L	-0.0840	ppm
3	Ba 233.527	-901.3	-35.7	-0.0001	mg/L	-0.0051	ppm

Hg-131

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
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Mercury Digestion (7470/7471) Worksheet

Batch # 02M2385 Matrix: S Date: 11/22/02 Digested by: L.L. Diluted by: _____

Lot #: ASTM Type I water RW1386 HNO_3 020040 H_2SO_4 _____ HCl 020020 $KMnO_4$ A1308

OP #	Type	STD Lot #	$C_{std} \times V_{std}/V_f = C_i$	OP #	Type	STD Lot #	$C_{std} \times V_{std}/V_f = C_i$
1131	STD-1	AA-	= 0.0 µg/L	1135	STD-5	AA-	× / = 5.0 µg/L
1132	STD-2	AA-	× / = 0.5 µg/L	1136	STD-6	AA-	× / = 10.0 µg/L
1133	STD-3	AA-	× / = 1.0 µg/L	1137	STD-7	AA-	× / = µg/L
1134	STD-4	AA-	× / = 2.0 µg/L	1138	STD-8	AA-	× / = µg/L

11-22-02 L.L.

OP #	Type	Samp ID /Lot #	X (g or mL)	$V_{digest}/X = f_1$	$V_f/V_i = f_2$	$V_f'/V_i' = f_3$	$F = f_1 f_2 f_3$	Note
1139	Method Blank	BI Lot: BS-12	0.61	100.0/X=166.7	/ =	/ =		begin: 11:55 end: 12:30
1140	LCS1	BI Lot: ↓	0.60	100.0/X=	/ =	/ =		95°c 35 mins
1141	Sample-1	6149-1	0.60	100.0/X=	/ =	/ =		
1142	MS1 on S-1	↓	0.60	100.0/X=	/ =	/ =		
1143	MS2 on S-1	↓	0.59	100.0/X=	/ =	/ =		
1144	Sample 2	2	0.60	100.0/X=	/ =	/ =		
1145	Sample 3	3	0.61	100.0/X=	/ =	/ =		
1146	Sample 4	4	0.61	100.0/X=	/ =	/ =		
1147	Sample 5	5	0.61	100.0/X=	/ =	/ =		
1148	Sample 6	6	0.59	100.0/X=	/ =	/ =		
1149	Sample 7	7	0.60	100.0/X=	/ =	/ =		
1150	Sample 8	8	0.60	100.0/X=	/ =	/ =		
1151	Sample 9	9	0.60	100.0/X=	/ =	/ =		
1152	Sample 10	10	0.60	100.0/X=	/ =	/ =		
1153	LCS2	BI Lot: BS-12	0.59	100.0/X=	/ =	/ =		
1154	Sample 11	6149-11	0.60	100.0/X=	/ =	/ =		
1155	Sample 12	12	0.60	100.0/X=	/ =	/ =		
1156	Sample 13	13	0.61	100.0/X=	/ =	/ =		
1157	Sample 14	14	0.61	100.0/X=	/ =	/ =		
1158	Sample 15	15	0.60	100.0/X=	/ =	/ =		
1159	Sample 16	16	0.60	100.0/X=	/ =	/ =		
1160	Sample 17	6252-1	0.60	100.0/X=	/ =	/ =		
1161	Sample 18	2	0.59	100.0/X=	/ =	/ =		
1162	Sample 19	3	0.60	100.0/X=	/ =	/ =		
1163	Sample 20	4	0.60	100.0/X=	/ =	/ =		
1164	Duplicate	6149-1	0.60	100.0/X= ↓	/ =	/ =		

MS/MSD Specification

Op #	STD Lot #	$C_{STD}(\mu g/L) \times V_{STD}(mL)/X(g \text{ or } mL) = T$
1142	AA-1409	5000 × 0.1 /X= 833.3 ppb
1143	AA- ↓	↓ × ↓ /X= ↓ ppb

LCS/LCSD Specification

Op #	STD Lot #	$C_{STD}(\mu g/L) \times V_{STD}(mL)/X(g \text{ or } mL) = T$
1140	AA-1410	5000 × 0.1 /X= 833.3 ppb
1153	AA- ↓	↓ × ↓ /X= ↓ ppb

Example-File:[CUST DOC AA]HG1.TEX Seed-File:[ ]CAL_HG.TEX BODY_HG.TEX MSD_HG.TEX Root-File:[ ]HG_ROOT.TEX File:HG1.TEX
APCL form 6-110 Aug. 31, 1994 Ver. 3.0 No pencil. Use blue pen for record. Use red pen for correction.

012442
Supervisor Initial

plied P & Ch Laboratory
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Digest-060

Metal Digestion (3010/3050) Worksheet

#02W0370 Matrix: S Method used: 3050 Date: 11/26/02 Digested by: SS Diluted by: _____

ASTM Type I water RW0886 HNO_3 1102020 H_2SO_4 _____ HCl 1102020 H_2O_2 012600

#	Type	Samp ID /Lot #	X (g or mL)	$V_{digest}/X = f_1$	$V_f/V_i = f_2$	$V_f'/V_i' = f_3$	$F=f_1f_2f_3$	Note
35	Method Blank	Bl. Lot: BS02	2.00	100 /X= 50	/ =	/ =		TCC
36	LCS1	Bl. Lot: 11	1.99	/X=	/ =	/ =		T=95%
37	Sample-1	6109-1	2.00	/X=	/ =	/ =		
38	MS1 on S-1	* -1	2.00	/X=	/ =	/ =		
39	MS2 on S-1	-1	1.95	/X=	/ =	/ =		
540	Sample 2	-2	2.01	/X=	/ =	/ =		
541	Sample 3	-3	2.00	/X=	/ =	/ =		
542	Sample 4	-4	2.00	/X=	/ =	/ =		
543	Sample 5	-5	2.00	/X=	/ =	/ =		
544	Sample 6	-6	1.98	/X=	/ =	/ =		
545	Sample 7	-7	2.00	/X=	/ =	/ =		
546	Sample 8	-8	1.98	/X=	/ =	/ =		
547	Sample 9	-9	1.99	/X=	/ =	/ =		
548	Sample 10	-10	2.00	/X=	/ =	/ =		
549	LCS2	Bl. Lot: BS02	2.00	/X=	/ =	/ =		
550	Sample 11	-11	2.00	/X=	/ =	/ =		
551	Sample 12	-12	2.01	/X=	/ =	/ =		
552	Sample 13	-13	2.00	/X=	/ =	/ =		
553	Sample 14	-14	1.98	/X=	/ =	/ =		
554	Sample 15	-15	1.99	/X=	/ =	/ =		
555	Sample 16	-16	2.00	/X=	/ =	/ =		
556	Sample 17			/X=	/ =	/ =		
557	Sample 18			/X=	/ =	/ =		
558	Sample 19	SS 11/26/02		/X=	/ =	/ =		
559	Sample 20			/X=	/ =	/ =		
560	Duplicate	6109-1	2.00	100 /X= 50	/ =	/ =		

Specification of matrix spike and lab control spike

QC Type	Spiked Element *	Spike Stock Solution Lot #	Spike Stock (Rep.) Conc. C_s, μg/mL	Spike Stock Volum Used V_s mL	Spike Level $T'=C_sV_s/V$ ppm or mg/L	Sample Spike T, ppm
MS1	/AsSe/Sb/M_{20}	AA- /AA- /AA- /AA 1370	/ / / 25	/ / / 4	/ / / 1	
MS2	/AsSe/Sb/M_{20}	AA- /AA- /AA- /AA- 11	/ / /	/ / /	/ / /	
LCS1	/AsSe/Sb/M_{20}	AA- /AA- /AA- /AA 1398	/ / /	/ / /	/ / /	
LCS2	/AsSe/Sb/M_{20}	AA- /AA- /AA- /AA- 11	/ / /	/ / /	/ / /	

* Notation: T – rep. sample spike level. T' – digest solution spike level. $T=f\,T'=C_sV_s/X$. M20 (or Mj) represents 20 (or j) metals. (see STD logbook).
If digest needs dilution for different metals, use dilution worksheet.

APCL form 6-116 April 03, 1996. Ver. 4.0 No pencil. Use blue pen for record. Use red pen for correction.
Root File:[CUST DOC AA]DIGEST ROOT TEX File:[CUST DOC AA]DIGEST TEX

012413 Supervisor Initial

Level D Data Package Deliverables

Wet Chemistry

Applied P & Ch Laboratory

012414

Applied P & Ch Laboratory

Wet Analysis Results for Method ASTM-D2216

Client Name: CDM Federal Programs Corp
Project ID: San Miguel Island
Project No:
Service ID: 026149
Anal. Method ASTM-D2216
Collected by: Dave Lange

Component Name: MOISTURE
CAS No: 7732-18-5

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
02-6149-1	SMI-027-BSS	Soil	11/13/02	11/14/02	11/15/02	02W5244	%Moisture	0.5	3.4	
02-6149-2	SMI-028-BSS	Soil	11/13/02	11/14/02	11/15/02	02W5244	%Moisture	0.5	4.0	
02-6149-3	SMI-029-DTS	Soil	11/13/02	11/14/02	11/15/02	02W5244	%Moisture	0.5	5.8	
02-6149-4	SMI-030-DTS	Soil	11/13/02	11/14/02	11/15/02	02W5244	%Moisture	0.5	5.5	
02-6149-5	SMI-031-DTS	Soil	11/13/02	11/14/02	11/15/02	02W5244	%Moisture	0.5	6.0	
02-6149-6	SMI-032-DTS	Soil	11/13/02	11/14/02	11/15/02	02W5244	%Moisture	0.5	5.3	
02-6149-7	SMI-033-DTS	Soil	11/13/02	11/14/02	11/15/02	02W5244	%Moisture	0.5	3.0	
02-6149-8	SMI-034-DTS	Soil	11/13/02	11/14/02	11/15/02	02W5244	%Moisture	0.5	3.1	
02-6149-9	SMI-035-DTS	Soil	11/13/02	11/14/02	11/15/02	02W5244	%Moisture	0.5	4.8	
02-6149-10	SMI-036-DTS	Soil	11/13/02	11/14/02	11/15/02	02W5244	%Moisture	0.5	12.1	
02-6149-11	SMI-037-DTS	Soil	11/13/02	11/14/02	11/15/02	02W5244	%Moisture	0.5	4.0	
02-6149-12	SMI-038-DTS	Soil	11/13/02	11/14/02	11/15/02	02W5244	%Moisture	0.5	3.6	
02-6149-13	SMI-039-DTS	Soil	11/13/02	11/14/02	11/15/02	02W5244	%Moisture	0.5	12.6	
02-6149-14	SMI-040-DTS	Soil	11/13/02	11/14/02	11/15/02	02W5244	%Moisture	0.5	7.3	
02-6149-15	SMI-041-BLN	Soil	11/14/02	11/14/02	11/15/02	02W5244	%Moisture	0.5	61.9	
02-6149-16	SMI-042-BLN	Soil	11/14/02	11/14/02	11/15/02	02W5244	%Moisture	0.5	61.9	

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

012416

Wet Chemistry QC Report B
Duplicate Results

Matrix: Soil

APCL Service ID: 02-6149

Analysis	Batch ID	Analysis Date	Sample Name	Unit	Result	Duplicate Result	RPD %	RPD Control limit
Moisture	02W5244	11/15/2002	SMI-027-BSS	% moisture	3.42	3.50	2	20

Note: N/A = Not applicable; NR: Not requested; NC= Not Calculated; ND: Not detected.

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Moisture (ASTM D2216) Worksheet

Batch # 02W5244 SOP: G-86
Date 11/15/02 Analyst SXL

Batch # 02W5246 SOP: G-86
Date 11/15/02 Analyst SXL

	Sample ID	Container Weight W_0, g	Before Drying W_1, g	After Drying W_2, g	Moisture $\frac{W_1-W_2}{W_1-W_0}\times100\%$		Sample ID	Container Weight W_0, g	Before Drying W_1, g	After Drying W_2, g	Moisture $\frac{W_1-W_2}{W_1-W_0}\times100\%$
231 Smpl-1	6149-1	21.53	49.62	48.09	3.42	29 Smpl-1	5900-1	21.14	42.38	40.45	9.09
OC Smpl-2	-2	21.37	47.33	46.30	3.97	B21 Smpl-2	-2	23.56	44.01	40.35	17.90
N45 Smpl-3	-3	22.38	40.47	39.43	5.75	WW 17 Smpl-3	-3	22.17	43.70	40.93	12.87
E Smpl-4	-4	23.64	48.55	47.19	5.46	WW 23 Smpl-4	-4	23.37	42.96	39.48	17.67
H60 Smpl-5	-5	22.96	40.76	39.70	5.96	B23 Smpl-5	-5	22.52	40.88	37.22	19.94
BK Smpl-6	-6	22.40	39.14	38.26	5.26	H19 Smpl-6	-6	22.47	39.38	36.17	18.98
70 Smpl-7	-7	22.65	47.84	47.08	3.02	W Smpl-7	-7	23.28	42.82	40.31	12.85
76 Smpl-8	-8	22.86	42.40	41.80	3.07	H4	-8	23.04	46.87	42.74	17.33
X Smpl-9	-9	23.65	42.22	41.33	4.79	46 Smpl-9	-9	21.46	43.22	40.08	14.43
W2 Smpl-10	-10	23.33	40.77	38.66	12.10	HK 10 Smpl-10	-10	23.35	43.96	40.94	14.65
XFL Smpl-11	-11	22.75	46.28	45.33	4.04	FC Smpl-11	6152-1	22.49	48.27	46.18	8.10
M Smpl-12	-12	23.51	44.62	43.87	3.55	H41 Smpl-12	-2	22.42	46.76	45.78	4.03
N1 Smpl-13	-13	22.59	41.80	39.38	12.60	H Smpl-13	-3	23.25	49.82	47.74	7.83
Q Smpl-14	-14	21.10	41.53	40.03	7.34	H35 Smpl-14	-4	22.73	46.18	45.17	4.31
80 Smpl-15	-15	22.02	34.27	26.69	61.93	S1 Smpl-15	-5	24.15	55.22	53.15	6.66
WW 12 Smpl-16	-16	22.36	31.94	26.01	61.90	LL A Smpl-16	-6	21.76	44.42	43.23	5.25
910 Smpl-17	6172-1	20.44	42.45	41.33	5.09	D Smpl-17	-7	21.40	47.33	45.99	5.17
28 Smpl-18	-4	22.79	48.04	47.04	3.96	AA4 Smpl-18	-8	21.85	43.67	42.77	4.13
WW4	-6	23.43	47.26	46.18	4.53	M Smpl-19	6172-2	23.52	49.00	48.08	3.61
45	-9	23.32	43.00	41.53	7.47	N Smpl-20	-3	22.59	42.40	41.64	3.84
	6149-1	22.56	52.28	51.24	3.50	MD	5900-1	21.10	42.34	40.41	9.09

Remarks/Anomaly:

012417

Calibration Worksheet

Weight Set S/N: 12006

Calib. Date	Lab Balance: Balance #	1 g ±0.05g	10 g ±0.1g	200 g ±0.5g	Note (C)	Digital Balance: Balance #	1 g ±0.02g	10 g ±0.05g	200 g ±0.10g	Note (D) (C) (AR)	Analytical Balance: Balance #	1 g ±0.0002g	10 g ±0.0005g	200 g ±0.0010g	Note (D) (C) (AR)	Calib. by
11/12/2	A-01	not in use			✓	B-01	1.00	10.00	200.00	✓ ✓ ✓	C-01	1.0000	10.0001	200.0003	✓ ✓ ✓	½
	A-02					B-5	1.00	10.00	199.97	✓ ✓ ✓	C-02	1.0000	10.0004	200.0007	✓ ✓ ✓	
	A-03	1.00	10.0	200.0	✓	B-6	1.00	10.00	200.01	✓ ✓ ✓	C-					
	A-04					B-7	1.00	10.02	200.00	✓ ✓ ✓	C-					
	A-					B-					C-					
	A-					B-					C-					
		11/12/02					11/12/02					11/12/02				
11/13/2	A-01	not in use			✓	B-01	1.00	10.00	200.01	✓ ✓ ✓	C-01	1.0000	10.0002	200.0004	✓ ✓ ✓	½
	A-02					B-5	1.00	10.00	200.00	✓ ✓ ✓	C-02	1.0000	10.0004	200.0007	✓ ✓ ✓	
	A-03	1.00	10.0	200.0	✓	B-6	1.00	10.01	200.03	✓ ✓ ✓	C-					
	A-04					B-7	1.00	9.99	200.00	✓ ✓ ✓	C-					
	A-					B-					C-					
	A-					B-					C-					
		11/13/02					11/13/02					11/13/02				
11/14/02	A-01	not in use			✓	B-01	1.00	10.00	200.01	✓ ✓ ✓	C-01	1.0000	10.0001	200.0004	✓ ✓ ✓	½
	A-02					B-5	1.00	10.00	200.00	✓ ✓ ✓	C-02	1.0002	10.0005	200.0007	✓ ✓ ✓	
	A-03	1.00	10.0	200.0	✓	B-6	1.00	10.01	200.03	✓ ✓ ✓	C-					
	A-04					B-7	1.00	9.99	200.00	✓ ✓ ✓	C-					
	A-					B-					C-					
	A-					B-					C-					
		11/14/02					11/14/02					11/14/02				
11/15/02	A-01	not in use			✓	B-01	1.00	10.00	200.01	✓ ✓ ✓	C-01	1.0000	10.0001	200.0003	✓ ✓ ✓	½
	A-02					B-5	1.00	10.00	199.99	✓ ✓ ✓	C-02	1.0002	10.0005	200.0007	✓ ✓ ✓	
	A-03	1.00	10.0	200.0	✓	B-6	1.00	10.01	200.02	✓ ✓ ✓	C-					
	A-04					B-7	1.00	10.00	200.00	✓ ✓ ✓	C-					
	A-					B-					C-					
	A-					B-					C-					
		11/15/02					11/15/02					11/15/02				

Notation: (C) – Cleanliness; (D) – Display; (AR) – Auto Rezeroing.

Appendix D
Checklist for Ecological Assessment/Sampling

CHECKLIST FOR ECOLOGICAL ASSESSMENT/SAMPLING

Introduction

The checklist that follows provides guidance in making observations for an ecological assessment. It is not intended for limited or emergency response actions (e.g., removal of a few drums) or for purely industrial settings with no discharges. The checklist is a screening tool for preliminary site evaluation and may also be useful in planning more extensive site investigations. It must be completed as thoroughly as time allows. The results of the checklist will serve as a starting point for the collection of appropriate biological data to be used in developing a response action. It is recognized that certain questions in this checklist are not universally applicable and that site-specific conditions will influence interpretation. Therefore, a site synopsis is requested to facilitate final review of the checklist by a trained ecologist.

Checklist

The checklist has been divided into sections that correspond to data collection methods and ecosystem types. These sections are:

I. Site Description

    IA. Summary of Observations and Site Setting

II. Terrestrial Habitat Checklist

    IIA. Wooded
    IIB. Shrub/Scrub
    IIC. Open Field
    IID. Miscellaneous

III. Aquatic Habitat ChecklistXNon-Flowing Systems

IV. Aquatic Habitat ChecklistXFlowing Systems

V. Wetlands Habitat Checklist

CHECKLIST FOR ECOLOGICAL ASSESSMENT/SAMPLING

I. SITE DESCRIPTION

1. Site Name: **San Miguel ATON**

   Location: **San Miguel Island, Channel Islands**

   County: **Santa Barbara** City: **NA** State: California

2. Latitude: **N 34 01.305** Longitude : **W 120 21.980**

3. What is the approximate area of the site? **Approximately 32 acres.**

4. Is this the first site visit? Γ yes [x] no If no, attach trip report of previous site visit(s), if available.

   Date(s) of previous site visit(s): **April 10, 2001, see CDM, 2001, *Technical Memorandum, Report on Field Investigations at San Clemente, San Miguel, Santa Barbara, Santa Catalina, and Santa Rosa Islands Aids to Navigation (ATON) Sites***

5. Please attach to the checklist USGS topographic map(s) of the site, if available.

6. Are aerial or other site photographs available? [x] yes Γ no If yes, please attach any available photo(s) to the site map at the conclusion of this section. (See previous trip report)

7. The land use on the site is:

   _____ % Urban

   100 % Rural

   _____ % Residential

   _____ % Industrial (Γ light Γ heavy)

   The area surrounding the site is:
   (9000 square acres, island)

   _____ % Urban

   100 % Rural

   _____ % Residential

   _____ % Industrial (Γ light Γ heavy)

_____ % Agricultural	_____ % Agricultural
(*Crops:* _____)	(*Crops:* _____)
100 % Recreational	**100% Recreational**
(*Describe; note if it is a park, etc.*)	(*Describe; note if it is a park, etc.*)
part of Channel Islands National Park	**part of Channel Islands National Park**
_____	_____
_____ % Undisturbed	_____ % Undisturbed
100 % Other	100 % Other

Island vegetation was historically disturbed by grazing sheep and burros. The sheep and burros were removed in the 1960s and 1970s. The vegetation is becoming restored, but there are large areas of introduced annual grasses (i.e., on the alluvial fan below the ATON site) that were not there historically. The native vegetation was historically made up of perennial bunchgrasses (per park ranger) .

8. Has any movement of soil taken place at the site? x yes Γ no If yes, please identify the most likely cause of this disturbance:

_____ Agricultural Use	_____ Heavy Equipment	_____ Mining
_____ Natural Events	**X Erosion**	_____ Other

Please describe: **Soil movement has likely occurred at the site due to surface water runoff and soil transport down the slope, and due to windblown conditions. Prevailing winds are from the west. During this site visit winds were out of the west at approximately 33 knots. Movement of soil is dependent on location. The site evaluated covers a large area, ranging from the top of a cliff, approximately 400 feet down a slope, then approximately ½ mile through an alluvial fan, where any site drainage would make its way to the beach (photo 1). Some areas are more protected from wind than others. In fact, the park ranger pointed out an area of windblown soil in a ravine to the east of the site, where stratigraphy is apparent. The park ranger estimated that the top one meter was likely deposited in the last 100 years.**

9. Do any potentially sensitive environmental areas exist adjacent to or in proximity to the site, e.g., federal and state parks, national and state monuments, wetlands, prairie potholes?

Remember, flood plains and wetlands are not always obvious; do not answer Ano= without confirming information. **Yes, San Miguel Island is part of the Channel Islands National Park. In addition, the beach area downslope of the site supports a sea bird rookery and a sea mammal nursery during the spring/early summer breeding season.**

Please provide the source(s) of information used to identify these sensitive areas, and indicate their general location on the site map. **Site-specific observations were completed to identify sensitive areas. Map to appropriate scale not available, see photos.**

10. What type of facility is located at the site?

Γ Chemical Γ Manufacturing Γ Mixing Γ Waste Disposal

X Other (specify) **Historic battery-operated aid to navigation (ATON)**

11. What are the suspected contaminants of concern at the site? If known, what are the maximum concentration levels? **Metals, specifically antimony, arsenic, cadmium, copper, lead, mercury, nickel, selenium, and zinc.**

12. Check any potential routes of off-site migration of contaminants observed at the site:

Γ Swales Γ Depressions X Drainage Ditches

X Runoff X Windblown Particulates Γ Vehicular Traffic

Γ Other (specify)

13. If known, what is the approximate depth to the water table? **Unknown**

14. Is the direction of surface runoff apparent from site observations? X yes Γ no If yes, to which of the following does the surface runoff discharge? Indicate all that apply.

x **Surface Water (ocean)** Γ Groundwater Γ Sewer Γ Collection impoundment

15. Is there a navigable waterbody or tributary to a navigable waterbody? X yes Γ no

16. Is there a waterbody anywhere on or in the vicinity of the site? If yes, also complete Section III: Aquatic Habitat ChecklistXNon-Flowing Systems and/or Section IV: Aquatic Habitat ChecklistX Flowing Systems.

Γ yes (approx. distance **3/4 mile from eyebolt, Pacific Ocean [photo 2])** Γ no

17. Is there evidence of flooding? Γ yes **X** no *Wetlands and flood plains are not always obvious; do not answer Ano≅ without confirming information.* If yes, complete Section V: Wetland Habitat Checklist **(except in the flood pond area just inland from the beach. Approximately ¾ mile from eyebolt.)**

18. If a field guide was used to aid any of the identifications, please provide a reference. Also, estimate the time spent identifying flora and fauna. [Use a blank sheet if additional space is needed for text.] **Six hours spent on site on November 13, 2002.**

- **Hickman, J.C. (ed). 1993. The Jepson Manual. Higher Plants of California. University of California Press, Berkeley.**
- **Munz, P.A. 1974. A Flora of Southern California. University of California Press, Berkeley.**
- **National Geographic Society 2000. Field Guide to the Birds of North America. Third Edition. National Geographic, Washington DC.**

19. Are any threatened and/or endangered species (plant or animal) known to inhabit the area of the site?
X yes Γ no *If yes, you are required to verify this information with the U.S. Fish and Wildlife Service.*
If species= identities are known, please list them next.

Island fox (*Urocyon littoralis*)
Island Paintbrush (*Castilleja hololeuca*)

20. Record weather conditions at the time this checklist was prepared:

Date: **November 13, 2002**

50°F Temperature (°C/°F) **50 to 55°F** Normal Daily High Temperature

35 mph Wind **fog early morning and late afternoon** - Precipitation (Rain, Snow)

sunny Cloud Cover

IA. SUMMARY OF OBSERVATIONS AND SITE SETTING

In a meeting with the field team, the site area was determined to extend from the drainage where background samples were collected, east to the large drainage southeast of the eyebolt, and from the eyebolt down the slope to the south, onto the alluvial fan, and southeast where the drainage leads to the beach, where standing water was seen during both site visits.

At the top of the slope (370 feet elevation), where the eyebolt is located, vegetation is very low, from wind stress, (approximately 6 to 12 inches tall), (photos 3 and 4). Representative plants (i.e., in November), include woody species such as goldenbush, Island milk vetch (locoweed)(photo 5), and red buckwheat (photo 6), and prostrate species such as sea fig (photo 7). The percent cover in this area varies, depending on location. Where shrubby vegetation is rooted, there are areas of 90 percent cover (photo 8). In the rocky and steeper areas, just to the south of the eyebolt, it is mostly exposed rock, with vegetation in shallow depressions, or leeward of larger plants, in areas that are somewhat protected from the wind (photo 9).

There are three primary plant communities in the site area, depending on location. The area at the top of the slope, and on the slope leading down to the alluvial fan is coastal sage scrub, with intermixed grassy areas. While species composition is similar, differences in morphological appearance and plant density occur, depending on the amount of wind stress. For example, at the top of the slope, vegetation is short (i.e., 6 to 12 inches), and windblown (photo 10). Descending down the slope, however, winds are not as severe, and the same species are more robust (photo 11). In fact, during the November 2002 site visit, some of the plants lower on the slope are still flowering, whereas those at the top are mostly dormant. Species seen flowering lower on the slope include cliff aster (photo 12), buckwheat (photo 13), coyote bush (photo 14), island paintbrush (photo 15), morning glory (photo 16), sea fig, and goldenbush.

At the base of the slope, an alluvial fan spreads out toward the south. This area is primarily dominated by annual grass species (photo 17). Sand dunes to the south force any drainage that enters this alluvial fan to move to the southeast, towards the flood pond, just upgradient of the beach. Species other than grasses observed in this area include yarrow, horehound, *Mesembryanthemum nodiflorum, M. crystallinum,* wild cucumber (photo 18), and morning glory. Interspersed woody plants are the same as those observed higher on the slope.

Near the beach, at the bottom of the drainage, where the standing water occurs (an area approximately 30 ft by 120 ft), halophytic (salt tolerant) vegetation (i.e., saltgrass, alkalai heath) was observed (photo 19). Elephant seals were observed on the beach in this area during the November 2002 survey (photo 20). During the April 2001 survey, breeding seals with young were observed on these beaches. According to the park ranger, the seals feed only at sea, and fast when they are on the beaches.

Several bird species have been observed near the site by the park ranger, and many were observed during the November 2002 site survey. Those observed during the site survey are marked by (*).
Common raven * (*Corvus corax*) (photo 21)
Burrowing owl * (*Athene culicularia*)
Kestrel (*Falco sparvarius*)
Red-tailed hawk (*Buteo jamaicensis*)

Northern harrier (*Circus cyaneus*)
Western meadowlark (*Sturnella neglecta*)
Horned lark (*Eremophila alpestris*)
Song sparrow (*Melospiza melodia*)
Say' phoebe * (*Sayornis saya*)
Peregrine falcon * (*Falco peregrinus*)
Plover

Native snails (*Helmintheglypta ayres*) were seen throughout site on soils (photo 22). These invertebrates are consumed by birds, foxes, and mice. Evidence of small rodents (likely *Peromyscus maniculatus*, per park ranger) was seen in seed caches (also photo 22), as well as runways and burrows (photo 23).

Completed By **Brenda Beatty** Affiliation **CDM, Denver**

Additional Preparers **NA**

Site Manager : **Randy Smith, CDM, Walnut Creek**

Date
November 25, 2002

II. TERRESTRIAL HABITAT CHECKLIST

IIA. WOODED

1. Are there any wooded areas at the site? Γ yes X no If no, go to Section IIB: Shrub/Scrub.

2. What percentage or area of the site is wooded? (_____ % _____ acres). Indicate the wooded area on the site map which is attached to a copy of this checklist. Please identify what information was used to determine the wooded area of the site.

3. What is the dominant type of vegetation in the wooded area?
(Circle one: Evergreen / Deciduous / Mixed) Provide a photograph, if available.

   Dominant plant, if known: _____

4. What is the predominant size of the trees at the site? Use diameter at breast height.

   Γ 0B6 in. Γ 6B12 in. Γ > 12 in.

5. Specify type of understory present, if known. Provide a photograph, if available.

IIB. SHRUB/SCRUB

1. Is shrub/scrub vegetation present at the site? X yes Γ no If no, go to Section IIC: Open Field.

2. What percentage of the site is covered by scrub/shrub vegetation? (50 %). Indicate the areas of shrub/scrub on the site map. Please identify what information was used to determine this area. **Site survey used to determine area. No map at appropriate scale available, see photos.**

3. What is the dominant type of shrub/scrub vegetation, if known? Provide a photograph, if available. **Coastal Sage Scrub (photo 24)**

4. What is the approximate average height of the shrub/scrub vegetation?

Γ 0B2 ft Γ 2B5 ft Γ > 5 ft

0 to 2 ft at the top of the slope;

2 to 5 feet on the slope, and wherever shrubs occur on the grassy alluvial fan or in ravines below

5. Based on site observations, how dense is the shrub/scrub vegetation?

Γ Dense X Patchy Γ Sparse

IIC. OPEN FIELD

1. Are there open field areas present at the site? X yes Γ no If yes, please indicate the type below:

Γ Prairie/Plains Γ Savannah Γ Old Field

Γ Other (specify) **Per discussions with Park ranger, grassy areas are secondary growth as area begins to recover following removal of grazing sheep and burrows. Historically, perennial bunchgrasses were prevalent, area is now dominated by annual grasses (photo 25).**

2. What percentage of the site is open field? **(50 %)**. Indicate the open field on the site map. **No map at appropriate scale available, see photos.**

3. What is/are the dominant plant(s)? Provide a photograph, if available.

Mixed annual grasses, Bromes, *Panicum*, etc.

4. What is the approximate average height of the dominant plant? **1 ft**

5. Describe the vegetation cover: X Dense Γ Sparse Γ Patchy

IID. MISCELLANEOUS

1. Are other types of terrestrial habitats present at the site, other than woods, shrub/scrub, and open field?

   X yes Γ no If yes, identify and describe them below.

Flood pond just upgradient of the beach, approximately 30 feet x 120 feet, estuarine. Halophytic vegetation prevalent in this area, primarily salt water, but occasionally receives freshwater during storm runoff. Dominant plant species in this area include saltgrass and alkalai heath (photo 26). Elephant seal carcasses and skeletons observed in ponded area, live seals observed on beach just downgradient of ponded area.

2. Describe the terrestrial miscellaneous habitat(s) and identify these area(s) on the site map.

No map at appropriate scale available, see photos.

3. What observations, if any, were made at the site regarding the presence and/or absence of major vegetation types, invertebrates, fish, amphibians, reptiles, birds, and mammals?

   See notes above in Section IA

4. Review the questions in Section I to determine if any additional habitat checklists should be completed for this site.

III. AQUATIC HABITAT CHECKLISTXNON-FLOWING SYSTEMS

Note: Aquatic systems are often associated with wetland habitats. Please refer to Section V, Wetland Habitat Checklist.

1. What type of open-water, non-flowing system is present at the site?

   Γ X **Natural** (pond, lake) **(photos 27 and 28)**
   Γ Artificially Created (lagoon, reservoir, canal, impoundment)

2. If known, what is the name(s) of the waterbody(ies) on or adjacent to the site?

   Very small, 30 x 120 ft, unnamed

3. If a waterbody is present, what are its known uses (e.g., recreation, navigation, etc.)?

4. What is the approximate size of the waterbody(ies)? **30 x 120 ft.**

5. Is any aquatic vegetation present? Γ X yes Γ no If yes, please identify the type of vegetation present if known.

   Γ X Emergent **(saltgrass, alkalai heath)** Γ Submergent
   Γ Floating

6. If known, what is the depth of the water? **Less than one foot**

7. What is the general composition of the substrate? Check all that apply.

   Γ Bedrock
   Γ Boulder (> 10 in.)
   Γ Cobble (2.5B10 in.)
   Γ Gravel (0.1B2.5 in.)
   Γ Other (specify) _____
   Γ X Sand (coarse)
   Γ Silt (fine)
   Γ Marl (shells)
   Γ Clay (slick)
   Γ Muck (fine/black)
   Γ Debris
   Γ Detritus
   Γ Concrete

8. What is the source of water in the waterbody?

   Γ River/Stream/Creek Γ Groundwater Γ Other (specify) **Potentially ocean water, no measurements taken, may also contain freshwater during occasional storm runoff.**
   Γ Industrial Discharge Γ Surface Runoff

9. Is there a discharge from the site to the waterbody? Γ **yes** Γ no If yes, please describe this discharge and its path.

Yes, during occasional stormwater runoff. Sheetflow down slope, runoff down dry arroyo drainage, onto alluvial fan, and channeled downgradient towards this pond.

10. Is there a discharge from the waterbody? Γyes Γno If yes, and the information is available, identify from the list below the environment into which the waterbody discharges.

Γ River/Stream/Creek	Γ Onsite	Γ Offsite	Distance _____
Γ Groundwater	Γ Onsite	Γ Offsite	
Γ Wetland	Γ Onsite	Γ Offsite	Distance _____
Γ Impoundment	Γ Onsite	Γ Offsite	

It is likely that water could discharge from the pond to the Pacific Ocean during storm or other high water events. The pond is approximately 60 feet from the ocean (photo 28)

11. Identify any field measurements and observations of water quality that were made. For those parameters for which data were collected provide the measurements and the units of measure below: **No measurements were made.**

_____ Area
_____ Depth (average)
_____ Temperature (depth of the water at which the reading was taken)
_____ pH
_____ Dissolved oxygen
_____ Salinity
_____ Turbidity (clear, slightly turbid, turbid, opaque)
(Secchi disk depth _____)
_____ Other (specify) _____

12. Describe observed color and area of coloration (surface water).

Surface water in the pond was clear

13. Mark the open-water, non-flowing system on the site map attached to this checklist.

No map at appropriate scale available, see photos.

14. What observations, if any, were made at the waterbody regarding the presence and/or absence of benthic macroinvertebrates, fish, birds, mammals, etc.?

Skeletons and carcasses of dead seals occurred in this area. A Jerusalem cricket was seen (photo 29).

IV. AQUATIC HABITAT CHECKLISTXFLOWING SYSTEMS

Note: Aquatic systems are often associated with wetland habitats. Please refer to Section V, Wetland Habitat Checklist.

1. What type(s) of flowing water system(s) is (are) present at the site?

Γ River Γ Stream Γ Creek
Γ Dry wash Γ Arroyo Γ Brook
Γ Artificially Created (ditch, etc.) Γ Intermittent Stream Γ Channeling
Γ Other (specify) **Erosional channel leading down the 60 degree slope from the top of the cliff down to the alluvial fan, and eventually to the standing pond (photo 30)**

2. If known, what is the name of the waterbody? **Unnamed**

3. For natural systems, are there any indicators of physical alteration (e.g., channeling, debris, etc.)?

Γ yes **no** If yes, please describe indicators that were observed.

4. What is the general composition of the substrate? Check all that apply.

Γ **Bedrock** Γ Sand (coarse) Γ Muck (fine/black)
Γ Boulder (> 10 in.) Γ Silt (fine) Γ Debris
Γ Cobble (2.5B10 in.) Γ Marl (shells) Γ Detritus
Γ Gravel (0.1B2.5 in.) Γ Clay (slick) Γ Concrete
Γ Other (specify) _____

5. What is the condition of the bank (e.g., height, slope, extent of vegetative cover)?

Within the drainage itself, which travels down a 60 degree slope for about 300 feet, there is exposed rock and depositional area of sandy soil where the topography changes. Scattered vegetation is present within, on the sides, and on top of the drainage.

6. Is the system influenced by tides? Γ yes Γ **no** What information was used to make this determination? **Site-Specific observations**

7. Is the flow intermittent? Γ **yes** Γ no If yes, please note the information that was used in making this determination. **Site specific observations**

8. Is there a discharge from the site to the waterbody? Γ **yes** Γ no If yes, please describe the discharge and its path. **See number 1, above.**

9. Is there a discharge from the waterbody? Γ yes Γ no If yes, and the information is available, please identify what the waterbody discharges to and whether the discharge is on-site or off-site. **As discussed above, there could be discharges to the offsite Pacific Ocean during storm flows or other high water events.**

10. Identify any field measurements and observations of water quality that were made. For those parameters for which data were collected, provide the measurement and the units of measure in the appropriate space below: **No measurements made.**

_____ Width (ft.)
_____ Depth (ft.)
_____ Velocity (specify units): _____
_____ Temperature (depth of the water at which the reading was taken)
_____ pH
_____ Dissolved oxygen
_____ Salinity
_____ Turbidity (clear, slightly turbid, turbid, opaque)
(Secchi disk depth _____)
_____ Other (specify) _____

11. Describe observed color and area of coloration of the surface water. **No water observed in drainage.**

12. Is any aquatic vegetation present? Γ yes Γ **no** If yes, please identify the type of vegetation present, if known.

Γ Emergent Γ Submergent Γ Floating

13. Mark the flowing water system on the attached site map. **No map at appropriate scale available, see photos.**

14. What observations were made at the waterbody regarding the presence and/or absence of benthic macroinvertebrates, fish, birds, mammals, etc.?

none present

V. WETLAND HABITAT CHECKLIST

1. Based on observations and/or available information, are designated or known (circle one) wetlands definitely present at the site?

   Γ **yes** Γ no

   Please note the sources of observations and information used (e.g., USGS topographic maps, national wetland inventory, federal or state agency, etc.) to make this determination.

Site-specific survey

2. Based on the location of the site (e.g., along a waterbody, in a flood plain) and site conditions (e.g., standing water; dark, wet soils; mud cracks; debris line; water marks), are wetland habitats suspected?

   Γ **yes** Γ no If yes, proceed with the remainder of the wetland habitat identification checklist.

3. What type(s) of vegetation are present in the wetland?

   Γ Submergent Γ Emergent
   Γ Shrub/Scrub Γ Wooded
   Γ Other (specify) **saltgrass and alkalai heath**

4. Provide a general description of the vegetation present in and around the wetland (height, color, etc.). Provide a photograph of the known or suspected wetlands, if available.

At the bottom reach of the alluvial fan, as it approaches the standing pond, the ground becomes rolling and hummocky, dominated by saltgrass (*Distichlis spicata*)

5. Is standing water present? Γ **yes** Γ no If yes, is this water: Γ Fresh Γ **Brackish**

   What is the approximate area of the water (sq. ft.)?
   30 x 120 feet (360 sq ft)
   Please complete questions 4, 11, 12 in Checklist III, Aquatic HabitatXNon-Flowing Systems.

6. Is there evidence of flooding at the site? Γ yes **Γ no** What observations were noted?

Γ Buttressing
Γ Debris Line
Γ Water Marks
Γ Other (describe below)
Γ Mud Cracks

7. If known, what is the source of the water in the wetland? **Likely a combination of groundwater and surface runoff.**

Γ Stream/River/Creek/Lake/Pond
Γ Flooding
Γ Groundwater
Γ Surface Runoff

8. Is there a discharge from the site to a known or suspected wetland? **Γ yes** Γ no If yes, please describe. **See Section III, number 9.**

9. Is there a discharge from the wetland? Γ yes Γ no If yes, to what waterbody is discharge released?

Γ Surface stream/River
Γ Groundwater
Γ Lake/Pond
Γ Marine

See Section III, number 10.

10. If a soil sample was collected, describe the appearance of the soil in the wetland area. Circle or write in the best response.

Color (blue/gray, brown, black, mottled) _____
Water content (dry, wet, saturated/unsaturated) _____

No soil sample collected in the wetland

11. Mark the observed wetland area(s) on the attached site map.

No map at appropriate scale available, see photos.

Photo 1. Looking down the slope to the beach, large drainage on left, southeast of eyebolt

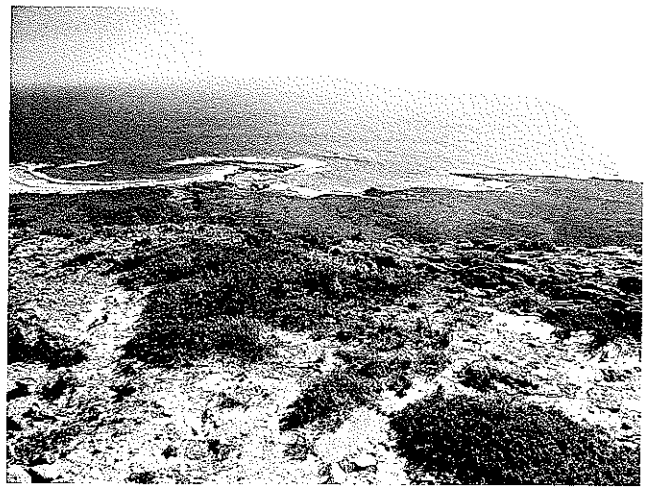

Photo 4 Edge of cliff, 50 ft south of eyebolt, looking down towards the beach

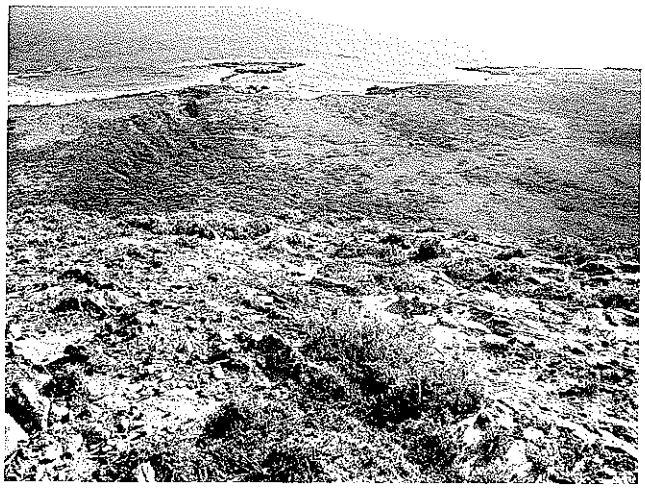

Photo 2. Edge of cliff, about 60 ft. south of the eyebolt.

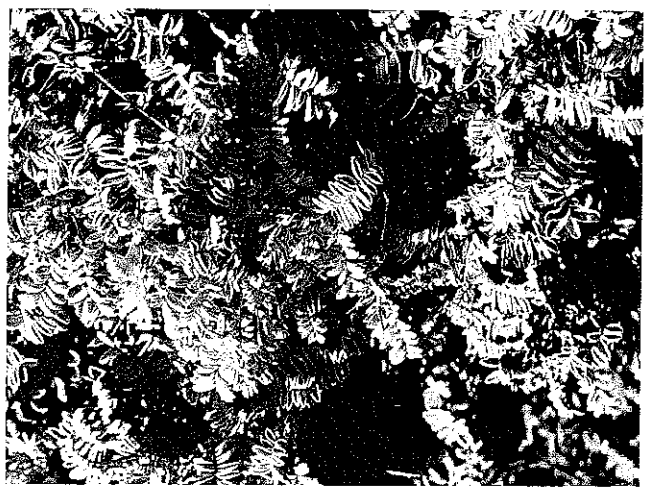

Photo 5 San Miguel Island Locoweed

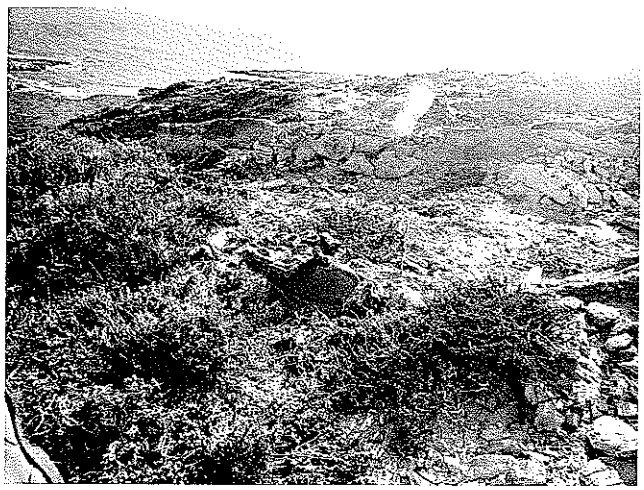

Photo 3 Habitat in the vicinity of the eyebolt, showing wind-exposed rocky soil and wind-stunted vegetation.

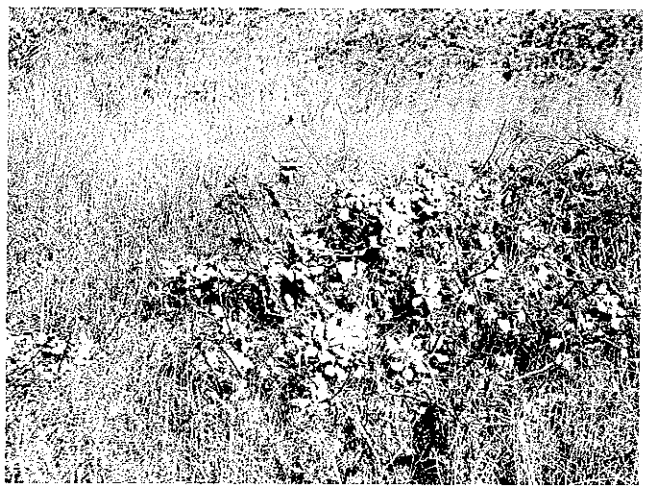

Photo 6 Buckwheat

Photo 7. Sea fig

Photo 10. Top of slope, wood debris observed in this area

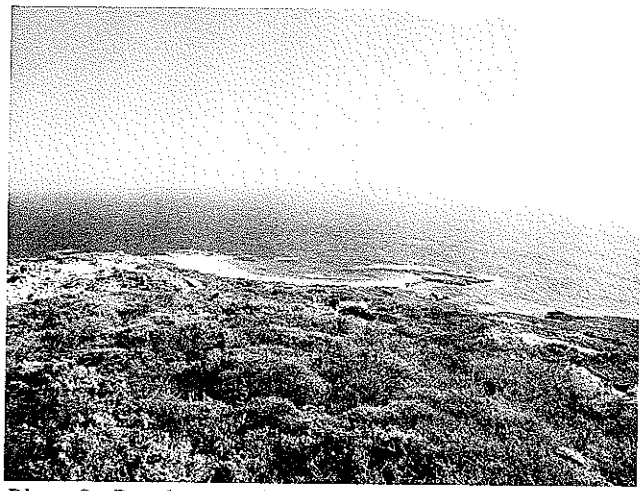

Photo 8. Beach area where drainage empties; elephant seals observed here

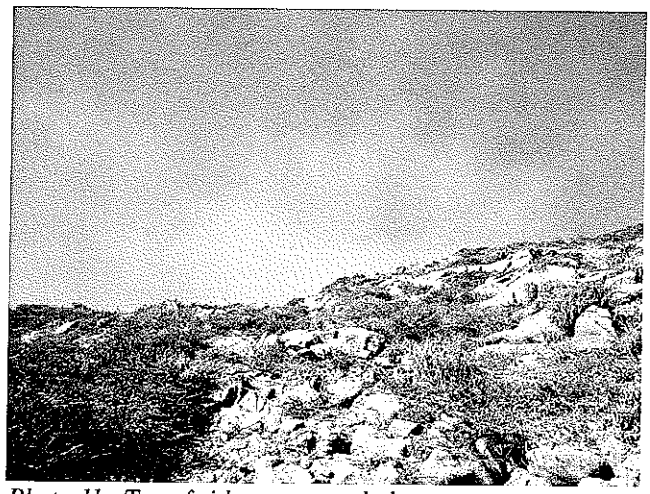

Photo 11. Top of ridge, near eyebolt.

Photo 9. Vegetation on slope

Photo 12. Cliff Aster.

Photo 13 Buckwheat

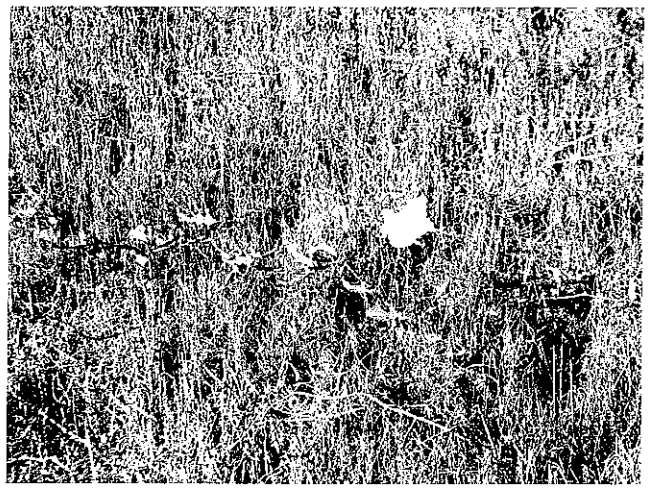

Photo 16 Morning glory.

Photo 14 Coyote bush

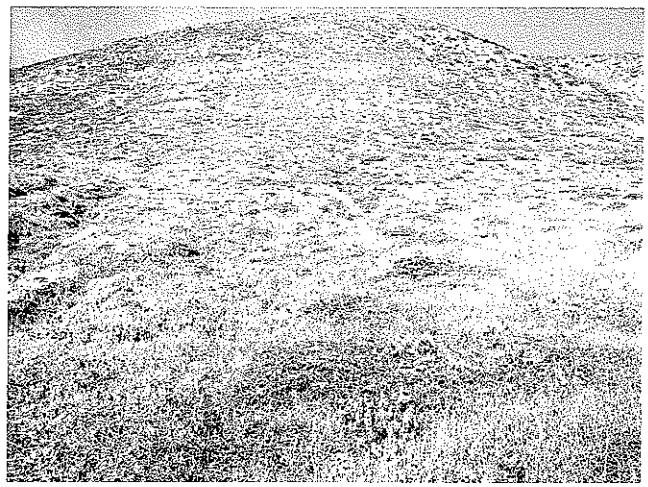

Photo 17 Grasslands on lower alluvial fan, intergrading back into coastal sage scrub on the slope

Photo 15 Island paintbrush.

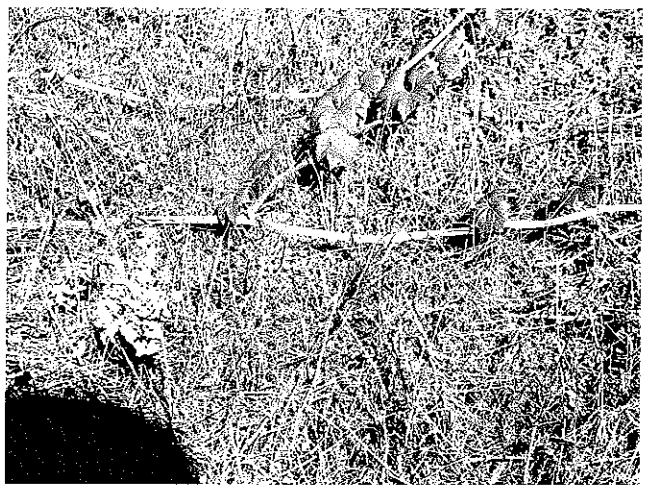

Photo 18 Wild cucumber.

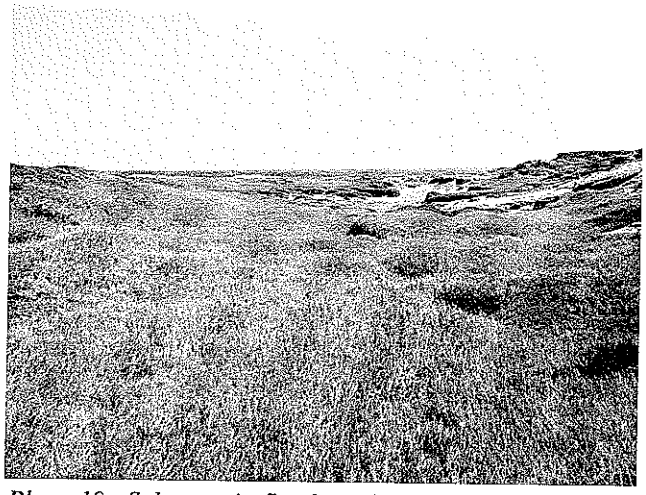

Photo 19 Saltgrass in flood pond area near beach.

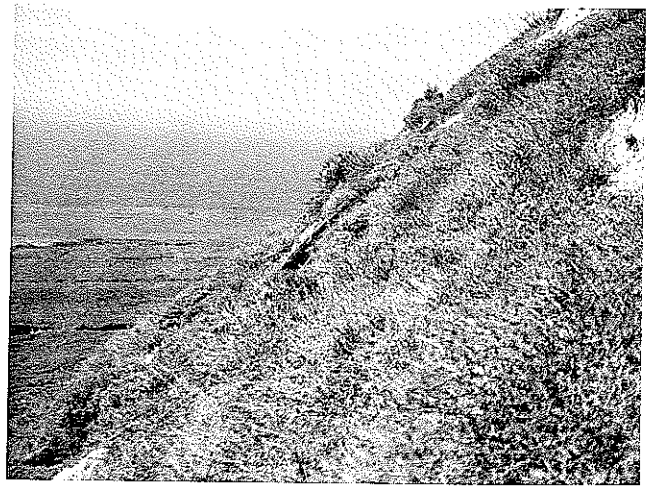

Photo 22 Wood, possibly from ATON platform, shows steepness of slope.

Photo 20 Seals on beach below flood pond.

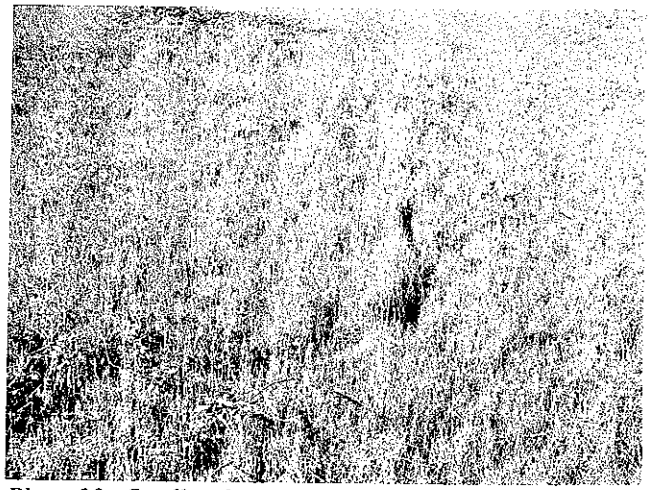

Photo 23 Small rodent trail through grass.

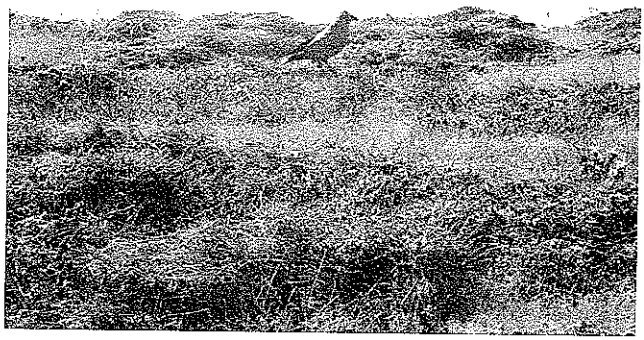

Photo 21. Common raven

Photo 24. Coastal sage plant.

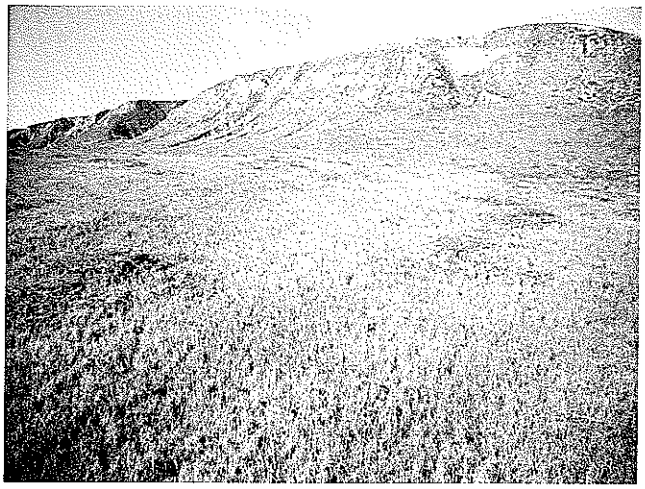

Photo 25. Grassy area on lower slope, below coastal sage scrub.

Photo 28. Flood pond near beach.

Photo 26. Saltgrass in flood pond area near beach.

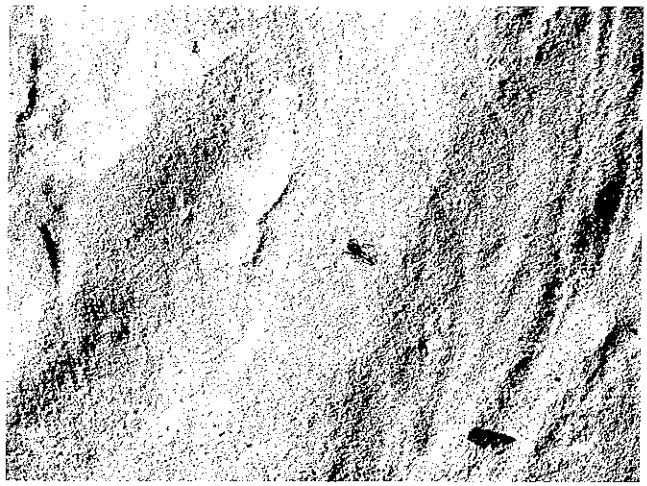

Photo 29. Jerusalem cricket.

Photo 27. Flood pond near beach.

Photo 30. Lower part of drainage.