CENTRAL REGIONAL LABORATORY

Data Checklist

Data Set AIR 20020009 Cheshire Monitoring
Suspended Particle

- ☑ Chain-of-Custody
- ☑ Analysis Request Form(s)*
- ☐ Sample Tags
- ☑ Transmittal Report w/signatures of the following:
  - Analyst (s)
  - Data Management Coordinator

* Analysis Request Forms provide the data user a means to connect sample numbers with sampling locations

Prepared by: Sylvia Griffin 11-27-01
Data Management Coordinator

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: NOV 27 2001

Subject: Review of Region 5 Data for **CHESHIRE MONITORING STUDY**

From: **Francis A. Awanya, Chemist**
Region 5 Central Regional Laboratory

To:

Attached are the results for: **CHESHIRE MONITORING STUDY**

CRL data set number: **20020009**

Samples analyzed for: **Suspended Particles**

Results are reported for sample designations: **2002AH15S01, 2002AH15D01, 2002AH15S02, and 2002AH15S03.**

NOV 27 2001

Data Management Coordinator and Date Received

Date Transmitted: NOV 27 2001

Please have the U.S. EPA Project Manager/Officer complete the Customer Satisfaction Survey, attached, or call the CRL Sample Coordinator at 3-1226.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML-10C

/ /

Received by and Date

Comments:

Rev. 7/23/01

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
77 West Jackson Boulevard
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME
02AH15	Cheshire Monitoring Study

Activity Code: 12345

SAMPLERS: *(Print Name and Sign)*
Mike Murphy Mike Murphy Mike Murphy

AIR 20020009

STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	Analyte						TAG NUMBERS
DO1	10/16	00:00	X		GUIDING HANDS SCHOOL	1							5-340083 1 to 1
SO1	10/16	00:00	X		GUIDING HANDS SCHOOL	1							5-340082 1 to 1
SO2	10/16	00:00	X		RVHS	2							5-340084 1 to 2
SO3	10/16	00:00	X		ADDAVILLE	2							5-340085 1 to 2
													Guiding Hands school
													serial # 3012. Psig Avg = 19.95
													serial # 3013, Psig Avg = 19.4
													RVHS
													Serial # 3009, Psig Avg = 20.2
													Addaville
													Serial # 3011, Psig Avg = 19.35

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Ship To:
Mike Murphy	10-18-02 10:18	[illegible]	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	ATTN:
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) [illegible]	Date / Time 10/26/02 17:16

Airbill Number
UPS # 1Z401199 01405 1017

Chain of Custody Seal Numbers

5-140020

ENVIRONMENTAL PROTECTION AGENCY
REGION V
CENTRAL REGIONAL LABORATORY
FINAL RESULT REPORT FOR THE TEAM: ANALYTICAL AND INORGANIC (A&I)

DIVISION/BRANCH: AIR DIVISION **SAMPLING DATE:** 10/16/2001 **LAB ARRIVAL DATE:** 10/26/2001 **DUE DATE:** 11/16/2001
DU NUMBER: 90101A **DATA SET NUMBER:** 20020009 **STUDY:** CHESHIRE MONITORING STUDY **PRIORITY:** 1 **LABORATORY :**CRL

SAMPLE #	CRL LOG NUMBER	SAMPLE DESCRIPTION	SUSPENDED PARTICLE (g/filter)			
1	2002AH15D01	GUIDING HANDS SCHOOL	0.0086			
2	2002AH15S01	GUIDING HANDS SCHOOL	0.0091			
3	2002AH15S02	RVHS	0.0088			
4	2002AH15S03	ADDAVILLE	0.0078			
DATE OF ANALYSIS			11/13-16/2001			
ANALYST			FNA			

Reviewed by: E.S Date: 11/27/01

ATTACHMENT II

CRL Analytical and Inorganics Data Review Checklist

Batch Number: 20020009 Facility: CHESHIRE MONITORING STUDY

Parameter: SUSPENDED PARTICLES CRL.SOP: AIG047

Package Overview:	YES	NO
Raw Data Package Complete?	✓	
Results Reported Correctly?	✓	
Special Requests Done?	N/A	
Calculations Checked?	✓	
Calibration Not Exceeded?	N/A	
Manual Peak Integration performed? Circle one IC or GC and Check	N/A	
Field QC Checked?	N/A	
Quality Control:		
Holding Times Met?	N/A	
Preservation Checked?	N/A	
Proper Digestion Verified?	N/A	
Initial Instrument Performance Checks Verified?	✓	
Calibration Verification Checked?	N/A	
Sample-Specific QC (Internal Standards or Analytical Spikes) Okay?	N/A	
Matrix QC Checked?	N/A	
Digestion Blanks Checked?	N/A	
Spiked Blank Checked?	N/A	
LCS (if applicable) Checked?	N/A	
QCS (if applicable) Checked?	N/A	
Final Check		
Technical Review Done?	✓	
Narrative Complete?	✓	

Analyst: FAA Peer Reviewer: E.S

Date: 11/26/2001 Date: 11/27/01

FAA 11/26/2001 Comments Attached? (Y/N) N

Data Set Number:	*20020009*	**Parameter:**	*Suspended Particles*
Facility Name:	*CHESHIRE MONITORING STUDY*		
Study Name:	*CHESHIRE MONITORING STUDY*		
Date of Narrative:	*11/26/2001*	**Analyst:**	*FAA*
		Signature:	FAA

ANALYSIS CASE NARRATIVE

Four (4) exposed filters were received for suspended particle analysis at the Central Regional Laboratory (CRL) on October 26, 2001. Those filters were fractions of clean filters, prepared at the CRL and sent to the field for exposure. Filter identification numbers and other pertinent information obtained from the individual filters and packaging envelopes are presented in the table below.

Filters ID	Samples ID	Tag Number
Q6280048	2002AH15D01	5-340083-1
Q6280050	2002AH15S01	5-340082-1
Q6280051	2002AH15S02	5-340084-2
Q6280052	2002AH15S03	5-340085-2

Filter equilibrations and final weighting of exposed filters were performed according to CRL.SOP AIG047. Analysis of exposed filters began on 11/13/2001 and was completed on 11/16/2001.

A small tear was observed in exposed filter Q6280048 (CRL sample I.D number 2002AH15D01), and a large tear was observed in exposed filter Q6280051 (CRL sample I.D number 2002AH15S02). It is probable that the small tear in exposed filter Q6280048 did not contribute significantly to the loss of suspended matter when the results are compared to that of Q6280050 (CRL sample I.D number 2002AH15S01). Use both results with caution. Suspended particle results for those samples could be biased low due to loss of particles or filter materials

QUALITY CONTROL (QC):

Analysis results were evaluated using the QC requirements of CRL.SOP AIG047. All the required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits.

SAMPLE RESULTS: All the sample results are acceptable for use.

ELECTRONIC DATA:

No electronic data are available.

CHESHIRE AIR MONITORING PROJECT
PM10

Parameter: Suspended Particles

Data Set Numbers: 20020009, 20020012, and 20020013

Date of Analysis 11/13-16/2001

Analyst: FAA

BALANCE VERIFICATION:

Sandard Weights Actual (g)	Balanced weight Balanced (g)	Differences (g)
		Limit +/-0.0005 g
Data set Number 20020009, 20020012, & 20020013		
1.0000	1.0000	0.0000
2.0000	2.0000	0.0000
5.0000	4.9999	0.0001

QC-SUMMARY FOR EXPOSED FILTERS

Filter ID Number	CRL Sample I.D Number	Weighing Date	ANALYST	Exposed weight (g)
Data set Number 20020009				
Q6280052	2002AH15S03	11/16/01	Analyst 1	4.3474
Q6280052	2002AH15S03	11/16/01	Analyst 2	4.3476
Differences (Limit +/- 5 mg).....				-0.0002
Data set Number 20020012				
Q6280047	2002AH16S03	11/16/01	Analyst 1	4.4342
Q6280047	2002AH16S03	11/16/01	Analyst 2	4.4346
Differences (Limit +/- 5 mg).....				-0.0004
Data set Number 20020013				
Q6280039	2002AH17S01	11/16/01	Analyst 1	4.3935
Q6280039	2002AH17S01	11/16/01	Analyst 2	4.3940
Differences (Limit +/- 5 mg).....				-0.0005

CHESHIRE AIR MONITORING PROJECT
PM10

Filter ID Number	CRL Sample I.D Number	Sampling Date	Station Location	Sampler SN	Pstg Avg	P1/Pa	Total Volume (M^3)	Pre Weight of filters (g)	Exposed weight (g)	Weight Gain	PM10 (UG/M^3)
Data set Number 20020009											
Q6280050	2002AH15S01	10/16/01	Guiding Hands School	3012	19.95		**0.00**	4.3779	4.3870	0.0091	ERR
Q6280048	2002AH15D01	10/16/01	Guiding Hands School	3013	19.40		**0.00**	4.3727	4.3813	0.0086	ERR
G6280051	2002AH15S02	10/16/01	RVHS	3009	20.20		**0.00**	4.3707	4.3795	0.0088	ERR
Q6280052	2002AH15S03	10/16/01	ADDAVILLE	3011	19.35		**0.00**	4.3396	4.3474	0.0078	ERR
Data set Number 20020012											
Q6280043	2002AH16S01	10/22/01	Guiding Hands School	3012	18.75		**0.00**	4.3984	4.4445	0.0461	ERR
Q6280045	2002AH16D01	10/22/01	Guiding Hands School	3013	18.45		**0.00**	4.3746	4.4216	0.0470	ERR
G6280046	2002AH16S02	10/22/01	RVHS	3009	19.10		**0.00**	4.3672	4.3994	0.0322	ERR
Q6280047	2002AH16S03	10/22/01	ADDAVILLE	3011	19.35		**0.00**	4.3918	4.4342	0.0424	ERR
Data set Number 20020013											
Q6280039	2002AH17S01	10/28/01	Guiding Hands School	3012	19.20		**0.00**	4.3713	4.3935	0.0222	ERR
Q6280041	2002AH17D01	10/28/01	Guiding Hands School	3013	19.70		**0.00**	4.3753	4.3973	0.0220	ERR
G6280040	2002AH17S02	10/28/01	RVHS	3009	20.30		**0.00**	4.3934	4.3978	0.0044	ERR
Q6280042	2002AH17S03	10/28/01	ADDAVILLE	3011	19.50		**0.00**	4.3560	4.3751	0.0191	ERR

General information	Standard weights, actual (g)	Balanced weights, balanced (g)
METTLER TOLEDO	0.1000	0.1000
AG285	0.5000	0.5000
S/N 1120181838	2.0000	2.0000
11/16/01 FAA	5.0000	5.0000
SARTORIUS	1.0000 (500+200+200+100mg)	1.0000
S/N 37010119	2.0000	2.0000
11/16/01 FAA	5.0000	4.9999

Filters ID	Tare Wt (g)	Desp. Wt (g)	Exposed Wt (g)	Exposed Desp Wt (g)	Comments
Q6280058	4.3739	~~4.4361~~	~~4.4301~~ Final 10/23/01	~~4.4180~~ Final 10/23/01	4.4128
Q6280057	4.3783	~~4.4400~~	~~4.4301~~	~~4.4232~~	4.4211 E.S. 4.4209
Q6280056	4.3396		4.3606 Final 10/23/01		
Q6280055	4.3613		4.3789		
Q6280054	4.3664		4.3919	4.3914 E.S.	
Q6280053	4.3510		4.3771		
Q6280052	4.3396		4.3474	4.3476 E.S.	
Q6280051	4.3707	4.3709 E.S.	4.3795		large tear
Q6280050	4.3779		4.3870		
Q6280048	4.3727		4.3813		Small tear
Q6280047	4.3918	4.3915 E.S.	4.4342	4.4346 E.S.	
Q6280046	4.3672		4.3994		
Q6280045	4.3746		4.4216		
Q6280043	4.3984		4.4345		
Q6280042	4.3560		4.3751		
Q6280041	4.3753		4.3973		
Q6280040	4.3934		4.3978		
Q6280039	4.3713		4.3935	4.3940 E.S.	
Q6280038	4.3721				
Q6280037	4.3934				
Q6280036	4.3718	4.3712 E.S.			
Q6280035	4.3789				
Q6280034	4.3436				
Q6280033	4.3729				

10/26/01 Final

11/16/2001 Final

BACHARACH
CHART
22-0419
PRINTED IN U.S.A.
SUNDAY
MONDAY
TUESDAY
WEDNESDAY
THURSDAY
FRIDAY
SATURDAY
NIGHT
NOON
TEMP. °F
REL. HUMIDITY %

US EPA Region 5 Field Sample

5-340082-1

Parameters PM10

Preservative None S M MD B D

Sample ID 02AH15S01 X

Sampler Mike Murphy

Date 10-18-02

PM-10 ✓ AIRS [redacted] OPERATOR OEPA DATE 10-16-02

TSP _____ SITE GHS # 3012, ~~Q6280043~~, Q6280050

AVG. RECORDER RESP. 19.75 TEMP _____ °C _____ K FINAL WT _____ g

ELAPSED TIME 1440 MINUTES PRESS _____ mmHg INITIAL WT _____ g

FLOW _____ m^3/min TOTAL FLOW _____ m^3 SAMPLE WT _____ g

STD _____ ACTUAL _____ PM-10 _____ ug/m^3

COMMENTS: _____

EPA 3305 (REVISED 10/91)

US EPA Region 5 Field Sample

5-340083-1

Parameters PM10

Preservative None S M MD B D

Sample ID 02AH15D01 X

Sampler Mike Murphy

Date 10-18-02

PM-10 ✓ AIRS [redacted] OPERATOR OEPA DATE 10-16-02

TSP _____ SITE GHS # 3013, Q6280045 Q6280048

AVG. RECORDER RESP. 19.4 TEMP _____ °C _____ K FINAL WT _____ g

ELAPSED TIME 1440 MINUTES PRESS _____ mmHg INITIAL WT _____ g

FLOW _____ m^3/min TOTAL FLOW _____ m^3 SAMPLE WT _____ g

STD _____ ACTUAL _____ PM-10 _____ ug/m^3

COMMENTS: _____

EPA 3305 (REVISED 10/91)

US EPA Region 5 Field Sample

5-340084-1

Parameters PM10

24H2 UUT9

Preservative None S M MD B D

Sample ID 02AH15S02 X

Sampler Mike Mungle

Date 10-18-02

PM-10 ✓ AIRS [redacted] OPERATOR OEPA DATE 10-16-02

TSP _____ SITE RUHS # 3009, Q629005 1

AVG. RECORDER RESP. 20.2 TEMP ____ °C ____ K FINAL WT ____ g

ELAPSED TIME 1440 MINUTES PRESS ____ mmHg INITIAL WT ____ g

FLOW ____ m^3/min TOTAL FLOW ____ m^3 SAMPLE WT ____ g

STD ____ ACTUAL ____ PM-10 ____ ug/m^3

COMMENTS: _____

EPA 3306 (REVISED 10/91)

EPA 3305 (REVISED 10/91)

COMMENTS:

STD ACTUAL PM-10 ug/m³

FLOW m³/min TOTAL FLOW m³ SAMPLE WT g

ELAPSED TIME 1440 MINUTES PRESS mmHg INITIAL WT g

AVG. RECORDER RESP. 1955 TEMP °C K FINAL WT g

TSP SITE Wadsworth # 3011 0528005 2

PM-10 ✓ AIRS [redacted] OPERATOR CEPA DATE 10-16-02

US EPA Region 5 Field Sample

5-340085-1

Parameters PM10

2002 0009

Preservative None S M MD B D

Sample ID 02AH15SO3 X

Sampler Mike Murphy

Date 10-18-02

CENTRAL REGIONAL LABORATORY

Data Checklist

Data Set AIR 2002 0009 Cheshire Monitoring Study Metals

- [x] Chain-of-Custody
- [x] Analysis Request Form(s)*
- [ ] Sample Tags
- [x] Transmittal Report w/signatures of the following:
  - Analyst (s)
  - Data Management Coordinator

* Analysis Request Forms provide the data user a means to connect sample numbers with sampling locations

Prepared by: Sylvia Griffin 11-15-01
Data Management Coordinator

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: NOV 15 2001

Subject: Review of Region 5 Data for **Cheshire Monitoring Study**

From: **John V. Morris, Chemist**
Region 5 Central Regional Laboratory

To:

Attached are the results for: **Cheshire Monitoring Study**

CRL data set number: **20020009**

Samples analyzed for: **Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Nickel and Selenium**

Results are reported for sample designations: **2002AH15S02 and 2002AH15S03**

NOV 15 2001

Data Management Coordinator and Date Received

Date Transmitted: NOV 15 2001

Please have the U.S. EPA Project Manager/Officer complete the Customer Satisfaction Survey, attached, or call the CRL Sample Coordinator at 3-1226.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML-10C

/ /

Received by and Date

Comments:

Rev. 7/23/01

US EPA CRL - Region V
ICP Final Report Results
Air Filters

Sample Number:	2002AH15S02	Station ID:	RVHS
Sample Batch Number:	20020009	Study:	Cheshire Monitoring Study
Collection Date:	16 Oct 01	Filter SN:	G1006674
Analysis Date:	9 Nov 01		

Element	Concentration		Units
Arsenic	9	U	µg/filter
Barium	95	U	µg/filter
Beryllium	0.6	U	µg/filter
Cadmium	0.6	U	µg/filter
Chromium	3.14	U	µg/filter
Cobalt	1.2	U	µg/filter
Copper	31.1		µg/filter
Iron	268		µg/filter
Lead	6	U	µg/filter
Magnesium	343	U	µg/filter
Manganese	11.3		µg/filter
Nickel	5.73	U	µg/filter
Selenium	18	U	µg/filter

JVM
14 Nov 01

US EPA CRL - Region V
ICP Final Report Results
Air Filters

Sample Number:	2002AH15S03	Station ID:	ADDAVILLE
Sample Batch Number:	20020009	Study:	Cheshire Monitoring Study
Collection Date:	16 Oct 01	Filter SN:	G1006675
Analysis Date:	9 Nov 01		

Element	Concentration		Units
Arsenic	9	U	µg/filter
Barium	95	U	µg/filter
Beryllium	0.6	U	µg/filter
Cadmium	0.6	U	µg/filter
Chromium	3.14	U	µg/filter
Cobalt	1.2	U	µg/filter
Copper	115		µg/filter
Iron	145		µg/filter
Lead	6	U	µg/filter
Magnesium	343	U	µg/filter
Manganese	7.92		µg/filter
Nickel	5.73	U	µg/filter
Selenium	18	U	µg/filter

JVM
14 Nov 01

Date: 14 November 2001
Analyst: John V. Morris
Sample Batch Number: 20020009, 20020012 & 20020013
Facility Name: Cheshire Monitoring Study
Analyte: ICP Metals

Narrative for the Analysis of Metals in Air Filters in Batches 20020009, 20020012 & 20020013

On 26 October 2001, two air filters were received at CRL for analysis for metals. These samples were collected on 16 October 2001. On 6 November 2001, two sets of four air filters were received at CRL for analysis for metals. These samples were collected on 22 October 2001 and 28 October 2001. The sample descriptions are:

Batch ID	Sample ID	Serial No.	Station ID
20020009	2002AH15S02	G1006674	RVHS
	2002AH15S03	G1006675	ADDAVILLE
20020012	2002AH16S01	G1006670	GHS
	2002AH16D01	G1006672	GHS
	2002AH16S02	G1006664	RVHS
	2002AH16S03	G1006662	ADDAVILLE
20020013	2002AH17S01	G1006668	GHS
	2002AH17D01	G1006666	GHS
	2002AH17S02	G1006658	RVHS
	2002AH17S03	G1006660	ADDAVILLE

The analysis was limited to the thirteen metals listed on page 15 of the QAPP. In a telephone conversation, Mike Murphy of OEPA explained that the GHS monitors were affected by a power outage on 16 October.

The samples were prepared on 8 November 2001. Method Metals_006, a hot block adaptation of the beaker digestion given in 40 CFR Part 50, Appendix G, was used for the digestion. The digestion log number was 1328. There are no holding times for the air program.

Only one filter blank was prepared because no examples of the lot currently in use were available. Because we do not have blanks from this lot, the same blank subtraction criteria as for the first several batches were used.. The previous blank data was used for blank subtraction, only applying blank subtraction to the elements barium, chromium, iron, magnesium and nickel. All other elements reported had filter blank results well below the detection limits of the respective

Date: 14 November 2001
Analyst: John V. Morris
Sample Batch Number: 20020009, 20020012 & 20020013
Facility Name: Cheshire Monitoring Study
Analyte: ICP Metals

analytes. For the five above named elements, the average filter blank from the measurements performed alongside earlier batches from this study and data collected on filter blanks prior to the begin of field collection, was subtracted from the measured results. This was done as described in section 11.2 of the CRL SOP Metals_006 to remove the contribution to the result from the glass fiber filter itself. The reporting limits used for those five elements were derived from ten times the standard deviation of the data used to arrive at the average blank.

The analysis was performed on 9 November 2001 using method Metals_003, using the Perkin-Elmer 3300DV ICP. The yttrium internal standard tubing came apart twice during the run. The analysis was restarted from the last analysis with valid intensity readings for yttrium. The second time this happened, the yttrium intensities stabilized at a somewhat lower value. This probably contributed to an elevation of the calculated concentrations for a number of analytes.

For the thirteen metals reported for this study, all instrument check standards (LCM1, LCM2, Hi AQC) were in control, with the exception of the last two LCM1 results for selenium. These were just high (111.7% and 110.2%), so only the two values above reporting limit (2002AH17S01 and 2002AH17D01) were flagged with a "J" for possible high bias. The blanks showed a few out-of-control audits, but most were not of any consequence to the data. Specifically, beryllium, cadmium, iron and magnesium were either greater than or more negative than the MDL for one or more of the instrument blanks (LCB) straddling the field samples. None of this bias, if compensated for, would result in a reportable concentration for beryllium, or would be more than a percent or two change for the others, except for the negative response for cadmium on the final instrument blank. If that were taken into account, the results for samples 2002AH16S02 could be a false negative. For that reason, this result is given a "J" flag as estimated. The first instrument blank was high (above MDL) for iron, lead and magnesium. These had no effect on the data. The digestion blank (LRB) was high for beryllium, cobalt, iron, magnesium and selenium, and low for arsenic and cadmium, again with no effect, except for the cadmium, as mentioned above.

The report level check (RLC) was within 80-120% recovery for most of the 13 elements. Iron and magnesium were outside these limits by almost exactly the amount the first instrument blank was off. The other instrument checks for these elements were all in control, and the data for these two elements were far above the reporting limits, at least before filter blank subtraction. The duplicate filter digestion was within ±20% for the relative percent difference (RPD) or within ± the MDL for the difference, with the exception of cadmium, with an absolute difference in the duplicate just greater than the MDL when converted to μg/filter in the duplicate of 2002AH16S01. Cadmium is given a "J" flag for the batch due to imprecision, in addition to the problem with the false negative mentioned above. Barium had an RPD of 33% for the duplicate

Date: 14 November 2001
Analyst: John V. Morris
Sample Batch Number: 20020009, 20020012 & 20020013
Facility Name: Cheshire Monitoring Study
Analyte: ICP Metals

of sample 2002AH15S03, but all results, after blank subtraction, were less than the reporting limit, so the data was not flagged.

Four digests, that for sample 2002AH16S01 and its duplicate, and for 2002AH17D01 and its duplicate, were greater than the calibration standard for copper. The high value for copper in the S01 sample for each set has been planned for as a normal part of the analysis and had been inserted into the run as part of the normal run, and the copper data is taken from these dilutions. In this case, for batch 20020013, the D01 sample, duplicated in the digestion, was the one with high copper. Sample 2002AH17D01 and its duplicate were inserted into the run, but the name for the first was not changed in the .sif file from the S01 sample. Corrections were made to the saved export file.

No significant spectral interference errors are indicated in the SIC measurements for these samples

Again, as with previous batches, the co-located sample pair 2002AH16S01 and 2002AH16D01, as well as the co-located sample pair 2002AH17S01 and 2002AH17D01, results are quite different. It is unusual that the D01 member of the pair had the high copper in the samples collected on 28 October. Because that was the one chosen for digestion duplicate, this analyst knows no sample mix-up occurred in the laboratory.

All analytical results files, sample information files and reformat files for ICP analysis can be found on the R5CRL data server using the following path:
h:\r5crl\vol3\metals\jvmorris\20020009_12_13\3300dv\

The narrative, QC summary spreadsheets, sample result calculation spreadsheets and the final sample report for ICP analysis can be found on the R5CRL data server using the following path:
h:\r5crl\vol3\metals\jvmorris\20020009_12_13\reports\

CRL Metals Data Review Checklist

Batch Number: 20020009, 12, 13 Facility: Cherokee Monitoring Stud

Parameter: ICP (Air)

Package Overview:	Review:	
	Analyst	Peer
Raw Data Package Complete?	✓	✓
Results Reported Correctly?	✓	✓
Special Requests Done?	✓	✓
Calculations Checked?	✓	✓
Calibration Not Exceeded?	✓	✓
Field QC Checked?	✓	✓
Quality Control:		
Holding Times Met?	NA	—
Preservation Checked?	NA	—
Proper Digestion Verified?	✓	✓
Initial Instrument Performance Checks Verified?	✓	✓
Calibration Verification Checked?	✓	✓
Sample-Specific QC (Internal Standards or Analytical Spikes) Okay?	✓	✓
Matrix QC Checked?	✓	✓
Digestion Blanks Checked?	✓	✓
Spiked Blank Checked?	✓	✓
LCS (if applicable) Checked?	NA	—
Species QC (if applicable) Checked?	NA	—
Final Check:		
Technical Review Done?	✓	✓
Narrative Complete? (See sect. 7 of data review SOP, HK005)	✓	✓

Analyst: [signature] Date: 14 Nov 01

Peer Reviewer: KSwan Date: 11/15/01

CRL Form Version 03.1/00

Comments Attached? (Y/N)_____

Sample Batch Number: 20020009 & 20020012 & 20020013
Analysis Date: 9 Nov 01
Results Data Set: 110901.mdb

Sample ID	Date	Time	Aliquot Vol.	Diluted To Vol.
Calib Blank 1	11/09/2001	08:55:42 AM		
Cal 1	11/09/2001	09:00:11 AM		
Cal 2	11/09/2001	09:04:37 AM		
Cal 3	11/09/2001	09:08:30 AM		
Cal 4	11/09/2001	09:11:55 AM		
Cal Ag/K	11/09/2001	09:15:51 AM		
Cal 5	11/09/2001	09:19:16 AM		
Hi Cal	11/09/2001	09:23:17 AM		
wash	11/09/2001	09:26:50 AM		
BLANK	11/09/2001	09:31:22 AM		
LCM1	11/09/2001	09:35:50 AM		
LCM2	11/09/2001	09:40:25 AM		
Hi AQC	11/09/2001	09:44:53 AM		
wash	11/09/2001	09:49:40 AM		
RLC	11/09/2001	09:54:13 AM		
SIC CoV	11/09/2001	09:58:43 AM		
SIC Ce	11/09/2001	10:03:14 AM		
SIC Cr	11/09/2001	10:07:40 AM		
SIC Fe	11/09/2001	10:12:12 AM		
SIC Mn	11/09/2001	10:16:47 AM		
SIC Fe	11/09/2001	10:35:05 AM		
SIC Mn	11/09/2001	10:39:41 AM		
SIC Mo	11/09/2001	10:44:13 AM		
SIC Ni	11/09/2001	10:48:43 AM		
SIC Ti	11/09/2001	10:53:14 AM		
wash	11/09/2001	10:57:49 AM		
BLANK	11/09/2001	11:02:21 AM		
LCM1	11/09/2001	11:06:48 AM		
LCM2	11/09/2001	11:11:24 AM		
Hi AQC	11/09/2001	11:15:53 AM		
wash	11/09/2001	11:20:40 AM		
LRB	11/09/2001	11:25:13 AM		
LFB	11/09/2001	11:29:31 AM		
Filter Blank	11/09/2001	11:33:52 AM		
Filter Blank SPK	11/09/2001	11:38:12 AM		
2002AH15S02	11/09/2001	11:42:33 AM		
2002AH15S03	11/09/2001	11:48:05 AM		
LRB	11/09/2001	12:10:13 PM		
LFB	11/09/2001	12:14:37 PM		
Filter Blank	11/09/2001	12:19:10 PM		
Filter Blank SPK	11/09/2001	12:23:39 PM		
2002AH15S02	11/09/2001	12:28:12 PM		
2002AH15S03	11/09/2001	12:32:44 PM		
2002AH15S03 Dup	11/09/2001	12:37:15 PM		
2002AH16S01	11/09/2001	12:41:48 PM		
2002AH16S01 Dup	11/09/2001	12:46:21 PM		
2002AH16D01	11/09/2001	12:50:55 PM		
wash	11/09/2001	12:55:31 PM		
BLANK	11/09/2001	01:00:06 PM		
LCM1	11/09/2001	01:04:34 PM		
LCM2	11/09/2001	01:09:07 PM		
Hi AQC	11/09/2001	01:13:36 PM		
wash	11/09/2001	01:18:23 PM		
2002AH16S02	11/09/2001	01:22:56 PM		
2002AH16S03	11/09/2001	01:27:24 PM		
2002AH17S01	11/09/2001	01:31:52 PM		
2002AH17D01	11/09/2001	01:36:22 PM		
2002AH17D01 Dup	11/09/2001	01:40:52 PM		
2002AH17S02	11/09/2001	01:45:24 PM		
2002AH17S03	11/09/2001	01:49:55 PM		
2002AH16S01	11/09/2001	01:54:27 PM	10	20
2002AH16S01 Dup	11/09/2001	01:58:58 PM	10	20
2002AH17D01	11/09/2001	02:03:28 PM	10	20
2002AH17D01 Dup	11/09/2001	02:07:52 PM	10	20
wash	11/09/2001	02:12:16 PM		
BLANK	11/09/2001	02:16:48 PM		
LCM1	11/09/2001	02:21:16 PM		
LCM2	11/09/2001	02:25:52 PM		
Hi AQC	11/09/2001	02:30:20 PM		

JVM
14 Nov 01

- is tubing off
- restart at seq 20

- is tubing off
- restart at seq 31

← msit file as S01 changed to D01

Instrument Blank First

Sample Batch Number: 20020009 & 12 & 13
Analysis Date: 9 Nov 01
Results Data Set: 110901.mdb

			MDL	
LCB	Ag 328.068	-0.00016	0.00041	
09:31:22 AM	Ag 338.289	-0.00019	0.00051	
	Al 308.215	0.04539	0.02200	out
	Al 396.153	0.02364	0.01600	out
	As 193.696	0.00197	0.00340	
	B 249.677	0.00266	0.01200	
	Ba 455.403	-0.00003	0.00050	
	Be 313.042	0.00012	0.00015	
	Ca 315.887	0.03477	0.01400	out
	Cd 226.502	-0.00004	0.00014	
	Co 228.616	0.00010	0.00050	
	Cr 267.716	0.00020	0.00082	
	Cu 327.393	-0.00075	0.00110	
	Fe 259.939	0.02527	0.00540	out
	Fe 273.955	0.02790	0.00850	out
	K 766.490	0.51841	0.24000	out
	Li 670.784	0.00290	0.00620	
	Mg 279.077	0.02041	0.02700	
	Mg 280.271	0.02958	0.00140	out
	Mn 257.610	-0.00021	0.00050	
	Na 589.592	0.43247	0.12000	out
	Ni 231.604	0.00012	0.00040	
	Pb 220.353	0.00282	0.00220	out
	Sb 206.836	-0.00044	0.00120	
	Se 196.026	0.00319	0.00620	
	Sr 407.771	0.00010	0.00020	
	V 310.230	0.00111	0.00180	
	Zn 213.857	0.00110	0.01400	

JVM
14 Nov 01

Instrument Blank Second

Sample Batch Number: 20020009 & 12 & 13
Analysis Date: 9 Nov 01
Results Data Set: 110901.mdb

			MDL	
LCB	Ag 328.068	-0.00002	0.00041	
11:02:21 AM	Ag 338.289	-0.00024	0.00051	
	Al 308.215	0.02521	0.02200	out
	Al 396.153	0.00745	0.01600	
	As 193.696	0.00126	0.00340	
	B 249.677	0.00021	0.01200	
	Ba 455.403	0.00005	0.00050	
	Be 313.042	0.00015	0.00015	out
	Ca 315.887	0.01063	0.01400	
	Cd 226.502	-0.00001	0.00014	
	Co 228.616	0.00009	0.00050	
	Cr 267.716	0.00021	0.00082	
	Cu 327.393	-0.00046	0.00110	
	Fe 259.939	0.01246	0.00540	out
	Fe 273.955	0.01229	0.00850	out
	K 766.490	-0.00497	0.24000	
	Li 670.784	-0.00003	0.00620	
	Mg 279.077	-0.00140	0.02700	
	Mg 280.271	0.00835	0.00140	out
	Mn 257.610	0.00019	0.00050	
	Na 589.592	0.05914	0.12000	
	Ni 231.604	0.00023	0.00040	
	Pb 220.353	-0.00087	0.00220	
	Sb 206.836	-0.00014	0.00120	
	Se 196.026	0.00213	0.00620	
	Sr 407.771	0.00018	0.00020	
	V 310.230	-0.00445	0.00180	out
	Zn 213.857	0.00107	0.01400	

JVM
14 Nov 01

Instrument Blank Third

Sample Batch Number: 20020009 & 12 & 13
Analysis Date: 9 Nov 01
Results Data Set: 110901.mdb

			MDL	
LCB	Ag 328.068	-0.00011	0.00041	
01:00:06 PM	Ag 338.289	0.00004	0.00051	
	Al 308.215	0.02246	0.02200	out
	Al 396.153	0.01614	0.01600	out
	As 193.696	0.00181	0.00340	
	B 249.677	0.01023	0.01200	
	Ba 455.403	0.00018	0.00050	
	Be 313.042	0.00020	0.00015	out
	Ca 315.887	0.01413	0.01400	out
	Cd 226.502	-0.00008	0.00014	
	Co 228.616	0.00030	0.00050	
	Cr 267.716	0.00018	0.00082	
	Cu 327.393	-0.00036	0.00110	
	Fe 259.939	0.00281	0.00540	
	Fe 273.955	0.00117	0.00850	
	K 766.490	0.25115	0.24000	out
	Li 670.784	0.00217	0.00620	
	Mg 279.077	0.00635	0.02700	
	Mg 280.271	0.00565	0.00140	out
	Mn 257.610	0.00009	0.00050	
	Na 589.592	0.40122	0.12000	out
	Ni 231.604	-0.00023	0.00040	
	Pb 220.353	-0.00001	0.00220	
	Sb 206.836	0.00173	0.00120	out
	Se 196.026	0.00159	0.00620	
	Sr 407.771	0.00011	0.00020	
	V 310.230	-0.01395	0.00180	out
	Zn 213.857	0.00171	0.01400	

JVM
14 Nov 01

Instrument Blank Fourth

Sample Batch Number: 20020009 & 12 & 13
Analysis Date: 9 Nov 01
Results Data Set: 110901.mdb

			MDL	
LCB	Ag 328.068	0.00015	0.00041	
02:16:48 PM	Ag 338.289	0.00002	0.00051	
	Al 308.215	0.01851	0.02200	
	Al 396.153	0.01227	0.01600	
	As 193.696	0.00052	0.00340	
	B 249.677	0.00895	0.01200	
	Ba 455.403	0.00022	0.00050	
	Be 313.042	0.00017	0.00015	out
	Ca 315.887	0.01686	0.01400	out
	Cd 226.502	-0.00022	0.00014	out
	Co 228.616	0.00048	0.00050	
	Cr 267.716	0.00026	0.00082	
	Cu 327.393	0.00103	0.00110	
	Fe 259.939	0.00332	0.00540	
	Fe 273.955	0.00273	0.00850	
	K 766.490	0.12968	0.24000	
	Li 670.784	0.00055	0.00620	
	Mg 279.077	0.00660	0.02700	
	Mg 280.271	0.00537	0.00140	out
	Mn 257.610	0.00004	0.00050	
	Na 589.592	0.32376	0.12000	out
	Ni 231.604	-0.00036	0.00040	
	Pb 220.353	-0.00076	0.00220	
	Sb 206.836	0.00324	0.00120	out
	Se 196.026	0.00246	0.00620	
	Sr 407.771	0.00020	0.00020	
	V 310.230	-0.01870	0.00180	out
	Zn 213.857	0.00137	0.01400	

JVM
14 Nov 01

Instrument QC First

Sample Batch Number: 20020009 & 12 & 13
Analysis Date: 9 Nov 01
Results Data Set: 110901.mdb

LCM1	Al 396.153	1.01760	1.00000	101.76%
09:35:50 AM	As 193.696	1.98302	2.00000	99.15%
	B 249.677	0.89970	1.00000	89.97%
	Ba 455.403	0.98902	1.00000	98.90%
	Be 313.042	0.98170	1.00000	98.17%
	Cd 226.502	0.94765	1.00000	94.76%
	Co 228.616	0.96932	1.00000	96.93%
	Cr 267.716	0.96027	1.00000	96.03%
	Cu 327.393	0.93767	1.00000	93.77%
	Fe 259.939	1.00933	1.00000	100.93%
	Li 670.784	0.97268	1.00000	97.27%
	Mg 280.271	1.02665	1.00000	102.67%
	Mn 257.610	0.96288	1.00000	96.29%
	Ni 231.604	1.00879	1.00000	100.88%
	Pb 220.353	2.02439	2.00000	101.22%
	Sb 206.836	1.80756	2.00000	90.38%
	Se 196.026	1.04692	1.00000	104.69%
	Sr 407.771	0.98265	1.00000	98.26%
	V 310.230	0.97160	1.00000	97.16%
	Zn 213.857	0.93957	1.00000	93.96%
LCM2	Ag 328.068	0.04893	0.05000	97.85%
09:40:25 AM	Ag 338.289	0.04895	0.05000	97.89%
Hi AQC	Al 308.215	95.817	100.000	95.82%
09:44:53 AM	Ca 315.887	102.311	100.000	102.31%
	Fe 273.955	102.942	100.000	102.94%
	K 766.490	104.273	100.000	104.27%
	Mg 279.077	58.684	60.000	97.81%
	Na 589.592	96.365	100.000	96.36%

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14 Nov 01

Instrument QC Second

Sample Batch Number: 20020009 & 12 & 13
Analysis Date: 9 Nov 01
Results Data Set: 110901.mdb

LCM1	Al 396.153	0.99856	1.00000	99.86%
11:06:48 AM	As 193.696	1.94353	2.00000	97.18%
	B 249.677	0.86254	1.00000	86.25%
	Ba 455.403	0.97030	1.00000	97.03%
	Be 313.042	0.95728	1.00000	95.73%
	Cd 226.502	0.93171	1.00000	93.17%
	Co 228.616	0.93342	1.00000	93.34%
	Cr 267.716	0.93867	1.00000	93.87%
	Cu 327.393	0.90879	1.00000	90.88%
	Fe 259.939	0.99140	1.00000	99.14%
	Li 670.784	0.99200	1.00000	99.20%
	Mg 280.271	0.99168	1.00000	99.17%
	Mn 257.610	0.94604	1.00000	94.60%
	Ni 231.604	1.00417	1.00000	100.42%
	Pb 220.353	1.96329	2.00000	98.16%
	Sb 206.836	1.76560	2.00000	88.28%
	Se 196.026	1.02759	1.00000	102.76%
	Sr 407.771	0.97193	1.00000	97.19%
	V 310.230	0.92699	1.00000	92.70%
	Zn 213.857	0.91663	1.00000	91.66%
LCM2	Ag 328.068	0.04758	0.05000	95.17%
11:11:24 AM	Ag 338.289	0.04840	0.05000	96.81%
Hi AQC	Al 308.215	93.062	100.000	93.06%
11:15:53 AM	Ca 315.887	99.372	100.000	99.37%
	Fe 273.955	100.468	100.000	100.47%
	K 766.490	103.819	100.000	103.82%
	Mg 279.077	56.842	60.000	94.74%
	Na 589.592	95.990	100.000	95.99%

JVM
14 Nov 01

Instrument QC Third

Sample Batch Number: 20020009 & 12 & 13
Analysis Date: 9 Nov 01
Results Data Set: 110901.mdb

LCM1	Al 396.153	1.08323	1.00000	108.32%
01:04:34 PM	As 193.696	2.12424	2.00000	106.21%
	B 249.677	0.95374	1.00000	95.37%
	Ba 455.403	1.04273	1.00000	104.27%
	Be 313.042	1.04073	1.00000	104.07%
	Cd 226.502	1.00164	1.00000	100.16%
	Co 228.616	0.97186	1.00000	97.19%
	Cr 267.716	0.99918	1.00000	99.92%
	Cu 327.393	0.95919	1.00000	95.92%
	Fe 259.939	1.06726	1.00000	106.73%
	Li 670.784	1.07531	1.00000	107.53%
	Mg 280.271	1.07517	1.00000	107.52%
	Mn 257.610	1.01816	1.00000	101.82%
	Ni 231.604	1.08919	1.00000	108.92%
	Pb 220.353	2.09524	2.00000	104.76%
	Sb 206.836	1.95457	2.00000	97.73%
	Se 196.026	1.11736	1.00000	111.74%
	Sr 407.771	1.09125	1.00000	109.13%
	V 310.230	0.97068	1.00000	97.07%
	Zn 213.857	0.99532	1.00000	99.53%
LCM2	Ag 328.068	0.05202	0.05000	104.05%
01:09:07 PM	Ag 338.289	0.05211	0.05000	104.22%
Hi AQC	Al 308.215	99.421	100.000	99.42%
01:13:36 PM	Ca 315.887	105.487	100.000	105.49%
	Fe 273.955	107.589	100.000	107.59%
	K 766.490	111.790	100.000	111.79%
	Mg 279.077	62.179	60.000	103.63%
	Na 589.592	103.005	100.000	103.00%

JVM
14 Nov 01

Instrument QC Fourth

Sample Batch Number: 20020009 & 12 & 13
Analysis Date: 9 Nov 01
Results Data Set: 110901.mdb

LCM1	Al 396.153	1.07629	1.00000	107.63%
02:21:16 PM	As 193.696	2.11673	2.00000	105.84%
	B 249.677	0.93566	1.00000	93.57%
	Ba 455.403	1.02506	1.00000	102.51%
	Be 313.042	1.01843	1.00000	101.84%
	Cd 226.502	0.99970	1.00000	99.97%
	Co 228.616	0.96129	1.00000	96.13%
	Cr 267.716	1.00106	1.00000	100.11%
	Cu 327.393	0.97073	1.00000	97.07%
	Fe 259.939	1.02291	1.00000	102.29%
	Li 670.784	1.04919	1.00000	104.92%
	Mg 280.271	1.05384	1.00000	105.38%
	Mn 257.610	0.98569	1.00000	98.57%
	Ni 231.604	1.09788	1.00000	109.79%
	Pb 220.353	2.07081	2.00000	103.54%
	Sb 206.836	1.94943	2.00000	97.47%
	Se 196.026	1.10163	1.00000	110.16%
	Sr 407.771	1.09014	1.00000	109.01%
	V 310.230	0.96300	1.00000	96.30%
	Zn 213.857	0.97130	1.00000	97.13%
LCM2	Ag 328.068	0.05115	0.05000	102.31%
02:25:52 PM	Ag 338.289	0.05212	0.05000	104.25%
Hi AQC	Al 308.215	98.496	100.000	98.50%
02:30:20 PM	Ca 315.887	103.826	100.000	103.83%
	Fe 273.955	106.396	100.000	106.40%
	K 766.490	111.172	100.000	111.17%
	Mg 279.077	61.180	60.000	101.97%
	Na 589.592	102.522	100.000	102.52%

JVM
14 Nov 01

Report Level Check

Sample Batch Number: 20020009 & 12 & 13
Analysis Date: 9 Nov 01
Results Data Set: 110901.mdb

RLC	Ag 328.068	0.00195	0.00200	97.62%
	Ag 338.289	0.00218	0.00200	108.94%
	Al 308.215	0.10031	0.06000	167.19%
	Al 396.153	0.08388	0.06000	139.80%
	As 193.696	0.01370	0.01500	91.35%
	B 249.677	0.05546	0.04000	138.64%
	Ba 455.403	0.00230	0.00200	114.89%
	Be 313.042	0.00106	0.00100	105.85%
	Ca 315.887	0.12344	0.03000	411.46%
	Cd 226.502	0.00096	0.00100	96.10%
	Co 228.616	0.00201	0.00200	100.58%
	Cr 267.716	0.00314	0.00300	104.56%
	Cu 327.393	0.00375	0.00400	93.70%
	Fe 259.939	0.03558	0.02000	177.92%
	Fe 273.955	0.03624	0.02000	181.19%
	K 766.490	1.32051	0.80000	165.06%
	Li 670.784	0.02662	0.02500	106.48%
	Mg 279.077	0.02043	0.00500	408.58%
	Mg 280.271	0.03143	0.00500	628.66%
	Mn 257.610	0.00182	0.00200	90.85%
	Na 589.592	0.73295	0.40000	183.24%
	Ni 231.604	0.00239	0.00200	119.57%
	Pb 220.353	0.01024	0.01000	102.37%
	Sb 206.836	0.00312	0.00400	77.94%
	Se 196.026	0.03402	0.03000	113.39%
	Sr 407.771	0.00128	0.00100	128.26%
	V 310.230	0.00621	0.00600	103.57%
	Zn 213.857	0.04999	0.04500	111.09%

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Sample Batch Number: 20020009 & 12 & 13
Analysis Date: 9 Nov 01
Results Data Set: 110901.mdb

			MDL	
LRB	Ag 328.068	-0.00003	0.00041	
	Ag 338.289	0.00053	0.00051	out
	Al 308.215	0.02447	0.02200	out
	Al 396.153	0.01226	0.01600	
	As 193.696	-0.00365	0.00340	out
	B 249.677	0.00416	0.01200	
	Ba 455.403	0.00042	0.00050	
	Be 313.042	0.00027	0.00015	out
	Ca 315.887	0.05154	0.01400	out
	Cd 226.502	-0.00027	0.00014	out
	Co 228.616	0.00076	0.00050	out
	Cr 267.716	0.00054	0.00082	
	Cu 327.393	0.00071	0.00110	
	Fe 259.939	0.00894	0.00540	out
	Fe 273.955	0.00707	0.00850	
	K 766.490	-0.06247	0.24000	
	Li 670.784	-0.00100	0.00620	
	Mg 279.077	0.02113	0.02700	
	Mg 280.271	0.01179	0.00140	out
	Mn 257.610	0.00011	0.00050	
	Na 589.592	0.09202	0.12000	
	Ni 231.604	0.00008	0.00040	
	Pb 220.353	-0.00080	0.00220	
	Sb 206.836	0.00171	0.00120	out
	Se 196.026	0.00645	0.00620	out
	Sr 407.771	-0.00001	0.00020	
	V 310.230	-0.00860	0.00180	out
	Zn 213.857	0.00408	0.01400	

JVM
14 Nov 01

Spiked Blank

Sample Batch Number: 20020009 & 12 & 13
Analysis Date: 9 Nov 01
Results Data Set: 110901.mdb

LFB	Ag 328.068	0.02629	0.02500	105.28%
	Ag 338.289	0.02663	0.02500	104.41%
	Al 308.215	1.10676	1.00000	108.23%
	Al 396.153	1.19541	1.00000	118.32%
	As 193.696	0.21586	0.20000	109.76%
	B 249.677	0.95146	1.00000	94.73%
	Ba 455.403	0.20774	0.20000	103.66%
	Be 313.042	0.01093	0.01000	106.68%
	Ca 315.887	58.19774	50.00000	116.29%
	Cd 226.502	0.04892	0.05000	98.38%
	Co 228.616	0.09546	0.10000	94.70%
	Cr 267.716	0.09991	0.10000	99.36%
	Cu 327.393	0.09704	0.10000	96.34%
	Fe 259.939	1.11055	1.00000	110.16%
	Fe 273.955	1.20712	1.00000	120.00%
	K 766.490	29.51486	25.00000	118.31%
	Li 670.784	0.10339	0.10000	104.39%
	Mg 279.077	22.28121	20.00000	111.30%
	Mg 280.271	21.35204	20.00000	106.70%
	Mn 257.610	0.20073	0.20000	100.31%
	Na 589.592	54.70186	50.00000	109.22%
	Ni 231.604	0.20832	0.20000	104.12%
	Pb 220.353	0.52048	0.50000	104.25%
	Sb 206.836	0.52639	0.50000	104.94%
	Se 196.026	0.51854	0.50000	102.42%
	Sr 407.771	1.10042	1.00000	110.04%
	V 310.230	0.09424	0.10000	102.84%
	Zn 213.857	1.04581	1.00000	104.17%

JM
14 Nov 01

SPIKE

Sample Batch Number: 20020009 & 12 & 13
Analysis Date: 9 Nov 01
Results Data Set: 110901.mdb

	Element	Units	Sample	Spike	Spike Adde	% Recovery
filter blank	Ag 328.068	mg/L	-0.00001	0.02708	0.02500	108.38%
	Ag 338.289	mg/L	-0.00033	0.02721	0.02500	110.13%
	Al 308.215	mg/L	0.95963	1.98788	1.00000	102.82%
	Al 396.153	mg/L	0.97245	2.07613	1.00000	110.37%
	As 193.696	mg/L	-0.00266	0.22069	0.20000	111.68%
	B 249.677	mg/L	0.63199	1.60204	1.00000	97.01%
	Ba 455.403	mg/L	0.23096	0.42855	0.20000	98.79%
	Be 313.042	mg/L	0.00031	0.01062	0.01000	103.08%
	Ca 315.887	mg/L	3.19714	59.11620	50.00000	111.84%
	Cd 226.502	mg/L	-0.00011	0.04965	0.05000	99.53%
	Co 228.616	mg/L	0.00066	0.09631	0.10000	95.65%
	Cr 267.716	mg/L	0.00436	0.10496	0.10000	100.59%
	Cu 327.393	mg/L	0.00281	0.09932	0.10000	96.51%
	Fe 259.939	mg/L	0.10637	1.15125	1.00000	104.49%
	Fe 273.955	mg/L	0.11524	1.25676	1.00000	114.15%
	K 766.490	mg/L	2.21304	31.86712	25.00000	118.62%
	Li 670.784	mg/L	0.00048	0.10753	0.10000	107.05%
	Mg 279.077	mg/L	0.88538	22.40453	20.00000	107.60%
	Mg 280.271	mg/L	0.85080	21.80622	20.00000	104.78%
	Mn 257.610	mg/L	0.00195	0.19522	0.20000	96.63%
	Na 589.592	mg/L	46.76005	100.80930	50.00000	108.10%
	Ni 231.604	mg/L	0.00244	0.20952	0.20000	103.54%
	Pb 220.353	mg/L	0.00010	0.52798	0.50000	105.57%
	Sb 206.836	mg/L	0.00152	0.47201	0.50000	94.10%
	Se 196.026	mg/L	0.00546	0.52869	0.50000	104.65%
	Sr 407.771	mg/L	0.00287	1.09654	1.00000	109.37%
	V 310.230	mg/L	-0.00859	0.09494	0.10000	103.53%
	Zn 213.857	mg/L	0.06818	1.04741	1.00000	97.92%

JVM
14 Nov 01

DUPLICATE

Sample Number: 2002AH15S03
Sample Batch Number: 20020009
Analysis Date: 9 Nov 01
Results Data Set: 110901.mdb

Element	Units	Sample	Duplicate	Difference	Reporting Limit	RPD
As 193.696	µg/filter	0.78	0.67	0.12	9.000	16.14%
Ba 455.403	µg/filter	179.53	250.34	-70.82	1.200	-32.95%
Be 313.042	µg/filter	0.09	0.19	-0.10	0.600	-69.49%
Cd 226.50	µg/filter	0.02	0.05	-0.03	0.600	-89.68%
Cr 267.716	µg/filter	3.44	3.88	-0.45	1.800	-12.28%
Co 228.61	µg/filter	0.55	0.46	0.09	1.200	17.83%
Cu 327.39	µg/filter	115.00	121.47	-6.46	2.400	-5.47%
Fe 259.939	µg/filter	206.75	237.02	-30.27	12.000	-13.64%
Pb 220.353	µg/filter	2.25	2.59	-0.34	6.000	-13.93%
Mg 280.27	µg/filter	632.11	741.92	-109.81	3.000	-15.98%
Mn 257.61	µg/filter	7.92	8.90	-0.99	1.200	-11.72%
Ni 231.604	µg/filter	0.99	0.88	0.11	1.200	11.32%
Se 196.026	µg/filter	6.21	4.39	1.82	18.000	34.27%

JVM
14 NOV 01

DUPLICATE

Sample Number: 2002AH16S01
Sample Batch Number: 20020012
Analysis Date: 9 Nov 01
Results Data Set: 110901.mdb

Element	Units	Sample	Duplicate	Difference	Reporting Limit	RPD
As 193.696	µg/filter	3.72	4.34	-0.62	9.000	-15.43%
Ba 455.403	µg/filter	240.77	238.16	2.61	1.200	1.09%
Be 313.042	µg/filter	0.23	0.24	-0.01	0.600	-2.66%
Cd 226.50	µg/filter	0.95	0.63	0.32	0.600	40.45%
Cr 267.716	µg/filter	5.42	5.48	-0.06	1.800	-1.09%
Co 228.61	µg/filter	1.00	0.93	0.07	1.200	7.13%
Cu 327.39	µg/filter	1519.44	1489.79	29.65	2.400	1.97%
Fe 259.939	µg/filter	1054.57	1071.79	-17.22	12.000	-1.62%
Pb 220.353	µg/filter	28.55	31.39	-2.84	6.000	-9.48%
Mg 280.27	µg/filter	992.16	1036.97	-44.80	3.000	-4.42%
Mn 257.61	µg/filter	34.95	36.69	-1.74	1.200	-4.86%
Ni 231.604	µg/filter	2.97	2.50	0.47	1.200	17.35%
Se 196.026	µg/filter	9.03	10.30	-1.27	18.000	-13.13%

JVM
14 Nov 01

DUPLICATE

Sample Number: 2002AH17D01
Sample Batch Number: 20020013
Analysis Date: 9 Nov 01
Results Data Set: 110901.mdb

Element	Units	Sample	Duplicate	Difference	Reporting Limit	RPD
As 193.696	µg/filter	1.26	0.65	0.61	9.000	63.63%
Ba 455.403	µg/filter	247.82	224.58	23.24	1.200	9.84%
Be 313.042	µg/filter	0.13	0.08	0.05	0.600	45.36%
Cd 226.50	µg/filter	0.00	0.01	-0.01	0.600	-94.51%
Cr 267.716	µg/filter	4.60	3.85	0.75	1.800	17.81%
Co 228.61	µg/filter	0.43	0.52	-0.09	1.200	-19.03%
Cu 327.39	µg/filter	1174.43	1192.45	-18.01	2.400	-1.52%
Fe 259.939	µg/filter	347.89	338.62	9.27	12.000	2.70%
Pb 220.353	µg/filter	7.74	7.89	-0.14	6.000	-1.83%
Mg 280.27	µg/filter	831.65	801.45	30.20	3.000	3.70%
Mn 257.61	µg/filter	10.02	9.71	0.31	1.200	3.18%
Ni 231.604	µg/filter	1.16	1.11	0.04	1.200	3.86%
Se 196.026	µg/filter	23.85	24.06	-0.22	18.000	-0.90%

JVM
14 Nov 01

SIC Solutions

Sample Batch Number: 20020009 & 12 & 13
Analysis Date: 9 Nov 01
Results Data Set: 110901.mdb

			RL	
SIC Co V	Ag 328.068	0.00005	0.00200	
	Ag 338.289	-0.00004	0.00200	
	Al 308.215	0.06650	0.06000	out
	Al 396.153	0.05328	0.06000	
	As 193.696	-0.00143	0.01500	
	B 249.677	0.01947	0.04000	
	Ba 455.403	0.00027	0.00200	
	Be 313.042	0.00022	0.00100	
	Ca 315.887	0.10035	0.03000	out
	Cd 226.502	-0.00012	0.00100	
	Co 228.616	9.44683	0.00200	
	Cr 267.716	0.00001	0.00300	
	Cu 327.393	0.00225	0.00400	
	Fe 259.939	0.05755	0.02000	out
	Fe 273.955	0.05943	0.02000	out
	K 766.490	0.34314	0.80000	
	Li 670.784	0.00011	0.02500	
	Mg 279.077	0.03641	0.00500	out
	Mg 280.271	0.05360	0.00500	out
	Mn 257.610	-0.00011	0.00200	
	Na 589.592	0.27810	0.40000	
	Ni 231.604	0.00055	0.00200	
	Pb 220.353	-0.00053	0.01000	
	Sb 206.836	-0.00204	0.00400	
	Se 196.026	0.00165	0.03000	
	Sr 407.771	0.00010	0.00100	
	V 310.230	9.51057	0.00600	
	Zn 213.857	0.00667	0.04500	

JVM
14 Nov 01

SIC Solutions

Sample Batch Number: 20020009 & 12 & 13
Analysis Date: 9 Nov 01
Results Data Set: 110901.mdb

			RL	
SIC Ce	Ag 328.068	-0.00023	0.00200	
	Ag 338.289	-0.00283	0.00200	out
	Al 308.215	0.04532	0.06000	
	Al 396.153	0.27097	0.06000	out
	As 193.696	0.00096	0.01500	
	B 249.677	0.00655	0.04000	
	Ba 455.403	0.00053	0.00200	
	Be 313.042	0.00003	0.00100	
	Ca 315.887	0.07588	0.03000	out
	Cd 226.502	-0.00012	0.00100	
	Co 228.616	0.00156	0.00200	
	Cr 267.716	0.00068	0.00300	
	Cu 327.393	-0.00056	0.00400	
	Fe 259.939	0.01057	0.02000	
	Fe 273.955	0.01117	0.02000	
	K 766.490	0.27910	0.80000	
	Li 670.784	0.00448	0.02500	
	Mg 279.077	-0.00117	0.00500	
	Mg 280.271	0.00914	0.00500	out
	Mn 257.610	-0.00005	0.00200	
	Na 589.592	0.22857	0.40000	
	Ni 231.604	0.00052	0.00200	
	Pb 220.353	0.00086	0.01000	
	Sb 206.836	-0.00027	0.00400	
	Se 196.026	0.00092	0.03000	
	Sr 407.771	-0.00038	0.00100	
	V 310.230	0.00035	0.00600	
	Zn 213.857	0.00761	0.04500	

JVM
14 Nov 01

SIC Solutions

Sample Batch Number: 20020009 & 12 & 13
Analysis Date: 9 Nov 01
Results Data Set: 110901.mdb

			RL	
SIC Cr	Ag 328.068	-0.00024	0.00200	
	Ag 338.289	0.00054	0.00200	
	Al 308.215	0.02775	0.06000	
	Al 396.153	0.01055	0.06000	
	As 193.696	-0.00182	0.01500	
	B 249.677	0.00896	0.04000	
	Ba 455.403	0.00003	0.00200	
	Be 313.042	0.00012	0.00100	
	Ca 315.887	0.02508	0.03000	
	Cd 226.502	-0.00001	0.00100	
	Co 228.616	-0.00243	0.00200	out
	Cr 267.716	9.54735	0.00300	
	Cu 327.393	-0.00049	0.00400	
	Fe 259.939	0.00884	0.02000	
	Fe 273.955	0.01404	0.02000	
	K 766.490	0.26708	0.80000	
	Li 670.784	0.00117	0.02500	
	Mg 279.077	-0.00376	0.00500	
	Mg 280.271	0.00366	0.00500	
	Mn 257.610	-0.00014	0.00200	
	Na 589.592	0.20086	0.40000	
	Ni 231.604	0.00062	0.00200	
	Pb 220.353	-0.00051	0.01000	
	Sb 206.836	0.02758	0.00400	out
	Se 196.026	0.00281	0.03000	
	Sr 407.771	0.00012	0.00100	
	V 310.230	-0.00082	0.00600	
	Zn 213.857	0.00304	0.04500	

JM
14 Nov 01

SIC Solutions

Sample Batch Number: 20020009 & 12 & 13
Analysis Date: 9 Nov 01
Results Data Set: 110901.mdb

			RL	
SIC Fe	Ag 328.068	-0.00258	0.00200	out
	Ag 338.289	-0.00035	0.00200	
	Al 308.215	0.06620	0.06000	out
	Al 396.153	0.04813	0.06000	
	As 193.696	-0.01823	0.01500	out
	B 249.677	-0.00297	0.04000	
	Ba 455.403	0.00027	0.00200	
	Be 313.042	0.00026	0.00100	
	Ca 315.887	0.07547	0.03000	out
	Cd 226.502	0.00595	0.00100	out
	Co 228.616	0.00184	0.00200	
	Cr 267.716	-0.00096	0.00300	
	Cu 327.393	-0.00154	0.00400	
	Fe 259.939	275.70199	0.02000	
	Fe 273.955	311.91119	0.02000	
	K 766.490	0.24021	0.80000	
	Li 670.784	0.00092	0.02500	
	Mg 279.077	0.08210	0.00500	out
	Mg 280.271	0.02028	0.00500	out
	Mn 257.610	0.00807	0.00200	out
	Na 589.592	0.17590	0.40000	
	Ni 231.604	0.00432	0.00200	out
	Pb 220.353	0.00997	0.01000	
	Sb 206.836	0.00101	0.00400	
	Se 196.026	-0.07936	0.03000	out
	Sr 407.771	0.00012	0.00100	
	V 310.230	0.00087	0.00600	
	Zn 213.857	0.00466	0.04500	

JVM
14 Nov 01

SIC Solutions

Sample Batch Number: 20020009 & 12 & 13
Analysis Date: 9 Nov 01
Results Data Set: 110901.mdb

			RL	
SIC Mn	Ag 328.068	-0.00020	0.00200	
	Ag 338.289	-0.00010	0.00200	
	Al 308.215	0.02823	0.06000	
	Al 396.153	0.00267	0.06000	
	As 193.696	0.00246	0.01500	
	B 249.677	0.00528	0.04000	
	Ba 455.403	0.00003	0.00200	
	Be 313.042	0.00018	0.00100	
	Ca 315.887	0.00726	0.03000	
	Cd 226.502	-0.00008	0.00100	
	Co 228.616	0.00016	0.00200	
	Cr 267.716	0.00032	0.00300	
	Cu 327.393	-0.00026	0.00400	
	Fe 259.939	0.10248	0.02000	out
	Fe 273.955	0.11267	0.02000	out
	K 766.490	0.03195	0.80000	
	Li 670.784	-0.00111	0.02500	
	Mg 279.077	0.00453	0.00500	
	Mg 280.271	0.00378	0.00500	
	Mn 257.610	9.09491	0.00200	
	Na 589.592	0.09360	0.40000	
	Ni 231.604	0.00021	0.00200	
	Pb 220.353	0.00027	0.01000	
	Sb 206.836	0.00063	0.00400	
	Se 196.026	0.00424	0.03000	
	Sr 407.771	0.00008	0.00100	
	V 310.230	-0.00153	0.00600	
	Zn 213.857	0.00147	0.04500	

JVM
14 Nov 01

SIC Solutions

Sample Batch Number: 20020009 & 12 & 13
Analysis Date: 9 Nov 01
Results Data Set: 110901.mdb

			RL	
SIC Mo	Ag 328.068	-0.00031	0.00200	
	Ag 338.289	-0.00034	0.00200	
	Al 308.215	0.05592	0.06000	
	Al 396.153	0.03898	0.06000	
	As 193.696	0.00133	0.01500	
	B 249.677	0.00306	0.04000	
	Ba 455.403	0.00017	0.00200	
	Be 313.042	0.00017	0.00100	
	Ca 315.887	0.01830	0.03000	
	Cd 226.502	-0.00012	0.00100	
	Co 228.616	0.00301	0.00200	out
	Cr 267.716	0.00025	0.00300	
	Cu 327.393	0.00014	0.00400	
	Fe 259.939	0.02411	0.02000	out
	Fe 273.955	0.02017	0.02000	out
	K 766.490	0.05182	0.80000	
	Li 670.784	0.00168	0.02500	
	Mg 279.077	0.00090	0.00500	
	Mg 280.271	0.00415	0.00500	
	Mn 257.610	0.00270	0.00200	out
	Na 589.592	0.13446	0.40000	
	Ni 231.604	-0.00069	0.00200	
	Pb 220.353	-0.00091	0.01000	
	Sb 206.836	0.00831	0.00400	out
	Se 196.026	0.00300	0.03000	
	Sr 407.771	0.00009	0.00100	
	V 310.230	-0.00345	0.00600	
	Zn 213.857	0.00671	0.04500	

JVM
14Nov01

SIC Solutions

Sample Batch Number: 20020009 & 12 & 13
Analysis Date: 9 Nov 01
Results Data Set: 110901.mdb

			RL	
SIC Ni	Ag 328.068	-0.00023	0.00200	
	Ag 338.289	-0.00034	0.00200	
	Al 308.215	0.04083	0.06000	
	Al 396.153	0.01471	0.06000	
	As 193.696	0.00046	0.01500	
	B 249.677	0.00346	0.04000	
	Ba 455.403	0.00013	0.00200	
	Be 313.042	0.00019	0.00100	
	Ca 315.887	0.01609	0.03000	
	Cd 226.502	0.00115	0.00100	out
	Co 228.616	-0.00009	0.00200	
	Cr 267.716	0.00025	0.00300	
	Cu 327.393	0.00052	0.00400	
	Fe 259.939	0.01798	0.02000	
	Fe 273.955	0.01917	0.02000	
	K 766.490	0.02629	0.80000	
	Li 670.784	-0.00047	0.02500	
	Mg 279.077	-0.00370	0.00500	
	Mg 280.271	0.00671	0.00500	out
	Mn 257.610	0.00030	0.00200	
	Na 589.592	0.08612	0.40000	
	Ni 231.604	9.84256	0.00200	
	Pb 220.353	-0.00091	0.01000	
	Sb 206.836	-0.00083	0.00400	
	Se 196.026	0.00090	0.03000	
	Sr 407.771	0.00004	0.00100	
	V 310.230	-0.00317	0.00600	
	Zn 213.857	-0.00069	0.04500	

KM
14 Nov 01

SIC Solutions

Sample Batch Number: 20020009 & 12 & 13
Analysis Date: 9 Nov 01
Results Data Set: 110901.mdb

			RL	
SIC Ti	Ag 328.068	-0.00054	0.00200	
	Ag 338.289	0.00069	0.00200	
	Al 308.215	0.06420	0.06000	out
	Al 396.153	0.02152	0.06000	
	As 193.696	0.00081	0.01500	
	B 249.677	0.00872	0.04000	
	Ba 455.403	0.00030	0.00200	
	Be 313.042	0.00020	0.00100	
	Ca 315.887	0.03241	0.03000	out
	Cd 226.502	-0.00008	0.00100	
	Co 228.616	0.00311	0.00200	out
	Cr 267.716	0.00117	0.00300	
	Cu 327.393	0.00031	0.00400	
	Fe 259.939	0.02336	0.02000	out
	Fe 273.955	0.02047	0.02000	out
	K 766.490	0.05957	0.80000	
	Li 670.784	0.00102	0.02500	
	Mg 279.077	0.00670	0.00500	out
	Mg 280.271	0.01206	0.00500	out
	Mn 257.610	0.00034	0.00200	
	Na 589.592	0.08272	0.40000	
	Ni 231.604	0.00166	0.00200	
	Pb 220.353	-0.00008	0.01000	
	Sb 206.836	-0.00051	0.00400	
	Se 196.026	-0.00172	0.03000	
	Sr 407.771	0.00031	0.00100	
	V 310.230	-0.00318	0.00600	
	Zn 213.857	0.00150	0.04500	

JVM
14 Nov 01

METALS SAMPLE PREPARATION RECORD

Prepared by: JV Morris
Digestion Method: Metals 006

Run Number: 1328
Date: 8 Nov 01

Vessel Number	Data Set Number	Sample Number	pH < 2? Y/N*	Sample Description (Color, Clarity, Texture, Artifacts, etc...) Before Prep.	After Prep.	Remarks
1		LRB				
2		LFB				
3		Filter blank				G6009099
4		Filter blank spike				G6009099
5	20020009	2002AH15502				G1006674
6	↓	2002AH15503				G1006675
7	↓	2002AH15503Dup				G1006675
8	20020012	2002AH16501				G1006670
9	↓	2002AH16501D		~~note: filters spotted on reverse~~ over		G1006670
10	↓	2002AH16D01		note: filters spotted	on reverse	G1006672
11	↓	2002AH16502				G1006664
12	↓	2002AH16503				G1006662
13	20020013	2002AH17501				G1006668
14	↓	2002AH17D01				G1006666
15	↓	2002AH17D01D				G1006666
16	↓	2002AH17502				G1006658
17	↓	2002AH17503				G1006660

* Please note: A minimum of 16 hours from time of sampling must elapse before pH of sample can be taken.
If pH > 2, record and date in the Remarks column the actual pH and the amount of acid added to bring pH to < 2.

Comments:

Analysis Begun

Start Time: 11/9/01 8:53:30 AM
Logged In Analyst: JVMORRIS
Spectrometer Model: Optima 3300 DV

Plasma On Time: 11/9/01 7:37:29 AM
Technique: ICP Continuous
Autosampler Model: AS-91

JVM
9Nov 01

Sample Information File: D:\JVMORRIS\Sample Information\110901.sif
Results Data Set: 110901
Results Library: D:\JVMORRIS\Results\Results.mdb

Method Loaded
Method Name: water_080900
IEC File: 041100.iec
Method Description: Update to MSF with K in model + move K to Ag

Method Last Saved: 10/5/00 10:18:26 AM
MSF File: 050300.msf

11/9/01 8:55:12 AM Hg ReAlign... Actual peak offset (nm): 0.001
Drift (nm): 0.000 Slit adjustment: 2

Sequence No.: 2
Sample ID: Calib Blank 1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 11/9/01 8:55:42 AM
Sample Prep Volume:
Data Type: Original

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	267493.0	1431.13	0.54%		
Y 360.073	3576476.8	62423.87	1.75%		
Ag 328.068†	89.5	48.11	53.76%	[0.00]	mg/L
Ag 338.289†	-155.7	29.56	18.98%	[0.00]	mg/L
Al 308.215†	-99.0	2.72	2.75%	[0.00]	mg/L
Al 394.401†	-3.8	1.26	33.31%	[0.00]	mg/L
Al 396.153†	325.7	1.44	0.44%	[0.00]	mg/L
As 188.979†	0.1	0.87	>999.9%	[0.00]	mg/L
As 193.696†	-15.0	1.51	10.09%	[0.00]	mg/L
As 197.197†	-1.3	0.21	15.77%	[0.00]	mg/L
B 208.889†	27.4	0.99	3.60%	[0.00]	mg/L
B 249.677†	-15.6	6.22	39.90%	[0.00]	mg/L
B 249.772†	8.8	1.19	13.41%	[0.00]	mg/L
Ba 233.527†	-9.1	0.68	7.49%	[0.00]	mg/L
Ba 455.403†	22.3	12.76	57.36%	[0.00]	mg/L
Ba 493.408†	10.7	42.41	396.70%	[0.00]	mg/L
Be 234.861†	-139.0	5.61	4.03%	[0.00]	mg/L
Be 313.042†	38.3	3.59	9.37%	[0.00]	mg/L
Be 313.107†	38.3	3.59	9.37%	[0.00]	mg/L
Ca 315.887†	103.5	12.80	12.36%	[0.00]	mg/L
Ca 317.933†	785.1	13.66	1.74%	[0.00]	mg/L
Cd 214.440†	0.0	0.00	0.00%	[0.00]	mg/L
Cd 226.502†	-23.5	2.21	9.42%	[0.00]	mg/L
Cd 228.802†	10.1	1.13	11.17%	[0.00]	mg/L
Ce 413.380†	100.4	9.68	9.64%	[0.00]	mg/L
Ce 413.764†	0.8	10.48	>999.9%	[0.00]	mg/L
Ce 418.660†	-221.7	65.16	29.39%	[0.00]	mg/L
Co 228.616†	154.8	22.47	14.52%	[0.00]	mg/L
Co 230.786†	-2.3	1.69	74.47%	[0.00]	mg/L
Co 238.892†	0.6	0.12	21.28%	[0.00]	mg/L
Cr 205.560†	0.5	0.81	180.83%	[0.00]	mg/L
Cr 267.716†	-7.5	2.55	33.82%	[0.00]	mg/L
Cr 283.563†	-14.8	2.08	14.06%	[0.00]	mg/L
Cu 224.700†	-23.4	1.45	6.21%	[0.00]	mg/L
Cu 324.752†	65.5	8.25	12.58%	[0.00]	mg/L
Cu 327.393†	75.5	19.08	25.26%	[0.00]	mg/L
Fe 238.204†	0.6	1.65	255.61%	[0.00]	mg/L

Fe 239.562†	-4.4	1.56	35.34%	[0.00]	mg/L
Fe 259.939†	13.4	1.97	14.77%	[0.00]	mg/L
Fe 273.955†	3.9	1.12	28.73%	[0.00]	mg/L
K 766.490†	58.1	14.48	24.94%	[0.00]	mg/L
Li 610.362†	-1254.7	20.98	1.67%	[0.00]	mg/L
Li 670.784†	478.8	58.91	12.30%	[0.00]	mg/L
Mg 279.077†	116.7	8.55	7.33%	[0.00]	mg/L
Mg 280.271†	1516.4	22.04	1.45%	[0.00]	mg/L
Mg 285.213†	24.7	0.69	2.81%	[0.00]	mg/L
Mn 257.610†	43.0	1.98	4.60%	[0.00]	mg/L
Mn 259.372†	8.7	8.90	102.27%	[0.00]	mg/L
Mn 260.568†	17.1	2.58	15.08%	[0.00]	mg/L
Mo 202.031†	1.8	4.17	230.94%	[0.00]	mg/L
Mo 203.845†	4.5	1.50	32.99%	[0.00]	mg/L
Mo 204.597†	-30.1	4.40	14.61%	[0.00]	mg/L
Na 588.995†	-2792.7	21.77	0.78%	[0.00]	mg/L
Na 589.592†	696.2	65.69	9.44%	[0.00]	mg/L
Ni 221.648†	1.8	0.66	36.08%	[0.00]	mg/L
Ni 231.604†	-22.6	7.18	31.71%	[0.00]	mg/L
Ni 232.003†	-8.9	3.23	36.26%	[0.00]	mg/L
Pb 217.000†	-6.0	1.10	18.27%	[0.00]	mg/L
Pb 220.353†	0.1	1.78	>999.9%	[0.00]	mg/L
Sb 206.836†	-3.7	1.44	39.14%	[0.00]	mg/L
Sb 217.582†	-2.3	0.45	19.30%	[0.00]	mg/L
Se 196.026†	-10.9	2.11	19.43%	[0.00]	mg/L
Se 203.985†	-67.3	2.86	4.26%	[0.00]	mg/L
Sn 189.927†	-1.6	2.71	164.80%	[0.00]	mg/L
Sn 235.485†	35.6	2.55	7.15%	[0.00]	mg/L
Sr 407.771†	-263.6	2.44	0.93%	[0.00]	mg/L
Sr 421.552†	524.0	39.90	7.61%	[0.00]	mg/L
Sr 460.733†	-115.9	50.98	43.97%	[0.00]	mg/L
Ti 334.940†	6.6	3.44	51.95%	[0.00]	mg/L
Ti 336.121†	-217.8	5.97	2.74%	[0.00]	mg/L
Ti 337.279†	94.4	1.96	2.08%	[0.00]	mg/L
Tl 190.801†	-3.7	0.91	24.63%	[0.00]	mg/L
Tl 276.787†	21.8	7.94	36.38%	[0.00]	mg/L
Tl 351.924†	0.0	0.00	0.00%	[0.00]	mg/L
V 290.880†	106.3	6.23	5.86%	[0.00]	mg/L
V 309.310†	-22.5	5.22	23.25%	[0.00]	mg/L
V 310.230†	-577.9	102.12	17.67%	[0.00]	mg/L
Zn 202.548†	7.5	1.97	26.32%	[0.00]	mg/L
Zn 206.200†	-4.9	0.57	11.48%	[0.00]	mg/L
Zn 213.857†	34.3	1.21	3.53%	[0.00]	mg/L

Sequence No.: 3
Sample ID: Cal 1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 11/9/01 9:00:11 AM

Sample Prep Volume:
Data Type: Original

Mean Data: Cal 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	274679.4	4315.65	1.57%		
Y 360.073	3608246.7	64610.66	1.79%		
As 188.979†	455.4	8.22	1.80%	[10]	mg/L
As 193.696†	9297.0	127.65	1.37%	[10]	mg/L
As 197.197†	272.6	4.30	1.58%	[10]	mg/L
B 208.889†	230.1	6.07	2.64%	[1]	mg/L
B 249.677†	1557.9	19.35	1.24%	[1]	mg/L
B 249.772†	3243.0	34.43	1.06%	[1]	mg/L
Ba 233.527†	4395.7	114.65	2.61%	[1]	mg/L
Ba 455.403†	93321.8	657.59	0.70%	[1]	mg/L
Ba 493.408†	162895.2	1254.60	0.77%	[1]	mg/L
Ca 317.933†	34789.6	886.77	2.55%	[10]	mg/L
Cd 214.440†	0.0	0.00	0.00%	[2]	mg/L
The standards were not analyzed in the same order as the entered (actual) concentrations.					
Cd 226.502†	76457.6	628.46	0.82%	[2]	mg/L

Cd 228.802†	8530.1	218.69	2.56%	[2]	mg/L
Cu 224.700†	1545.2	17.42	1.13%	[2]	mg/L
Cu 324.752†	22315.6	517.78	2.32%	[2]	mg/L
Cu 327.393†	137840.4	1990.30	1.44%	[2]	mg/L
Mn 257.610†	58641.2	212.31	0.36%	[2]	mg/L
Mn 259.372†	84951.4	1868.66	2.20%	[2]	mg/L
Mn 260.568†	38479.5	859.24	2.23%	[2]	mg/L
Sb 206.836†	11333.1	151.67	1.34%	[5]	mg/L
Sb 217.582†	321.9	3.12	0.97%	[5]	mg/L
Se 196.026†	5761.0	84.31	1.46%	[5]	mg/L
Se 203.985†	2996.5	48.92	1.63%	[5]	mg/L
Sr 407.771†	210135.1	1446.59	0.69%	[1]	mg/L
Sr 421.552†	278431.6	2043.11	0.73%	[1]	mg/L
Sr 460.733†	11824.7	306.64	2.59%	[1]	mg/L

Sequence No.: 4
Sample ID: Cal 2
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 11/9/01 9:04:37 AM
Sample Prep Volume:
Data Type: Original

Mean Data: Cal 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	280315.0	7183.98	2.56%		
Y 360.073	3653486.4	19118.66	0.52%		
Li 610.362†	33422.2	131.58	0.39%	[5]	mg/L
Li 670.784†	263744.5	760.79	0.29%	[5]	mg/L
Mo 202.031†	3664.5	122.05	3.33%	[10]	mg/L
Mo 203.845†	2095.6	71.25	3.40%	[10]	mg/L
Mo 204.597†	81021.7	736.96	0.91%	[10]	mg/L
Na 588.995†	51821.3	160.75	0.31%	[10]	mg/L
Ti 334.940†	239029.7	832.60	0.35%	[10]	mg/L
Ti 336.121†	196852.3	662.61	0.34%	[10]	mg/L
Ti 337.279†	84587.8	193.35	0.23%	[10]	mg/L

Sequence No.: 5
Sample ID: Cal 3
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 11/9/01 9:08:30 AM
Sample Prep Volume:
Data Type: Original

Mean Data: Cal 3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	283386.2	7049.90	2.49%		
Y 360.073	3646450.1	91189.17	2.50%		
Ce 413.380†	3773.6	75.64	2.00%	[2]	mg/L
Ce 413.764†	3714.0	91.83	2.47%	[2]	mg/L
Ce 418.660†	7458.8	103.88	1.39%	[2]	mg/L
Co 228.616†	85961.5	2603.84	3.03%	[2]	mg/L
Co 230.786†	2150.1	38.64	1.80%	[2]	mg/L
Co 238.892†	3272.7	65.28	1.99%	[2]	mg/L
V 290.880†	7343.7	143.39	1.95%	[2]	mg/L
V 309.310†	13297.6	285.61	2.15%	[2]	mg/L
V 310.230†	316117.9	9169.61	2.90%	[2]	mg/L

Sequence No.: 6
Sample ID: Cal 4
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 11/9/01 9:11:55 AM
Sample Prep Volume:
Data Type: Original

Mean Data: Cal 4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	283783.8	4665.33	1.64%		
Y 360.073	3685078.7	25969.62	0.70%		
Al 394.401†	9001.7	129.88	1.44%	[10]	mg/L
Al 396.153†	33902.5	172.64	0.51%	[10]	mg/L
Cr 205.560†	1383.4	26.26	1.90%	[5]	mg/L
Cr 267.716†	145771.3	1532.01	1.05%	[5]	mg/L
Cr 283.563†	20921.8	220.77	1.06%	[5]	mg/L
Sn 189.927†	5601.8	72.00	1.29%	[4]	mg/L
Sn 235.485†	734.1	11.25	1.53%	[4]	mg/L
Zn 202.548†	11375.7	163.77	1.44%	[5]	mg/L
Zn 206.200†	4650.1	71.17	1.53%	[5]	mg/L
Zn 213.857†	20733.1	194.87	0.94%	[5]	mg/L

Sequence No.: 7
Sample ID: Cal Ag/K
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 14
Date Collected: 11/9/01 9:15:51 AM
Sample Prep Volume:
Data Type: Original

Mean Data: Cal Ag/K

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	283296.2	2674.45	0.94%		
Y 360.073	3634341.7	31698.89	0.87%		
Ag 328.068†	19167.8	255.83	1.33%	[0.1]	mg/L
Ag 338.289†	10555.1	164.95	1.56%	[0.1]	mg/L
K 766.490†	289165.7	2794.81	0.97%	[500]	mg/L

Sequence No.: 8
Sample ID: Cal 5
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 15
Date Collected: 11/9/01 9:19:16 AM
Sample Prep Volume:
Data Type: Original

Mean Data: Cal 5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	288380.4	3471.61	1.20%		
Y 360.073	3754267.7	37581.77	1.00%		
Be 234.861†	385559.5	3261.76	0.85%	[1]	mg/L
Be 313.042†	82744.5	98.91	0.12%	[1]	mg/L
Be 313.107†	82744.5	98.91	0.12%	[1]	mg/L
Fe 238.204†	38705.5	59.12	0.15%	[10]	mg/L
Fe 239.562†	29898.0	43.07	0.14%	[10]	mg/L
Fe 259.939†	65471.5	164.35	0.25%	[10]	mg/L
Mg 280.271†	1367512.3	1089.41	0.08%	[10]	mg/L
Mg 285.213†	43085.3	36.25	0.08%	[10]	mg/L
Ni 221.648†	613.3	9.00	1.47%	[2]	mg/L
Ni 231.604†	29064.5	492.47	1.69%	[2]	mg/L
Ni 232.003†	942.8	8.63	0.92%	[2]	mg/L
Pb 217.000†	882.7	14.08	1.60%	[10]	mg/L
Pb 220.353†	27988.0	401.28	1.43%	[10]	mg/L
Tl 190.801†	4559.9	38.21	0.84%	[5]	mg/L
Tl 276.787†	21937.6	120.00	0.55%	[5]	mg/L
Tl 351.924†	0.0	0.00	0.00%	[5]	mg/L

The standards were not analyzed in the same order as the entered (actual) concentrations.

Sequence No.: 9
Sample ID: Hi Cal
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 16
Date Collected: 11/9/01 9:23:17 AM
Sample Prep Volume:
Data Type: Original

Mean Data: Hi Cal

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	262141.8	7139.60	2.72%		
Y 360.073	3331925.7	5504.62	0.17%		
Al 308.215†	372372.7	2685.37	0.72%	[500]	mg/L
Ca 315.887†	1700199.4	20029.00	1.18%	[500]	mg/L
Fe 273.955†	471934.1	5785.78	1.23%	[500]	mg/L
Mg 279.077†	447418.7	5718.94	1.28%	[500]	mg/L
Na 589.592†	2641503.5	21396.21	0.81%	[500]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin, Calc Int	0.0	191700	0.00000	1.000000	
Ag 338.289	1	Lin, Calc Int	0.0	105600	0.00000	1.000000	
Al 308.215	1	Lin, Calc Int	0.0	744.7	0.00000	1.000000	
Al 394.401	1	Lin, Calc Int	0.0	900.2	0.00000	1.000000	
Al 396.153	1	Lin, Calc Int	-0.0	3390	0.00000	1.000000	
As 188.979	1	Lin, Calc Int	-0.0	45.54	0.00000	1.000000	
As 193.696	1	Lin, Calc Int	0.0	929.7	0.00000	1.000000	
As 197.197	1	Lin, Calc Int	0.0	27.26	0.00000	1.000000	
B 208.889	1	Lin, Calc Int	0.0	230.1	0.00000	1.000000	
B 249.677	1	Lin, Calc Int	0.0	1558	0.00000	1.000000	
B 249.772	1	Lin, Calc Int	0.0	3243	0.00000	1.000000	
Ba 233.527	1	Lin, Calc Int	0.0	4396	0.00000	1.000000	
Ba 455.403	1	Lin, Calc Int	0.0	93320	0.00000	1.000000	
Ba 493.408	1	Lin, Calc Int	0.0	162900	0.00000	1.000000	
Be 234.861	1	Lin, Calc Int	0.0	385600	0.00000	1.000000	
Be 313.042	1	Lin, Calc Int	0.0	82740	0.00000	1.000000	
Be 313.107	1	Lin, Calc Int	0.0	82740	0.00000	1.000000	
Ca 315.887	1	Lin, Calc Int	0.0	3400	0.00000	1.000000	
Ca 317.933	1	Lin, Calc Int	0.0	3479	0.00000	1.000000	
Cd 214.440	1	Lin, Calc Int	0.0	0.0000	0.00000	0.000000	
Cd 226.502	1	Lin, Calc Int	0.0	38230	0.00000	1.000000	
Cd 228.802	1	Lin, Calc Int	0.0	4265	0.00000	1.000000	
Ce 413.380	1	Lin, Calc Int	0.0	1887	0.00000	1.000000	
Ce 413.764	1	Lin, Calc Int	0.0	1857	0.00000	1.000000	
Ce 418.660	1	Lin, Calc Int	0.0	3729	0.00000	1.000000	
Co 228.616	1	Lin, Calc Int	0.0	42980	0.00000	1.000000	
Co 230.786	1	Lin, Calc Int	0.0	1075	0.00000	1.000000	
Co 238.892	1	Lin, Calc Int	0.0	1636	0.00000	1.000000	
Cr 205.560	1	Lin, Calc Int	0.0	276.7	0.00000	1.000000	
Cr 267.716	1	Lin, Calc Int	0.0	29150	0.00000	1.000000	
Cr 283.563	1	Lin, Calc Int	-0.0	4184	0.00000	1.000000	
Cu 224.700	1	Lin, Calc Int	0.0	772.6	0.00000	1.000000	
Cu 324.752	1	Lin, Calc Int	0.0	11160	0.00000	1.000000	
Cu 327.393	1	Lin, Calc Int	0.0	68920	0.00000	1.000000	
Fe 238.204	1	Lin, Calc Int	0.0	3871	0.00000	1.000000	
Fe 239.562	1	Lin, Calc Int	0.0	2990	0.00000	1.000000	
Fe 259.939	1	Lin, Calc Int	-0.0	6547	0.00000	1.000000	
Fe 273.955	1	Lin, Calc Int	0.0	943.9	0.00000	1.000000	
K 766.490	1	Lin, Calc Int	0.0	578.3	0.00000	1.000000	
Li 610.362	1	Lin, Calc Int	0.0	6684	0.00000	1.000000	
Li 670.784	1	Lin, Calc Int	0.0	52750	0.00000	1.000000	
Mg 279.077	1	Lin, Calc Int	0.0	894.8	0.00000	1.000000	
Mg 280.271	1	Lin, Calc Int	0.0	136800	0.00000	1.000000	
Mg 285.213	1	Lin, Calc Int	0.0	4309	0.00000	1.000000	
Mn 257.610	1	Lin, Calc Int	0.0	29320	0.00000	1.000000	
Mn 259.372	1	Lin, Calc Int	0.0	42480	0.00000	1.000000	
Mn 260.568	1	Lin, Calc Int	0.0	19240	0.00000	1.000000	
Mo 202.031	1	Lin, Calc Int	0.0	366.4	0.00000	1.000000	
Mo 203.845	1	Lin, Calc Int	0.0	209.6	0.00000	1.000000	
Mo 204.597	1	Lin, Calc Int	0.0	8102	0.00000	1.000000	
Na 588.995	1	Lin, Calc Int	-0.0	5182	0.00000	1.000000	
Na 589.592	1	Lin, Calc Int	0.0	5283	0.00000	1.000000	
Ni 221.648	1	Lin, Calc Int	0.0	306.6	0.00000	1.000000	
Ni 231.604	1	Lin, Calc Int	0.0	14530	0.00000	1.000000	

Ni 232.003	1	Lin, Calc Int	0.0	471.4	0.00000	1.000000
Pb 217.000	1	Lin, Calc Int	0.0	88.27	0.00000	1.000000
Pb 220.353	1	Lin, Calc Int	-0.0	2799	0.00000	1.000000
Sb 206.836	1	Lin, Calc Int	-0.0	2267	0.00000	1.000000
Sb 217.582	1	Lin, Calc Int	0.0	64.38	0.00000	1.000000
Se 196.026	1	Lin, Calc Int	0.0	1152	0.00000	1.000000
Se 203.985	1	Lin, Calc Int	0.0	599.3	0.00000	1.000000
Sn 189.927	1	Lin, Calc Int	0.0	1400	0.00000	1.000000
Sn 235.485	1	Lin, Calc Int	0.0	183.5	0.00000	1.000000
Sr 407.771	1	Lin, Calc Int	0.0	210100	0.00000	1.000000
Sr 421.552	1	Lin, Calc Int	0.0	278400	0.00000	1.000000
Sr 460.733	1	Lin, Calc Int	0.0	11820	0.00000	1.000000
Ti 334.940	1	Lin, Calc Int	0.0	23900	0.00000	1.000000
Ti 336.121	1	Lin, Calc Int	-0.0	19690	0.00000	1.000000
Ti 337.279	1	Lin, Calc Int	0.0	8459	0.00000	1.000000
Tl 190.801	1	Lin, Calc Int	0.0	912.0	0.00000	1.000000
Tl 276.787	1	Lin, Calc Int	0.0	4388	0.00000	1.000000
Tl 351.924	1	Lin, Calc Int	0.0	0.0000	0.00000	0.000000
V 290.880	1	Lin, Calc Int	0.0	3672	0.00000	1.000000
V 309.310	1	Lin, Calc Int	0.0	6649	0.00000	1.000000
V 310.230	1	Lin, Calc Int	0.0	158100	0.00000	1.000000
Zn 202.548	1	Lin, Calc Int	-0.0	2275	0.00000	1.000000
Zn 206.200	1	Lin, Calc Int	0.0	930.0	0.00000	1.000000
Zn 213.857	1	Lin, Calc Int	0.0	4147	0.00000	1.000000

Sequence No.: 10 **Autosampler Location: 17**
Sample ID: wash **Date Collected: 11/9/01 9:26:50 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: wash

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	289897.1						5617.83	1.94%
Y 360.073	3773130.9						35826.92	0.95%
Ag 328.068†	9.8	0.00005	mg/L	0.000118	0.00005	mg/L	0.000118	232.10%
Ag 338.289†	23.2	0.00022	mg/L	0.000571	0.00022	mg/L	0.000571	259.84%
Al 308.215†	194.6	0.2613	mg/L	0.00865	0.2613	mg/L	0.00865	3.31%
Al 394.401†	217.4	0.2415	mg/L	0.01132	0.2415	mg/L	0.01132	4.69%
Al 396.153†	792.3	0.2335	mg/L	0.01534	0.2335	mg/L	0.01534	6.57%
As 188.979†	0.4	0.00964	mg/L	0.039375	0.00964	mg/L	0.039375	408.62%
As 193.696†	1.9	0.00204	mg/L	0.001654	0.00204	mg/L	0.001654	80.89%
As 197.197†	0.3	0.00959	mg/L	0.010843	0.00959	mg/L	0.010843	113.02%
B 208.889†	-3.1	-0.01338	mg/L	0.006179	-0.01338	mg/L	0.006179	46.19%
B 249.677†	6.9	0.00441	mg/L	0.003903	0.00441	mg/L	0.003903	88.42%
B 249.772†	3.3	0.00101	mg/L	0.000887	0.00101	mg/L	0.000887	88.11%
Ba 233.527†	1.0	0.00023	mg/L	0.000222	0.00023	mg/L	0.000222	97.54%
Ba 455.403†	-0.5	-0.00001	mg/L	0.000103	-0.00001	mg/L	0.000103	>999.9%
Ba 493.408†	45.9	0.00028	mg/L	0.000323	0.00028	mg/L	0.000323	114.51%
Be 234.861†	-377.9	-0.00098	mg/L	0.000123	-0.00098	mg/L	0.000123	12.56%
Be 313.042†	8.1	0.00010	mg/L	0.000042	0.00010	mg/L	0.000042	42.45%
Be 313.107†	8.1	0.00010	mg/L	0.000042	0.00010	mg/L	0.000042	42.45%
Ca 315.887†	876.1	0.2576	mg/L	0.01312	0.2576	mg/L	0.01312	5.09%
Ca 317.933†	811.5	0.2333	mg/L	0.01918	0.2333	mg/L	0.01918	8.22%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	0.6	0.00002	mg/L	0.000053	0.00002	mg/L	0.000053	348.03%
Cd 228.802†	-3.0	-0.00069	mg/L	0.000338	-0.00069	mg/L	0.000338	48.81%
Ce 413.380†	-13.5	-0.00715	mg/L	0.002121	-0.00715	mg/L	0.002121	29.68%
Ce 413.764†	-20.4	-0.01099	mg/L	0.000785	-0.01099	mg/L	0.000785	7.14%
Ce 418.660†	5.2	0.00140	mg/L	0.011644	0.00140	mg/L	0.011644	830.45%
Co 228.616†	15.7	0.00036	mg/L	0.000389	0.00036	mg/L	0.000389	106.95%
Co 230.786†	1.6	0.00147	mg/L	0.001311	0.00147	mg/L	0.001311	89.08%
Co 238.892†	0.9	0.00058	mg/L	0.000411	0.00058	mg/L	0.000411	71.20%
Cr 205.560†	0.3	0.00114	mg/L	0.003127	0.00114	mg/L	0.003127	274.50%
Cr 267.716†	0.1	0.00000	mg/L	0.000083	0.00000	mg/L	0.000083	>999.9%
Cr 283.563†	2.1	0.00050	mg/L	0.000754	0.00050	mg/L	0.000754	150.21%
Cu 224.700†	3.8	0.00494	mg/L	0.002560	0.00494	mg/L	0.002560	51.81%

Cu 324.752†	-29.5	-0.00265 mg/L	0.000376	-0.00265 mg/L	0.000376	14.20%
Cu 327.393†	-158.0	-0.00229 mg/L	0.000381	-0.00229 mg/L	0.000381	16.61%
Fe 238.204†	925.6	0.2391 mg/L	0.01383	0.2391 mg/L	0.01383	5.78%
Fe 239.562†	716.8	0.2397 mg/L	0.01472	0.2397 mg/L	0.01472	6.14%
Fe 259.939†	1572.0	0.2401 mg/L	0.01360	0.2401 mg/L	0.01360	5.66%
Fe 273.955†	247.3	0.2620 mg/L	0.01007	0.2620 mg/L	0.01007	3.84%
K 766.490†	233.2	0.4032 mg/L	0.01175	0.4032 mg/L	0.01175	2.91%
Li 610.362†	-19.8	-0.00296 mg/L	0.015071	-0.00296 mg/L	0.015071	508.56%
Li 670.784†	49.2	0.00093 mg/L	0.002432	0.00093 mg/L	0.002432	260.64%
Mg 279.077†	219.6	0.2455 mg/L	0.02083	0.2455 mg/L	0.02083	8.49%
Mg 280.271†	33996.7	0.2486 mg/L	0.02081	0.2486 mg/L	0.02081	8.37%
Mg 285.213†	1075.4	0.2496 mg/L	0.01362	0.2496 mg/L	0.01362	5.45%
Mn 257.610†	-10.4	-0.00036 mg/L	0.000089	-0.00036 mg/L	0.000089	24.87%
Mn 259.372†	1.3	-0.00022 mg/L	0.000205	-0.00022 mg/L	0.000205	91.87%
Mn 260.568†	-3.2	-0.00017 mg/L	0.000126	-0.00017 mg/L	0.000126	75.97%
Mo 202.031†	-1.3	-0.00345 mg/L	0.003458	-0.00345 mg/L	0.003458	100.17%
Mo 203.845†	-0.2	-0.00080 mg/L	0.002616	-0.00080 mg/L	0.002616	326.43%
Mo 204.597†	7.2	0.00089 mg/L	0.000185	0.00089 mg/L	0.000185	20.69%
Na 588.995†	4370.1	0.8433 mg/L	0.02397	0.8433 mg/L	0.02397	2.84%
Na 589.592†	4484.0	0.8488 mg/L	0.02590	0.8488 mg/L	0.02590	3.05%
Ni 221.648†	-0.5	-0.00147 mg/L	0.003149	-0.00147 mg/L	0.003149	214.14%
Ni 231.604†	-1.0	-0.00007 mg/L	0.000077	-0.00007 mg/L	0.000077	108.33%
Ni 232.003†	4.2	0.00884 mg/L	0.001408	0.00884 mg/L	0.001408	15.92%
Pb 217.000†	0.5	0.00607 mg/L	0.019996	0.00607 mg/L	0.019996	329.67%
Pb 220.353†	5.6	0.00200 mg/L	0.000795	0.00200 mg/L	0.000795	39.82%
Sb 206.836†	-1.9	-0.00085 mg/L	0.000913	-0.00085 mg/L	0.000913	107.61%
Sb 217.582†	-0.1	-0.00098 mg/L	0.011546	-0.00098 mg/L	0.011546	>999.9%
Se 196.026†	1.4	0.00122 mg/L	0.001929	0.00122 mg/L	0.001929	158.14%
Se 203.985†	3.0	0.00493 mg/L	0.005218	0.00493 mg/L	0.005218	105.77%
Sn 189.927†	1.5	0.00107 mg/L	0.000846	0.00107 mg/L	0.000846	79.38%
Sn 235.485†	-2.0	-0.01117 mg/L	0.005945	-0.01117 mg/L	0.005945	53.24%
Sr 407.771†	-22.3	-0.00011 mg/L	0.000044	-0.00011 mg/L	0.000044	41.66%
Sr 421.552†	-16.4	-0.00006 mg/L	0.000195	-0.00006 mg/L	0.000195	331.76%
Sr 460.733†	-47.0	-0.00397 mg/L	0.002216	-0.00397 mg/L	0.002216	55.81%
Ti 334.940†	3.8	0.00016 mg/L	0.000034	0.00016 mg/L	0.000034	20.96%
Ti 336.121†	6.5	0.00033 mg/L	0.000246	0.00033 mg/L	0.000246	74.94%
Ti 337.279†	-17.1	-0.00202 mg/L	0.000584	-0.00202 mg/L	0.000584	28.93%
Tl 190.801†	3.3	0.00359 mg/L	0.001592	0.00359 mg/L	0.001592	44.30%
Tl 276.787†	43.8	0.00997 mg/L	0.001545	0.00997 mg/L	0.001545	15.50%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	-21.3	-0.00581 mg/L	0.001239	-0.00581 mg/L	0.001239	21.33%
V 309.310†	2.8	0.00042 mg/L	0.002039	0.00042 mg/L	0.002039	488.71%
V 310.230†	171.1	0.00108 mg/L	0.001009	0.00108 mg/L	0.001009	93.27%
Zn 202.548†	0.4	0.00012 mg/L	0.001108	0.00012 mg/L	0.001108	955.64%
Zn 206.200†	1.8	0.00191 mg/L	0.000948	0.00191 mg/L	0.000948	49.69%
Zn 213.857†	3.0	0.00070 mg/L	0.000333	0.00070 mg/L	0.000333	47.54%

Sequence No.: 11
Sample ID: BLANK
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/9/01 9:31:22 AM

Sample Prep Volume:
Data Type: Original

Mean Data: BLANK

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	285792.3						3641.42	1.27%
Y 360.073	3742008.4						27367.98	0.73%
Ag 328.068†	-30.1	-0.00016	mg/L	0.000158	-0.00016	mg/L	0.000158	100.61%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	-20.3	-0.00019	mg/L	0.000085	-0.00019	mg/L	0.000085	44.05%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215†	33.8	0.04539	mg/L	0.006304	0.04539	mg/L	0.006304	13.89%
QC value within limits for Al 308.215 Recovery = Not calculated								
Al 394.401†	24.8	0.02752	mg/L	0.008143	0.02752	mg/L	0.008143	29.59%
QC value within limits for Al 394.401 Recovery = Not calculated								
Al 396.153†	80.4	0.02364	mg/L	0.003311	0.02364	mg/L	0.003311	14.00%
QC value within limits for Al 396.153 Recovery = Not calculated								

As 188.979†	0.5	0.01068 mg/L	0.022996	0.01068 mg/L	0.022996	215.33%
QC value within limits for As 188.979 Recovery = Not calculated						
As 193.696†	1.8	0.00197 mg/L	0.001564	0.00197 mg/L	0.001564	79.61%
QC value within limits for As 193.696 Recovery = Not calculated						
As 197.197†	0.1	0.00378 mg/L	0.013974	0.00378 mg/L	0.013974	369.62%
QC value within limits for As 197.197 Recovery = Not calculated						
B 208.889†	-3.1	-0.01355 mg/L	0.008838	-0.01355 mg/L	0.008838	65.23%
QC value within limits for B 208.889 Recovery = Not calculated						
B 249.677†	4.1	0.00266 mg/L	0.003148	0.00266 mg/L	0.003148	118.47%
QC value within limits for B 249.677 Recovery = Not calculated						
B 249.772†	2.7	0.00082 mg/L	0.001217	0.00082 mg/L	0.001217	148.16%
QC value within limits for B 249.772 Recovery = Not calculated						
Ba 233.527†	0.8	0.00018 mg/L	0.000231	0.00018 mg/L	0.000231	129.94%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Ba 455.403†	-3.0	-0.00003 mg/L	0.000109	-0.00003 mg/L	0.000109	335.11%
QC value within limits for Ba 455.403 Recovery = Not calculated						
Ba 493.408†	25.6	0.00016 mg/L	0.000105	0.00016 mg/L	0.000105	66.73%
QC value within limits for Ba 493.408 Recovery = Not calculated						
Be 234.861†	-11.2	-0.00003 mg/L	0.000034	-0.00003 mg/L	0.000034	115.89%
QC value within limits for Be 234.861 Recovery = Not calculated						
Be 313.042†	10.3	0.00012 mg/L	0.000010	0.00012 mg/L	0.000010	8.07%
QC value within limits for Be 313.042 Recovery = Not calculated						
Be 313.107†	10.3	0.00012 mg/L	0.000010	0.00012 mg/L	0.000010	8.07%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.887†	118.2	0.03477 mg/L	0.006908	0.03477 mg/L	0.006908	19.87%
QC value within limits for Ca 315.887 Recovery = Not calculated						
Ca 317.933†	109.8	0.03157 mg/L	0.004773	0.03157 mg/L	0.004773	15.12%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 214.440†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
QC value within limits for Cd 214.440 Recovery = Not calculated						
Cd 226.502†	-1.6	-0.00004 mg/L	0.000061	-0.00004 mg/L	0.000061	142.15%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Cd 228.802†	-2.4	-0.00056 mg/L	0.000240	-0.00056 mg/L	0.000240	43.32%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Ce 413.380†	2.3	0.00120 mg/L	0.005836	0.00120 mg/L	0.005836	484.94%
QC value within limits for Ce 413.380 Recovery = Not calculated						
Ce 413.764†	-4.6	-0.00249 mg/L	0.004505	-0.00249 mg/L	0.004505	181.03%
QC value within limits for Ce 413.764 Recovery = Not calculated						
Ce 418.660†	-25.5	-0.00684 mg/L	0.006021	-0.00684 mg/L	0.006021	88.09%
QC value within limits for Ce 418.660 Recovery = Not calculated						
Co 228.616†	4.5	0.00010 mg/L	0.000088	0.00010 mg/L	0.000088	84.10%
QC value within limits for Co 228.616 Recovery = Not calculated						
Co 230.786†	1.1	0.00101 mg/L	0.000516	0.00101 mg/L	0.000516	51.19%
QC value within limits for Co 230.786 Recovery = Not calculated						
Co 238.892†	0.6	0.00035 mg/L	0.001100	0.00035 mg/L	0.001100	315.29%
QC value within limits for Co 238.892 Recovery = Not calculated						
Cr 205.560†	0.1	0.00025 mg/L	0.000373	0.00025 mg/L	0.000373	151.01%
QC value within limits for Cr 205.560 Recovery = Not calculated						
Cr 267.716†	5.9	0.00020 mg/L	0.000145	0.00020 mg/L	0.000145	71.97%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cr 283.563†	0.2	0.00005 mg/L	0.000480	0.00005 mg/L	0.000480	930.12%
QC value within limits for Cr 283.563 Recovery = Not calculated						
Cu 224.700†	2.7	0.00349 mg/L	0.003770	0.00349 mg/L	0.003770	108.09%
QC value within limits for Cu 224.700 Recovery = Not calculated						
Cu 324.752†	-7.6	-0.00068 mg/L	0.000587	-0.00068 mg/L	0.000587	86.78%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Cu 327.393†	-51.7	-0.00075 mg/L	0.000053	-0.00075 mg/L	0.000053	7.05%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	99.3	0.02566 mg/L	0.006069	0.02566 mg/L	0.006069	23.65%
QC value within limits for Fe 238.204 Recovery = Not calculated						
Fe 239.562†	78.0	0.02608 mg/L	0.005741	0.02608 mg/L	0.005741	22.02%
QC value within limits for Fe 239.562 Recovery = Not calculated						
Fe 259.939†	165.5	0.02527 mg/L	0.005655	0.02527 mg/L	0.005655	22.37%
QC value within limits for Fe 259.939 Recovery = Not calculated						
Fe 273.955†	26.3	0.02790 mg/L	0.006142	0.02790 mg/L	0.006142	22.01%
QC value within limits for Fe 273.955 Recovery = Not calculated						
K 766.490†	299.8	0.5184 mg/L	0.01063	0.5184 mg/L	0.01063	2.05%
QC value within limits for K 766.490 Recovery = Not calculated						
Li 610.362†	23.7	0.00355 mg/L	0.006561	0.00355 mg/L	0.006561	184.96%
QC value within limits for Li 610.362 Recovery = Not calculated						

Li 670.784†	153.1	0.00290 mg/L	0.000655	0.00290 mg/L	0.000655	22.55%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	18.3	0.02041 mg/L	0.001671	0.02041 mg/L	0.001671	8.19%
QC value within limits for Mg 279.077 Recovery = Not calculated						
Mg 280.271†	4045.5	0.02958 mg/L	0.007015	0.02958 mg/L	0.007015	23.71%
QC value within limits for Mg 280.271 Recovery = Not calculated						
Mg 285.213†	117.8	0.02733 mg/L	0.005954	0.02733 mg/L	0.005954	21.78%
QC value within limits for Mg 285.213 Recovery = Not calculated						
Mn 257.610†	-6.3	-0.00021 mg/L	0.000062	-0.00021 mg/L	0.000062	28.97%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mn 259.372†	-0.8	-0.00005 mg/L	0.000224	-0.00005 mg/L	0.000224	442.30%
QC value within limits for Mn 259.372 Recovery = Not calculated						
Mn 260.568†	0.2	0.00001 mg/L	0.000030	0.00001 mg/L	0.000030	253.15%
QC value within limits for Mn 260.568 Recovery = Not calculated						
Mo 202.031†	0.2	0.00063 mg/L	0.004974	0.00063 mg/L	0.004974	790.57%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Mo 203.845†	0.7	0.00352 mg/L	0.019665	0.00352 mg/L	0.019665	559.19%
QC value within limits for Mo 203.845 Recovery = Not calculated						
Mo 204.597†	8.0	0.00098 mg/L	0.000189	0.00098 mg/L	0.000189	19.21%
QC value within limits for Mo 204.597 Recovery = Not calculated						
Na 588.995†	2304.0	0.4446 mg/L	0.02732	0.4446 mg/L	0.02732	6.15%
QC value within limits for Na 588.995 Recovery = Not calculated						
Na 589.592†	2284.7	0.4325 mg/L	0.00571	0.4325 mg/L	0.00571	1.32%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 221.648†	0.5	0.00175 mg/L	0.002018	0.00175 mg/L	0.002018	115.29%
QC value within limits for Ni 221.648 Recovery = Not calculated						
Ni 231.604†	1.7	0.00012 mg/L	0.000122	0.00012 mg/L	0.000122	104.45%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Ni 232.003†	3.3	0.00695 mg/L	0.006005	0.00695 mg/L	0.006005	86.34%
QC value within limits for Ni 232.003 Recovery = Not calculated						
Pb 217.000†	-1.2	-0.01360 mg/L	0.012396	-0.01360 mg/L	0.012396	91.14%
QC value within limits for Pb 217.000 Recovery = Not calculated						
Pb 220.353†	7.9	0.00282 mg/L	0.000517	0.00282 mg/L	0.000517	18.35%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	-1.0	-0.00044 mg/L	0.000357	-0.00044 mg/L	0.000357	81.85%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Sb 217.582†	-0.2	-0.00362 mg/L	0.002001	-0.00362 mg/L	0.002001	55.31%
QC value within limits for Sb 217.582 Recovery = Not calculated						
Se 196.026†	3.7	0.00319 mg/L	0.002980	0.00319 mg/L	0.002980	93.37%
QC value within limits for Se 196.026 Recovery = Not calculated						
Se 203.985†	2.1	0.00345 mg/L	0.001995	0.00345 mg/L	0.001995	57.80%
QC value within limits for Se 203.985 Recovery = Not calculated						
Sn 189.927†	1.2	0.00086 mg/L	0.001375	0.00086 mg/L	0.001375	160.37%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sn 235.485†	-5.6	-0.03062 mg/L	0.004992	-0.03062 mg/L	0.004992	16.30%
QC value within limits for Sn 235.485 Recovery = Not calculated						
Sr 407.771†	21.5	0.00010 mg/L	0.000088	0.00010 mg/L	0.000088	86.58%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Sr 421.552†	45.9	0.00017 mg/L	0.000066	0.00017 mg/L	0.000066	40.24%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Sr 460.733†	49.5	0.00419 mg/L	0.003305	0.00419 mg/L	0.003305	78.91%
QC value within limits for Sr 460.733 Recovery = Not calculated						
Ti 334.940†	3.6	0.00015 mg/L	0.000043	0.00015 mg/L	0.000043	28.18%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Ti 336.121†	1.6	0.00008 mg/L	0.000349	0.00008 mg/L	0.000349	440.58%
QC value within limits for Ti 336.121 Recovery = Not calculated						
Ti 337.279†	-14.5	-0.00171 mg/L	0.000204	-0.00171 mg/L	0.000204	11.92%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	0.8	0.00085 mg/L	0.000338	0.00085 mg/L	0.000338	39.68%
QC value within limits for Tl 190.801 Recovery = Not calculated						
Tl 276.787†	8.7	0.00198 mg/L	0.001265	0.00198 mg/L	0.001265	63.92%
QC value within limits for Tl 276.787 Recovery = Not calculated						
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	-18.2	-0.00495 mg/L	0.001304	-0.00495 mg/L	0.001304	26.36%
QC value within limits for V 290.880 Recovery = Not calculated						
V 309.310†	0.9	0.00014 mg/L	0.000515	0.00014 mg/L	0.000515	372.56%
QC value within limits for V 309.310 Recovery = Not calculated						
V 310.230†	175.1	0.00111 mg/L	0.001081	0.00111 mg/L	0.001081	97.57%
QC value within limits for V 310.230 Recovery = Not calculated						

Zn 202.548†	3.5	0.00149 mg/L	0.000745	0.00149 mg/L	0.000745	49.97%
QC value within limits for Zn 202.548 Recovery = Not calculated						
Zn 206.200†	2.2	0.00235 mg/L	0.000797	0.00235 mg/L	0.000797	33.86%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zn 213.857†	4.6	0.00110 mg/L	0.000481	0.00110 mg/L	0.000481	43.79%
QC value within limits for Zn 213.857 Recovery = Not calculated						

All analytes passed QC.

Sequence No.: 12 **Autosampler Location: 2**
Sample ID: LCM1 **Date Collected: 11/9/01 9:35:50 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: LCM1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	284631.0						2136.69	0.75%
Y 360.073	3739341.5						51525.21	1.38%
Ag 328.068†	28255.8	0.1474	mg/L	0.00209	0.1474	mg/L	0.00209	1.41%
Ag 338.289†	15561.4	0.1474	mg/L	0.00310	0.1474	mg/L	0.00310	2.10%
Al 308.215†	756.3	1.015	mg/L	0.0071	1.015	mg/L	0.0071	0.70%
QC value within limits for Al 308.215 Recovery = 101.55%								
Al 394.401†	904.2	1.004	mg/L	0.0065	1.004	mg/L	0.0065	0.64%
QC value within limits for Al 394.401 Recovery = 100.45%								
Al 396.153†	3460.2	1.018	mg/L	0.0179	1.018	mg/L	0.0179	1.76%
QC value within limits for Al 396.153 Recovery = 101.76%								
As 188.979†	91.3	2.005	mg/L	0.0345	2.005	mg/L	0.0345	1.72%
QC value within limits for As 188.979 Recovery = 100.25%								
As 193.696†	1843.6	1.983	mg/L	0.0268	1.983	mg/L	0.0268	1.35%
QC value within limits for As 193.696 Recovery = 99.15%								
As 197.197†	54.4	1.996	mg/L	0.0414	1.996	mg/L	0.0414	2.08%
QC value within limits for As 197.197 Recovery = 99.80%								
B 208.889†	208.1	0.9044	mg/L	0.01204	0.9044	mg/L	0.01204	1.33%
QC value within limits for B 208.889 Recovery = 90.44%								
B 249.677†	1401.6	0.8997	mg/L	0.01090	0.8997	mg/L	0.01090	1.21%
QC value less than the lower limit for B 249.677 Recovery = 89.97%								
B 249.772†	2927.2	0.9026	mg/L	0.00679	0.9026	mg/L	0.00679	0.75%
QC value within limits for B 249.772 Recovery = 90.26%								
Ba 233.527†	4209.5	0.9576	mg/L	0.02144	0.9576	mg/L	0.02144	2.24%
QC value within limits for Ba 233.527 Recovery = 95.76%								
Ba 455.403†	92297.2	0.9890	mg/L	0.00685	0.9890	mg/L	0.00685	0.69%
QC value within limits for Ba 455.403 Recovery = 98.90%								
Ba 493.408†	156694.2	0.9619	mg/L	0.00738	0.9619	mg/L	0.00738	0.77%
QC value within limits for Ba 493.408 Recovery = 96.19%								
Be 234.861†	402435.8	1.044	mg/L	0.0229	1.044	mg/L	0.0229	2.19%
QC value within limits for Be 234.861 Recovery = 104.38%								
Be 313.042†	81230.5	0.9817	mg/L	0.00523	0.9817	mg/L	0.00523	0.53%
QC value within limits for Be 313.042 Recovery = 98.17%								
Be 313.107†	81230.5	0.9817	mg/L	0.00523	0.9817	mg/L	0.00523	0.53%
QC value within limits for Be 313.107 Recovery = 98.17%								
Ca 315.887†	3673.1	1.080	mg/L	0.0179	1.080	mg/L	0.0179	1.66%
QC value within limits for Ca 315.887 Recovery = 108.02%								
Ca 317.933†	3392.1	0.9750	mg/L	0.01324	0.9750	mg/L	0.01324	1.36%
QC value within limits for Ca 317.933 Recovery = 97.50%								
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
QC value less than the lower limit for Cd 214.440 Recovery = 0.00%								
Cd 226.502†	36227.5	0.9476	mg/L	0.01599	0.9476	mg/L	0.01599	1.69%
QC value within limits for Cd 226.502 Recovery = 94.76%								
Cd 228.802†	4050.2	0.9496	mg/L	0.01953	0.9496	mg/L	0.01953	2.06%
QC value within limits for Cd 228.802 Recovery = 94.96%								
Ce 413.380†	1853.7	0.9825	mg/L	0.03287	0.9825	mg/L	0.03287	3.35%
QC value within limits for Ce 413.380 Recovery = 98.25%								
Ce 413.764†	1811.1	0.9753	mg/L	0.02363	0.9753	mg/L	0.02363	2.42%
QC value within limits for Ce 413.764 Recovery = 97.53%								
Ce 418.660†	3606.8	0.9671	mg/L	0.03733	0.9671	mg/L	0.03733	3.86%
QC value within limits for Ce 418.660 Recovery = 96.71%								
Co 228.616†	41662.2	0.9693	mg/L	0.01997	0.9693	mg/L	0.01997	2.06%

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   QC value within limits for Co 228.616  Recovery = 96.93%
Co 230.786†            1043.8      0.9710 mg/L       0.00810      0.9710 mg/L       0.00810   0.83%
   QC value within limits for Co 230.786  Recovery = 97.10%
Co 238.892†            1581.3      0.9664 mg/L       0.00461      0.9664 mg/L       0.00461   0.48%
   QC value within limits for Co 238.892  Recovery = 96.64%
Cr 205.560†             265.3      0.9590 mg/L       0.00511      0.9590 mg/L       0.00511   0.53%
   QC value within limits for Cr 205.560  Recovery = 95.90%
Cr 267.716†           27995.9      0.9603 mg/L       0.01780      0.9603 mg/L       0.01780   1.85%
   QC value within limits for Cr 267.716  Recovery = 96.03%
Cr 283.563†            4068.8      0.9724 mg/L       0.01756      0.9724 mg/L       0.01756   1.81%
   QC value within limits for Cr 283.563  Recovery = 97.24%
Cu 224.700†             712.7      0.9224 mg/L       0.00869      0.9224 mg/L       0.00869   0.94%
   QC value within limits for Cu 224.700  Recovery = 92.24%
Cu 324.752†           10366.4      0.9291 mg/L       0.02802      0.9291 mg/L       0.02802   3.02%
   QC value within limits for Cu 324.752  Recovery = 92.91%
Cu 327.393†           64624.5      0.9377 mg/L       0.02102      0.9377 mg/L       0.02102   2.24%
   QC value within limits for Cu 327.393  Recovery = 93.77%
Fe 238.204†            3894.2       1.006 mg/L        0.0203       1.006 mg/L        0.0203   2.01%
   QC value within limits for Fe 238.204  Recovery = 100.61%
Fe 239.562†            3009.2       1.006 mg/L        0.0191       1.006 mg/L        0.0191   1.90%
   QC value within limits for Fe 239.562  Recovery = 100.65%
Fe 259.939†            6608.2       1.009 mg/L        0.0228       1.009 mg/L        0.0228   2.26%
   QC value within limits for Fe 259.939  Recovery = 100.93%
Fe 273.955†            1048.8       1.111 mg/L        0.0073       1.111 mg/L        0.0073   0.65%
   QC value greater than the upper limit for Fe 273.955  Recovery = 111.12%
K 766.490†             3200.9       5.535 mg/L        0.1396       5.535 mg/L        0.1396   2.52%
   QC value greater than the upper limit for K 766.490  Recovery = 110.70%
Li 610.362†            6607.1      0.9884 mg/L       0.02190      0.9884 mg/L       0.02190   2.22%
   QC value within limits for Li 610.362  Recovery = 98.84%
Li 670.784†           51307.7      0.9727 mg/L       0.02739      0.9727 mg/L       0.02739   2.82%
   QC value within limits for Li 670.784  Recovery = 97.27%
Mg 279.077†             930.2       1.040 mg/L        0.0100       1.040 mg/L        0.0100   0.96%
   QC value within limits for Mg 279.077  Recovery = 103.96%
Mg 280.271†          140395.8       1.027 mg/L        0.0080       1.027 mg/L        0.0080   0.78%
   QC value within limits for Mg 280.271  Recovery = 102.67%
Mg 285.213†            4396.7       1.020 mg/L        0.0234       1.020 mg/L        0.0234   2.29%
   QC value within limits for Mg 285.213  Recovery = 102.05%
Mn 257.610†           28232.3      0.9629 mg/L       0.02036      0.9629 mg/L       0.02036   2.11%
   QC value within limits for Mn 257.610  Recovery = 96.29%
Mn 259.372†           41028.8      0.9606 mg/L       0.02089      0.9606 mg/L       0.02089   2.18%
   QC value within limits for Mn 259.372  Recovery = 96.06%
Mn 260.568†           18599.9      0.9667 mg/L       0.02023      0.9667 mg/L       0.02023   2.09%
   QC value within limits for Mn 260.568  Recovery = 96.67%
Mo 202.031†             315.8      0.8619 mg/L       0.00820      0.8619 mg/L       0.00820   0.95%
   QC value less than the lower limit for Mo 202.031  Recovery = 86.19%
Mo 203.845†             180.6      0.8616 mg/L       0.01620      0.8616 mg/L       0.01620   1.88%
   QC value less than the lower limit for Mo 203.845  Recovery = 86.16%
Mo 204.597†            6967.8      0.8600 mg/L       0.01773      0.8600 mg/L       0.01773   2.06%
   QC value less than the lower limit for Mo 204.597  Recovery = 86.00%
Na 588.995†            6644.7       1.282 mg/L        0.0189       1.282 mg/L        0.0189   1.48%
Na 589.592†            6858.1       1.298 mg/L        0.0157       1.298 mg/L        0.0157   1.21%
Ni 221.648†             295.8      0.9647 mg/L       0.00463      0.9647 mg/L       0.00463   0.48%
   QC value within limits for Ni 221.648  Recovery = 96.47%
Ni 231.604†           14660.1       1.009 mg/L        0.0154       1.009 mg/L        0.0154   1.53%
   QC value within limits for Ni 231.604  Recovery = 100.88%
Ni 232.003†             473.8       1.005 mg/L        0.0007       1.005 mg/L        0.0007   0.07%
   QC value within limits for Ni 232.003  Recovery = 100.50%
Pb 217.000†             174.4       1.976 mg/L        0.0289       1.976 mg/L        0.0289   1.46%
   QC value within limits for Pb 217.000  Recovery = 98.80%
Pb 220.353†            5665.9       2.024 mg/L        0.0320       2.024 mg/L        0.0320   1.58%
   QC value within limits for Pb 220.353  Recovery = 101.22%
Sb 206.836†            4097.0       1.808 mg/L        0.0170       1.808 mg/L        0.0170   0.94%
   QC value within limits for Sb 206.836  Recovery = 90.38%
Sb 217.582†             114.9       1.785 mg/L        0.0363       1.785 mg/L        0.0363   2.03%
   QC value less than the lower limit for Sb 217.582  Recovery = 89.24%
Se 196.026†            1206.3       1.047 mg/L        0.0164       1.047 mg/L        0.0164   1.57%
   QC value within limits for Se 196.026  Recovery = 104.69%
Se 203.985†             637.2       1.063 mg/L        0.0125       1.063 mg/L        0.0125   1.18%
   QC value within limits for Se 203.985  Recovery = 106.32%
Sn 189.927†            6077.9       4.340 mg/L        0.0887       4.340 mg/L        0.0887   2.04%
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   QC value less than the lower limit for Sn 189.927  Recovery = 86.80%
Sn 235.485†            819.7       4.466 mg/L        0.0253       4.466 mg/L        0.0253   0.57%
   QC value less than the lower limit for Sn 235.485  Recovery = 89.33%
Sr 407.771†         206488.8       0.9826 mg/L       0.00577      0.9826 mg/L       0.00577   0.59%
   QC value within limits for Sr 407.771  Recovery = 98.26%
Sr 421.552†         273875.3       0.9836 mg/L       0.00619      0.9836 mg/L       0.00619   0.63%
   QC value within limits for Sr 421.552  Recovery = 98.36%
Sr 460.733†          11326.3       0.9579 mg/L       0.01678      0.9579 mg/L       0.01678   1.75%
   QC value within limits for Sr 460.733  Recovery = 95.79%
Ti 334.940†          20717.4       0.8667 mg/L       0.02040      0.8667 mg/L       0.02040   2.35%
   QC value less than the lower limit for Ti 334.940  Recovery = 86.67%
Ti 336.121†          17134.0       0.8704 mg/L       0.02129      0.8704 mg/L       0.02129   2.45%
   QC value less than the lower limit for Ti 336.121  Recovery = 87.04%
Ti 337.279†           7311.7       0.8644 mg/L       0.02131      0.8644 mg/L       0.02131   2.47%
   QC value less than the lower limit for Ti 337.279  Recovery = 86.44%
Tl 190.801†           4367.9       4.789 mg/L        0.0412       4.789 mg/L        0.0412    0.86%
   QC value within limits for Tl 190.801  Recovery = 95.79%
Tl 276.787†          20132.6       4.589 mg/L        0.0902       4.589 mg/L        0.0902    1.97%
   QC value within limits for Tl 276.787  Recovery = 91.77%
Tl 351.924†              0.0       0.00000 mg/L      0.000000     0.00000 mg/L      0.000000  0.00%
   QC value less than the lower limit for Tl 351.924  Recovery = 0.00%
V 290.880†            3557.9       0.9690 mg/L       0.02762      0.9690 mg/L       0.02762   2.85%
   QC value within limits for V 290.880  Recovery = 96.90%
V 309.310†            6461.9       0.9719 mg/L       0.02232      0.9719 mg/L       0.02232   2.30%
   QC value within limits for V 309.310  Recovery = 97.19%
V 310.230†          153569.7       0.9716 mg/L       0.02216      0.9716 mg/L       0.02216   2.28%
   QC value within limits for V 310.230  Recovery = 97.16%
Zn 202.548†           2169.7       0.9467 mg/L       0.00265      0.9467 mg/L       0.00265   0.28%
   QC value within limits for Zn 202.548  Recovery = 94.67%
Zn 206.200†            879.1       0.9452 mg/L       0.00707      0.9452 mg/L       0.00707   0.75%
   QC value within limits for Zn 206.200  Recovery = 94.52%
Zn 213.857†           3919.0       0.9396 mg/L       0.02057      0.9396 mg/L       0.02057   2.19%
   QC value within limits for Zn 213.857  Recovery = 93.96%
QC Failed.  Continue with analysis.
```

Sequence No.: 13 **Autosampler Location: 3**
Sample ID: LCM2 **Date Collected: 11/9/01 9:40:25 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: LCM2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	282662.7						3893.12	1.38%
Y 360.073	3717164.8						12342.82	0.33%
Ag 328.068†	9378.1	0.04893	mg/L	0.001007	0.04893	mg/L	0.001007	2.06%
QC value within limits for Ag 328.068 Recovery = 97.85%								
Ag 338.289†	5166.2	0.04895	mg/L	0.000779	0.04895	mg/L	0.000779	1.59%
QC value within limits for Ag 338.289 Recovery = 97.89%								
Al 308.215†	30.4	0.04082	mg/L	0.000919	0.04082	mg/L	0.000919	2.25%
Al 394.401†	18.5	0.02054	mg/L	0.006500	0.02054	mg/L	0.006500	31.64%
Al 396.153†	64.2	0.01841	mg/L	0.001563	0.01841	mg/L	0.001563	8.49%
As 188.979†	0.6	0.01427	mg/L	0.031136	0.01427	mg/L	0.031136	218.26%
As 193.696†	-0.3	-0.00037	mg/L	0.002231	-0.00037	mg/L	0.002231	604.52%
As 197.197†	0.2	0.00635	mg/L	0.010300	0.00635	mg/L	0.010300	162.29%
B 208.889†	-0.0	-0.00011	mg/L	0.013864	-0.00011	mg/L	0.013864	>999.9%
B 249.677†	22.1	0.01417	mg/L	0.001703	0.01417	mg/L	0.001703	12.01%
B 249.772†	39.6	0.01220	mg/L	0.001640	0.01220	mg/L	0.001640	13.44%
Ba 233.527†	3.8	0.00087	mg/L	0.000125	0.00087	mg/L	0.000125	14.45%
Ba 455.403†	51.5	0.00055	mg/L	0.000126	0.00055	mg/L	0.000126	22.82%
Ba 493.408†	35.3	0.00022	mg/L	0.000111	0.00022	mg/L	0.000111	51.34%
Be 234.861†	79.9	0.00021	mg/L	0.000027	0.00021	mg/L	0.000027	13.17%
Be 313.042†	41.9	0.00051	mg/L	0.000082	0.00051	mg/L	0.000082	16.20%
Be 313.107†	41.9	0.00051	mg/L	0.000082	0.00051	mg/L	0.000082	16.20%
Ca 315.887†	156.6	0.04605	mg/L	0.003245	0.04605	mg/L	0.003245	7.05%
Ca 317.933†	131.3	0.03774	mg/L	0.001267	0.03774	mg/L	0.001267	3.36%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%

Cd 226.502†	12.3	0.00032 mg/L	0.000099	0.00032 mg/L	0.000099	30.88%
Cd 228.802†	-1.6	-0.00037 mg/L	0.000307	-0.00037 mg/L	0.000307	83.91%
Ce 413.380†	0.6	0.00030 mg/L	0.006947	0.00030 mg/L	0.006947	>999.9%
Ce 413.764†	-20.4	-0.01101 mg/L	0.002403	-0.01101 mg/L	0.002403	21.84%
Ce 418.660†	4.0	0.00107 mg/L	0.002155	0.00107 mg/L	0.002155	200.75%
Co 228.616†	23.1	0.00054 mg/L	0.000271	0.00054 mg/L	0.000271	50.47%
Co 230.786†	3.2	0.00302 mg/L	0.000739	0.00302 mg/L	0.000739	24.52%
Co 238.892†	2.5	0.00153 mg/L	0.000350	0.00153 mg/L	0.000350	22.81%
Cr 205.560†	0.3	0.00112 mg/L	0.003018	0.00112 mg/L	0.003018	269.69%
Cr 267.716†	10.8	0.00037 mg/L	0.000030	0.00037 mg/L	0.000030	8.04%
Cr 283.563†	0.1	0.00003 mg/L	0.001071	0.00003 mg/L	0.001071	>999.9%
Cu 224.700†	4.3	0.00555 mg/L	0.003773	0.00555 mg/L	0.003773	67.92%
Cu 324.752†	13.0	0.00117 mg/L	0.000400	0.00117 mg/L	0.000400	34.27%
Cu 327.393†	127.6	0.00185 mg/L	0.000196	0.00185 mg/L	0.000196	10.59%
Fe 238.204†	55.9	0.01444 mg/L	0.001471	0.01444 mg/L	0.001471	10.18%
Fe 239.562†	44.3	0.01481 mg/L	0.001509	0.01481 mg/L	0.001509	10.19%
Fe 259.939†	90.2	0.01377 mg/L	0.001744	0.01377 mg/L	0.001744	12.66%
Fe 273.955†	13.8	0.01458 mg/L	0.002382	0.01458 mg/L	0.002382	16.34%
K 766.490†	205.1	0.3547 mg/L	0.02277	0.3547 mg/L	0.02277	6.42%
Li 610.362†	22.7	0.00340 mg/L	0.007429	0.00340 mg/L	0.007429	218.54%
Li 670.784†	236.7	0.00449 mg/L	0.000967	0.00449 mg/L	0.000967	21.55%
Mg 279.077†	15.5	0.01737 mg/L	0.007748	0.01737 mg/L	0.007748	44.61%
Mg 280.271†	2315.2	0.01693 mg/L	0.001740	0.01693 mg/L	0.001740	10.28%
Mg 285.213†	75.1	0.01742 mg/L	0.001960	0.01742 mg/L	0.001960	11.25%
Mn 257.610†	8.6	0.00029 mg/L	0.000121	0.00029 mg/L	0.000121	41.34%
Mn 259.372†	18.1	0.00037 mg/L	0.000162	0.00037 mg/L	0.000162	43.64%
Mn 260.568†	9.1	0.00048 mg/L	0.000163	0.00048 mg/L	0.000163	34.36%
Mo 202.031†	2.9	0.00792 mg/L	0.003330	0.00792 mg/L	0.003330	42.07%
Mo 203.845†	0.4	0.00197 mg/L	0.015984	0.00197 mg/L	0.015984	809.37%
Mo 204.597†	20.9	0.00258 mg/L	0.000514	0.00258 mg/L	0.000514	19.93%
Na 588.995†	1282.3	0.2474 mg/L	0.00742	0.2474 mg/L	0.00742	3.00%
Na 589.592†	1375.4	0.2603 mg/L	0.00532	0.2603 mg/L	0.00532	2.04%
Ni 221.648†	0.5	0.00162 mg/L	0.000381	0.00162 mg/L	0.000381	23.54%
Ni 231.604†	8.0	0.00055 mg/L	0.000183	0.00055 mg/L	0.000183	33.05%
Ni 232.003†	2.7	0.00578 mg/L	0.002560	0.00578 mg/L	0.002560	44.32%
Pb 217.000†	1.3	0.01503 mg/L	0.032412	0.01503 mg/L	0.032412	215.62%
Pb 220.353†	9.9	0.00354 mg/L	0.000126	0.00354 mg/L	0.000126	3.54%
Sb 206.836†	-1.9	-0.00086 mg/L	0.001346	-0.00086 mg/L	0.001346	157.23%
Sb 217.582†	0.1	0.00098 mg/L	0.023623	0.00098 mg/L	0.023623	>999.9%
Se 196.026†	7.8	0.00676 mg/L	0.000594	0.00676 mg/L	0.000594	8.78%
Se 203.985†	1.9	0.00319 mg/L	0.005048	0.00319 mg/L	0.005048	158.45%
Sn 189.927†	15.6	0.01112 mg/L	0.001385	0.01112 mg/L	0.001385	12.45%
Sn 235.485†	-0.4	-0.00212 mg/L	0.006393	-0.00212 mg/L	0.006393	302.07%
Sr 407.771†	108.2	0.00051 mg/L	0.000030	0.00051 mg/L	0.000030	5.77%
Sr 421.552†	168.0	0.00060 mg/L	0.000226	0.00060 mg/L	0.000226	37.44%
Sr 460.733†	24.8	0.00209 mg/L	0.006564	0.00209 mg/L	0.006564	313.45%
Ti 334.940†	16.2	0.00068 mg/L	0.000040	0.00068 mg/L	0.000040	5.97%
Ti 336.121†	12.2	0.00062 mg/L	0.001133	0.00062 mg/L	0.001133	182.52%
Ti 337.279†	-9.8	-0.00115 mg/L	0.000732	-0.00115 mg/L	0.000732	63.35%
Tl 190.801†	1.3	0.00145 mg/L	0.001992	0.00145 mg/L	0.001992	137.79%
Tl 276.787†	15.5	0.00353 mg/L	0.000637	0.00353 mg/L	0.000637	18.02%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	-20.3	-0.00553 mg/L	0.001064	-0.00553 mg/L	0.001064	19.23%
V 309.310†	0.4	0.00006 mg/L	0.001616	0.00006 mg/L	0.001616	>999.9%
V 310.230†	58.9	0.00037 mg/L	0.000792	0.00037 mg/L	0.000792	212.53%
Zn 202.548†	15.5	0.00676 mg/L	0.000652	0.00676 mg/L	0.000652	9.64%
Zn 206.200†	7.4	0.00797 mg/L	0.000386	0.00797 mg/L	0.000386	4.85%
Zn 213.857†	31.6	0.00760 mg/L	0.000403	0.00760 mg/L	0.000403	5.31%

All analytes passed QC.

Sequence No.: 14
Sample ID: Hi AQC
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 11/9/01 9:44:53 AM

Sample Prep Volume:
Data Type: Original

Mean Data: Hi AQC

	Mean Corrected	Calib	Sample

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 371.029	279167.8						3297.76	1.18%
Y 360.073	3587695.8						42907.79	1.20%
Ag 328.068†	-177.1	-0.00092	mg/L	0.000122	-0.00092	mg/L	0.000122	13.20%
Ag 338.289†	135.4	0.00128	mg/L	0.000125	0.00128	mg/L	0.000125	9.74%
Al 308.215†	71359.0	95.82	mg/L	0.939	95.82	mg/L	0.939	0.98%
QC value within limits for Al 308.215 Recovery = 95.82%								
Al 394.401†	87811.9	97.55	mg/L	0.980	97.55	mg/L	0.980	1.01%
Al 396.153†	325678.4	96.07	mg/L	0.828	96.07	mg/L	0.828	0.86%
As 188.979†	-0.3	-0.00570	mg/L	0.011726	-0.00570	mg/L	0.011726	205.70%
As 193.696†	6.6	0.00707	mg/L	0.000661	0.00707	mg/L	0.000661	9.35%
As 197.197†	0.3	0.01245	mg/L	0.032000	0.01245	mg/L	0.032000	257.10%
B 208.889†	0.2	0.00084	mg/L	0.008744	0.00084	mg/L	0.008744	>999.9%
B 249.677†	9.1	0.00584	mg/L	0.003180	0.00584	mg/L	0.003180	54.46%
B 249.772†	528.8	0.1631	mg/L	0.00112	0.1631	mg/L	0.00112	0.69%
Ba 233.527†	5.0	0.00114	mg/L	0.000381	0.00114	mg/L	0.000381	33.29%
Ba 455.403†	24.7	0.00026	mg/L	0.000132	0.00026	mg/L	0.000132	49.87%
Ba 493.408†	129.1	0.00079	mg/L	0.000390	0.00079	mg/L	0.000390	49.14%
Be 234.861†	-150752.3	-0.3910	mg/L	0.00734	-0.3910	mg/L	0.00734	1.88%
Be 313.042†	40.4	0.00049	mg/L	0.000060	0.00049	mg/L	0.000060	12.27%
Be 313.107†	40.4	0.00049	mg/L	0.000060	0.00049	mg/L	0.000060	12.27%
Ca 315.887†	347898.5	102.3	mg/L	1.14	102.3	mg/L	1.14	1.11%
QC value within limits for Ca 315.887 Recovery = 102.31%								
Ca 317.933†	319163.3	91.74	mg/L	0.962	91.74	mg/L	0.962	1.05%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	75.2	0.00197	mg/L	0.000117	0.00197	mg/L	0.000117	5.96%
Cd 228.802†	-1.3	-0.00031	mg/L	0.000081	-0.00031	mg/L	0.000081	26.19%
Ce 413.380†	37.7	0.01998	mg/L	0.003285	0.01998	mg/L	0.003285	16.44%
Ce 413.764†	-9.8	-0.00529	mg/L	0.006785	-0.00529	mg/L	0.006785	128.35%
Ce 418.660†	34.9	0.00936	mg/L	0.016596	0.00936	mg/L	0.016596	177.25%
Co 228.616†	-55.2	-0.00128	mg/L	0.000093	-0.00128	mg/L	0.000093	7.25%
Co 230.786†	-0.9	-0.00083	mg/L	0.000430	-0.00083	mg/L	0.000430	51.61%
Co 238.892†	-136.5	-0.08339	mg/L	0.002996	-0.08339	mg/L	0.002996	3.59%
Cr 205.560†	-0.5	-0.00164	mg/L	0.000265	-0.00164	mg/L	0.000265	16.19%
Cr 267.716†	-32.2	-0.00110	mg/L	0.000085	-0.00110	mg/L	0.000085	7.71%
Cr 283.563†	84.1	0.02011	mg/L	0.001174	0.02011	mg/L	0.001174	5.84%
Cu 224.700†	8.0	0.01035	mg/L	0.001973	0.01035	mg/L	0.001973	19.07%
Cu 324.752†	-35.5	-0.00318	mg/L	0.000080	-0.00318	mg/L	0.000080	2.51%
Cu 327.393†	-167.7	-0.00243	mg/L	0.000248	-0.00243	mg/L	0.000248	10.18%
Fe 238.204†	357637.6	92.40	mg/L	0.924	92.40	mg/L	0.924	1.00%
Fe 239.562†	277001.8	92.65	mg/L	0.971	92.65	mg/L	0.971	1.05%
Fe 259.939†	611111.7	93.34	mg/L	0.859	93.34	mg/L	0.859	0.92%
Fe 273.955†	97163.3	102.9	mg/L	0.97	102.9	mg/L	0.97	0.95%
QC value within limits for Fe 273.955 Recovery = 102.94%								
K 766.490†	60304.3	104.3	mg/L	0.86	104.3	mg/L	0.86	0.83%
QC value within limits for K 766.490 Recovery = 104.27%								
Li 610.362†	-296.8	-0.04440	mg/L	0.008231	-0.04440	mg/L	0.008231	18.54%
Li 670.784†	84.5	0.00160	mg/L	0.000098	0.00160	mg/L	0.000098	6.13%
Mg 279.077†	52512.8	58.68	mg/L	0.221	58.68	mg/L	0.221	0.38%
QC value within limits for Mg 279.077 Recovery = 97.81%								
Mg 280.271†	7496551.1	54.82	mg/L	1.113	54.82	mg/L	1.113	2.03%
Mg 285.213†	232413.4	53.94	mg/L	0.534	53.94	mg/L	0.534	0.99%
Mn 257.610†	66.8	0.00228	mg/L	0.000109	0.00228	mg/L	0.000109	4.79%
Mn 259.372†	4461.7	-0.00087	mg/L	0.000382	-0.00087	mg/L	0.000382	44.02%
Mn 260.568†	10.8	0.00056	mg/L	0.000147	0.00056	mg/L	0.000147	26.20%
Mo 202.031†	-5.7	-0.01559	mg/L	0.005599	-0.01559	mg/L	0.005599	35.92%
Mo 203.845†	5.1	0.02438	mg/L	0.009605	0.02438	mg/L	0.009605	39.39%
Mo 204.597†	26.0	0.00321	mg/L	0.000278	0.00321	mg/L	0.000278	8.66%
Na 588.995†	474893.0	91.64	mg/L	0.878	91.64	mg/L	0.878	0.96%
Na 589.592†	509095.3	96.36	mg/L	0.842	96.36	mg/L	0.842	0.87%
QC value within limits for Na 589.592 Recovery = 96.36%								
Ni 221.648†	0.1	0.00040	mg/L	0.000428	0.00040	mg/L	0.000428	105.97%
Ni 231.604†	27.2	0.00187	mg/L	0.000347	0.00187	mg/L	0.000347	18.54%
Ni 232.003†	3.3	0.00691	mg/L	0.005454	0.00691	mg/L	0.005454	78.88%
Pb 217.000†	-0.4	-0.00436	mg/L	0.022455	-0.00436	mg/L	0.022455	514.76%
Pb 220.353†	8.0	0.00287	mg/L	0.001253	0.00287	mg/L	0.001253	43.58%
Sb 206.836†	8.7	0.00383	mg/L	0.000477	0.00383	mg/L	0.000477	12.48%
Sb 217.582†	-0.2	-0.00293	mg/L	0.011505	-0.00293	mg/L	0.011505	392.10%
Se 196.026†	-24.5	-0.02128	mg/L	0.001994	-0.02128	mg/L	0.001994	9.37%
Se 203.985†	9.1	0.01518	mg/L	0.006144	0.01518	mg/L	0.006144	40.48%

Sn 189.927†	-5.0	-0.00359 mg/L	0.002585	-0.00359 mg/L	0.002585	71.96%
Sn 235.485†	1584.6	8.634 mg/L	0.2506	8.634 mg/L	0.2506	2.90%
Sr 407.771†	587.0	0.00279 mg/L	0.000078	0.00279 mg/L	0.000078	2.78%
Sr 421.552†	922.1	0.00331 mg/L	0.000073	0.00331 mg/L	0.000073	2.21%
Sr 460.733†	75.2	0.00636 mg/L	0.003362	0.00636 mg/L	0.003362	52.85%
Ti 334.940†	26.7	0.00111 mg/L	0.000083	0.00111 mg/L	0.000083	7.42%
Ti 336.121†	28.1	0.00143 mg/L	0.001466	0.00143 mg/L	0.001466	102.51%
Ti 337.279†	-0.3	-0.00003 mg/L	0.000452	-0.00003 mg/L	0.000452	>999.9%
Tl 190.801†	1.7	0.00186 mg/L	0.002910	0.00186 mg/L	0.002910	156.12%
Tl 276.787†	7337.4	1.672 mg/L	0.0373	1.672 mg/L	0.0373	2.23%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	1.5	0.00042 mg/L	0.001158	0.00042 mg/L	0.001158	275.77%
V 309.310†	-249.6	-0.03754 mg/L	0.004952	-0.03754 mg/L	0.004952	13.19%
V 310.230†	505.0	0.00319 mg/L	0.001003	0.00319 mg/L	0.001003	31.38%
Zn 202.548†	19.5	0.00480 mg/L	0.000478	0.00480 mg/L	0.000478	9.96%
Zn 206.200†	-2.6	-0.00278 mg/L	0.000792	-0.00278 mg/L	0.000792	28.47%
Zn 213.857†	67.3	0.00717 mg/L	0.000361	0.00717 mg/L	0.000361	5.03%

All analytes passed QC.

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Sequence No.: 15 **Autosampler Location: 18**
Sample ID: wash **Date Collected: 11/9/01 9:49:40 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: wash

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	287471.9						5488.19	1.91%
Y 360.073	3767235.1						29150.19	0.77%
Ag 328.068†	-27.6	-0.00014	mg/L	0.000175	-0.00014	mg/L	0.000175	121.66%
Ag 338.289†	30.3	0.00029	mg/L	0.000147	0.00029	mg/L	0.000147	51.44%
Al 308.215†	31.6	0.04238	mg/L	0.009045	0.04238	mg/L	0.009045	21.34%
Al 394.401†	14.7	0.01629	mg/L	0.008702	0.01629	mg/L	0.008702	53.41%
Al 396.153†	67.5	0.01971	mg/L	0.009015	0.01971	mg/L	0.009015	45.74%
As 188.979†	0.1	0.00178	mg/L	0.035905	0.00178	mg/L	0.035905	>999.9%
As 193.696†	2.8	0.00301	mg/L	0.002418	0.00301	mg/L	0.002418	80.28%
As 197.197†	0.2	0.00700	mg/L	0.015764	0.00700	mg/L	0.015764	225.20%
B 208.889†	-2.8	-0.01211	mg/L	0.005149	-0.01211	mg/L	0.005149	42.51%
B 249.677†	7.8	0.00503	mg/L	0.001902	0.00503	mg/L	0.001902	37.86%
B 249.772†	11.1	0.00343	mg/L	0.000635	0.00343	mg/L	0.000635	18.51%
Ba 233.527†	1.1	0.00026	mg/L	0.000290	0.00026	mg/L	0.000290	112.19%
Ba 455.403†	4.6	0.00005	mg/L	0.000075	0.00005	mg/L	0.000075	151.83%
Ba 493.408†	-7.1	-0.00004	mg/L	0.000075	-0.00004	mg/L	0.000075	172.20%
Be 234.861†	-16.9	-0.00004	mg/L	0.000028	-0.00004	mg/L	0.000028	63.92%
Be 313.042†	10.0	0.00012	mg/L	0.000014	0.00012	mg/L	0.000014	11.82%
Be 313.107†	10.0	0.00012	mg/L	0.000014	0.00012	mg/L	0.000014	11.82%
Ca 315.887†	62.0	0.01825	mg/L	0.010498	0.01825	mg/L	0.010498	57.54%
Ca 317.933†	55.4	0.01593	mg/L	0.013143	0.01593	mg/L	0.013143	82.50%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	-3.5	-0.00009	mg/L	0.000086	-0.00009	mg/L	0.000086	92.76%
Cd 228.802†	-2.2	-0.00053	mg/L	0.000342	-0.00053	mg/L	0.000342	65.00%
Ce 413.380†	-4.7	-0.00251	mg/L	0.007260	-0.00251	mg/L	0.007260	289.11%
Ce 413.764†	-6.2	-0.00335	mg/L	0.002819	-0.00335	mg/L	0.002819	84.24%
Ce 418.660†	23.3	0.00624	mg/L	0.015503	0.00624	mg/L	0.015503	248.43%
Co 228.616†	-1.1	-0.00003	mg/L	0.000115	-0.00003	mg/L	0.000115	433.96%
Co 230.786†	1.7	0.00161	mg/L	0.001290	0.00161	mg/L	0.001290	79.93%
Co 238.892†	-0.4	-0.00025	mg/L	0.001042	-0.00025	mg/L	0.001042	413.38%
Cr 205.560†	-0.4	-0.00129	mg/L	0.002484	-0.00129	mg/L	0.002484	191.89%
Cr 267.716†	0.1	0.00000	mg/L	0.000061	0.00000	mg/L	0.000061	>999.9%
Cr 283.563†	1.7	0.00042	mg/L	0.000263	0.00042	mg/L	0.000263	63.36%
Cu 224.700†	2.3	0.00293	mg/L	0.002241	0.00293	mg/L	0.002241	76.43%
Cu 324.752†	-43.2	-0.00388	mg/L	0.000323	-0.00388	mg/L	0.000323	8.33%
Cu 327.393†	-200.0	-0.00290	mg/L	0.000474	-0.00290	mg/L	0.000474	16.32%
Fe 238.204†	90.6	0.02340	mg/L	0.008705	0.02340	mg/L	0.008705	37.21%
Fe 239.562†	68.9	0.02304	mg/L	0.008231	0.02304	mg/L	0.008231	35.72%
Fe 259.939†	149.5	0.02284	mg/L	0.008576	0.02284	mg/L	0.008576	37.55%
Fe 273.955†	22.2	0.02355	mg/L	0.010053	0.02355	mg/L	0.010053	42.69%

K 766.490†	185.9	0.3214	mg/L	0.02432	0.3214	mg/L	0.02432	7.57%
Li 610.362†	-10.4	-0.00155	mg/L	0.021888	-0.00155	mg/L	0.021888	>999.9%
Li 670.784†	23.0	0.00044	mg/L	0.000677	0.00044	mg/L	0.000677	155.16%
Mg 279.077†	9.8	0.01096	mg/L	0.005833	0.01096	mg/L	0.005833	53.20%
Mg 280.271†	2502.5	0.01830	mg/L	0.006644	0.01830	mg/L	0.006644	36.30%
Mg 285.213†	70.5	0.01637	mg/L	0.006012	0.01637	mg/L	0.006012	36.73%
Mn 257.610†	-11.5	-0.00039	mg/L	0.000090	-0.00039	mg/L	0.000090	22.77%
Mn 259.372†	-6.6	-0.00020	mg/L	0.000055	-0.00020	mg/L	0.000055	28.17%
Mn 260.568†	-5.8	-0.00030	mg/L	0.000101	-0.00030	mg/L	0.000101	33.77%
Mo 202.031†	1.3	0.00342	mg/L	0.003029	0.00342	mg/L	0.003029	88.66%
Mo 203.845†	-1.2	-0.00577	mg/L	0.007289	-0.00577	mg/L	0.007289	126.32%
Mo 204.597†	5.6	0.00069	mg/L	0.000178	0.00069	mg/L	0.000178	25.85%
Na 588.995†	1483.0	0.2862	mg/L	0.01349	0.2862	mg/L	0.01349	4.71%
Na 589.592†	1453.2	0.2751	mg/L	0.01602	0.2751	mg/L	0.01602	5.82%
Ni 221.648†	0.9	0.00305	mg/L	0.001557	0.00305	mg/L	0.001557	51.05%
Ni 231.604†	0.1	0.00001	mg/L	0.000362	0.00001	mg/L	0.000362	>999.9%
Ni 232.003†	5.1	0.01080	mg/L	0.002298	0.01080	mg/L	0.002298	21.27%
Pb 217.000†	-0.1	-0.00080	mg/L	0.018767	-0.00080	mg/L	0.018767	>999.9%
Pb 220.353†	0.4	0.00015	mg/L	0.001316	0.00015	mg/L	0.001316	886.44%
Sb 206.836†	-2.7	-0.00119	mg/L	0.000987	-0.00119	mg/L	0.000987	82.78%
Sb 217.582†	-0.4	-0.00679	mg/L	0.009992	-0.00679	mg/L	0.009992	147.16%
Se 196.026†	2.9	0.00256	mg/L	0.001220	0.00256	mg/L	0.001220	47.73%
Se 203.985†	2.9	0.00489	mg/L	0.002372	0.00489	mg/L	0.002372	48.55%
Sn 189.927†	0.7	0.00052	mg/L	0.000670	0.00052	mg/L	0.000670	129.65%
Sn 235.485†	-5.0	-0.02736	mg/L	0.015309	-0.02736	mg/L	0.015309	55.96%
Sr 407.771†	-34.3	-0.00016	mg/L	0.000042	-0.00016	mg/L	0.000042	25.75%
Sr 421.552†	-14.1	-0.00005	mg/L	0.000234	-0.00005	mg/L	0.000234	460.64%
Sr 460.733†	-30.2	-0.00255	mg/L	0.007332	-0.00255	mg/L	0.007332	287.33%
Ti 334.940†	2.1	0.00009	mg/L	0.000126	0.00009	mg/L	0.000126	146.26%
Ti 336.121†	7.2	0.00037	mg/L	0.000111	0.00037	mg/L	0.000111	30.27%
Ti 337.279†	-15.6	-0.00185	mg/L	0.000240	-0.00185	mg/L	0.000240	13.02%
Tl 190.801†	-0.1	-0.00016	mg/L	0.000608	-0.00016	mg/L	0.000608	380.23%
Tl 276.787†	-8.6	-0.00196	mg/L	0.003812	-0.00196	mg/L	0.003812	194.29%
Tl 351.924†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
V 290.880†	-18.4	-0.00502	mg/L	0.000508	-0.00502	mg/L	0.000508	10.12%
V 309.310†	-10.4	-0.00156	mg/L	0.002845	-0.00156	mg/L	0.002845	182.13%
V 310.230†	-198.1	-0.00125	mg/L	0.000533	-0.00125	mg/L	0.000533	42.55%
Zn 202.548†	1.2	0.00051	mg/L	0.000238	0.00051	mg/L	0.000238	46.63%
Zn 206.200†	0.1	0.00016	mg/L	0.001233	0.00016	mg/L	0.001233	765.41%
Zn 213.857†	-2.2	-0.00053	mg/L	0.000806	-0.00053	mg/L	0.000806	152.82%

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Sequence No.: 16
Sample ID: RLC
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 11/9/01 9:54:13 AM

Sample Prep Volume:
Data Type: Original

Mean Data: RLC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	286253.6						4231.80	1.48%
Y 360.073	3735828.4						9881.45	0.26%
Ag 328.068†	374.2	0.00195	mg/L	0.000018	0.00195	mg/L	0.000018	0.90%
Ag 338.289†	230.0	0.00218	mg/L	0.000452	0.00218	mg/L	0.000452	20.75%
Al 308.215†	74.7	0.1003	mg/L	0.00309	0.1003	mg/L	0.00309	3.08%
Al 394.401†	73.4	0.08150	mg/L	0.003689	0.08150	mg/L	0.003689	4.53%
Al 396.153†	281.8	0.08388	mg/L	0.006732	0.08388	mg/L	0.006732	8.03%
As 188.979†	1.1	0.02374	mg/L	0.014870	0.02374	mg/L	0.014870	62.62%
As 193.696†	12.7	0.01370	mg/L	0.001176	0.01370	mg/L	0.001176	8.58%
As 197.197†	-0.0	-0.00141	mg/L	0.015357	-0.00141	mg/L	0.015357	>999.9%
B 208.889†	11.6	0.05061	mg/L	0.016482	0.05061	mg/L	0.016482	32.57%
B 249.677†	86.4	0.05546	mg/L	0.003347	0.05546	mg/L	0.003347	6.04%
B 249.772†	171.7	0.05295	mg/L	0.001557	0.05295	mg/L	0.001557	2.94%
Ba 233.527†	10.9	0.00248	mg/L	0.000474	0.00248	mg/L	0.000474	19.13%
Ba 455.403†	214.4	0.00230	mg/L	0.000099	0.00230	mg/L	0.000099	4.30%
Ba 493.408†	353.3	0.00217	mg/L	0.000187	0.00217	mg/L	0.000187	8.62%
Be 234.861†	372.1	0.00097	mg/L	0.000011	0.00097	mg/L	0.000011	1.15%
Be 313.042†	87.6	0.00106	mg/L	0.000047	0.00106	mg/L	0.000047	4.46%

Be 313.107†	87.6	0.00106 mg/L	0.000047	0.00106 mg/L	0.000047	4.46%
Ca 315.887†	419.7	0.1234 mg/L	0.00491	0.1234 mg/L	0.00491	3.98%
Ca 317.933†	405.1	0.1164 mg/L	0.00505	0.1164 mg/L	0.00505	4.34%
Cd 214.440†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
Cd 226.502†	36.7	0.00096 mg/L	0.000036	0.00096 mg/L	0.000036	3.74%
Cd 228.802†	2.6	0.00060 mg/L	0.000473	0.00060 mg/L	0.000473	78.47%
Ce 413.380†	59.2	0.03136 mg/L	0.000696	0.03136 mg/L	0.000696	2.22%
Ce 413.764†	64.4	0.03466 mg/L	0.007749	0.03466 mg/L	0.007749	22.36%
Ce 418.660†	113.4	0.03041 mg/L	0.005089	0.03041 mg/L	0.005089	16.73%
Co 228.616†	86.5	0.00201 mg/L	0.000212	0.00201 mg/L	0.000212	10.56%
Co 230.786†	3.7	0.00345 mg/L	0.001050	0.00345 mg/L	0.001050	30.41%
Co 238.892†	3.6	0.00221 mg/L	0.001147	0.00221 mg/L	0.001147	51.84%
Cr 205.560†	1.3	0.00483 mg/L	0.001646	0.00483 mg/L	0.001646	34.09%
Cr 267.716†	91.4	0.00314 mg/L	0.000117	0.00314 mg/L	0.000117	3.72%
Cr 283.563†	8.6	0.00205 mg/L	0.000285	0.00205 mg/L	0.000285	13.92%
Cu 224.700†	7.2	0.00928 mg/L	0.002137	0.00928 mg/L	0.002137	23.01%
Cu 324.752†	36.7	0.00329 mg/L	0.000600	0.00329 mg/L	0.000600	18.22%
Cu 327.393†	258.3	0.00375 mg/L	0.000096	0.00375 mg/L	0.000096	2.56%
Fe 238.204†	137.8	0.03561 mg/L	0.002397	0.03561 mg/L	0.002397	6.73%
Fe 239.562†	106.8	0.03572 mg/L	0.002441	0.03572 mg/L	0.002441	6.83%
Fe 259.939†	233.0	0.03558 mg/L	0.002289	0.03558 mg/L	0.002289	6.43%
Fe 273.955†	34.2	0.03624 mg/L	0.002338	0.03624 mg/L	0.002338	6.45%
K 766.490†	763.7	1.321 mg/L	0.0177	1.321 mg/L	0.0177	1.34%
Li 610.362†	226.7	0.03391 mg/L	0.004340	0.03391 mg/L	0.004340	12.80%
Li 670.784†	1404.2	0.02662 mg/L	0.001533	0.02662 mg/L	0.001533	5.76%
Mg 279.077†	18.3	0.02043 mg/L	0.007412	0.02043 mg/L	0.007412	36.28%
Mg 280.271†	4298.5	0.03143 mg/L	0.002461	0.03143 mg/L	0.002461	7.83%
Mg 285.213†	131.3	0.03048 mg/L	0.001479	0.03048 mg/L	0.001479	4.85%
Mn 257.610†	53.3	0.00182 mg/L	0.000024	0.00182 mg/L	0.000024	1.31%
Mn 259.372†	87.0	0.00199 mg/L	0.000190	0.00199 mg/L	0.000190	9.55%
Mn 260.568†	36.9	0.00192 mg/L	0.000071	0.00192 mg/L	0.000071	3.67%
Mo 202.031†	1.3	0.00364 mg/L	0.001900	0.00364 mg/L	0.001900	52.26%
Mo 203.845†	1.0	0.00481 mg/L	0.002928	0.00481 mg/L	0.002928	60.93%
Mo 204.597†	29.6	0.00366 mg/L	0.000072	0.00366 mg/L	0.000072	1.97%
Na 588.995†	3756.3	0.7249 mg/L	0.00484	0.7249 mg/L	0.00484	0.67%
Na 589.592†	3872.2	0.7329 mg/L	0.01398	0.7329 mg/L	0.01398	1.91%
Ni 221.648†	0.9	0.00278 mg/L	0.000218	0.00278 mg/L	0.000218	7.86%
Ni 231.604†	34.8	0.00239 mg/L	0.000469	0.00239 mg/L	0.000469	19.61%
Ni 232.003†	4.6	0.00986 mg/L	0.001478	0.00986 mg/L	0.001478	15.00%
Pb 217.000†	1.8	0.02031 mg/L	0.023109	0.02031 mg/L	0.023109	113.80%
Pb 220.353†	28.7	0.01024 mg/L	0.001207	0.01024 mg/L	0.001207	11.79%
Sb 206.836†	7.1	0.00312 mg/L	0.000377	0.00312 mg/L	0.000377	12.10%
Sb 217.582†	0.4	0.00610 mg/L	0.007314	0.00610 mg/L	0.007314	119.94%
Se 196.026†	39.2	0.03402 mg/L	0.001833	0.03402 mg/L	0.001833	5.39%
Se 203.985†	20.7	0.03460 mg/L	0.004347	0.03460 mg/L	0.004347	12.57%
Sn 189.927†	11.7	0.00835 mg/L	0.001356	0.00835 mg/L	0.001356	16.23%
Sn 235.485†	-7.6	-0.04135 mg/L	0.017638	-0.04135 mg/L	0.017638	42.66%
Sr 407.771†	269.5	0.00128 mg/L	0.000077	0.00128 mg/L	0.000077	6.01%
Sr 421.552†	381.6	0.00137 mg/L	0.000071	0.00137 mg/L	0.000071	5.15%
Sr 460.733†	3.9	0.00033 mg/L	0.006428	0.00033 mg/L	0.006428	>999.9%
Ti 334.940†	59.6	0.00249 mg/L	0.000099	0.00249 mg/L	0.000099	3.95%
Ti 336.121†	48.8	0.00248 mg/L	0.001194	0.00248 mg/L	0.001194	48.20%
Ti 337.279†	8.3	0.00099 mg/L	0.000349	0.00099 mg/L	0.000349	35.42%
Tl 190.801†	8.6	0.00945 mg/L	0.001508	0.00945 mg/L	0.001508	15.95%
Tl 276.787†	38.4	0.00876 mg/L	0.002375	0.00876 mg/L	0.002375	27.12%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	4.9	0.00133 mg/L	0.000503	0.00133 mg/L	0.000503	37.73%
V 309.310†	39.7	0.00598 mg/L	0.000831	0.00598 mg/L	0.000831	13.90%
V 310.230†	982.2	0.00621 mg/L	0.001049	0.00621 mg/L	0.001049	16.89%
Zn 202.548†	114.9	0.05041 mg/L	0.001464	0.05041 mg/L	0.001464	2.91%
Zn 206.200†	45.8	0.04923 mg/L	0.001526	0.04923 mg/L	0.001526	3.10%
Zn 213.857†	207.4	0.04999 mg/L	0.001167	0.04999 mg/L	0.001167	2.33%

Sequence No.: 17
Sample ID: SIC CoV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 19
Date Collected: 11/9/01 9:58:43 AM

Sample Prep Volume:
Data Type: Original

Mean Data: SIC CoV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	287528.0						2992.77	1.04%
Y 360.073	3750048.7						27953.48	0.75%
Ag 328.068†	9.7	0.00005	mg/L	0.000060	0.00005	mg/L	0.000060	117.95%
Ag 338.289†	-4.6	-0.00004	mg/L	0.000347	-0.00004	mg/L	0.000347	803.32%
Al 308.215†	49.5	0.06650	mg/L	0.004828	0.06650	mg/L	0.004828	7.26%
Al 394.401†	51.0	0.05667	mg/L	0.006773	0.05667	mg/L	0.006773	11.95%
Al 396.153†	181.8	0.05328	mg/L	0.004478	0.05328	mg/L	0.004478	8.40%
As 188.979†	-0.7	-0.01512	mg/L	0.012313	-0.01512	mg/L	0.012313	81.44%
As 193.696†	-1.3	-0.00143	mg/L	0.000429	-0.00143	mg/L	0.000429	29.94%
As 197.197†	1.7	0.06230	mg/L	0.040091	0.06230	mg/L	0.040091	64.35%
B 208.889†	-0.2	-0.00099	mg/L	0.009694	-0.00099	mg/L	0.009694	975.20%
B 249.677†	30.3	0.01947	mg/L	0.001556	0.01947	mg/L	0.001556	7.99%
B 249.772†	8.9	0.00275	mg/L	0.000820	0.00275	mg/L	0.000820	29.85%
Ba 233.527†	3.3	0.00074	mg/L	0.000295	0.00074	mg/L	0.000295	39.70%
Ba 455.403†	25.4	0.00027	mg/L	0.000130	0.00027	mg/L	0.000130	47.67%
Ba 493.408†	61.0	0.00037	mg/L	0.000112	0.00037	mg/L	0.000112	29.96%
Be 234.861†	-57.0	-0.00015	mg/L	0.000002	-0.00015	mg/L	0.000002	1.31%
Be 313.042†	18.0	0.00022	mg/L	0.000094	0.00022	mg/L	0.000094	43.05%
Be 313.107†	18.0	0.00022	mg/L	0.000094	0.00022	mg/L	0.000094	43.05%
Ca 315.887†	341.2	0.1004	mg/L	0.00549	0.1004	mg/L	0.00549	5.47%
Ca 317.933†	220.4	0.06334	mg/L	0.002853	0.06334	mg/L	0.002853	4.50%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	-4.6	-0.00012	mg/L	0.000034	-0.00012	mg/L	0.000034	28.67%
Cd 228.802†	-0.7	-0.00017	mg/L	0.000167	-0.00017	mg/L	0.000167	96.59%
Ce 413.380†	6.5	0.00342	mg/L	0.001509	0.00342	mg/L	0.001509	44.09%
Ce 413.764†	-23.9	-0.01287	mg/L	0.004925	-0.01287	mg/L	0.004925	38.25%
Ce 418.660†	-10.1	-0.00272	mg/L	0.014410	-0.00272	mg/L	0.014410	529.64%
Co 228.616†	406031.9	9.447	mg/L	0.0942	9.447	mg/L	0.0942	1.00%
Co 230.786†	10200.4	9.488	mg/L	0.0505	9.488	mg/L	0.0505	0.53%
Co 238.892†	15456.0	9.445	mg/L	0.0568	9.445	mg/L	0.0568	0.60%
Cr 205.560†	0.8	0.00279	mg/L	0.001472	0.00279	mg/L	0.001472	52.78%
Cr 267.716†	0.3	0.00001	mg/L	0.000286	0.00001	mg/L	0.000286	>999.9%
Cr 283.563†	14.2	0.00340	mg/L	0.000171	0.00340	mg/L	0.000171	5.03%
Cu 224.700†	-0.8	-0.00109	mg/L	0.001307	-0.00109	mg/L	0.001307	120.11%
Cu 324.752†	-13.3	-0.00119	mg/L	0.000669	-0.00119	mg/L	0.000669	56.13%
Cu 327.393†	155.3	0.00225	mg/L	0.000116	0.00225	mg/L	0.000116	5.17%
Fe 238.204†	223.1	0.05764	mg/L	0.001301	0.05764	mg/L	0.001301	2.26%
Fe 239.562†	179.3	0.05997	mg/L	0.002433	0.05997	mg/L	0.002433	4.06%
Fe 259.939†	376.8	0.05755	mg/L	0.001927	0.05755	mg/L	0.001927	3.35%
Fe 273.955†	56.1	0.05943	mg/L	0.000816	0.05943	mg/L	0.000816	1.37%
K 766.490†	198.4	0.3431	mg/L	0.02034	0.3431	mg/L	0.02034	5.93%
Li 610.362†	131.4	0.01966	mg/L	0.006914	0.01966	mg/L	0.006914	35.16%
Li 670.784†	5.8	0.00011	mg/L	0.000909	0.00011	mg/L	0.000909	830.50%
Mg 279.077†	32.6	0.03641	mg/L	0.009794	0.03641	mg/L	0.009794	26.90%
Mg 280.271†	7329.9	0.05360	mg/L	0.000722	0.05360	mg/L	0.000722	1.35%
Mg 285.213†	206.8	0.04800	mg/L	0.001039	0.04800	mg/L	0.001039	2.16%
Mn 257.610†	-3.2	-0.00011	mg/L	0.000040	-0.00011	mg/L	0.000040	37.17%
Mn 259.372†	4.9	0.00005	mg/L	0.000063	0.00005	mg/L	0.000063	127.19%
Mn 260.568†	-11.5	-0.00060	mg/L	0.000157	-0.00060	mg/L	0.000157	26.41%
Mo 202.031†	0.3	0.00091	mg/L	0.006113	0.00091	mg/L	0.006113	668.97%
Mo 203.845†	1.9	0.00916	mg/L	0.006428	0.00916	mg/L	0.006428	70.16%
Mo 204.597†	-0.7	-0.00008	mg/L	0.000259	-0.00008	mg/L	0.000259	309.44%
Na 588.995†	1594.3	0.3077	mg/L	0.00736	0.3077	mg/L	0.00736	2.39%
Na 589.592†	1469.2	0.2781	mg/L	0.02006	0.2781	mg/L	0.02006	7.21%
Ni 221.648†	-0.4	-0.00140	mg/L	0.003004	-0.00140	mg/L	0.003004	213.98%
Ni 231.604†	8.0	0.00055	mg/L	0.000260	0.00055	mg/L	0.000260	47.30%
Ni 232.003†	3.3	0.00695	mg/L	0.002794	0.00695	mg/L	0.002794	40.18%
Pb 217.000†	-2.3	-0.02583	mg/L	0.025914	-0.02583	mg/L	0.025914	100.34%
Pb 220.353†	-1.5	-0.00053	mg/L	0.000624	-0.00053	mg/L	0.000624	116.92%
Sb 206.836†	-4.6	-0.00204	mg/L	0.001843	-0.00204	mg/L	0.001843	90.27%
Sb 217.582†	0.4	0.00564	mg/L	0.012350	0.00564	mg/L	0.012350	219.16%
Se 196.026†	1.9	0.00165	mg/L	0.000425	0.00165	mg/L	0.000425	25.79%
Se 203.985†	7.0	0.01175	mg/L	0.003117	0.01175	mg/L	0.003117	26.53%
Sn 189.927†	1.7	0.00121	mg/L	0.001378	0.00121	mg/L	0.001378	114.05%
Sn 235.485†	-6.8	-0.03724	mg/L	0.012373	-0.03724	mg/L	0.012373	33.22%
Sr 407.771†	21.3	0.00010	mg/L	0.000111	0.00010	mg/L	0.000111	110.18%

Sr 421.552†	-18.1	-0.00007 mg/L	0.000061	-0.00007 mg/L	0.000061	93.11%
Sr 460.733†	-56.4	-0.00477 mg/L	0.004385	-0.00477 mg/L	0.004385	91.91%
Ti 334.940†	27.9	0.00117 mg/L	0.000071	0.00117 mg/L	0.000071	6.08%
Ti 336.121†	30.4	0.00154 mg/L	0.000143	0.00154 mg/L	0.000143	9.24%
Ti 337.279†	-5.1	-0.00060 mg/L	0.000374	-0.00060 mg/L	0.000374	62.62%
Tl 190.801†	-4.0	-0.00442 mg/L	0.000187	-0.00442 mg/L	0.000187	4.24%
Tl 276.787†	-63.3	-0.01443 mg/L	0.006106	-0.01443 mg/L	0.006106	42.31%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	35107.8	9.561 mg/L	0.0573	9.561 mg/L	0.0573	0.60%
V 309.310†	63999.1	9.626 mg/L	0.0335	9.626 mg/L	0.0335	0.35%
V 310.230†	1503231.3	9.511 mg/L	0.0615	9.511 mg/L	0.0615	0.65%
Zn 202.548†	19.5	0.00857 mg/L	0.000522	0.00857 mg/L	0.000522	6.09%
Zn 206.200†	7.4	0.00795 mg/L	0.000422	0.00795 mg/L	0.000422	5.30%
Zn 213.857†	27.7	0.00667 mg/L	0.000187	0.00667 mg/L	0.000187	2.81%

Sequence No.: 18
Sample ID: SIC Ce
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 20
Date Collected: 11/9/01 10:03:14 AM
Sample Prep Volume:
Data Type: Original

Mean Data: SIC Ce

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	284511.0						7062.10	2.48%
Y 360.073	3733492.9						24536.35	0.66%
Ag 328.068†	-43.4	-0.00023	mg/L	0.000107	-0.00023	mg/L	0.000107	47.12%
Ag 338.289†	-298.7	-0.00283	mg/L	0.000264	-0.00283	mg/L	0.000264	9.32%
Al 308.215†	33.8	0.04532	mg/L	0.005079	0.04532	mg/L	0.005079	11.21%
Al 394.401†	58.2	0.06467	mg/L	0.025236	0.06467	mg/L	0.025236	39.02%
Al 396.153†	100.7	0.2710	mg/L	0.00429	0.2710	mg/L	0.00429	1.58%
As 188.979†	1.6	0.03524	mg/L	0.016821	0.03524	mg/L	0.016821	47.74%
As 193.696†	0.9	0.00096	mg/L	0.000881	0.00096	mg/L	0.000881	91.92%
As 197.197†	0.6	0.02122	mg/L	0.014016	0.02122	mg/L	0.014016	66.04%
B 208.889†	-1.0	-0.00449	mg/L	0.019707	-0.00449	mg/L	0.019707	438.59%
B 249.677†	10.2	0.00655	mg/L	0.000991	0.00655	mg/L	0.000991	15.12%
B 249.772†	22.2	0.00683	mg/L	0.000759	0.00683	mg/L	0.000759	11.11%
Ba 233.527†	2.3	0.00052	mg/L	0.000331	0.00052	mg/L	0.000331	63.92%
Ba 455.403†	49.8	0.00053	mg/L	0.000371	0.00053	mg/L	0.000371	69.59%
Ba 493.408†	118.4	0.00073	mg/L	0.000341	0.00073	mg/L	0.000341	46.94%
Be 234.861†	-12.6	-0.00003	mg/L	0.000012	-0.00003	mg/L	0.000012	36.99%
Be 313.042†	2.7	0.00003	mg/L	0.000015	0.00003	mg/L	0.000015	46.59%
Be 313.107†	2.7	0.00003	mg/L	0.000015	0.00003	mg/L	0.000015	46.59%
Ca 315.887†	258.0	0.07588	mg/L	0.003346	0.07588	mg/L	0.003346	4.41%
Ca 317.933†	164.9	0.04741	mg/L	0.007152	0.04741	mg/L	0.007152	15.08%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	-4.6	-0.00012	mg/L	0.000108	-0.00012	mg/L	0.000108	88.79%
Cd 228.802†	-2.3	-0.00054	mg/L	0.000225	-0.00054	mg/L	0.000225	41.89%
Ce 413.380†	18511.0	9.811	mg/L	0.0416	9.811	mg/L	0.0416	0.42%
Ce 413.764†	18078.3	9.735	mg/L	0.0656	9.735	mg/L	0.0656	0.67%
Ce 418.660†	36598.5	9.814	mg/L	0.0754	9.814	mg/L	0.0754	0.77%
Co 228.616†	67.2	0.00156	mg/L	0.000266	0.00156	mg/L	0.000266	17.04%
Co 230.786†	4.5	0.00418	mg/L	0.002017	0.00418	mg/L	0.002017	48.24%
Co 238.892†	6.7	0.00412	mg/L	0.000441	0.00412	mg/L	0.000441	10.69%
Cr 205.560†	0.7	0.00243	mg/L	0.001044	0.00243	mg/L	0.001044	42.88%
Cr 267.716†	19.7	0.00068	mg/L	0.000089	0.00068	mg/L	0.000089	13.16%
Cr 283.563†	2.2	0.00053	mg/L	0.000500	0.00053	mg/L	0.000500	93.68%
Cu 224.700†	2.6	0.00336	mg/L	0.002082	0.00336	mg/L	0.002082	61.93%
Cu 324.752†	-11.2	-0.00100	mg/L	0.000356	-0.00100	mg/L	0.000356	35.49%
Cu 327.393†	-38.3	-0.00056	mg/L	0.000326	-0.00056	mg/L	0.000326	58.71%
Fe 238.204†	39.5	0.01022	mg/L	0.000138	0.01022	mg/L	0.000138	1.35%
Fe 239.562†	33.8	0.01130	mg/L	0.000437	0.01130	mg/L	0.000437	3.86%
Fe 259.939†	69.2	0.01057	mg/L	0.000560	0.01057	mg/L	0.000560	5.30%
Fe 273.955†	10.5	0.01117	mg/L	0.000644	0.01117	mg/L	0.000644	5.76%
K 766.490†	161.4	0.2791	mg/L	0.02831	0.2791	mg/L	0.02831	10.14%
Li 610.362†	44.4	0.00665	mg/L	0.017219	0.00665	mg/L	0.017219	258.97%
Li 670.784†	236.2	0.00448	mg/L	0.001972	0.00448	mg/L	0.001972	44.05%
Mg 279.077†	-1.0	-0.00117	mg/L	0.016740	-0.00117	mg/L	0.016740	>999.9%

Mg 280.271†	1250.3	0.00914	mg/L	0.000602	0.00914	mg/L	0.000602	6.59%
Mg 285.213†	45.1	0.01046	mg/L	0.000395	0.01046	mg/L	0.000395	3.78%
Mn 257.610†	-1.5	-0.00005	mg/L	0.000041	-0.00005	mg/L	0.000041	79.45%
Mn 259.372†	7.3	0.00017	mg/L	0.000168	0.00017	mg/L	0.000168	99.70%
Mn 260.568†	1.7	0.00009	mg/L	0.000103	0.00009	mg/L	0.000103	116.74%
Mo 202.031†	-0.6	-0.00155	mg/L	0.004481	-0.00155	mg/L	0.004481	289.78%
Mo 203.845†	-0.7	-0.00324	mg/L	0.009959	-0.00324	mg/L	0.009959	307.67%
Mo 204.597†	3.5	0.00044	mg/L	0.000331	0.00044	mg/L	0.000331	75.64%
Na 588.995†	1306.1	0.2520	mg/L	0.01472	0.2520	mg/L	0.01472	5.84%
Na 589.592†	1207.6	0.2286	mg/L	0.00683	0.2286	mg/L	0.00683	2.99%
Ni 221.648†	-0.4	-0.00116	mg/L	0.003230	-0.00116	mg/L	0.003230	278.38%
Ni 231.604†	7.6	0.00052	mg/L	0.000229	0.00052	mg/L	0.000229	44.08%
Ni 232.003†	2.1	0.00453	mg/L	0.003490	0.00453	mg/L	0.003490	77.08%
Pb 217.000†	1.7	0.01909	mg/L	0.013181	0.01909	mg/L	0.013181	69.06%
Pb 220.353†	2.4	0.00086	mg/L	0.001174	0.00086	mg/L	0.001174	136.68%
Sb 206.836†	-0.6	-0.00027	mg/L	0.001153	-0.00027	mg/L	0.001153	421.77%
Sb 217.582†	-0.7	-0.01106	mg/L	0.015517	-0.01106	mg/L	0.015517	140.35%
Se 196.026†	1.1	0.00092	mg/L	0.001630	0.00092	mg/L	0.001630	176.44%
Se 203.985†	8.7	0.01446	mg/L	0.005069	0.01446	mg/L	0.005069	35.06%
Sn 189.927†	1.1	0.00082	mg/L	0.001628	0.00082	mg/L	0.001628	198.66%
Sn 235.485†	-2.3	-0.01274	mg/L	0.014630	-0.01274	mg/L	0.014630	114.81%
Sr 407.771†	-79.8	-0.00038	mg/L	0.000045	-0.00038	mg/L	0.000045	11.77%
Sr 421.552†	114.8	0.00041	mg/L	0.000191	0.00041	mg/L	0.000191	46.24%
Sr 460.733†	-893.2	-0.07554	mg/L	0.002700	-0.07554	mg/L	0.002700	3.57%
Ti 334.940†	15.3	0.00064	mg/L	0.000046	0.00064	mg/L	0.000046	7.13%
Ti 336.121†	21.2	0.00108	mg/L	0.000411	0.00108	mg/L	0.000411	38.17%
Ti 337.279†	1.6	0.00019	mg/L	0.000355	0.00019	mg/L	0.000355	189.85%
Tl 190.801†	-2.2	-0.00238	mg/L	0.001125	-0.00238	mg/L	0.001125	47.25%
Tl 276.787†	-3.2	-0.00072	mg/L	0.003823	-0.00072	mg/L	0.003823	528.17%
Tl 351.924†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
V 290.880†	10.8	0.00293	mg/L	0.003090	0.00293	mg/L	0.003090	105.41%
V 309.310†	17.6	0.00265	mg/L	0.001351	0.00265	mg/L	0.001351	50.97%
V 310.230†	55.5	0.00035	mg/L	0.000324	0.00035	mg/L	0.000324	92.20%
Zn 202.548†	15.9	0.00682	mg/L	0.001558	0.00682	mg/L	0.001558	22.85%
Zn 206.200†	6.6	0.00711	mg/L	0.000735	0.00711	mg/L	0.000735	10.34%
Zn 213.857†	32.1	0.00761	mg/L	0.000122	0.00761	mg/L	0.000122	1.61%

Sequence No.: 19 **Autosampler Location: 21**
Sample ID: SIC Cr **Date Collected: 11/9/01 10:07:40 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: SIC Cr

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	284637.6						1332.35	0.47%
Y 360.073	3732822.6						20529.75	0.55%
Ag 328.068†	-45.1	-0.00024	mg/L	0.000257	-0.00024	mg/L	0.000257	109.21%
Ag 338.289†	56.9	0.00054	mg/L	0.000462	0.00054	mg/L	0.000462	85.61%
Al 308.215†	20.7	0.02775	mg/L	0.004113	0.02775	mg/L	0.004113	14.82%
Al 394.401†	17.9	0.01992	mg/L	0.000697	0.01992	mg/L	0.000697	3.50%
Al 396.153†	35.5	0.01055	mg/L	0.001363	0.01055	mg/L	0.001363	12.92%
As 188.979†	0.6	0.01423	mg/L	0.022470	0.01423	mg/L	0.022470	157.93%
As 193.696†	-1.7	-0.00182	mg/L	0.002856	-0.00182	mg/L	0.002856	157.13%
As 197.197†	0.5	0.01704	mg/L	0.030404	0.01704	mg/L	0.030404	178.38%
B 208.889†	-0.4	-0.00162	mg/L	0.009417	-0.00162	mg/L	0.009417	579.98%
B 249.677†	14.0	0.00896	mg/L	0.002446	0.00896	mg/L	0.002446	27.31%
B 249.772†	22.4	0.00689	mg/L	0.000594	0.00689	mg/L	0.000594	8.63%
Ba 233.527†	0.4	0.00010	mg/L	0.000111	0.00010	mg/L	0.000111	115.74%
Ba 455.403†	2.4	0.00003	mg/L	0.000041	0.00003	mg/L	0.000041	159.23%
Ba 493.408†	12.0	0.00007	mg/L	0.000341	0.00007	mg/L	0.000341	462.78%
Be 234.861†	20.1	0.00005	mg/L	0.000025	0.00005	mg/L	0.000025	47.52%
Be 313.042†	10.0	0.00012	mg/L	0.000036	0.00012	mg/L	0.000036	29.89%
Be 313.107†	10.0	0.00012	mg/L	0.000036	0.00012	mg/L	0.000036	29.89%
Ca 315.887†	85.3	0.02508	mg/L	0.001763	0.02508	mg/L	0.001763	7.03%
Ca 317.933†	71.4	0.02052	mg/L	0.002792	0.02052	mg/L	0.002792	13.61%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%

Cd 226.502†	-0.3	-0.00001 mg/L	0.000046	-0.00001 mg/L	0.000046	613.03%
Cd 228.802†	-0.7	-0.00016 mg/L	0.000118	-0.00016 mg/L	0.000118	74.31%
Ce 413.380†	1.4	0.00075 mg/L	0.002701	0.00075 mg/L	0.002701	362.07%
Ce 413.764†	6.1	0.00327 mg/L	0.005685	0.00327 mg/L	0.005685	173.80%
Ce 418.660†	26.7	0.00716 mg/L	0.015883	0.00716 mg/L	0.015883	221.89%
Co 228.616†	-104.5	-0.00243 mg/L	0.000382	-0.00243 mg/L	0.000382	15.71%
Co 230.786†	0.7	0.00070 mg/L	0.000819	0.00070 mg/L	0.000819	117.54%
Co 238.892†	0.0	0.00003 mg/L	0.000780	0.00003 mg/L	0.000780	>999.9%
Cr 205.560†	2618.2	9.463 mg/L	0.0730	9.463 mg/L	0.0730	0.77%
Cr 267.716†	278345.7	9.547 mg/L	0.1440	9.547 mg/L	0.1440	1.51%
Cr 283.563†	41225.4	9.852 mg/L	0.0669	9.852 mg/L	0.0669	0.68%
Cu 224.700†	2.0	0.00259 mg/L	0.001407	0.00259 mg/L	0.001407	54.34%
Cu 324.752†	-16.7	-0.00150 mg/L	0.000108	-0.00150 mg/L	0.000108	7.18%
Cu 327.393†	-34.0	-0.00049 mg/L	0.000151	-0.00049 mg/L	0.000151	30.52%
Fe 238.204†	34.3	0.00886 mg/L	0.000224	0.00886 mg/L	0.000224	2.53%
Fe 239.562†	26.1	0.00874 mg/L	0.000897	0.00874 mg/L	0.000897	10.27%
Fe 259.939†	57.9	0.00884 mg/L	0.000084	0.00884 mg/L	0.000084	0.95%
Fe 273.955†	13.3	0.01404 mg/L	0.001344	0.01404 mg/L	0.001344	9.57%
K 766.490†	154.5	0.2671 mg/L	0.00956	0.2671 mg/L	0.00956	3.58%
Li 610.362†	143.8	0.02151 mg/L	0.016491	0.02151 mg/L	0.016491	76.67%
Li 670.784†	61.9	0.00117 mg/L	0.001108	0.00117 mg/L	0.001108	94.35%
Mg 279.077†	-3.4	-0.00376 mg/L	0.006195	-0.00376 mg/L	0.006195	164.93%
Mg 280.271†	501.1	0.00366 mg/L	0.000290	0.00366 mg/L	0.000290	7.92%
Mg 285.213†	18.8	0.00437 mg/L	0.000390	0.00437 mg/L	0.000390	8.93%
Mn 257.610†	-4.2	-0.00014 mg/L	0.000041	-0.00014 mg/L	0.000041	28.57%
Mn 259.372†	-4.0	-0.00011 mg/L	0.000083	-0.00011 mg/L	0.000083	76.37%
Mn 260.568†	-3.1	-0.00016 mg/L	0.000092	-0.00016 mg/L	0.000092	57.03%
Mo 202.031†	-0.1	-0.00022 mg/L	0.004966	-0.00022 mg/L	0.004966	>999.9%
Mo 203.845†	-0.0	-0.00022 mg/L	0.003665	-0.00022 mg/L	0.003665	>999.9%
Mo 204.597†	-1.4	-0.00018 mg/L	0.000084	-0.00018 mg/L	0.000084	47.65%
Na 588.995†	1208.4	0.2332 mg/L	0.01061	0.2332 mg/L	0.01061	4.55%
Na 589.592†	1061.2	0.2009 mg/L	0.01765	0.2009 mg/L	0.01765	8.79%
Ni 221.648†	0.2	0.00051 mg/L	0.002641	0.00051 mg/L	0.002641	518.41%
Ni 231.604†	9.0	0.00062 mg/L	0.000243	0.00062 mg/L	0.000243	39.35%
Ni 232.003†	19.0	0.04040 mg/L	0.002794	0.04040 mg/L	0.002794	6.92%
Pb 217.000†	-1.0	-0.01169 mg/L	0.008829	-0.01169 mg/L	0.008829	75.49%
Pb 220.353†	-1.4	-0.00051 mg/L	0.000574	-0.00051 mg/L	0.000574	112.75%
Sb 206.836†	62.5	0.02758 mg/L	0.000348	0.02758 mg/L	0.000348	1.26%
Sb 217.582†	-0.1	-0.00154 mg/L	0.015799	-0.00154 mg/L	0.015799	>999.9%
Se 196.026†	3.2	0.00281 mg/L	0.001570	0.00281 mg/L	0.001570	55.80%
Se 203.985†	132.1	0.2204 mg/L	0.02563	0.2204 mg/L	0.02563	11.63%
Sn 189.927†	0.3	0.00019 mg/L	0.001137	0.00019 mg/L	0.001137	613.29%
Sn 235.485†	1.0	0.00562 mg/L	0.018894	0.00562 mg/L	0.018894	336.02%
Sr 407.771†	25.6	0.00012 mg/L	0.000029	0.00012 mg/L	0.000029	23.76%
Sr 421.552†	20.5	0.00007 mg/L	0.000019	0.00007 mg/L	0.000019	25.19%
Sr 460.733†	22.5	0.00190 mg/L	0.003403	0.00190 mg/L	0.003403	178.72%
Ti 334.940†	52.0	0.00217 mg/L	0.000119	0.00217 mg/L	0.000119	5.46%
Ti 336.121†	20.9	0.00106 mg/L	0.001324	0.00106 mg/L	0.001324	124.91%
Ti 337.279†	-1.9	-0.00023 mg/L	0.000273	-0.00023 mg/L	0.000273	118.47%
Tl 190.801†	0.8	0.00091 mg/L	0.002585	0.00091 mg/L	0.002585	284.35%
Tl 276.787†	106.8	0.02434 mg/L	0.001532	0.02434 mg/L	0.001532	6.29%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	-7.5	-0.00204 mg/L	0.000159	-0.00204 mg/L	0.000159	7.81%
V 309.310†	2.9	0.00044 mg/L	0.002064	0.00044 mg/L	0.002064	468.68%
V 310.230†	-130.2	-0.00082 mg/L	0.000747	-0.00082 mg/L	0.000747	90.72%
Zn 202.548†	6.4	0.00277 mg/L	0.000956	0.00277 mg/L	0.000956	34.51%
Zn 206.200†	28.1	0.03019 mg/L	0.003010	0.03019 mg/L	0.003010	9.97%
Zn 213.857†	12.6	0.00304 mg/L	0.000520	0.00304 mg/L	0.000520	17.08%

Sequence No.: 20
Sample ID: SIC Fe
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 22
Date Collected: 11/9/01 10:12:12 AM

Sample Prep Volume:
Data Type: Original

Mean Data: SIC Fe

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD

15 tubing carry over

Y 371.029	108248.3				102674.89	94.85%
Y 360.073	10655.0				2539.97	23.84%
Ag 328.068†	-162457.9	-0.8476 mg/L	0.08816	-0.8476 mg/L	0.08816	10.40%
Ag 338.289†	-78557.2	-0.7443 mg/L	0.36453	-0.7443 mg/L	0.36453	48.98%
Al 308.215†	-307.6	-0.4130 mg/L	0.76810	-0.4130 mg/L	0.76810	185.96%
Al 394.401†	651.4	0.7237 mg/L	1.10336	0.7237 mg/L	1.10336	152.46%
Al 396.153†	8050.3	2.484 mg/L	3.9621	2.484 mg/L	3.9621	159.51%
As 188.979†	-17.6	-0.3859 mg/L	0.54115	-0.3859 mg/L	0.54115	140.23%
As 193.696†	-11578.9	-12.45 mg/L	3.277	-12.45 mg/L	3.277	26.31%
As 197.197†	-9.7	-0.3574 mg/L	0.78171	-0.3574 mg/L	0.78171	218.73%
B 208.889†	503.5	2.189 mg/L	3.5284	2.189 mg/L	3.5284	161.21%
B 249.677†	-500.4	-0.3212 mg/L	0.52094	-0.3212 mg/L	0.52094	162.20%
B 249.772†	26034.3	8.028 mg/L	12.2036	8.028 mg/L	12.2036	152.01%
Ba 233.527†	1.3	0.00030 mg/L	0.003237	0.00030 mg/L	0.003237	>999.9%
Ba 455.403†	1137.6	0.01219 mg/L	0.018996	0.01219 mg/L	0.018996	155.84%
Ba 493.408†	4674.1	0.02869 mg/L	0.042647	0.02869 mg/L	0.042647	148.63%
Be 234.861†	-135494101	-351.4 mg/L	48.45	-351.4 mg/L	48.45	13.79%
Be 313.042†	2013.7	0.02434 mg/L	0.038995	0.02434 mg/L	0.038995	160.23%
Be 313.107†	2013.7	0.02434 mg/L	0.038995	0.02434 mg/L	0.038995	160.23%
Ca 315.887†	5550.9	1.632 mg/L	2.5192	1.632 mg/L	2.5192	154.32%
Ca 317.933†	4578.6	1.316 mg/L	2.0084	1.316 mg/L	2.0084	152.60%
Cd 214.440†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
Cd 226.502†	53169.2	1.391 mg/L	0.1728	1.391 mg/L	0.1728	12.42%
Cd 228.802†	205.1	0.04809 mg/L	0.076653	0.04809 mg/L	0.076653	159.39%
Ce 413.380†	4365.4	2.314 mg/L	3.6572	2.314 mg/L	3.6572	158.07%
Ce 413.764†	-106.1	-0.05716 mg/L	0.091531	-0.05716 mg/L	0.091531	160.12%
Ce 418.660†	-1110.6	-0.2978 mg/L	0.45687	-0.2978 mg/L	0.45687	153.41%
Co 228.616†	86732.8	2.018 mg/L	0.5867	2.018 mg/L	0.5867	29.08%
Co 230.786†	-19.9	-0.01853 mg/L	0.028602	-0.01853 mg/L	0.028602	154.32%
Co 238.892†	-6733.2	-4.115 mg/L	6.3193	-4.115 mg/L	6.3193	153.57%
Cr 205.560†	8.5	0.03067 mg/L	0.039649	0.03067 mg/L	0.039649	129.29%
Cr 267.716†	12054.0	0.4135 mg/L	0.11131	0.4135 mg/L	0.11131	26.92%
Cr 283.563†	3494.2	0.8351 mg/L	1.27617	0.8351 mg/L	1.27617	152.82%
Cu 224.700†	-107.2	-0.1388 mg/L	0.25949	-0.1388 mg/L	0.25949	187.02%
Cu 324.752†	520.6	0.04666 mg/L	0.082306	0.04666 mg/L	0.082306	176.41%
Cu 327.393†	137.1	0.00199 mg/L	0.308915	0.00199 mg/L	0.308915	>999.9%
Fe 238.204†	18433169.6	4762 mg/L	7272.5	4762 mg/L	7272.5	152.71%
Fe 239.562†	14410848.6	4820 mg/L	7361.5	4820 mg/L	7361.5	152.73%
Fe 259.939†	31393720.8	4795 mg/L	7319.2	4795 mg/L	7319.2	152.64%
Fe 273.955†	5122417.0	5427 mg/L	8286.9	5427 mg/L	8286.9	152.70%
K 766.490†	2844.2	4.918 mg/L	7.5815	4.918 mg/L	7.5815	154.16%
Li 610.362†	-23431.5	-3.505 mg/L	5.6864	-3.505 mg/L	5.6864	162.22%
Li 670.784†	6838.2	0.1296 mg/L	0.20667	0.1296 mg/L	0.20667	159.43%
Mg 279.077†	2972.0	3.321 mg/L	5.2772	3.321 mg/L	5.2772	158.89%
Mg 280.271†	68288.3	0.4994 mg/L	0.77825	0.4994 mg/L	0.77825	155.85%
Mg 285.213†	1752.9	0.4068 mg/L	0.63055	0.4068 mg/L	0.63055	154.99%
Mn 257.610†	4315.4	0.1472 mg/L	0.22521	0.1472 mg/L	0.22521	153.01%
Mn 259.372†	227560.4	-0.2293 mg/L	0.38303	-0.2293 mg/L	0.38303	167.01%
Mn 260.568†	923.2	0.04798 mg/L	0.073475	0.04798 mg/L	0.073475	153.13%
Mo 202.031†	-45.7	-0.1248 mg/L	0.17203	-0.1248 mg/L	0.17203	137.90%
Mo 203.845†	83.8	0.4000 mg/L	0.63336	0.4000 mg/L	0.63336	158.36%
Mo 204.597†	-9606.3	-1.186 mg/L	0.5360	-1.186 mg/L	0.5360	45.20%
Na 588.995†	-35393.9	-6.830 mg/L	11.3468	-6.830 mg/L	11.3468	166.13%
Na 589.592†	20753.5	3.928 mg/L	6.1377	3.928 mg/L	6.1377	156.24%
Ni 221.648†	70.4	0.2295 mg/L	0.36678	0.2295 mg/L	0.36678	159.84%
Ni 231.604†	8397.7	0.5779 mg/L	0.25128	0.5779 mg/L	0.25128	43.48%
Ni 232.003†	35.1	0.07447 mg/L	0.095801	0.07447 mg/L	0.095801	128.65%
Pb 217.000†	-240.3	-2.722 mg/L	4.3825	-2.722 mg/L	4.3825	160.98%
Pb 220.353†	9289.6	3.319 mg/L	0.3019	3.319 mg/L	0.3019	9.10%
Sb 206.836†	-150.6	-0.06646 mg/L	0.412479	-0.06646 mg/L	0.412479	620.68%
Sb 217.582†	-5.4	-0.08318 mg/L	0.164706	-0.08318 mg/L	0.164706	198.02%
Se 196.026†	-31573.3	-27.40 mg/L	3.789	-27.40 mg/L	3.789	13.83%
Se 203.985†	-25083.5	-41.85 mg/L	9.655	-41.85 mg/L	9.655	23.07%
Sn 189.927†	-1247.8	-0.8910 mg/L	0.36665	-0.8910 mg/L	0.36665	41.15%
Sn 235.485†	77792.3	423.9 mg/L	643.81	423.9 mg/L	643.81	151.89%
Sr 407.771†	586.9	0.00279 mg/L	0.004359	0.00279 mg/L	0.004359	156.07%
Sr 421.552†	16827.7	0.06044 mg/L	0.097145	0.06044 mg/L	0.097145	160.74%
Sr 460.733†	2130.3	0.1802 mg/L	0.32347	0.1802 mg/L	0.32347	179.55%
Ti 334.940†	317.4	0.01328 mg/L	0.020669	0.01328 mg/L	0.020669	155.67%
Ti 336.121†	998.8	0.05074 mg/L	0.082631	0.05074 mg/L	0.082631	162.85%

Ti 337.279†	1325.5	0.1567 mg/L	0.25420	0.1567 mg/L	0.25420	162.22%
Tl 190.801†	-1791.4	-1.964 mg/L	0.5365	-1.964 mg/L	0.5365	27.31%
Tl 276.787†	5933856.4	1352 mg/L	200.0	1352 mg/L	200.0	14.79%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	1117.0	0.3042 mg/L	0.49766	0.3042 mg/L	0.49766	163.59%
V 309.310†	-334.6	-0.05033 mg/L	0.084451	-0.05033 mg/L	0.084451	167.80%
V 310.230†	127179.5	0.8046 mg/L	0.73518	0.8046 mg/L	0.73518	91.37%
Zn 202.548†	678.2	0.1036 mg/L	0.16262	0.1036 mg/L	0.16262	156.91%
Zn 206.200†	48.6	0.05226 mg/L	0.070043	0.05226 mg/L	0.070043	134.02%
Zn 213.857†	2801.5	0.1967 mg/L	0.31691	0.1967 mg/L	0.31691	161.09%

Sequence No.: 21
Sample ID: SIC Mn
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 23
Date Collected: 11/9/01 10:16:47 AM
Sample Prep Volume:
Data Type: Original

Mean Data: SIC Mn

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	-102.9	no 15					8.54	8.29%
Y 360.073	776.5						101.08	13.02%
Ag 328.068†	-270277.8	-1.410	mg/L	0.4326	-1.410	mg/L	0.4326	30.68%
Ag 338.289†	-966654.8	-9.158	mg/L	2.4909	-9.158	mg/L	2.4909	27.20%
Al 308.215†	-73153.5	-98.23	mg/L	1.650	-98.23	mg/L	1.650	1.68%
Al 394.401†	19770.8	21.96	mg/L	18.257	21.96	mg/L	18.257	83.13%
Al 396.153†	-1096718.8	-323.6	mg/L	24.95	-323.6	mg/L	24.95	7.71%
As 188.979†	1337.0	29.36	mg/L	24.576	29.36	mg/L	24.576	83.71%
As 193.696†	-90487.5	-97.33	mg/L	12.631	-97.33	mg/L	12.631	12.98%
As 197.197†	1851.2	67.91	mg/L	12.414	67.91	mg/L	12.414	18.28%
B 208.889†	-112330.3	-488.3	mg/L	58.89	-488.3	mg/L	58.89	12.06%
B 249.677†	90216.3	57.91	mg/L	14.094	57.91	mg/L	14.094	24.34%
B 249.772†	-31591.3	-9.741	mg/L	3.9710	-9.741	mg/L	3.9710	40.76%
Ba 233.527†	41867.0	9.525	mg/L	0.9400	9.525	mg/L	0.9400	9.87%
Ba 455.403†	-80776.3	-0.8656	mg/L	0.38643	-0.8656	mg/L	0.38643	44.64%
Ba 493.408†	-22939.0	-0.1408	mg/L	1.26538	-0.1408	mg/L	1.26538	898.58%
Be 234.861†	-2528179.8	-6.557	mg/L	0.2223	-6.557	mg/L	0.2223	3.39%
Saturated within auto integration window (code 4)								
Be 313.042†	-629559.8	-7.608	mg/L	0.5509	-7.608	mg/L	0.5509	7.24%
Be 313.107†	-629559.8	-7.608	mg/L	0.5509	-7.608	mg/L	0.5509	7.24%
Ca 315.887†	-189757.5	-55.80	mg/L	7.090	-55.80	mg/L	7.090	12.71%
Ca 317.933†	38572.5	11.09	mg/L	2.226	11.09	mg/L	2.226	20.07%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	-76281.4	-1.995	mg/L	0.6136	-1.995	mg/L	0.6136	30.75%
Cd 228.802†	-47048.3	-11.03	mg/L	0.797	-11.03	mg/L	0.797	7.23%
Ce 413.380†	-361639.8	-191.7	mg/L	23.63	-191.7	mg/L	23.63	12.33%
Ce 413.764†	-27206.1	-14.65	mg/L	21.315	-14.65	mg/L	21.315	145.49%
Ce 418.660†	798655.4	214.2	mg/L	58.81	214.2	mg/L	58.81	27.46%
Co 228.616†	993782.8	23.12	mg/L	1.709	23.12	mg/L	1.709	7.39%
Co 230.786†	11389.4	10.59	mg/L	5.632	10.59	mg/L	5.632	53.16%
Co 238.892†	-13534.7	-8.271	mg/L	2.5547	-8.271	mg/L	2.5547	30.89%
Cr 205.560†	-3762.5	-13.60	mg/L	3.990	-13.60	mg/L	3.990	29.34%
Cr 267.716†	51286.7	1.759	mg/L	0.1070	1.759	mg/L	0.1070	6.09%
Cr 283.563†	29477.8	7.045	mg/L	1.7944	7.045	mg/L	1.7944	25.47%
Cu 224.700†	115799.2	149.9	mg/L	12.51	149.9	mg/L	12.51	8.35%
Cu 324.752†	-210108.0	-18.83	mg/L	1.975	-18.83	mg/L	1.975	10.49%
Cu 327.393†	7236272.9	105.0	mg/L	112.50	105.0	mg/L	112.50	107.14%
Fe 238.204†	-2156946.1	-557.3	mg/L	395.48	-557.3	mg/L	395.48	70.97%
Fe 239.562†	-1640114.6	-548.6	mg/L	396.75	-548.6	mg/L	396.75	72.33%
Fe 259.939†	-4188429.8	-639.7	mg/L	500.99	-639.7	mg/L	500.99	78.31%
Fe 273.955†	-584849.5	-619.6	mg/L	438.72	-619.6	mg/L	438.72	70.80%
K 766.490†	-291974.7	-504.9	mg/L	163.77	-504.9	mg/L	163.77	32.44%
Li 610.362†	6344330.6	949.1	mg/L	62.23	949.1	mg/L	62.23	6.56%
Li 670.784†	-1759794.6	-33.36	mg/L	4.733	-33.36	mg/L	4.733	14.19%
Mg 279.077†	-453942.0	-507.3	mg/L	58.45	-507.3	mg/L	58.45	11.52%
Mg 280.271†	-7735250.1	-56.56	mg/L	5.748	-56.56	mg/L	5.748	10.16%
Mg 285.213†	-223713.2	-51.92	mg/L	7.533	-51.92	mg/L	7.533	14.51%
Mn 257.610†	-173570.9	-5.920	mg/L	0.3795	-5.920	mg/L	0.3795	6.41%

Mn 259.372†	-36015.8	-0.1776	mg/L	0.58055	-0.1776	mg/L	0.58055 326.93%
Mn 260.568†	-84987.1	-4.417	mg/L	0.3721	-4.417	mg/L	0.3721 8.42%
Mo 202.031†	-2548.3	-6.954	mg/L	16.0252	-6.954	mg/L	16.0252 230.44%
Mo 203.845†	-17507.5	-83.55	mg/L	56.804	-83.55	mg/L	56.804 67.99%
Mo 204.597†	-182635.0	-22.54	mg/L	5.009	-22.54	mg/L	5.009 22.22%
Na 588.995†	7403572.4	1429	mg/L	118.2	1429	mg/L	118.2 8.28%
Na 589.592†	-2078921.4	-393.5	mg/L	9.88	-393.5	mg/L	9.88 2.51%
Ni 221.648†	-5396.6	-17.60	mg/L	7.328	-17.60	mg/L	7.328 41.64%
Ni 231.604†	-150806.2	-10.38	mg/L	2.794	-10.38	mg/L	2.794 26.93%
Ni 232.003†	27022.7	57.32	mg/L	27.547	57.32	mg/L	27.547 48.06%
Pb 217.000†	33538.4	379.9	mg/L	53.06	379.9	mg/L	53.06 13.97%
Pb 220.353†	47873.8	17.11	mg/L	9.421	17.11	mg/L	9.421 55.08%
Sb 206.836†	-15034.1	-6.633	mg/L	10.6725	-6.633	mg/L	10.6725 160.90%
Sb 217.582†	9622.7	149.5	mg/L	63.88	149.5	mg/L	63.88 42.74%
Se 196.026†	-9003.8	-7.815	mg/L	14.4582	-7.815	mg/L	14.4582 185.02%
Se 203.985†	-371986.6	-620.7	mg/L	66.50	-620.7	mg/L	66.50 10.71%
Sn 189.927†	1734.3	1.238	mg/L	4.9140	1.238	mg/L	4.9140 396.82%
Sn 235.485†	-185338.9	-1010	mg/L	84.3	-1010	mg/L	84.3 8.35%
Sr 407.771†	114487.4	0.5448	mg/L	0.14263	0.5448	mg/L	0.14263 26.18%
Sr 421.552†	-1783434.9	-6.405	mg/L	0.2176	-6.405	mg/L	0.2176 3.40%
Sr 460.733†	-704499.9	-59.58	mg/L	19.719	-59.58	mg/L	19.719 33.10%
Ti 334.940†	842.9	0.03527	mg/L	0.331313	0.03527	mg/L	0.331313 939.49%
Ti 336.121†	-151653.0	-7.704	mg/L	1.0001	-7.704	mg/L	1.0001 12.98%
Ti 337.279†	-194279.7	-22.97	mg/L	1.784	-22.97	mg/L	1.784 7.77%
Tl 190.801†	-39418.2	-43.22	mg/L	19.458	-43.22	mg/L	19.458 45.02%
Tl 276.787†	91680.9	20.90	mg/L	39.544	20.90	mg/L	39.544 189.24%
Tl 351.924†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000 0.00%
V 290.880†	-48574.1	-13.23	mg/L	5.305	-13.23	mg/L	5.305 40.10%
V 309.310†	-11407.9	-1.716	mg/L	1.6517	-1.716	mg/L	1.6517 96.26%
V 310.230†	4840444.0	30.62	mg/L	2.193	30.62	mg/L	2.193 7.16%
Zn 202.548†	-10129.2	-5.536	mg/L	3.0325	-5.536	mg/L	3.0325 54.78%
Zn 206.200†	14140.0	15.20	mg/L	5.468	15.20	mg/L	5.468 35.97%
Zn 213.857†	-165393.3	-39.86	mg/L	4.530	-39.86	mg/L	4.530 11.37%

Sequence No.: 22
Sample ID: SIC Mo
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 24
Date Collected: 11/9/01 10:21:10 AM
Sample Prep Volume:
Data Type: Original

Analysis Begun

resonant is tubing restart from seq 20

Start Time: 11/9/01 10:35:05 AM
Logged In Analyst: JVMORRIS
Spectrometer Model: Optima 3300 DV

Plasma On Time: 11/9/01 7:37:29 AM
Technique: ICP Continuous
Autosampler Model: AS-91

JM 9Nov01

Sample Information File: D:\JVMORRIS\Sample Information\110901.sif
Results Data Set: 110901
Results Library: D:\JVMORRIS\Results\Results.mdb

Sequence No.: 20
Sample ID: SIC Fe
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 22
Date Collected: 11/9/01 10:35:05 AM
Sample Prep Volume:
Data Type: Original

Mean Data: SIC Fe

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	291636.3						2792.82	0.96%
Y 360.073	3760169.1						6433.37	0.17%
Ag 328.068†	-495.2	-0.00258	mg/L	0.000056	-0.00258	mg/L	0.000056	2.17%
Ag 338.289†	-36.7	-0.00035	mg/L	0.000530	-0.00035	mg/L	0.000530	152.46%
Al 308.215†	49.3	0.06620	mg/L	0.003075	0.06620	mg/L	0.003075	4.64%
Al 394.401†	37.3	0.04141	mg/L	0.005974	0.04141	mg/L	0.005974	14.43%
Al 396.153†	141.0	0.04813	mg/L	0.001717	0.04813	mg/L	0.001717	3.57%

As 188.979†	-1.7	-0.03737 mg/L	0.008112	-0.03737 mg/L	0.008112	21.71%
As 193.696†	-16.9	-0.01823 mg/L	0.001689	-0.01823 mg/L	0.001689	9.26%
As 197.197†	1.5	0.05347 mg/L	0.020673	0.05347 mg/L	0.020673	38.66%
B 208.889†	3.6	0.01581 mg/L	0.006194	0.01581 mg/L	0.006194	39.16%
B 249.677†	-4.6	-0.00297 mg/L	0.004854	-0.00297 mg/L	0.004854	163.37%
B 249.772†	1534.6	0.4732 mg/L	0.00682	0.4732 mg/L	0.00682	1.44%
Ba 233.527†	10.6	0.00241 mg/L	0.000510	0.00241 mg/L	0.000510	21.18%
Ba 455.403†	25.1	0.00027 mg/L	0.000063	0.00027 mg/L	0.000063	23.58%
Ba 493.408†	296.0	0.00182 mg/L	0.000253	0.00182 mg/L	0.000253	13.91%
Be 234.861†	-413993.1	-1.074 mg/L	0.0105	-1.074 mg/L	0.0105	0.97%
Be 313.042†	21.7	0.00026 mg/L	0.000032	0.00026 mg/L	0.000032	12.13%
Be 313.107†	21.7	0.00026 mg/L	0.000032	0.00026 mg/L	0.000032	12.13%
Ca 315.887†	256.6	0.07547 mg/L	0.002827	0.07547 mg/L	0.002827	3.75%
Ca 317.933†	231.1	0.06643 mg/L	0.008105	0.06643 mg/L	0.008105	12.20%
Cd 214.440†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
Cd 226.502†	227.6	0.00595 mg/L	0.000740	0.00595 mg/L	0.000740	12.43%
Cd 228.802†	2.9	0.00068 mg/L	0.000559	0.00068 mg/L	0.000559	81.87%
Ce 413.380†	100.3	0.05315 mg/L	0.009282	0.05315 mg/L	0.009282	17.46%
Ce 413.764†	7.8	0.00419 mg/L	0.005105	0.00419 mg/L	0.005105	121.78%
Ce 418.660†	57.2	0.01534 mg/L	0.004815	0.01534 mg/L	0.004815	31.39%
Co 228.616†	78.9	0.00184 mg/L	0.000399	0.00184 mg/L	0.000399	21.74%
Co 230.786†	0.3	0.00029 mg/L	0.001729	0.00029 mg/L	0.001729	591.59%
Co 238.892†	-355.3	-0.2171 mg/L	0.01020	-0.2171 mg/L	0.01020	4.70%
Cr 205.560†	-0.8	-0.00271 mg/L	0.001427	-0.00271 mg/L	0.001427	52.63%
Cr 267.716†	-27.9	-0.00096 mg/L	0.000064	-0.00096 mg/L	0.000064	6.67%
Cr 283.563†	193.9	0.04635 mg/L	0.000310	0.04635 mg/L	0.000310	0.67%
Cu 224.700†	17.8	0.02305 mg/L	0.002272	0.02305 mg/L	0.002272	9.85%
Cu 324.752†	-43.2	-0.00387 mg/L	0.000288	-0.00387 mg/L	0.000288	7.43%
Cu 327.393†	-106.2	-0.00154 mg/L	0.000214	-0.00154 mg/L	0.000214	13.91%
Fe 238.204†	1054262.1	272.4 mg/L	1.87	272.4 mg/L	1.87	0.69%
Fe 239.562†	822936.1	275.2 mg/L	1.83	275.2 mg/L	1.83	0.66%
Fe 259.939†	1805063.1	275.7 mg/L	1.75	275.7 mg/L	1.75	0.63%
Fe 273.955†	294403.0	311.9 mg/L	2.18	311.9 mg/L	2.18	0.70%
K 766.490†	138.9	0.2402 mg/L	0.03583	0.2402 mg/L	0.03583	14.92%
Li 610.362†	50.3	0.00752 mg/L	0.008045	0.00752 mg/L	0.008045	106.92%
Li 670.784†	48.4	0.00092 mg/L	0.000238	0.00092 mg/L	0.000238	25.89%
Mg 279.077†	73.5	0.08210 mg/L	0.004261	0.08210 mg/L	0.004261	5.19%
Mg 280.271†	2773.7	0.02028 mg/L	0.000460	0.02028 mg/L	0.000460	2.27%
Mg 285.213†	88.7	0.02059 mg/L	0.001078	0.02059 mg/L	0.001078	5.23%
Mn 257.610†	236.5	0.00807 mg/L	0.000435	0.00807 mg/L	0.000435	5.39%
Mn 259.372†	13532.9	-0.00248 mg/L	0.005205	-0.00248 mg/L	0.005205	210.27%
Mn 260.568†	49.4	0.00257 mg/L	0.000167	0.00257 mg/L	0.000167	6.51%
Mo 202.031†	-3.5	-0.00966 mg/L	0.002769	-0.00966 mg/L	0.002769	28.65%
Mo 203.845†	1.6	0.00766 mg/L	0.001857	0.00766 mg/L	0.001857	24.24%
Mo 204.597†	16.0	0.00197 mg/L	0.000387	0.00197 mg/L	0.000387	19.60%
Na 588.995†	1077.0	0.2078 mg/L	0.00991	0.2078 mg/L	0.00991	4.77%
Na 589.592†	929.3	0.1759 mg/L	0.00478	0.1759 mg/L	0.00478	2.72%
Ni 221.648†	2.1	0.00694 mg/L	0.001054	0.00694 mg/L	0.001054	15.17%
Ni 231.604†	62.8	0.00432 mg/L	0.000207	0.00432 mg/L	0.000207	4.80%
Ni 232.003†	9.7	0.02048 mg/L	0.002497	0.02048 mg/L	0.002497	12.19%
Pb 217.000†	-4.3	-0.04879 mg/L	0.024485	-0.04879 mg/L	0.024485	50.18%
Pb 220.353†	27.9	0.00997 mg/L	0.001450	0.00997 mg/L	0.001450	14.55%
Sb 206.836†	2.3	0.00101 mg/L	0.010767	0.00101 mg/L	0.010767	>999.9%
Sb 217.582†	1.7	0.02705 mg/L	0.009882	0.02705 mg/L	0.009882	36.53%
Se 196.026†	-91.4	-0.07936 mg/L	0.004377	-0.07936 mg/L	0.004377	5.51%
Se 203.985†	1.6	0.00261 mg/L	0.003216	0.00261 mg/L	0.003216	123.30%
Sn 189.927†	-2.3	-0.00164 mg/L	0.002184	-0.00164 mg/L	0.002184	133.20%
Sn 235.485†	4471.1	24.36 mg/L	0.612	24.36 mg/L	0.612	2.51%
Sr 407.771†	25.1	0.00012 mg/L	0.000109	0.00012 mg/L	0.000109	91.42%
Sr 421.552†	328.1	0.00118 mg/L	0.000072	0.00118 mg/L	0.000072	6.08%
Sr 460.733†	-32.4	-0.00274 mg/L	0.001951	-0.00274 mg/L	0.001951	71.11%
Ti 334.940†	12.2	0.00051 mg/L	0.000082	0.00051 mg/L	0.000082	16.12%
Ti 336.121†	11.4	0.00058 mg/L	0.000844	0.00058 mg/L	0.000844	146.38%
Ti 337.279†	-9.6	-0.00113 mg/L	0.000316	-0.00113 mg/L	0.000316	27.86%
Tl 190.801†	0.8	0.00091 mg/L	0.001367	0.00091 mg/L	0.001367	150.91%
Tl 276.787†	17999.2	4.102 mg/L	0.0388	4.102 mg/L	0.0388	0.95%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	-16.5	-0.00450 mg/L	0.000194	-0.00450 mg/L	0.000194	4.32%
V 309.310†	5.3	0.00079 mg/L	0.001075	0.00079 mg/L	0.001075	135.89%
V 310.230†	137.8	0.00087 mg/L	0.000736	0.00087 mg/L	0.000736	84.42%

Zn 202.548†	31.6	0.00250 mg/L	0.001611	0.00250 mg/L	0.001611	64.48%
Zn 206.200†	8.4	0.00900 mg/L	0.000756	0.00900 mg/L	0.000756	8.40%
Zn 213.857†	132.9	0.00466 mg/L	0.000771	0.00466 mg/L	0.000771	16.56%

Sequence No.: 21
Sample ID: SIC Mn
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 23
Date Collected: 11/9/01 10:39:41 AM
Sample Prep Volume:
Data Type: Original

Mean Data: SIC Mn

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	291169.4						3577.91	1.23%
Y 360.073	3798555.5						16769.13	0.44%
Ag 328.068†	-37.9	-0.00020	mg/L	0.000146	-0.00020	mg/L	0.000146	74.12%
Ag 338.289†	-10.2	-0.00010	mg/L	0.000594	-0.00010	mg/L	0.000594	613.57%
Al 308.215†	21.0	0.02823	mg/L	0.002142	0.02823	mg/L	0.002142	7.59%
Al 394.401†	-0.6	-0.00070	mg/L	0.004660	-0.00070	mg/L	0.004660	663.59%
Al 396.153†	9.7	0.00267	mg/L	0.004511	0.00267	mg/L	0.004511	168.71%
As 188.979†	0.0	0.00041	mg/L	0.010615	0.00041	mg/L	0.010615	>999.9%
As 193.696†	2.3	0.00246	mg/L	0.001470	0.00246	mg/L	0.001470	59.85%
As 197.197†	0.2	0.00874	mg/L	0.011032	0.00874	mg/L	0.011032	126.28%
B 208.889†	0.8	0.00340	mg/L	0.003164	0.00340	mg/L	0.003164	93.05%
B 249.677†	8.2	0.00528	mg/L	0.003302	0.00528	mg/L	0.003302	62.58%
B 249.772†	8.5	0.00261	mg/L	0.001837	0.00261	mg/L	0.001837	70.36%
Ba 233.527†	-0.6	-0.00014	mg/L	0.000234	-0.00014	mg/L	0.000234	162.50%
Ba 455.403†	3.0	0.00003	mg/L	0.000068	0.00003	mg/L	0.000068	211.90%
Ba 493.408†	5.7	0.00004	mg/L	0.000275	0.00004	mg/L	0.000275	781.27%
Be 234.861†	-5.9	-0.00002	mg/L	0.000032	-0.00002	mg/L	0.000032	208.30%
Be 313.042†	14.7	0.00018	mg/L	0.000024	0.00018	mg/L	0.000024	13.23%
Be 313.107†	14.7	0.00018	mg/L	0.000024	0.00018	mg/L	0.000024	13.23%
Ca 315.887†	24.7	0.00726	mg/L	0.003704	0.00726	mg/L	0.003704	50.99%
Ca 317.933†	-0.8	-0.00022	mg/L	0.003038	-0.00022	mg/L	0.003038	>999.9%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	-3.1	-0.00008	mg/L	0.000063	-0.00008	mg/L	0.000063	77.21%
Cd 228.802†	-1.6	-0.00038	mg/L	0.000299	-0.00038	mg/L	0.000299	79.79%
Ce 413.380†	3.0	0.00160	mg/L	0.003932	0.00160	mg/L	0.003932	246.52%
Ce 413.764†	-13.0	-0.00702	mg/L	0.002207	-0.00702	mg/L	0.002207	31.42%
Ce 418.660†	-14.5	-0.00389	mg/L	0.006959	-0.00389	mg/L	0.006959	178.84%
Co 228.616†	7.1	0.00016	mg/L	0.000079	0.00016	mg/L	0.000079	48.09%
Co 230.786†	0.6	0.00060	mg/L	0.001660	0.00060	mg/L	0.001660	277.12%
Co 238.892†	0.5	0.00032	mg/L	0.000563	0.00032	mg/L	0.000563	177.28%
Cr 205.560†	0.2	0.00081	mg/L	0.001091	0.00081	mg/L	0.001091	135.48%
Cr 267.716†	9.5	0.00032	mg/L	0.000073	0.00032	mg/L	0.000073	22.50%
Cr 283.563†	-0.3	-0.00008	mg/L	0.000719	-0.00008	mg/L	0.000719	900.25%
Cu 224.700†	3.6	0.00461	mg/L	0.003416	0.00461	mg/L	0.003416	74.10%
Cu 324.752†	-13.9	-0.00124	mg/L	0.000417	-0.00124	mg/L	0.000417	33.55%
Cu 327.393†	-18.0	-0.00026	mg/L	0.000533	-0.00026	mg/L	0.000533	204.19%
Fe 238.204†	393.9	0.1018	mg/L	0.03082	0.1018	mg/L	0.03082	30.28%
Fe 239.562†	304.6	0.1019	mg/L	0.03117	0.1019	mg/L	0.03117	30.60%
Fe 259.939†	670.9	0.1025	mg/L	0.03113	0.1025	mg/L	0.03113	30.38%
Fe 273.955†	106.3	0.1127	mg/L	0.03445	0.1127	mg/L	0.03445	30.57%
K 766.490†	18.5	0.03195	mg/L	0.008214	0.03195	mg/L	0.008214	25.71%
Li 610.362†	16.3	0.00245	mg/L	0.010042	0.00245	mg/L	0.010042	410.70%
Li 670.784†	-58.6	-0.00111	mg/L	0.000535	-0.00111	mg/L	0.000535	48.16%
Mg 279.077†	4.1	0.00453	mg/L	0.008700	0.00453	mg/L	0.008700	192.13%
Mg 280.271†	516.8	0.00378	mg/L	0.000057	0.00378	mg/L	0.000057	1.51%
Mg 285.213†	20.1	0.00468	mg/L	0.000545	0.00468	mg/L	0.000545	11.66%
Mn 257.610†	266668.3	9.095	mg/L	0.0505	9.095	mg/L	0.0505	0.56%
Mn 259.372†	385531.3	9.076	mg/L	0.0591	9.076	mg/L	0.0591	0.65%
Mn 260.568†	174237.9	9.056	mg/L	0.0546	9.056	mg/L	0.0546	0.60%
Mo 202.031†	0.4	0.00096	mg/L	0.001679	0.00096	mg/L	0.001679	174.28%
Mo 203.845†	-0.4	-0.00186	mg/L	0.007605	-0.00186	mg/L	0.007605	409.91%
Mo 204.597†	6.9	0.00085	mg/L	0.000238	0.00085	mg/L	0.000238	27.98%
Na 588.995†	804.8	0.1553	mg/L	0.01432	0.1553	mg/L	0.01432	9.22%
Na 589.592†	494.5	0.09360	mg/L	0.005692	0.09360	mg/L	0.005692	6.08%
Ni 221.648†	0.2	0.00075	mg/L	0.002943	0.00075	mg/L	0.002943	392.32%

Ni 231.604†	3.1	0.00021	mg/L	0.000195	0.00021	mg/L	0.000195	91.20%
Ni 232.003†	4.1	0.00865	mg/L	0.001307	0.00865	mg/L	0.001307	15.10%
Pb 217.000†	1.1	0.01244	mg/L	0.030199	0.01244	mg/L	0.030199	242.73%
Pb 220.353†	0.8	0.00027	mg/L	0.000257	0.00027	mg/L	0.000257	95.53%
Sb 206.836†	1.4	0.00063	mg/L	0.001642	0.00063	mg/L	0.001642	261.14%
Sb 217.582†	-0.0	-0.00002	mg/L	0.016993	-0.00002	mg/L	0.016993	>999.9%
Se 196.026†	4.9	0.00424	mg/L	0.003296	0.00424	mg/L	0.003296	77.65%
Se 203.985†	2.0	0.00326	mg/L	0.001622	0.00326	mg/L	0.001622	49.80%
Sn 189.927†	-1.2	-0.00083	mg/L	0.000751	-0.00083	mg/L	0.000751	89.93%
Sn 235.485†	-3.4	-0.01854	mg/L	0.015806	-0.01854	mg/L	0.015806	85.27%
Sr 407.771†	16.3	0.00008	mg/L	0.000035	0.00008	mg/L	0.000035	45.07%
Sr 421.552†	10.8	0.00004	mg/L	0.000142	0.00004	mg/L	0.000142	368.16%
Sr 460.733†	32.7	0.00276	mg/L	0.008517	0.00276	mg/L	0.008517	308.35%
Ti 334.940†	1.8	0.00008	mg/L	0.000120	0.00008	mg/L	0.000120	159.01%
Ti 336.121†	14.3	0.00073	mg/L	0.000363	0.00073	mg/L	0.000363	49.97%
Ti 337.279†	-14.3	-0.00169	mg/L	0.000356	-0.00169	mg/L	0.000356	21.05%
Tl 190.801†	-4.9	-0.00537	mg/L	0.002195	-0.00537	mg/L	0.002195	40.85%
Tl 276.787†	-90.4	-0.02059	mg/L	0.001293	-0.02059	mg/L	0.001293	6.28%
Tl 351.924†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
V 290.880†	-21.4	-0.00582	mg/L	0.000064	-0.00582	mg/L	0.000064	1.10%
V 309.310†	-1.1	-0.00016	mg/L	0.000591	-0.00016	mg/L	0.000591	361.23%
V 310.230†	-242.2	-0.00153	mg/L	0.001039	-0.00153	mg/L	0.001039	67.80%
Zn 202.548†	3.2	0.00138	mg/L	0.000410	0.00138	mg/L	0.000410	29.61%
Zn 206.200†	1.1	0.00113	mg/L	0.000807	0.00113	mg/L	0.000807	71.51%
Zn 213.857†	6.2	0.00147	mg/L	0.000302	0.00147	mg/L	0.000302	20.51%

Sequence No.: 22
Sample ID: SIC Mo
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 24
Date Collected: 11/9/01 10:44:13 AM
Sample Prep Volume:
Data Type: Original

Mean Data: SIC Mo

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	284631.9						2886.39	1.01%
Y 360.073	3799248.7						55078.67	1.45%
Ag 328.068†	-59.5	-0.00031	mg/L	0.000259	-0.00031	mg/L	0.000259	83.35%
Ag 338.289†	-36.3	-0.00034	mg/L	0.000497	-0.00034	mg/L	0.000497	144.35%
Al 308.215†	41.6	0.05592	mg/L	0.005852	0.05592	mg/L	0.005852	10.47%
Al 394.401†	5.1	0.00571	mg/L	0.003513	0.00571	mg/L	0.003513	61.55%
Al 396.153†	1149.0	0.03898	mg/L	0.003155	0.03898	mg/L	0.003155	8.09%
As 188.979†	0.7	0.01613	mg/L	0.022672	0.01613	mg/L	0.022672	140.54%
As 193.696†	1.2	0.00133	mg/L	0.002430	0.00133	mg/L	0.002430	182.85%
As 197.197†	0.5	0.01718	mg/L	0.021243	0.01718	mg/L	0.021243	123.65%
B 208.889†	-2.3	-0.00985	mg/L	0.004493	-0.00985	mg/L	0.004493	45.60%
B 249.677†	4.8	0.00306	mg/L	0.001491	0.00306	mg/L	0.001491	48.78%
B 249.772†	1.8	0.00057	mg/L	0.000281	0.00057	mg/L	0.000281	49.52%
Ba 233.527†	0.7	0.00015	mg/L	0.000147	0.00015	mg/L	0.000147	96.73%
Ba 455.403†	16.3	0.00017	mg/L	0.000122	0.00017	mg/L	0.000122	69.91%
Ba 493.408†	8.7	0.00005	mg/L	0.000460	0.00005	mg/L	0.000460	860.85%
Be 234.861†	180.0	0.00047	mg/L	0.000041	0.00047	mg/L	0.000041	8.86%
Be 313.042†	14.1	0.00017	mg/L	0.000028	0.00017	mg/L	0.000028	16.42%
Be 313.107†	14.1	0.00017	mg/L	0.000028	0.00017	mg/L	0.000028	16.42%
Ca 315.887†	62.2	0.01830	mg/L	0.003071	0.01830	mg/L	0.003071	16.79%
Ca 317.933†	7.0	0.00200	mg/L	0.001532	0.00200	mg/L	0.001532	76.60%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	-4.8	-0.00012	mg/L	0.000044	-0.00012	mg/L	0.000044	35.23%
Cd 228.802†	-2.0	-0.00047	mg/L	0.000070	-0.00047	mg/L	0.000070	15.10%
Ce 413.380†	3.6	0.00189	mg/L	0.005398	0.00189	mg/L	0.005398	285.31%
Ce 413.764†	-13.3	-0.00717	mg/L	0.000914	-0.00717	mg/L	0.000914	12.75%
Ce 418.660†	-39.0	-0.01046	mg/L	0.005759	-0.01046	mg/L	0.005759	55.03%
Co 228.616†	129.5	0.00301	mg/L	0.000231	0.00301	mg/L	0.000231	7.68%
Co 230.786†	1.3	0.00119	mg/L	0.001755	0.00119	mg/L	0.001755	147.34%
Co 238.892†	2.0	0.00124	mg/L	0.001140	0.00124	mg/L	0.001140	91.55%
Cr 205.560†	-0.1	-0.00023	mg/L	0.002312	-0.00023	mg/L	0.002312	999.20%
Cr 267.716†	7.2	0.00025	mg/L	0.000115	0.00025	mg/L	0.000115	46.83%
Cr 283.563†	8.0	0.00192	mg/L	0.000279	0.00192	mg/L	0.000279	14.55%

Cu 224.700†	2.3	0.00297 mg/L	0.002747	0.00297 mg/L	0.002747	92.45%
Cu 324.752†	3.6	0.00033 mg/L	0.000614	0.00033 mg/L	0.000614	188.75%
Cu 327.393†	9.5	0.00014 mg/L	0.000141	0.00014 mg/L	0.000141	102.01%
Fe 238.204†	94.5	0.02440 mg/L	0.004349	0.02440 mg/L	0.004349	17.82%
Fe 239.562†	72.2	0.02414 mg/L	0.003994	0.02414 mg/L	0.003994	16.54%
Fe 259.939†	157.9	0.02411 mg/L	0.004542	0.02411 mg/L	0.004542	18.84%
Fe 273.955†	19.0	0.02017 mg/L	0.005539	0.02017 mg/L	0.005539	27.45%
K 766.490†	30.0	0.05182 mg/L	0.042368	0.05182 mg/L	0.042368	81.76%
Li 610.362†	92.8	0.01388 mg/L	0.013144	0.01388 mg/L	0.013144	94.69%
Li 670.784†	88.8	0.00168 mg/L	0.001201	0.00168 mg/L	0.001201	71.34%
Mg 279.077†	0.8	0.00090 mg/L	0.002791	0.00090 mg/L	0.002791	311.68%
Mg 280.271†	567.7	0.00415 mg/L	0.000218	0.00415 mg/L	0.000218	5.25%
Mg 285.213†	18.0	0.00418 mg/L	0.000429	0.00418 mg/L	0.000429	10.26%
Mn 257.610†	79.0	0.00270 mg/L	0.000743	0.00270 mg/L	0.000743	27.57%
Mn 259.372†	2058.0	0.00323 mg/L	0.000852	0.00323 mg/L	0.000852	26.36%
Mn 260.568†	42.3	0.00220 mg/L	0.000732	0.00220 mg/L	0.000732	33.28%
Mo 202.031†	3459.6	9.441 mg/L	0.0886	9.441 mg/L	0.0886	0.94%
Mo 203.845†	1987.8	9.486 mg/L	0.1107	9.486 mg/L	0.1107	1.17%
Mo 204.597†	76672.2	9.463 mg/L	0.0592	9.463 mg/L	0.0592	0.63%
Na 588.995†	662.7	0.1279 mg/L	0.00833	0.1279 mg/L	0.00833	6.52%
Na 589.592†	710.4	0.1345 mg/L	0.00755	0.1345 mg/L	0.00755	5.62%
Ni 221.648†	-0.3	-0.00106 mg/L	0.002996	-0.00106 mg/L	0.002996	283.56%
Ni 231.604†	-10.1	-0.00069 mg/L	0.000457	-0.00069 mg/L	0.000457	65.93%
Ni 232.003†	3.8	0.00799 mg/L	0.003383	0.00799 mg/L	0.003383	42.33%
Pb 217.000†	0.4	0.00406 mg/L	0.028122	0.00406 mg/L	0.028122	692.88%
Pb 220.353†	-2.5	-0.00091 mg/L	0.001098	-0.00091 mg/L	0.001098	120.78%
Sb 206.836†	18.8	0.00831 mg/L	0.001948	0.00831 mg/L	0.001948	23.45%
Sb 217.582†	-0.9	-0.01365 mg/L	0.023492	-0.01365 mg/L	0.023492	172.07%
Se 196.026†	3.5	0.00300 mg/L	0.002649	0.00300 mg/L	0.002649	88.19%
Se 203.985†	1.3	0.00209 mg/L	0.001066	0.00209 mg/L	0.001066	50.91%
Sn 189.927†	0.2	0.00011 mg/L	0.000311	0.00011 mg/L	0.000311	271.67%
Sn 235.485†	-4.6	-0.02519 mg/L	0.008972	-0.02519 mg/L	0.008972	35.61%
Sr 407.771†	18.3	0.00009 mg/L	0.000092	0.00009 mg/L	0.000092	105.81%
Sr 421.552†	47.0	0.00017 mg/L	0.000352	0.00017 mg/L	0.000352	208.37%
Sr 460.733†	31.1	0.00263 mg/L	0.011729	0.00263 mg/L	0.011729	446.09%
Ti 334.940†	30.0	0.00125 mg/L	0.000154	0.00125 mg/L	0.000154	12.29%
Ti 336.121†	33.9	0.00172 mg/L	0.000314	0.00172 mg/L	0.000314	18.20%
Ti 337.279†	-2.5	-0.00030 mg/L	0.000317	-0.00030 mg/L	0.000317	105.99%
Tl 190.801†	5.0	0.00553 mg/L	0.001132	0.00553 mg/L	0.001132	20.46%
Tl 276.787†	-12.0	-0.00272 mg/L	0.001833	-0.00272 mg/L	0.001833	67.26%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	21.8	0.00594 mg/L	0.005322	0.00594 mg/L	0.005322	89.56%
V 309.310†	-4.9	-0.00073 mg/L	0.000124	-0.00073 mg/L	0.000124	16.93%
V 310.230†	-544.7	-0.00345 mg/L	0.000418	-0.00345 mg/L	0.000418	12.13%
Zn 202.548†	16.5	0.00725 mg/L	0.000768	0.00725 mg/L	0.000768	10.60%
Zn 206.200†	7.6	0.00813 mg/L	0.000959	0.00813 mg/L	0.000959	11.80%
Zn 213.857†	26.3	0.00671 mg/L	0.000411	0.00671 mg/L	0.000411	6.14%

Sequence No.: 23
Sample ID: SIC Ni
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 25
Date Collected: 11/9/01 10:48:43 AM
Sample Prep Volume:
Data Type: Original

Mean Data: SIC Ni

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	287869.3						1660.84	0.58%
Y 360.073	3818053.8						18702.35	0.49%
Ag 328.068†	-44.8	-0.00023	mg/L	0.000306	-0.00023	mg/L	0.000306	131.05%
Ag 338.289†	-35.5	-0.00034	mg/L	0.000631	-0.00034	mg/L	0.000631	187.83%
Al 308.215†	30.4	0.04083	mg/L	0.001410	0.04083	mg/L	0.001410	3.45%
Al 394.401†	18.1	0.02012	mg/L	0.004854	0.02012	mg/L	0.004854	24.12%
Al 396.153†	51.7	0.01471	mg/L	0.003162	0.01471	mg/L	0.003162	21.50%
As 188.979†	0.4	0.00940	mg/L	0.009976	0.00940	mg/L	0.009976	106.09%
As 193.696†	0.4	0.00046	mg/L	0.002541	0.00046	mg/L	0.002541	552.48%
As 197.197†	0.0	0.00039	mg/L	0.019598	0.00039	mg/L	0.019598	>999.9%
B 208.889†	3.6	0.01578	mg/L	0.005740	0.01578	mg/L	0.005740	36.36%

B 249.677†	5.4	0.00346 mg/L	0.002408	0.00346 mg/L	0.002408	69.52%
B 249.772†	10.4	0.00321 mg/L	0.001708	0.00321 mg/L	0.001708	53.20%
Ba 233.527†	3.3	0.00075 mg/L	0.000117	0.00075 mg/L	0.000117	15.69%
Ba 455.403†	11.8	0.00013 mg/L	0.000173	0.00013 mg/L	0.000173	136.21%
Ba 493.408†	-1.8	-0.00001 mg/L	0.000238	-0.00001 mg/L	0.000238	>999.9%
Be 234.861†	19.8	0.00005 mg/L	0.000024	0.00005 mg/L	0.000024	46.84%
Be 313.042†	15.5	0.00019 mg/L	0.000030	0.00019 mg/L	0.000030	15.91%
Be 313.107†	15.5	0.00019 mg/L	0.000030	0.00019 mg/L	0.000030	15.91%
Ca 315.887†	54.7	0.01609 mg/L	0.004294	0.01609 mg/L	0.004294	26.69%
Ca 317.933†	19.4	0.00558 mg/L	0.002732	0.00558 mg/L	0.002732	48.93%
Cd 214.440†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
Cd 226.502†	44.1	0.00115 mg/L	0.000148	0.00115 mg/L	0.000148	12.85%
Cd 228.802†	0.6	0.00014 mg/L	0.000293	0.00014 mg/L	0.000293	210.72%
Ce 413.380†	-3.5	-0.00185 mg/L	0.006707	-0.00185 mg/L	0.006707	363.19%
Ce 413.764†	-10.1	-0.00545 mg/L	0.006901	-0.00545 mg/L	0.006901	126.72%
Ce 418.660†	-67.0	-0.01797 mg/L	0.037639	-0.01797 mg/L	0.037639	209.43%
Co 228.616†	-3.7	-0.00009 mg/L	0.000273	-0.00009 mg/L	0.000273	319.62%
Co 230.786†	0.2	0.00017 mg/L	0.000962	0.00017 mg/L	0.000962	573.20%
Co 238.892†	-0.1	-0.00008 mg/L	0.001418	-0.00008 mg/L	0.001418	>999.9%
Cr 205.560†	-0.2	-0.00088 mg/L	0.003278	-0.00088 mg/L	0.003278	373.62%
Cr 267.716†	7.2	0.00025 mg/L	0.000067	0.00025 mg/L	0.000067	27.13%
Cr 283.563†	-1.4	-0.00034 mg/L	0.000571	-0.00034 mg/L	0.000571	169.57%
Cu 224.700†	3.9	0.00505 mg/L	0.000825	0.00505 mg/L	0.000825	16.35%
Cu 324.752†	-5.9	-0.00053 mg/L	0.000335	-0.00053 mg/L	0.000335	63.17%
Cu 327.393†	36.0	0.00052 mg/L	0.000122	0.00052 mg/L	0.000122	23.37%
Fe 238.204†	70.9	0.01831 mg/L	0.003071	0.01831 mg/L	0.003071	16.77%
Fe 239.562†	54.0	0.01805 mg/L	0.002677	0.01805 mg/L	0.002677	14.83%
Fe 259.939†	117.7	0.01798 mg/L	0.002895	0.01798 mg/L	0.002895	16.10%
Fe 273.955†	18.1	0.01917 mg/L	0.005609	0.01917 mg/L	0.005609	29.26%
K 766.490†	15.2	0.02629 mg/L	0.022884	0.02629 mg/L	0.022884	87.06%
Li 610.362†	53.7	0.00804 mg/L	0.000877	0.00804 mg/L	0.000877	10.91%
Li 670.784†	-24.7	-0.00047 mg/L	0.001468	-0.00047 mg/L	0.001468	313.32%
Mg 279.077†	-3.3	-0.00370 mg/L	0.006769	-0.00370 mg/L	0.006769	183.17%
Mg 280.271†	917.4	0.00671 mg/L	0.000094	0.00671 mg/L	0.000094	1.39%
Mg 285.213†	31.4	0.00728 mg/L	0.000167	0.00728 mg/L	0.000167	2.30%
Mn 257.610†	8.9	0.00030 mg/L	0.000018	0.00030 mg/L	0.000018	5.88%
Mn 259.372†	30.3	0.00035 mg/L	0.000165	0.00035 mg/L	0.000165	46.86%
Mn 260.568†	8.6	0.00045 mg/L	0.000039	0.00045 mg/L	0.000039	8.75%
Mo 202.031†	11.3	0.03090 mg/L	0.004711	0.03090 mg/L	0.004711	15.24%
Mo 203.845†	5.7	0.02727 mg/L	0.014448	0.02727 mg/L	0.014448	52.98%
Mo 204.597†	155.4	0.01918 mg/L	0.001931	0.01918 mg/L	0.001931	10.07%
Na 588.995†	659.9	0.1274 mg/L	0.00412	0.1274 mg/L	0.00412	3.23%
Na 589.592†	455.0	0.08612 mg/L	0.002365	0.08612 mg/L	0.002365	2.75%
Ni 221.648†	2943.2	9.598 mg/L	0.0336	9.598 mg/L	0.0336	0.35%
Ni 231.604†	143034.6	9.843 mg/L	0.0735	9.843 mg/L	0.0735	0.75%
Ni 232.003†	4453.4	9.447 mg/L	0.0717	9.447 mg/L	0.0717	0.76%
Pb 217.000†	-1.3	-0.01417 mg/L	0.004156	-0.01417 mg/L	0.004156	29.33%
Pb 220.353†	-2.6	-0.00091 mg/L	0.002581	-0.00091 mg/L	0.002581	282.82%
Sb 206.836†	-1.9	-0.00083 mg/L	0.000459	-0.00083 mg/L	0.000459	55.13%
Sb 217.582†	-0.8	-0.01270 mg/L	0.011166	-0.01270 mg/L	0.011166	87.90%
Se 196.026†	1.0	0.00090 mg/L	0.001423	0.00090 mg/L	0.001423	158.27%
Se 203.985†	2.2	0.00363 mg/L	0.005085	0.00363 mg/L	0.005085	140.07%
Sn 189.927†	-0.1	-0.00009 mg/L	0.001083	-0.00009 mg/L	0.001083	>999.9%
Sn 235.485†	-0.8	-0.00449 mg/L	0.011015	-0.00449 mg/L	0.011015	245.44%
Sr 407.771†	7.8	0.00004 mg/L	0.000088	0.00004 mg/L	0.000088	237.68%
Sr 421.552†	97.6	0.00035 mg/L	0.000221	0.00035 mg/L	0.000221	63.12%
Sr 460.733†	15.1	0.00127 mg/L	0.007149	0.00127 mg/L	0.007149	561.42%
Ti 334.940†	0.2	0.00001 mg/L	0.000056	0.00001 mg/L	0.000056	634.88%
Ti 336.121†	2.1	0.00011 mg/L	0.000511	0.00011 mg/L	0.000511	485.95%
Ti 337.279†	-12.6	-0.00149 mg/L	0.000366	-0.00149 mg/L	0.000366	24.59%
Tl 190.801†	0.0	0.00000 mg/L	0.003642	0.00000 mg/L	0.003642	>999.9%
Tl 276.787†	-3.3	-0.00075 mg/L	0.000985	-0.00075 mg/L	0.000985	131.69%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	-14.2	-0.00386 mg/L	0.000689	-0.00386 mg/L	0.000689	17.86%
V 309.310†	0.2	0.00003 mg/L	0.001608	0.00003 mg/L	0.001608	>999.9%
V 310.230†	-501.4	-0.00317 mg/L	0.000439	-0.00317 mg/L	0.000439	13.83%
Zn 202.548†	9.7	0.00325 mg/L	0.001515	0.00325 mg/L	0.001515	46.65%
Zn 206.200†	3.7	0.00398 mg/L	0.000973	0.00398 mg/L	0.000973	24.46%
Zn 213.857†	198.3	-0.00069 mg/L	0.000161	-0.00069 mg/L	0.000161	23.22%

Sequence No.: 24
Sample ID: SIC Ti
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 26
Date Collected: 11/9/01 10:53:14 AM
Sample Prep Volume:
Data Type: Original

Mean Data: SIC Ti

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	289028.6						4858.04	1.68%
Y 360.073	3792299.0						32424.21	0.86%
Ag 328.068†	-103.2	-0.00054	mg/L	0.000162	-0.00054	mg/L	0.000162	30.09%
Ag 338.289†	72.9	0.00069	mg/L	0.001206	0.00069	mg/L	0.001206	174.66%
Al 308.215†	47.8	0.06420	mg/L	0.006348	0.06420	mg/L	0.006348	9.89%
Al 394.401†	20.3	0.02251	mg/L	0.004229	0.02251	mg/L	0.004229	18.79%
Al 396.153†	73.8	0.02152	mg/L	0.001413	0.02152	mg/L	0.001413	6.57%
As 188.979†	-0.3	-0.00744	mg/L	0.026425	-0.00744	mg/L	0.026425	355.28%
As 193.696†	0.8	0.00081	mg/L	0.000278	0.00081	mg/L	0.000278	34.49%
As 197.197†	0.6	0.02174	mg/L	0.022737	0.02174	mg/L	0.022737	104.60%
B 208.889†	1.9	0.00819	mg/L	0.008033	0.00819	mg/L	0.008033	98.11%
B 249.677†	13.6	0.00872	mg/L	0.000940	0.00872	mg/L	0.000940	10.78%
B 249.772†	15.1	0.00464	mg/L	0.001285	0.00464	mg/L	0.001285	27.66%
Ba 233.527†	3.5	0.00079	mg/L	0.000068	0.00079	mg/L	0.000068	8.57%
Ba 455.403†	28.4	0.00030	mg/L	0.000039	0.00030	mg/L	0.000039	12.93%
Ba 493.408†	45.7	0.00028	mg/L	0.000112	0.00028	mg/L	0.000112	40.07%
Be 234.861†	0.9	0.00000	mg/L	0.000020	0.00000	mg/L	0.000020	846.59%
Be 313.042†	16.9	0.00020	mg/L	0.000023	0.00020	mg/L	0.000023	11.26%
Be 313.107†	16.9	0.00020	mg/L	0.000023	0.00020	mg/L	0.000023	11.26%
Ca 315.887†	110.2	0.03241	mg/L	0.000519	0.03241	mg/L	0.000519	1.60%
Ca 317.933†	67.2	0.01931	mg/L	0.009547	0.01931	mg/L	0.009547	49.45%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	-3.1	-0.00008	mg/L	0.000069	-0.00008	mg/L	0.000069	84.28%
Cd 228.802†	-1.5	-0.00034	mg/L	0.000341	-0.00034	mg/L	0.000341	99.10%
Ce 413.380†	7.0	0.00369	mg/L	0.001599	0.00369	mg/L	0.001599	43.38%
Ce 413.764†	1.3	0.00073	mg/L	0.003432	0.00073	mg/L	0.003432	472.21%
Ce 418.660†	-13.8	-0.00370	mg/L	0.007539	-0.00370	mg/L	0.007539	203.94%
Co 228.616†	133.6	0.00311	mg/L	0.000205	0.00311	mg/L	0.000205	6.59%
Co 230.786†	0.7	0.00063	mg/L	0.001098	0.00063	mg/L	0.001098	174.77%
Co 238.892†	-0.8	-0.00048	mg/L	0.001034	-0.00048	mg/L	0.001034	214.34%
Cr 205.560†	0.8	0.00274	mg/L	0.002692	0.00274	mg/L	0.002692	98.14%
Cr 267.716†	34.1	0.00117	mg/L	0.000092	0.00117	mg/L	0.000092	7.88%
Cr 283.563†	3.8	0.00090	mg/L	0.000659	0.00090	mg/L	0.000659	72.90%
Cu 224.700†	2.1	0.00273	mg/L	0.001882	0.00273	mg/L	0.001882	68.87%
Cu 324.752†	-3.0	-0.00027	mg/L	0.000235	-0.00027	mg/L	0.000235	86.67%
Cu 327.393†	21.6	0.00031	mg/L	0.000097	0.00031	mg/L	0.000097	30.91%
Fe 238.204†	94.2	0.02433	mg/L	0.002800	0.02433	mg/L	0.002800	11.51%
Fe 239.562†	74.8	0.02501	mg/L	0.001638	0.02501	mg/L	0.001638	6.55%
Fe 259.939†	152.9	0.02336	mg/L	0.002438	0.02336	mg/L	0.002438	10.44%
Fe 273.955†	19.3	0.02047	mg/L	0.002381	0.02047	mg/L	0.002381	11.63%
K 766.490†	34.5	0.05957	mg/L	0.013945	0.05957	mg/L	0.013945	23.41%
Li 610.362†	66.6	0.00996	mg/L	0.010910	0.00996	mg/L	0.010910	109.54%
Li 670.784†	54.0	0.00102	mg/L	0.000825	0.00102	mg/L	0.000825	80.63%
Mg 279.077†	6.0	0.00670	mg/L	0.001697	0.00670	mg/L	0.001697	25.31%
Mg 280.271†	1649.3	0.01206	mg/L	0.000459	0.01206	mg/L	0.000459	3.81%
Mg 285.213†	54.3	0.01260	mg/L	0.000468	0.01260	mg/L	0.000468	3.72%
Mn 257.610†	9.9	0.00034	mg/L	0.000092	0.00034	mg/L	0.000092	27.07%
Mn 259.372†	23.6	0.00050	mg/L	0.000207	0.00050	mg/L	0.000207	41.69%
Mn 260.568†	6.6	0.00034	mg/L	0.000159	0.00034	mg/L	0.000159	46.22%
Mo 202.031†	3.0	0.00823	mg/L	0.002884	0.00823	mg/L	0.002884	35.05%
Mo 203.845†	0.1	0.00060	mg/L	0.000807	0.00060	mg/L	0.000807	133.68%
Mo 204.597†	36.7	0.00453	mg/L	0.000306	0.00453	mg/L	0.000306	6.74%
Na 588.995†	683.5	0.1319	mg/L	0.00841	0.1319	mg/L	0.00841	6.38%
Na 589.592†	437.0	0.08272	mg/L	0.001414	0.08272	mg/L	0.001414	1.71%
Ni 221.648†	0.8	0.00245	mg/L	0.000896	0.00245	mg/L	0.000896	36.56%
Ni 231.604†	24.1	0.00166	mg/L	0.000713	0.00166	mg/L	0.000713	43.00%
Ni 232.003†	4.5	0.00958	mg/L	0.002785	0.00958	mg/L	0.002785	29.06%
Pb 217.000†	0.5	0.00512	mg/L	0.009079	0.00512	mg/L	0.009079	177.16%
Pb 220.353†	-0.2	-0.00008	mg/L	0.000757	-0.00008	mg/L	0.000757	892.63%

Sb 206.836†	-1.2	-0.00051 mg/L	0.000435	-0.00051 mg/L	0.000435	85.06%
Sb 217.582†	0.5	0.00724 mg/L	0.018077	0.00724 mg/L	0.018077	249.71%
Se 196.026†	-2.0	-0.00172 mg/L	0.001479	-0.00172 mg/L	0.001479	86.21%
Se 203.985†	0.7	0.00116 mg/L	0.002915	0.00116 mg/L	0.002915	251.06%
Sn 189.927†	-5.9	-0.00420 mg/L	0.000516	-0.00420 mg/L	0.000516	12.31%
Sn 235.485†	2.3	0.01267 mg/L	0.010283	0.01267 mg/L	0.010283	81.19%
Sr 407.771†	65.4	0.00031 mg/L	0.000076	0.00031 mg/L	0.000076	24.42%
Sr 421.552†	79.6	0.00029 mg/L	0.000043	0.00029 mg/L	0.000043	15.19%
Sr 460.733†	37.3	0.00315 mg/L	0.005917	0.00315 mg/L	0.005917	187.60%
Ti 334.940†	226429.4	9.473 mg/L	0.0422	9.473 mg/L	0.0422	0.45%
Ti 336.121†	186982.3	9.499 mg/L	0.0455	9.499 mg/L	0.0455	0.48%
Ti 337.279†	79963.1	9.453 mg/L	0.0531	9.453 mg/L	0.0531	0.56%
Tl 190.801†	-19.8	-0.02171 mg/L	0.004018	-0.02171 mg/L	0.004018	18.51%
Tl 276.787†	-5.0	-0.00113 mg/L	0.000767	-0.00113 mg/L	0.000767	67.79%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	-20.9	-0.00570 mg/L	0.000352	-0.00570 mg/L	0.000352	6.17%
V 309.310†	-8.0	-0.00120 mg/L	0.000684	-0.00120 mg/L	0.000684	57.19%
V 310.230†	-502.3	-0.00318 mg/L	0.000846	-0.00318 mg/L	0.000846	26.63%
Zn 202.548†	6.1	0.00267 mg/L	0.001138	0.00267 mg/L	0.001138	42.53%
Zn 206.200†	2.3	0.00242 mg/L	0.000415	0.00242 mg/L	0.000415	17.16%
Zn 213.857†	6.3	0.00150 mg/L	0.000724	0.00150 mg/L	0.000724	48.12%

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Sequence No.: 25
Sample ID: wash
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 17
Date Collected: 11/9/01 10:57:49 AM
Sample Prep Volume:
Data Type: Original

Mean Data: wash

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	288284.6						623.58	0.22%
Y 360.073	3823799.8						23707.48	0.62%
Ag 328.068†	-16.2	-0.00008	mg/L	0.000055	-0.00008	mg/L	0.000055	65.69%
Ag 338.289†	-30.3	-0.00029	mg/L	0.000658	-0.00029	mg/L	0.000658	229.27%
Al 308.215†	42.6	0.05723	mg/L	0.039847	0.05723	mg/L	0.039847	69.62%
Al 394.401†	31.9	0.03544	mg/L	0.044448	0.03544	mg/L	0.044448	125.42%
Al 396.153†	102.3	0.03006	mg/L	0.038006	0.03006	mg/L	0.038006	126.44%
As 188.979†	-0.9	-0.02064	mg/L	0.005743	-0.02064	mg/L	0.005743	27.83%
As 193.696†	1.5	0.00164	mg/L	0.002558	0.00164	mg/L	0.002558	156.12%
As 197.197†	0.5	0.01794	mg/L	0.019604	0.01794	mg/L	0.019604	109.26%
B 208.889†	-2.1	-0.00921	mg/L	0.012507	-0.00921	mg/L	0.012507	135.80%
B 249.677†	1.1	0.00069	mg/L	0.002366	0.00069	mg/L	0.002366	342.87%
B 249.772†	-3.7	-0.00114	mg/L	0.000422	-0.00114	mg/L	0.000422	36.85%
Ba 233.527†	1.9	0.00044	mg/L	0.000276	0.00044	mg/L	0.000276	62.27%
Ba 455.403†	27.9	0.00030	mg/L	0.000153	0.00030	mg/L	0.000153	51.38%
Ba 493.408†	73.0	0.00045	mg/L	0.000169	0.00045	mg/L	0.000169	37.68%
Be 234.861†	29.1	0.00008	mg/L	0.000042	0.00008	mg/L	0.000042	55.89%
Be 313.042†	12.3	0.00015	mg/L	0.000038	0.00015	mg/L	0.000038	25.55%
Be 313.107†	12.3	0.00015	mg/L	0.000038	0.00015	mg/L	0.000038	25.55%
Ca 315.887†	29.7	0.00873	mg/L	0.001672	0.00873	mg/L	0.001672	19.15%
Ca 317.933†	0.8	0.00024	mg/L	0.003363	0.00024	mg/L	0.003363	>999.9%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	-6.2	-0.00016	mg/L	0.000070	-0.00016	mg/L	0.000070	43.16%
Cd 228.802†	-2.7	-0.00063	mg/L	0.000144	-0.00063	mg/L	0.000144	22.76%
Ce 413.380†	-12.6	-0.00666	mg/L	0.002274	-0.00666	mg/L	0.002274	34.13%
Ce 413.764†	-5.1	-0.00276	mg/L	0.005993	-0.00276	mg/L	0.005993	217.18%
Ce 418.660†	-21.1	-0.00564	mg/L	0.007691	-0.00564	mg/L	0.007691	136.26%
Co 228.616†	9.7	0.00022	mg/L	0.000183	0.00022	mg/L	0.000183	81.64%
Co 230.786†	-0.0	-0.00002	mg/L	0.000331	-0.00002	mg/L	0.000331	>999.9%
Co 238.892†	1.0	0.00060	mg/L	0.000771	0.00060	mg/L	0.000771	128.56%
Cr 205.560†	-0.0	-0.00001	mg/L	0.001949	-0.00001	mg/L	0.001949	>999.9%
Cr 267.716†	5.0	0.00017	mg/L	0.000078	0.00017	mg/L	0.000078	45.41%
Cr 283.563†	-3.5	-0.00085	mg/L	0.000373	-0.00085	mg/L	0.000373	43.97%
Cu 224.700†	0.1	0.00016	mg/L	0.002178	0.00016	mg/L	0.002178	>999.9%
Cu 324.752†	-37.7	-0.00338	mg/L	0.000207	-0.00338	mg/L	0.000207	6.12%
Cu 327.393†	-157.1	-0.00228	mg/L	0.000285	-0.00228	mg/L	0.000285	12.51%
Fe 238.204†	40.3	0.01042	mg/L	0.002127	0.01042	mg/L	0.002127	20.42%

Fe 239.562†	33.0	0.01105	mg/L	0.001607	0.01105	mg/L	0.001607	14.54%
Fe 259.939†	68.5	0.01046	mg/L	0.001441	0.01046	mg/L	0.001441	13.78%
Fe 273.955†	10.4	0.01100	mg/L	0.002237	0.01100	mg/L	0.002237	20.35%
K 766.490†	-60.7	-0.1050	mg/L	0.03743	-0.1050	mg/L	0.03743	35.64%
Li 610.362†	36.5	0.00547	mg/L	0.015346	0.00547	mg/L	0.015346	280.69%
Li 670.784†	-35.3	-0.00067	mg/L	0.000948	-0.00067	mg/L	0.000948	141.74%
Mg 279.077†	22.2	0.02475	mg/L	0.010122	0.02475	mg/L	0.010122	40.89%
Mg 280.271†	2688.2	0.01966	mg/L	0.000559	0.01966	mg/L	0.000559	2.84%
Mg 285.213†	86.6	0.02010	mg/L	0.000158	0.02010	mg/L	0.000158	0.79%
Mn 257.610†	-3.0	-0.00010	mg/L	0.000083	-0.00010	mg/L	0.000083	81.68%
Mn 259.372†	6.6	0.00014	mg/L	0.000040	0.00014	mg/L	0.000040	29.01%
Mn 260.568†	0.9	0.00005	mg/L	0.000202	0.00005	mg/L	0.000202	439.91%
Mo 202.031†	0.5	0.00130	mg/L	0.001809	0.00130	mg/L	0.001809	138.86%
Mo 203.845†	2.4	0.01151	mg/L	0.006277	0.01151	mg/L	0.006277	54.55%
Mo 204.597†	10.6	0.00131	mg/L	0.000079	0.00131	mg/L	0.000079	6.06%
Na 588.995†	400.5	0.07729	mg/L	0.005702	0.07729	mg/L	0.005702	7.38%
Na 589.592†	166.0	0.03142	mg/L	0.003947	0.03142	mg/L	0.003947	12.56%
Ni 221.648†	-0.0	-0.00010	mg/L	0.003199	-0.00010	mg/L	0.003199	>999.9%
Ni 231.604†	4.0	0.00028	mg/L	0.000063	0.00028	mg/L	0.000063	22.81%
Ni 232.003†	2.7	0.00572	mg/L	0.003567	0.00572	mg/L	0.003567	62.32%
Pb 217.000†	-1.0	-0.01160	mg/L	0.021352	-0.01160	mg/L	0.021352	184.08%
Pb 220.353†	-0.0	-0.00001	mg/L	0.001139	-0.00001	mg/L	0.001139	>999.9%
Sb 206.836†	-0.9	-0.00041	mg/L	0.001015	-0.00041	mg/L	0.001015	248.30%
Sb 217.582†	0.3	0.00417	mg/L	0.013191	0.00417	mg/L	0.013191	316.31%
Se 196.026†	1.8	0.00157	mg/L	0.001608	0.00157	mg/L	0.001608	102.37%
Se 203.985†	3.9	0.00655	mg/L	0.002333	0.00655	mg/L	0.002333	35.59%
Sn 189.927†	0.0	0.00002	mg/L	0.001176	0.00002	mg/L	0.001176	>999.9%
Sn 235.485†	-1.6	-0.00894	mg/L	0.022671	-0.00894	mg/L	0.022671	253.72%
Sr 407.771†	-52.0	-0.00025	mg/L	0.000104	-0.00025	mg/L	0.000104	41.94%
Sr 421.552†	-8.6	-0.00003	mg/L	0.000329	-0.00003	mg/L	0.000329	>999.9%
Sr 460.733†	-30.3	-0.00256	mg/L	0.007313	-0.00256	mg/L	0.007313	285.81%
Ti 334.940†	57.6	0.00241	mg/L	0.000723	0.00241	mg/L	0.000723	29.99%
Ti 336.121†	71.4	0.00363	mg/L	0.001452	0.00363	mg/L	0.001452	40.06%
Ti 337.279†	6.6	0.00078	mg/L	0.000698	0.00078	mg/L	0.000698	89.71%
Tl 190.801†	-2.3	-0.00250	mg/L	0.001280	-0.00250	mg/L	0.001280	51.13%
Tl 276.787†	3.1	0.00071	mg/L	0.000504	0.00071	mg/L	0.000504	71.29%
Tl 351.924†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
V 290.880†	-19.4	-0.00527	mg/L	0.000876	-0.00527	mg/L	0.000876	16.63%
V 309.310†	-7.3	-0.00110	mg/L	0.000165	-0.00110	mg/L	0.000165	14.96%
V 310.230†	-679.8	-0.00430	mg/L	0.000628	-0.00430	mg/L	0.000628	14.59%
Zn 202.548†	2.8	0.00123	mg/L	0.001005	0.00123	mg/L	0.001005	82.02%
Zn 206.200†	1.4	0.00147	mg/L	0.000515	0.00147	mg/L	0.000515	35.06%
Zn 213.857†	2.9	0.00069	mg/L	0.000885	0.00069	mg/L	0.000885	128.78%

Sequence No.: 26 **Autosampler Location: 1**
Sample ID: BLANK **Date Collected: 11/9/01 11:02:21 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: BLANK

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	289969.4						3033.31	1.05%
Y 360.073	3780761.8						40776.43	1.08%
Ag 328.068†	-4.1	-0.00002	mg/L	0.000169	-0.00002	mg/L	0.000169	791.23%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	-25.0	-0.00024	mg/L	0.000612	-0.00024	mg/L	0.000612	258.30%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215†	18.8	0.02521	mg/L	0.004160	0.02521	mg/L	0.004160	16.50%
QC value within limits for Al 308.215 Recovery = Not calculated								
Al 394.401†	4.9	0.00545	mg/L	0.003726	0.00545	mg/L	0.003726	68.38%
QC value within limits for Al 394.401 Recovery = Not calculated								
Al 396.153†	26.4	0.00745	mg/L	0.001758	0.00745	mg/L	0.001758	23.60%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-0.4	-0.00947	mg/L	0.004348	-0.00947	mg/L	0.004348	45.92%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	1.2	0.00126	mg/L	0.001610	0.00126	mg/L	0.001610	127.87%

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   QC value within limits for As 193.696  Recovery = Not calculated
As 197.197†                1.0     0.03821 mg/L      0.010151     0.03821 mg/L      0.010151  26.56%
   QC value within limits for As 197.197  Recovery = Not calculated
B 208.889†                -1.7    -0.00744 mg/L      0.007402    -0.00744 mg/L      0.007402  99.53%
   QC value within limits for B 208.889  Recovery = Not calculated
B 249.677†                 0.3     0.00021 mg/L      0.001510     0.00021 mg/L      0.001510 703.82%
   QC value within limits for B 249.677  Recovery = Not calculated
B 249.772†                -3.1    -0.00096 mg/L      0.001589    -0.00096 mg/L      0.001589 165.39%
   QC value within limits for B 249.772  Recovery = Not calculated
Ba 233.527†                0.3     0.00007 mg/L      0.000056     0.00007 mg/L      0.000056  75.76%
   QC value within limits for Ba 233.527  Recovery = Not calculated
Ba 455.403†                5.0     0.00005 mg/L      0.000069     0.00005 mg/L      0.000069 128.63%
   QC value within limits for Ba 455.403  Recovery = Not calculated
Ba 493.408†               21.7     0.00013 mg/L      0.000342     0.00013 mg/L      0.000342 257.46%
   QC value within limits for Ba 493.408  Recovery = Not calculated
Be 234.861†               40.4     0.00010 mg/L      0.000008     0.00010 mg/L      0.000008   7.38%
   QC value within limits for Be 234.861  Recovery = Not calculated
Be 313.042†               12.5     0.00015 mg/L      0.000003     0.00015 mg/L      0.000003   1.97%
   QC value within limits for Be 313.042  Recovery = Not calculated
Be 313.107†               12.5     0.00015 mg/L      0.000003     0.00015 mg/L      0.000003   1.97%
   QC value within limits for Be 313.107  Recovery = Not calculated
Ca 315.887†               36.2     0.01063 mg/L      0.003207     0.01063 mg/L      0.003207  30.16%
   QC value within limits for Ca 315.887  Recovery = Not calculated
Ca 317.933†               -4.3    -0.00124 mg/L      0.003609    -0.00124 mg/L      0.003609 290.92%
   QC value within limits for Ca 317.933  Recovery = Not calculated
Cd 214.440†                0.0     0.00000 mg/L      0.000000     0.00000 mg/L      0.000000   0.00%
   QC value within limits for Cd 214.440  Recovery = Not calculated
Cd 226.502†               -0.2    -0.00001 mg/L      0.000029    -0.00001 mg/L      0.000029 459.20%
   QC value within limits for Cd 226.502  Recovery = Not calculated
Cd 228.802†               -0.8    -0.00019 mg/L      0.000157    -0.00019 mg/L      0.000157  85.06%
   QC value within limits for Cd 228.802  Recovery = Not calculated
Ce 413.380†               15.3     0.00809 mg/L      0.006623     0.00809 mg/L      0.006623  81.87%
   QC value within limits for Ce 413.380  Recovery = Not calculated
Ce 413.764†              -16.1    -0.00867 mg/L      0.004869    -0.00867 mg/L      0.004869  56.17%
   QC value within limits for Ce 413.764  Recovery = Not calculated
Ce 418.660†              -18.3    -0.00492 mg/L      0.011051    -0.00492 mg/L      0.011051 224.75%
   QC value within limits for Ce 418.660  Recovery = Not calculated
Co 228.616†                3.8     0.00009 mg/L      0.000257     0.00009 mg/L      0.000257 293.30%
   QC value within limits for Co 228.616  Recovery = Not calculated
Co 230.786†               -0.1    -0.00009 mg/L      0.001653    -0.00009 mg/L      0.001653 >999.9%
   QC value within limits for Co 230.786  Recovery = Not calculated
Co 238.892†               -0.0    -0.00002 mg/L      0.001757    -0.00002 mg/L      0.001757 >999.9%
   QC value within limits for Co 238.892  Recovery = Not calculated
Cr 205.560†                0.2     0.00058 mg/L      0.002495     0.00058 mg/L      0.002495 427.49%
   QC value within limits for Cr 205.560  Recovery = Not calculated
Cr 267.716†                6.2     0.00021 mg/L      0.000020     0.00021 mg/L      0.000020   9.28%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cr 283.563†               -4.2    -0.00101 mg/L      0.000354    -0.00101 mg/L      0.000354  35.10%
   QC value within limits for Cr 283.563  Recovery = Not calculated
Cu 224.700†                2.1     0.00276 mg/L      0.000761     0.00276 mg/L      0.000761  27.55%
   QC value within limits for Cu 224.700  Recovery = Not calculated
Cu 324.752†              -16.6    -0.00149 mg/L      0.000112    -0.00149 mg/L      0.000112   7.51%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Cu 327.393†              -32.0    -0.00046 mg/L      0.000403    -0.00046 mg/L      0.000403  86.90%
   QC value within limits for Cu 327.393  Recovery = Not calculated
Fe 238.204†               48.9     0.01263 mg/L      0.002358     0.01263 mg/L      0.002358  18.67%
   QC value within limits for Fe 238.204  Recovery = Not calculated
Fe 239.562†               37.1     0.01242 mg/L      0.002197     0.01242 mg/L      0.002197  17.69%
   QC value within limits for Fe 239.562  Recovery = Not calculated
Fe 259.939†               81.6     0.01246 mg/L      0.002328     0.01246 mg/L      0.002328  18.68%
   QC value within limits for Fe 259.939  Recovery = Not calculated
Fe 273.955†               11.6     0.01229 mg/L      0.001885     0.01229 mg/L      0.001885  15.34%
   QC value within limits for Fe 273.955  Recovery = Not calculated
K 766.490†                -2.9    -0.00497 mg/L      0.014236    -0.00497 mg/L      0.014236 286.71%
   QC value within limits for K 766.490  Recovery = Not calculated
Li 610.362†              162.8     0.02436 mg/L      0.007220     0.02436 mg/L      0.007220  29.64%
   QC value within limits for Li 610.362  Recovery = Not calculated
Li 670.784†               -1.5    -0.00003 mg/L      0.000513    -0.00003 mg/L      0.000513 >999.9%
   QC value within limits for Li 670.784  Recovery = Not calculated
Mg 279.077†               -1.2    -0.00140 mg/L      0.004806    -0.00140 mg/L      0.004806 344.52%
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   QC value within limits for Mg 279.077  Recovery = Not calculated
Mg 280.271†            1141.3     0.00835 mg/L      0.000043     0.00835 mg/L      0.000043   0.52%
   QC value within limits for Mg 280.271  Recovery = Not calculated
Mg 285.213†              39.2     0.00910 mg/L      0.000200     0.00910 mg/L      0.000200   2.20%
   QC value within limits for Mg 285.213  Recovery = Not calculated
Mn 257.610†               5.6     0.00019 mg/L      0.000058     0.00019 mg/L      0.000058  30.44%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mn 259.372†              19.4     0.00042 mg/L      0.000209     0.00042 mg/L      0.000209  49.18%
   QC value within limits for Mn 259.372  Recovery = Not calculated
Mn 260.568†               7.3     0.00038 mg/L      0.000034     0.00038 mg/L      0.000034   8.90%
   QC value within limits for Mn 260.568  Recovery = Not calculated
Mo 202.031†               1.6     0.00434 mg/L      0.001593     0.00434 mg/L      0.001593  36.70%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Mo 203.845†              -2.3    -0.01094 mg/L      0.007322    -0.01094 mg/L      0.007322  66.92%
   QC value within limits for Mo 203.845  Recovery = Not calculated
Mo 204.597†              11.2     0.00138 mg/L      0.000274     0.00138 mg/L      0.000274  19.83%
   QC value within limits for Mo 204.597  Recovery = Not calculated
Na 588.995†             556.9      0.1075 mg/L       0.00712      0.1075 mg/L       0.00712   6.63%
   QC value within limits for Na 588.995  Recovery = Not calculated
Na 589.592†             312.4     0.05914 mg/L      0.006619     0.05914 mg/L      0.006619  11.19%
   QC value within limits for Na 589.592  Recovery = Not calculated
Ni 221.648†               0.1     0.00027 mg/L      0.001596     0.00027 mg/L      0.001596 590.66%
   QC value within limits for Ni 221.648  Recovery = Not calculated
Ni 231.604†               3.4     0.00023 mg/L      0.000437     0.00023 mg/L      0.000437 189.16%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Ni 232.003†               3.5     0.00743 mg/L      0.000283     0.00743 mg/L      0.000283   3.81%
   QC value within limits for Ni 232.003  Recovery = Not calculated
Pb 217.000†              -1.2    -0.01314 mg/L      0.011312    -0.01314 mg/L      0.011312  86.08%
   QC value within limits for Pb 217.000  Recovery = Not calculated
Pb 220.353†              -2.4    -0.00087 mg/L      0.001175    -0.00087 mg/L      0.001175 134.93%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†              -0.3    -0.00014 mg/L      0.002599    -0.00014 mg/L      0.002599 >999.9%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Sb 217.582†              -0.0    -0.00039 mg/L      0.012226    -0.00039 mg/L      0.012226 >999.9%
   QC value within limits for Sb 217.582  Recovery = Not calculated
Se 196.026†               2.5     0.00213 mg/L      0.002170     0.00213 mg/L      0.002170 101.71%
   QC value within limits for Se 196.026  Recovery = Not calculated
Se 203.985†               3.4     0.00572 mg/L      0.004119     0.00572 mg/L      0.004119  71.99%
   QC value within limits for Se 203.985  Recovery = Not calculated
Sn 189.927†               0.1     0.00004 mg/L      0.000548     0.00004 mg/L      0.000548 >999.9%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sn 235.485†              -1.2    -0.00661 mg/L      0.013008    -0.00661 mg/L      0.013008 196.86%
   QC value within limits for Sn 235.485  Recovery = Not calculated
Sr 407.771†              36.8     0.00018 mg/L      0.000098     0.00018 mg/L      0.000098  56.24%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Sr 421.552†              19.6     0.00007 mg/L      0.000330     0.00007 mg/L      0.000330 469.82%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Sr 460.733†             -34.1    -0.00288 mg/L      0.006013    -0.00288 mg/L      0.006013 208.42%
   QC value within limits for Sr 460.733  Recovery = Not calculated
Ti 334.940†              25.5     0.00107 mg/L      0.000117     0.00107 mg/L      0.000117  10.97%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Ti 336.121†              37.2     0.00189 mg/L      0.000197     0.00189 mg/L      0.000197  10.44%
   QC value within limits for Ti 336.121  Recovery = Not calculated
Ti 337.279†              -4.1    -0.00048 mg/L      0.000739    -0.00048 mg/L      0.000739 153.24%
   QC value within limits for Ti 337.279  Recovery = Not calculated
Tl 190.801†              -0.5    -0.00056 mg/L      0.000874    -0.00056 mg/L      0.000874 154.75%
   QC value within limits for Tl 190.801  Recovery = Not calculated
Tl 276.787†             -12.7    -0.00290 mg/L      0.000691    -0.00290 mg/L      0.000691  23.80%
   QC value within limits for Tl 276.787  Recovery = Not calculated
Tl 351.924†               0.0     0.00000 mg/L      0.000000     0.00000 mg/L      0.000000   0.00%
   QC value within limits for Tl 351.924  Recovery = Not calculated
V 290.880†              -19.5    -0.00532 mg/L      0.000945    -0.00532 mg/L      0.000945  17.76%
   QC value within limits for V 290.880  Recovery = Not calculated
V 309.310†               -7.7    -0.00116 mg/L      0.000708    -0.00116 mg/L      0.000708  61.08%
   QC value within limits for V 309.310  Recovery = Not calculated
V 310.230†             -703.5    -0.00445 mg/L      0.000553    -0.00445 mg/L      0.000553  12.43%
   QC value within limits for V 310.230  Recovery = Not calculated
Zn 202.548†               1.7     0.00073 mg/L      0.000249     0.00073 mg/L      0.000249  34.27%
   QC value within limits for Zn 202.548  Recovery = Not calculated
Zn 206.200†               1.8     0.00190 mg/L      0.000861     0.00190 mg/L      0.000861  45.19%
```

QC value within limits for Zn 206.200 Recovery = Not calculated
Zn 213.857† 4.4 0.00107 mg/L 0.000427 0.00107 mg/L 0.000427 40.03%
QC value within limits for Zn 213.857 Recovery = Not calculated
All analytes passed QC.

Sequence No.: 27
Sample ID: LCM1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 11/9/01 11:06:48 AM
Sample Prep Volume:
Data Type: Original

Mean Data: LCM1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	287849.7						3182.16	1.11%
Y 360.073	3796712.6						57334.79	1.51%
Ag 328.068†	27516.7	0.1436	mg/L	0.00231	0.1436	mg/L	0.00231	1.61%
Ag 338.289†	15211.9	0.1441	mg/L	0.00296	0.1441	mg/L	0.00296	2.05%
Al 308.215†	720.7	0.9677	mg/L	0.01049	0.9677	mg/L	0.01049	1.08%
QC value within limits for Al 308.215 Recovery = 96.77%								
Al 394.401†	876.1	0.9733	mg/L	0.01763	0.9733	mg/L	0.01763	1.81%
QC value within limits for Al 394.401 Recovery = 97.33%								
Al 396.153†	3391.0	0.9986	mg/L	0.03043	0.9986	mg/L	0.03043	3.05%
QC value within limits for Al 396.153 Recovery = 99.86%								
As 188.979†	83.0	1.822	mg/L	0.0531	1.822	mg/L	0.0531	2.91%
QC value within limits for As 188.979 Recovery = 91.10%								
As 193.696†	1806.9	1.944	mg/L	0.0242	1.944	mg/L	0.0242	1.24%
QC value within limits for As 193.696 Recovery = 97.18%								
As 197.197†	51.4	1.885	mg/L	0.0245	1.885	mg/L	0.0245	1.30%
QC value within limits for As 197.197 Recovery = 94.27%								
B 208.889†	201.6	0.8764	mg/L	0.03086	0.8764	mg/L	0.03086	3.52%
QC value less than the lower limit for B 208.889 Recovery = 87.64%								
B 249.677†	1343.8	0.8625	mg/L	0.01178	0.8625	mg/L	0.01178	1.37%
QC value less than the lower limit for B 249.677 Recovery = 86.25%								
B 249.772†	2801.0	0.8637	mg/L	0.01191	0.8637	mg/L	0.01191	1.38%
QC value less than the lower limit for B 249.772 Recovery = 86.37%								
Ba 233.527†	4110.2	0.9351	mg/L	0.02216	0.9351	mg/L	0.02216	2.37%
QC value within limits for Ba 233.527 Recovery = 93.51%								
Ba 455.403†	90550.4	0.9703	mg/L	0.00278	0.9703	mg/L	0.00278	0.29%
QC value within limits for Ba 455.403 Recovery = 97.03%								
Ba 493.408†	153964.3	0.9452	mg/L	0.00186	0.9452	mg/L	0.00186	0.20%
QC value within limits for Ba 493.408 Recovery = 94.52%								
Be 234.861†	410068.7	1.064	mg/L	0.0133	1.064	mg/L	0.0133	1.25%
QC value within limits for Be 234.861 Recovery = 106.36%								
Be 313.042†	79209.8	0.9573	mg/L	0.00073	0.9573	mg/L	0.00073	0.08%
QC value within limits for Be 313.042 Recovery = 95.73%								
Be 313.107†	79209.8	0.9573	mg/L	0.00073	0.9573	mg/L	0.00073	0.08%
QC value within limits for Be 313.107 Recovery = 95.73%								
Ca 315.887†	3605.2	1.060	mg/L	0.0283	1.060	mg/L	0.0283	2.67%
QC value within limits for Ca 315.887 Recovery = 106.02%								
Ca 317.933†	3278.2	0.9423	mg/L	0.01808	0.9423	mg/L	0.01808	1.92%
QC value within limits for Ca 317.933 Recovery = 94.23%								
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
QC value less than the lower limit for Cd 214.440 Recovery = 0.00%								
Cd 226.502†	35618.1	0.9317	mg/L	0.01622	0.9317	mg/L	0.01622	1.74%
QC value within limits for Cd 226.502 Recovery = 93.17%								
Cd 228.802†	3861.4	0.9053	mg/L	0.01858	0.9053	mg/L	0.01858	2.05%
QC value within limits for Cd 228.802 Recovery = 90.53%								
Ce 413.380†	1829.2	0.9695	mg/L	0.03901	0.9695	mg/L	0.03901	4.02%
QC value within limits for Ce 413.380 Recovery = 96.95%								
Ce 413.764†	1808.0	0.9736	mg/L	0.01620	0.9736	mg/L	0.01620	1.66%
QC value within limits for Ce 413.764 Recovery = 97.36%								
Ce 418.660†	3666.1	0.9830	mg/L	0.00784	0.9830	mg/L	0.00784	0.80%
QC value within limits for Ce 418.660 Recovery = 98.30%								
Co 228.616†	40119.0	0.9334	mg/L	0.01280	0.9334	mg/L	0.01280	1.37%
QC value within limits for Co 228.616 Recovery = 93.34%								
Co 230.786†	1002.8	0.9328	mg/L	0.01145	0.9328	mg/L	0.01145	1.23%
QC value within limits for Co 230.786 Recovery = 93.28%								

Co 238.892†	1512.1	0.9241 mg/L	0.01319	0.9241 mg/L	0.01319	1.43%
QC value within limits for Co 238.892 Recovery = 92.41%						
Cr 205.560†	254.9	0.9214 mg/L	0.01064	0.9214 mg/L	0.01064	1.15%
QC value within limits for Cr 205.560 Recovery = 92.14%						
Cr 267.716†	27366.1	0.9387 mg/L	0.01686	0.9387 mg/L	0.01686	1.80%
QC value within limits for Cr 267.716 Recovery = 93.87%						
Cr 283.563†	4217.0	1.008 mg/L	0.0231	1.008 mg/L	0.0231	2.29%
QC value within limits for Cr 283.563 Recovery = 100.78%						
Cu 224.700†	700.6	0.9068 mg/L	0.01195	0.9068 mg/L	0.01195	1.32%
QC value within limits for Cu 224.700 Recovery = 90.68%						
Cu 324.752†	10190.0	0.9133 mg/L	0.01380	0.9133 mg/L	0.01380	1.51%
QC value within limits for Cu 324.752 Recovery = 91.33%						
Cu 327.393†	62633.8	0.9088 mg/L	0.01287	0.9088 mg/L	0.01287	1.42%
QC value within limits for Cu 327.393 Recovery = 90.88%						
Fe 238.204†	3767.2	0.9733 mg/L	0.01719	0.9733 mg/L	0.01719	1.77%
QC value within limits for Fe 238.204 Recovery = 97.33%						
Fe 239.562†	2919.5	0.9765 mg/L	0.02121	0.9765 mg/L	0.02121	2.17%
QC value within limits for Fe 239.562 Recovery = 97.65%						
Fe 259.939†	6490.9	0.9914 mg/L	0.01870	0.9914 mg/L	0.01870	1.89%
QC value within limits for Fe 259.939 Recovery = 99.14%						
Fe 273.955†	1012.0	1.072 mg/L	0.0160	1.072 mg/L	0.0160	1.50%
QC value within limits for Fe 273.955 Recovery = 107.22%						
K 766.490†	3030.9	5.241 mg/L	0.0739	5.241 mg/L	0.0739	1.41%
QC value within limits for K 766.490 Recovery = 104.82%						
Li 610.362†	6831.9	1.022 mg/L	0.0046	1.022 mg/L	0.0046	0.45%
QC value within limits for Li 610.362 Recovery = 102.21%						
Li 670.784†	52326.9	0.9920 mg/L	0.01688	0.9920 mg/L	0.01688	1.70%
QC value within limits for Li 670.784 Recovery = 99.20%						
Mg 279.077†	899.9	1.006 mg/L	0.0231	1.006 mg/L	0.0231	2.29%
QC value within limits for Mg 279.077 Recovery = 100.57%						
Mg 280.271†	135613.2	0.9917 mg/L	0.00162	0.9917 mg/L	0.00162	0.16%
QC value within limits for Mg 280.271 Recovery = 99.17%						
Mg 285.213†	4246.0	0.9855 mg/L	0.01696	0.9855 mg/L	0.01696	1.72%
QC value within limits for Mg 285.213 Recovery = 98.55%						
Mn 257.610†	27738.5	0.9460 mg/L	0.01967	0.9460 mg/L	0.01967	2.08%
QC value within limits for Mn 257.610 Recovery = 94.60%						
Mn 259.372†	40133.6	0.9398 mg/L	0.01737	0.9398 mg/L	0.01737	1.85%
QC value within limits for Mn 259.372 Recovery = 93.98%						
Mn 260.568†	17804.5	0.9254 mg/L	0.01544	0.9254 mg/L	0.01544	1.67%
QC value within limits for Mn 260.568 Recovery = 92.54%						
Mo 202.031†	299.2	0.8165 mg/L	0.00987	0.8165 mg/L	0.00987	1.21%
QC value less than the lower limit for Mo 202.031 Recovery = 81.65%						
Mo 203.845†	173.1	0.8260 mg/L	0.00379	0.8260 mg/L	0.00379	0.46%
QC value less than the lower limit for Mo 203.845 Recovery = 82.60%						
Mo 204.597†	6849.3	0.8454 mg/L	0.01200	0.8454 mg/L	0.01200	1.42%
QC value less than the lower limit for Mo 204.597 Recovery = 84.54%						
Na 588.995†	5638.6	1.088 mg/L	0.0122	1.088 mg/L	0.0122	1.12%
Na 589.592†	5774.2	1.093 mg/L	0.0319	1.093 mg/L	0.0319	2.92%
Ni 221.648†	283.5	0.9246 mg/L	0.01037	0.9246 mg/L	0.01037	1.12%
QC value within limits for Ni 221.648 Recovery = 92.46%						
Ni 231.604†	14592.9	1.004 mg/L	0.0193	1.004 mg/L	0.0193	1.93%
QC value within limits for Ni 231.604 Recovery = 100.42%						
Ni 232.003†	448.0	0.9504 mg/L	0.02338	0.9504 mg/L	0.02338	2.46%
QC value within limits for Ni 232.003 Recovery = 95.04%						
Pb 217.000†	164.2	1.860 mg/L	0.0358	1.860 mg/L	0.0358	1.93%
QC value within limits for Pb 217.000 Recovery = 93.01%						
Pb 220.353†	5494.9	1.963 mg/L	0.0264	1.963 mg/L	0.0264	1.35%
QC value within limits for Pb 220.353 Recovery = 98.16%						
Sb 206.836†	4001.9	1.766 mg/L	0.0294	1.766 mg/L	0.0294	1.67%
QC value less than the lower limit for Sb 206.836 Recovery = 88.28%						
Sb 217.582†	111.1	1.725 mg/L	0.0418	1.725 mg/L	0.0418	2.42%
QC value less than the lower limit for Sb 217.582 Recovery = 86.27%						
Se 196.026†	1184.0	1.028 mg/L	0.0118	1.028 mg/L	0.0118	1.15%
QC value within limits for Se 196.026 Recovery = 102.76%						
Se 203.985†	627.5	1.047 mg/L	0.0124	1.047 mg/L	0.0124	1.19%
QC value within limits for Se 203.985 Recovery = 104.70%						
Sn 189.927†	6077.2	4.339 mg/L	0.0757	4.339 mg/L	0.0757	1.75%
QC value less than the lower limit for Sn 189.927 Recovery = 86.79%						
Sn 235.485†	789.7	4.303 mg/L	0.0586	4.303 mg/L	0.0586	1.36%
QC value less than the lower limit for Sn 235.485 Recovery = 86.06%						

Sr 407.771†	204236.5	0.9719 mg/L	0.00027	0.9719 mg/L	0.00027	0.03%
QC value within limits for Sr 407.771 Recovery = 97.19%						
Sr 421.552†	268361.8	0.9638 mg/L	0.00184	0.9638 mg/L	0.00184	0.19%
QC value within limits for Sr 421.552 Recovery = 96.38%						
Sr 460.733†	11335.3	0.9586 mg/L	0.02296	0.9586 mg/L	0.02296	2.40%
QC value within limits for Sr 460.733 Recovery = 95.86%						
Ti 334.940†	20583.2	0.8611 mg/L	0.01428	0.8611 mg/L	0.01428	1.66%
QC value less than the lower limit for Ti 334.940 Recovery = 86.11%						
Ti 336.121†	16979.6	0.8626 mg/L	0.01573	0.8626 mg/L	0.01573	1.82%
QC value less than the lower limit for Ti 336.121 Recovery = 86.26%						
Ti 337.279†	7252.3	0.8574 mg/L	0.01884	0.8574 mg/L	0.01884	2.20%
QC value less than the lower limit for Ti 337.279 Recovery = 85.74%						
Tl 190.801†	4270.3	4.682 mg/L	0.0675	4.682 mg/L	0.0675	1.44%
QC value within limits for Tl 190.801 Recovery = 93.65%						
Tl 276.787†	19554.9	4.457 mg/L	0.0736	4.457 mg/L	0.0736	1.65%
QC value less than the lower limit for Tl 276.787 Recovery = 89.14%						
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
QC value less than the lower limit for Tl 351.924 Recovery = 0.00%						
V 290.880†	3491.6	0.9509 mg/L	0.02076	0.9509 mg/L	0.02076	2.18%
QC value within limits for V 290.880 Recovery = 95.09%						
V 309.310†	6399.6	0.9625 mg/L	0.01752	0.9625 mg/L	0.01752	1.82%
QC value within limits for V 309.310 Recovery = 96.25%						
V 310.230†	146519.2	0.9270 mg/L	0.01025	0.9270 mg/L	0.01025	1.11%
QC value within limits for V 310.230 Recovery = 92.70%						
Zn 202.548†	2085.0	0.9096 mg/L	0.01119	0.9096 mg/L	0.01119	1.23%
QC value within limits for Zn 202.548 Recovery = 90.96%						
Zn 206.200†	851.4	0.9155 mg/L	0.01035	0.9155 mg/L	0.01035	1.13%
QC value within limits for Zn 206.200 Recovery = 91.55%						
Zn 213.857†	3823.7	0.9166 mg/L	0.02169	0.9166 mg/L	0.02169	2.37%
QC value within limits for Zn 213.857 Recovery = 91.66%						

QC Failed. Continue with analysis.

Sequence No.: 28
Sample ID: LCM2
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/9/01 11:11:24 AM
Sample Prep Volume:
Data Type: Original

Mean Data: LCM2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	288616.5						715.27	0.25%
Y 360.073	3765893.1						102259.99	2.72%
Ag 328.068†	9120.9	0.04758	mg/L	0.002007	0.04758	mg/L	0.002007	4.22%
QC value within limits for Ag 328.068 Recovery = 95.17%								
Ag 338.289†	5109.1	0.04840	mg/L	0.001840	0.04840	mg/L	0.001840	3.80%
QC value within limits for Ag 338.289 Recovery = 96.81%								
Al 308.215†	20.1	0.02704	mg/L	0.000915	0.02704	mg/L	0.000915	3.38%
Al 394.401†	13.0	0.01449	mg/L	0.003010	0.01449	mg/L	0.003010	20.77%
Al 396.153†	23.4	0.00671	mg/L	0.000895	0.00671	mg/L	0.000895	13.34%
As 188.979†	0.0	0.00100	mg/L	0.036158	0.00100	mg/L	0.036158	>999.9%
As 193.696†	0.7	0.00080	mg/L	0.000890	0.00080	mg/L	0.000890	111.04%
As 197.197†	0.1	0.00272	mg/L	0.019567	0.00272	mg/L	0.019567	718.59%
B 208.889†	1.4	0.00622	mg/L	0.014146	0.00622	mg/L	0.014146	227.48%
B 249.677†	19.7	0.01266	mg/L	0.001748	0.01266	mg/L	0.001748	13.81%
B 249.772†	35.5	0.01093	mg/L	0.000867	0.01093	mg/L	0.000867	7.93%
Ba 233.527†	2.7	0.00061	mg/L	0.000171	0.00061	mg/L	0.000171	27.86%
Ba 455.403†	61.8	0.00066	mg/L	0.000169	0.00066	mg/L	0.000169	25.46%
Ba 493.408†	55.2	0.00034	mg/L	0.000115	0.00034	mg/L	0.000115	33.91%
Be 234.861†	122.0	0.00032	mg/L	0.000020	0.00032	mg/L	0.000020	6.17%
Be 313.042†	34.0	0.00041	mg/L	0.000064	0.00041	mg/L	0.000064	15.62%
Be 313.107†	34.0	0.00041	mg/L	0.000064	0.00041	mg/L	0.000064	15.62%
Ca 315.887†	112.0	0.03294	mg/L	0.002672	0.03294	mg/L	0.002672	8.11%
Ca 317.933†	73.0	0.02098	mg/L	0.003294	0.02098	mg/L	0.003294	15.70%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	8.9	0.00023	mg/L	0.000053	0.00023	mg/L	0.000053	22.88%
Cd 228.802†	-0.3	-0.00006	mg/L	0.000020	-0.00006	mg/L	0.000020	32.74%
Ce 413.380†	4.4	0.00236	mg/L	0.003200	0.00236	mg/L	0.003200	135.76%

Ce 413.764†	-3.7	-0.00197	mg/L	0.002524	-0.00197	mg/L	0.002524	128.17%
Ce 418.660†	-10.8	-0.00289	mg/L	0.001935	-0.00289	mg/L	0.001935	66.86%
Co 228.616†	8.0	0.00019	mg/L	0.000047	0.00019	mg/L	0.000047	25.15%
Co 230.786†	0.7	0.00069	mg/L	0.000488	0.00069	mg/L	0.000488	70.30%
Co 238.892†	-0.3	-0.00019	mg/L	0.000416	-0.00019	mg/L	0.000416	218.39%
Cr 205.560†	-0.1	-0.00053	mg/L	0.003954	-0.00053	mg/L	0.003954	743.93%
Cr 267.716†	12.7	0.00044	mg/L	0.000063	0.00044	mg/L	0.000063	14.52%
Cr 283.563†	0.8	0.00018	mg/L	0.000983	0.00018	mg/L	0.000983	542.38%
Cu 224.700†	2.4	0.00315	mg/L	0.000416	0.00315	mg/L	0.000416	13.18%
Cu 324.752†	5.1	0.00046	mg/L	0.000091	0.00046	mg/L	0.000091	19.68%
Cu 327.393†	97.0	0.00141	mg/L	0.000428	0.00141	mg/L	0.000428	30.39%
Fe 238.204†	47.9	0.01237	mg/L	0.000659	0.01237	mg/L	0.000659	5.33%
Fe 239.562†	38.0	0.01270	mg/L	0.000941	0.01270	mg/L	0.000941	7.41%
Fe 259.939†	81.9	0.01251	mg/L	0.001259	0.01251	mg/L	0.001259	10.07%
Fe 273.955†	10.4	0.01101	mg/L	0.002290	0.01101	mg/L	0.002290	20.79%
K 766.490†	56.6	0.09794	mg/L	0.035557	0.09794	mg/L	0.035557	36.31%
Li 610.362†	164.0	0.02454	mg/L	0.004952	0.02454	mg/L	0.004952	20.18%
Li 670.784†	189.3	0.00359	mg/L	0.001260	0.00359	mg/L	0.001260	35.12%
Mg 279.077†	7.0	0.00782	mg/L	0.006495	0.00782	mg/L	0.006495	83.09%
Mg 280.271†	1329.5	0.00972	mg/L	0.000265	0.00972	mg/L	0.000265	2.72%
Mg 285.213†	42.8	0.00993	mg/L	0.000777	0.00993	mg/L	0.000777	7.83%
Mn 257.610†	22.0	0.00075	mg/L	0.000068	0.00075	mg/L	0.000068	9.10%
Mn 259.372†	38.8	0.00088	mg/L	0.000313	0.00088	mg/L	0.000313	35.52%
Mn 260.568†	12.3	0.00064	mg/L	0.000083	0.00064	mg/L	0.000083	12.93%
Mo 202.031†	1.6	0.00429	mg/L	0.003665	0.00429	mg/L	0.003665	85.37%
Mo 203.845†	-0.1	-0.00028	mg/L	0.017424	-0.00028	mg/L	0.017424	>999.9%
Mo 204.597†	24.0	0.00296	mg/L	0.000109	0.00296	mg/L	0.000109	3.66%
Na 588.995†	724.2	0.1398	mg/L	0.00793	0.1398	mg/L	0.00793	5.68%
Na 589.592†	469.8	0.08892	mg/L	0.008672	0.08892	mg/L	0.008672	9.75%
Ni 221.648†	0.1	0.00048	mg/L	0.003506	0.00048	mg/L	0.003506	726.87%
Ni 231.604†	4.4	0.00030	mg/L	0.000049	0.00030	mg/L	0.000049	16.21%
Ni 232.003†	3.0	0.00638	mg/L	0.000889	0.00638	mg/L	0.000889	13.93%
Pb 217.000†	-1.0	-0.01079	mg/L	0.011446	-0.01079	mg/L	0.011446	106.07%
Pb 220.353†	6.9	0.00246	mg/L	0.001147	0.00246	mg/L	0.001147	46.69%
Sb 206.836†	2.2	0.00099	mg/L	0.001587	0.00099	mg/L	0.001587	160.10%
Sb 217.582†	-0.8	-0.01233	mg/L	0.016599	-0.01233	mg/L	0.016599	134.58%
Se 196.026†	4.4	0.00382	mg/L	0.001047	0.00382	mg/L	0.001047	27.41%
Se 203.985†	4.3	0.00712	mg/L	0.005361	0.00712	mg/L	0.005361	75.35%
Sn 189.927†	15.9	0.01132	mg/L	0.001050	0.01132	mg/L	0.001050	9.27%
Sn 235.485†	4.0	0.02182	mg/L	0.015157	0.02182	mg/L	0.015157	69.46%
Sr 407.771†	112.4	0.00054	mg/L	0.000047	0.00054	mg/L	0.000047	8.84%
Sr 421.552†	144.8	0.00052	mg/L	0.000115	0.00052	mg/L	0.000115	22.18%
Sr 460.733†	-22.2	-0.00188	mg/L	0.006760	-0.00188	mg/L	0.006760	359.63%
Ti 334.940†	19.2	0.00080	mg/L	0.000109	0.00080	mg/L	0.000109	13.54%
Ti 336.121†	35.7	0.00181	mg/L	0.000959	0.00181	mg/L	0.000959	52.86%
Ti 337.279†	2.6	0.00030	mg/L	0.000304	0.00030	mg/L	0.000304	100.12%
Tl 190.801†	1.3	0.00145	mg/L	0.000675	0.00145	mg/L	0.000675	46.57%
Tl 276.787†	-3.9	-0.00089	mg/L	0.002720	-0.00089	mg/L	0.002720	307.03%
Tl 351.924†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
V 290.880†	-9.6	-0.00260	mg/L	0.000355	-0.00260	mg/L	0.000355	13.63%
V 309.310†	0.2	0.00003	mg/L	0.002070	0.00003	mg/L	0.002070	>999.9%
V 310.230†	-650.1	-0.00411	mg/L	0.000501	-0.00411	mg/L	0.000501	12.18%
Zn 202.548†	16.7	0.00732	mg/L	0.000783	0.00732	mg/L	0.000783	10.70%
Zn 206.200†	7.6	0.00818	mg/L	0.001016	0.00818	mg/L	0.001016	12.43%
Zn 213.857†	31.7	0.00764	mg/L	0.000266	0.00764	mg/L	0.000266	3.48%

All analytes passed QC.

Sequence No.: 29
Sample ID: Hi AQC
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 11/9/01 11:15:53 AM

Sample Prep Volume:
Data Type: Original

Mean Data: Hi AQC

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	281441.4						3913.46	1.39%
Y 360.073	3634972.6						41513.70	1.14%

Ag 328.068†	-89.5	-0.00047 mg/L	0.000246	-0.00047 mg/L	0.000246	52.59%
Ag 338.289†	128.4	0.00122 mg/L	0.000047	0.00122 mg/L	0.000047	3.84%
Al 308.215†	69307.5	93.06 mg/L	0.515	93.06 mg/L	0.515	0.55%
QC value within limits for Al 308.215 Recovery = 93.06%						
Al 394.401†	86439.3	96.03 mg/L	0.528	96.03 mg/L	0.528	0.55%
Al 396.153†	319551.5	94.26 mg/L	0.714	94.26 mg/L	0.714	0.76%
As 188.979†	-0.7	-0.01468 mg/L	0.029815	-0.01468 mg/L	0.029815	203.17%
As 193.696†	6.5	0.00699 mg/L	0.000138	0.00699 mg/L	0.000138	1.97%
As 197.197†	-0.1	-0.00399 mg/L	0.077825	-0.00399 mg/L	0.077825	>999.9%
B 208.889†	-0.3	-0.00141 mg/L	0.008395	-0.00141 mg/L	0.008395	593.48%
B 249.677†	7.9	0.00510 mg/L	0.001134	0.00510 mg/L	0.001134	22.24%
B 249.772†	486.6	0.1500 mg/L	0.00252	0.1500 mg/L	0.00252	1.68%
Ba 233.527†	3.6	0.00082 mg/L	0.000017	0.00082 mg/L	0.000017	2.06%
Ba 455.403†	37.6	0.00040 mg/L	0.000036	0.00040 mg/L	0.000036	8.97%
Ba 493.408†	133.4	0.00082 mg/L	0.000171	0.00082 mg/L	0.000171	20.82%
Be 234.861†	-122289.3	-0.3172 mg/L	0.00228	-0.3172 mg/L	0.00228	0.72%
Be 313.042†	29.6	0.00036 mg/L	0.000014	0.00036 mg/L	0.000014	3.78%
Be 313.107†	29.6	0.00036 mg/L	0.000014	0.00036 mg/L	0.000014	3.78%
Ca 315.887†	337902.9	99.37 mg/L	0.664	99.37 mg/L	0.664	0.67%
QC value within limits for Ca 315.887 Recovery = 99.37%						
Ca 317.933†	311770.8	89.62 mg/L	0.666	89.62 mg/L	0.666	0.74%
Cd 214.440†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
Cd 226.502†	66.5	0.00174 mg/L	0.000076	0.00174 mg/L	0.000076	4.36%
Cd 228.802†	0.2	0.00005 mg/L	0.000162	0.00005 mg/L	0.000162	327.83%
Ce 413.380†	33.0	0.01748 mg/L	0.024682	0.01748 mg/L	0.024682	141.16%
Ce 413.764†	1.8	0.00099 mg/L	0.007671	0.00099 mg/L	0.007671	772.41%
Ce 418.660†	27.5	0.00736 mg/L	0.011278	0.00736 mg/L	0.011278	153.21%
Co 228.616†	-66.1	-0.00154 mg/L	0.000373	-0.00154 mg/L	0.000373	24.29%
Co 230.786†	-1.4	-0.00128 mg/L	0.001279	-0.00128 mg/L	0.001279	99.53%
Co 238.892†	-76.1	-0.04650 mg/L	0.002582	-0.04650 mg/L	0.002582	5.55%
Cr 205.560†	-1.6	-0.00568 mg/L	0.001920	-0.00568 mg/L	0.001920	33.81%
Cr 267.716†	-25.1	-0.00086 mg/L	0.000085	-0.00086 mg/L	0.000085	9.88%
Cr 283.563†	62.9	0.01502 mg/L	0.000445	0.01502 mg/L	0.000445	2.96%
Cu 224.700†	2.5	0.00328 mg/L	0.001941	0.00328 mg/L	0.001941	59.25%
Cu 324.752†	-41.5	-0.00372 mg/L	0.000160	-0.00372 mg/L	0.000160	4.30%
Cu 327.393†	-164.2	-0.00238 mg/L	0.000171	-0.00238 mg/L	0.000171	7.20%
Fe 238.204†	344671.7	89.05 mg/L	0.599	89.05 mg/L	0.599	0.67%
Fe 239.562†	266463.3	89.12 mg/L	0.657	89.12 mg/L	0.657	0.74%
Fe 259.939†	595272.7	90.92 mg/L	0.638	90.92 mg/L	0.638	0.70%
Fe 273.955†	94828.7	100.5 mg/L	0.68	100.5 mg/L	0.68	0.67%
QC value within limits for Fe 273.955 Recovery = 100.47%						
K 766.490†	60041.8	103.8 mg/L	0.89	103.8 mg/L	0.89	0.86%
QC value within limits for K 766.490 Recovery = 103.82%						
Li 610.362†	-89.3	-0.01335 mg/L	0.009794	-0.01335 mg/L	0.009794	73.34%
Li 670.784†	87.3	0.00166 mg/L	0.002882	0.00166 mg/L	0.002882	174.17%
Mg 279.077†	50864.8	56.84 mg/L	1.477	56.84 mg/L	1.477	2.60%
QC value within limits for Mg 279.077 Recovery = 94.74%						
Mg 280.271†	7308987.2	53.45 mg/L	1.494	53.45 mg/L	1.494	2.80%
Mg 285.213†	221124.3	51.32 mg/L	0.412	51.32 mg/L	0.412	0.80%
Mn 257.610†	72.1	0.00246 mg/L	0.000154	0.00246 mg/L	0.000154	6.28%
Mn 259.372†	4350.5	-0.00092 mg/L	0.001132	-0.00092 mg/L	0.001132	123.19%
Mn 260.568†	20.3	0.00106 mg/L	0.000142	0.00106 mg/L	0.000142	13.46%
Mo 202.031†	-7.1	-0.01931 mg/L	0.005966	-0.01931 mg/L	0.005966	30.89%
Mo 203.845†	-0.9	-0.00411 mg/L	0.013058	-0.00411 mg/L	0.013058	318.06%
Mo 204.597†	25.8	0.00318 mg/L	0.000799	0.00318 mg/L	0.000799	25.14%
Na 588.995†	471082.1	90.91 mg/L	0.755	90.91 mg/L	0.755	0.83%
Na 589.592†	507114.5	95.99 mg/L	0.827	95.99 mg/L	0.827	0.86%
QC value within limits for Na 589.592 Recovery = 95.99%						
Ni 221.648†	1.2	0.00393 mg/L	0.003333	0.00393 mg/L	0.003333	84.91%
Ni 231.604†	22.6	0.00156 mg/L	0.000306	0.00156 mg/L	0.000306	19.68%
Ni 232.003†	4.1	0.00877 mg/L	0.005304	0.00877 mg/L	0.005304	60.51%
Pb 217.000†	-0.6	-0.00701 mg/L	0.014147	-0.00701 mg/L	0.014147	201.80%
Pb 220.353†	5.9	0.00212 mg/L	0.000520	0.00212 mg/L	0.000520	24.55%
Sb 206.836†	2.1	0.00092 mg/L	0.002850	0.00092 mg/L	0.002850	309.73%
Sb 217.582†	0.4	0.00655 mg/L	0.020478	0.00655 mg/L	0.020478	312.77%
Se 196.026†	-18.7	-0.01624 mg/L	0.000408	-0.01624 mg/L	0.000408	2.51%
Se 203.985†	9.5	0.01578 mg/L	0.009089	0.01578 mg/L	0.009089	57.61%
Sn 189.927†	-6.1	-0.00436 mg/L	0.000903	-0.00436 mg/L	0.000903	20.70%
Sn 235.485†	1268.0	6.909 mg/L	0.1222	6.909 mg/L	0.1222	1.77%
Sr 407.771†	603.7	0.00287 mg/L	0.000098	0.00287 mg/L	0.000098	3.41%

Sr 421.552†	866.9	0.00311 mg/L	0.000251	0.00311 mg/L	0.000251	8.06%
Sr 460.733†	91.9	0.00777 mg/L	0.005517	0.00777 mg/L	0.005517	70.96%
Ti 334.940†	28.0	0.00117 mg/L	0.000110	0.00117 mg/L	0.000110	9.42%
Ti 336.121†	38.6	0.00196 mg/L	0.001118	0.00196 mg/L	0.001118	57.02%
Ti 337.279†	11.6	0.00137 mg/L	0.000064	0.00137 mg/L	0.000064	4.71%
Tl 190.801†	3.0	0.00324 mg/L	0.004402	0.00324 mg/L	0.004402	135.74%
Tl 276.787†	6055.0	1.380 mg/L	0.0334	1.380 mg/L	0.0334	2.42%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	10.6	0.00289 mg/L	0.001642	0.00289 mg/L	0.001642	56.89%
V 309.310†	-283.8	-0.04269 mg/L	0.000291	-0.04269 mg/L	0.000291	0.68%
V 310.230†	-609.3	-0.00385 mg/L	0.000613	-0.00385 mg/L	0.000613	15.89%
Zn 202.548†	18.6	0.00451 mg/L	0.000345	0.00451 mg/L	0.000345	7.64%
Zn 206.200†	-2.6	-0.00278 mg/L	0.000940	-0.00278 mg/L	0.000940	33.82%
Zn 213.857†	66.0	0.00710 mg/L	0.000600	0.00710 mg/L	0.000600	8.44%

All analytes passed QC.

Sequence No.: 30
Sample ID: wash
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 18
Date Collected: 11/9/01 11:20:40 AM
Sample Prep Volume:
Data Type: Original

Mean Data: wash

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	291267.0						2887.14	0.99%
Y 360.073	3638953.4						181941.84	5.00%
Ag 328.068†	-6.4	-0.00003	mg/L	0.000107	-0.00003	mg/L	0.000107	320.31%
Ag 338.289†	-79.1	-0.00075	mg/L	0.000500	-0.00075	mg/L	0.000500	66.75%
Al 308.215†	21.3	0.02862	mg/L	0.008006	0.02862	mg/L	0.008006	27.97%
Al 394.401†	20.3	0.02260	mg/L	0.007788	0.02260	mg/L	0.007788	34.46%
Al 396.153†	44.9	0.01311	mg/L	0.007680	0.01311	mg/L	0.007680	58.58%
As 188.979†	-0.3	-0.00735	mg/L	0.004344	-0.00735	mg/L	0.004344	59.11%
As 193.696†	1.4	0.00147	mg/L	0.001335	0.00147	mg/L	0.001335	90.86%
As 197.197†	0.1	0.00536	mg/L	0.017399	0.00536	mg/L	0.017399	324.79%
B 208.889†	-2.9	-0.01279	mg/L	0.006892	-0.01279	mg/L	0.006892	53.86%
B 249.677†	0.4	0.00026	mg/L	0.002713	0.00026	mg/L	0.002713	>999.9%
B 249.772†	3.4	0.00105	mg/L	0.000311	0.00105	mg/L	0.000311	29.54%
Ba 233.527†	1.3	0.00030	mg/L	0.000246	0.00030	mg/L	0.000246	81.57%
Ba 455.403†	8.7	0.00009	mg/L	0.000168	0.00009	mg/L	0.000168	179.66%
Ba 493.408†	45.4	0.00028	mg/L	0.000147	0.00028	mg/L	0.000147	52.86%
Be 234.861†	50.2	0.00013	mg/L	0.000068	0.00013	mg/L	0.000068	52.09%
Be 313.042†	-4.2	-0.00005	mg/L	0.000021	-0.00005	mg/L	0.000021	40.69%
Be 313.107†	-4.2	-0.00005	mg/L	0.000021	-0.00005	mg/L	0.000021	40.69%
Ca 315.887†	47.8	0.01405	mg/L	0.006444	0.01405	mg/L	0.006444	45.86%
Ca 317.933†	14.4	0.00414	mg/L	0.008668	0.00414	mg/L	0.008668	209.14%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	-4.6	-0.00012	mg/L	0.000068	-0.00012	mg/L	0.000068	57.04%
Cd 228.802†	-1.7	-0.00041	mg/L	0.000193	-0.00041	mg/L	0.000193	47.09%
Ce 413.380†	-12.9	-0.00681	mg/L	0.005469	-0.00681	mg/L	0.005469	80.25%
Ce 413.764†	-13.0	-0.00699	mg/L	0.004072	-0.00699	mg/L	0.004072	58.28%
Ce 418.660†	1.3	0.00034	mg/L	0.012825	0.00034	mg/L	0.012825	>999.9%
Co 228.616†	9.7	0.00022	mg/L	0.000250	0.00022	mg/L	0.000250	111.15%
Co 230.786†	1.0	0.00092	mg/L	0.001750	0.00092	mg/L	0.001750	191.00%
Co 238.892†	0.2	0.00015	mg/L	0.000051	0.00015	mg/L	0.000051	33.81%
Cr 205.560†	0.1	0.00053	mg/L	0.001332	0.00053	mg/L	0.001332	252.50%
Cr 267.716†	3.4	0.00012	mg/L	0.000160	0.00012	mg/L	0.000160	136.01%
Cr 283.563†	-5.3	-0.00126	mg/L	0.000588	-0.00126	mg/L	0.000588	46.77%
Cu 224.700†	-0.5	-0.00069	mg/L	0.000873	-0.00069	mg/L	0.000873	127.12%
Cu 324.752†	-46.2	-0.00414	mg/L	0.000271	-0.00414	mg/L	0.000271	6.56%
Cu 327.393†	-215.7	-0.00313	mg/L	0.000147	-0.00313	mg/L	0.000147	4.68%
Fe 238.204†	86.7	0.02241	mg/L	0.007774	0.02241	mg/L	0.007774	34.69%
Fe 239.562†	66.8	0.02235	mg/L	0.007765	0.02235	mg/L	0.007765	34.74%
Fe 259.939†	149.5	0.02284	mg/L	0.007442	0.02284	mg/L	0.007442	32.58%
Fe 273.955†	21.7	0.02298	mg/L	0.010174	0.02298	mg/L	0.010174	44.26%
K 766.490†	203.4	0.3518	mg/L	0.02138	0.3518	mg/L	0.02138	6.08%
Li 610.362†	227.5	0.03404	mg/L	0.015385	0.03404	mg/L	0.015385	45.20%
Li 670.784†	-25.4	-0.00048	mg/L	0.000893	-0.00048	mg/L	0.000893	185.73%

Mg 279.077†	4.9	0.00546 mg/L	0.005500	0.00546 mg/L	0.005500	100.83%
Mg 280.271†	2701.7	0.01976 mg/L	0.005127	0.01976 mg/L	0.005127	25.95%
Mg 285.213†	75.4	0.01751 mg/L	0.004289	0.01751 mg/L	0.004289	24.50%
Mn 257.610†	-5.0	-0.00017 mg/L	0.000033	-0.00017 mg/L	0.000033	19.06%
Mn 259.372†	0.8	0.00000 mg/L	0.000077	0.00000 mg/L	0.000077	>999.9%
Mn 260.568†	-1.3	-0.00007 mg/L	0.000034	-0.00007 mg/L	0.000034	48.80%
Mo 202.031†	-0.6	-0.00156 mg/L	0.004969	-0.00156 mg/L	0.004969	318.64%
Mo 203.845†	-4.7	-0.02229 mg/L	0.015489	-0.02229 mg/L	0.015489	69.49%
Mo 204.597†	1.4	0.00017 mg/L	0.000196	0.00017 mg/L	0.000196	116.51%
Na 588.995†	1428.1	0.2756 mg/L	0.02144	0.2756 mg/L	0.02144	7.78%
Na 589.592†	1085.6	0.2055 mg/L	0.01850	0.2055 mg/L	0.01850	9.00%
Ni 221.648†	-0.3	-0.00083 mg/L	0.002184	-0.00083 mg/L	0.002184	264.67%
Ni 231.604†	-2.9	-0.00020 mg/L	0.000094	-0.00020 mg/L	0.000094	46.98%
Ni 232.003†	4.5	0.00958 mg/L	0.005905	0.00958 mg/L	0.005905	61.61%
Pb 217.000†	-2.1	-0.02431 mg/L	0.008878	-0.02431 mg/L	0.008878	36.52%
Pb 220.353†	0.0	0.00000 mg/L	0.000588	0.00000 mg/L	0.000588	>999.9%
Sb 206.836†	0.7	0.00030 mg/L	0.001453	0.00030 mg/L	0.001453	478.82%
Sb 217.582†	-0.7	-0.01143 mg/L	0.012290	-0.01143 mg/L	0.012290	107.49%
Se 196.026†	3.1	0.00266 mg/L	0.001232	0.00266 mg/L	0.001232	46.37%
Se 203.985†	2.1	0.00343 mg/L	0.008116	0.00343 mg/L	0.008116	236.42%
Sn 189.927†	0.3	0.00021 mg/L	0.000754	0.00021 mg/L	0.000754	365.64%
Sn 235.485†	3.0	0.01615 mg/L	0.013060	0.01615 mg/L	0.013060	80.89%
Sr 407.771†	-24.4	-0.00012 mg/L	0.000073	-0.00012 mg/L	0.000073	62.85%
Sr 421.552†	-47.6	-0.00017 mg/L	0.000071	-0.00017 mg/L	0.000071	41.84%
Sr 460.733†	-67.8	-0.00573 mg/L	0.004370	-0.00573 mg/L	0.004370	76.26%
Ti 334.940†	-1.4	-0.00006 mg/L	0.000032	-0.00006 mg/L	0.000032	52.24%
Ti 336.121†	16.9	0.00086 mg/L	0.000978	0.00086 mg/L	0.000978	113.85%
Ti 337.279†	-3.7	-0.00043 mg/L	0.000224	-0.00043 mg/L	0.000224	51.53%
Tl 190.801†	0.3	0.00030 mg/L	0.000998	0.00030 mg/L	0.000998	333.77%
Tl 276.787†	-7.4	-0.00170 mg/L	0.002470	-0.00170 mg/L	0.002470	145.64%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	-6.5	-0.00177 mg/L	0.000536	-0.00177 mg/L	0.000536	30.19%
V 309.310†	-17.6	-0.00265 mg/L	0.001133	-0.00265 mg/L	0.001133	42.70%
V 310.230†	-1114.7	-0.00705 mg/L	0.000887	-0.00705 mg/L	0.000887	12.58%
Zn 202.548†	-2.7	-0.00116 mg/L	0.000602	-0.00116 mg/L	0.000602	51.84%
Zn 206.200†	0.4	0.00039 mg/L	0.000945	0.00039 mg/L	0.000945	243.25%
Zn 213.857†	0.3	0.00008 mg/L	0.000313	0.00008 mg/L	0.000313	406.91%

Not good

Sequence No.: 31
Sample ID: LRB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 28
Date Collected: 11/9/01 11:25:13 AM

Sample Prep Volume:
Data Type: Original

IS fails by operator error! Run again

Mean Data: LRB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	-17.3						20.64	119.21%
Y 360.073	1090.8						672.76	61.68%
Ag 328.068†	-125752.2	-0.6561	mg/L	2.72871	-0.6561	mg/L	2.72871	415.92%
Ag 338.289†	-529171.2	-5.013	mg/L	1.8458	-5.013	mg/L	1.8458	36.82%
Al 308.215†	288523.6	387.4	mg/L	1193.32	387.4	mg/L	1193.32	308.02%
Al 394.401†	133988.1	148.8	mg/L	217.90	148.8	mg/L	217.90	146.39%
Al 396.153†	4634158.7	1363	mg/L	4659.4	1363	mg/L	4659.4	341.94%
As 188.979†	-28255.1	-620.5	mg/L	963.44	-620.5	mg/L	963.44	155.28%
As 193.696†	-105031.1	-113.0	mg/L	120.71	-113.0	mg/L	120.71	106.84%
As 197.197†	-12753.6	-467.9	mg/L	760.16	-467.9	mg/L	760.16	162.48%
B 208.889†	418328.3	1818	mg/L	6197.6	1818	mg/L	6197.6	340.83%
B 249.677†	-228184.8	-146.5	mg/L	525.02	-146.5	mg/L	525.02	358.45%
B 249.772†	167492.4	51.65	mg/L	171.587	51.65	mg/L	171.587	332.22%
Ba 233.527†	-141092.8	-32.10	mg/L	117.011	-32.10	mg/L	117.011	364.55%
Ba 455.403†	398760.2	4.273	mg/L	13.8647	4.273	mg/L	13.8647	324.47%
Ba 493.408†	-1626612.5	-9.986	mg/L	10.1069	-9.986	mg/L	10.1069	101.21%
Be 234.861†	-485404.5	-1.259	mg/L	1.0278	-1.259	mg/L	1.0278	81.64%
Be 313.042†	2330213.5	28.16	mg/L	99.868	28.16	mg/L	99.868	354.62%
Be 313.107†	2330213.5	28.16	mg/L	99.868	28.16	mg/L	99.868	354.62%
Ca 315.887†	1909515.9	561.6	mg/L	1673.43	561.6	mg/L	1673.43	298.00%
Ca 317.933†	1090450.2	313.4	mg/L	810.21	313.4	mg/L	810.21	258.49%

Cd 214.440†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
Cd 226.502†	-103439.4	-2.706 mg/L	2.4239	-2.706 mg/L	2.4239	89.58%
Cd 228.802†	113410.4	26.59 mg/L	117.256	26.59 mg/L	117.256	440.97%
Ce 413.380†	1081840.6	573.4 mg/L	2255.97	573.4 mg/L	2255.97	393.45%
Ce 413.764†	-138595.8	-74.63 mg/L	270.515	-74.63 mg/L	270.515	362.45%
Ce 418.660†	-2683992.6	-719.7 mg/L	2996.29	-719.7 mg/L	2996.29	416.33%
Co 228.616†	1009383.1	23.48 mg/L	21.656	23.48 mg/L	21.656	92.21%
Co 230.786†	-6410.2	-5.963 mg/L	91.4269	-5.963 mg/L	91.4269	>999.9%
Co 238.892†	46955.8	28.70 mg/L	77.918	28.70 mg/L	77.918	271.53%
Cr 205.560†	32248.2	116.6 mg/L	235.68	116.6 mg/L	235.68	202.21%
Cr 267.716†	20957.9	0.7189 mg/L	0.59236	0.7189 mg/L	0.59236	82.40%
Cr 283.563†	-54858.3	-13.11 mg/L	63.662	-13.11 mg/L	63.662	485.58%
Cu 224.700†	-402509.2	-521.0 mg/L	1864.69	-521.0 mg/L	1864.69	357.91%
Cu 324.752†	447698.4	40.12 mg/L	148.736	40.12 mg/L	148.736	370.69%
Cu 327.393†	745796.3	10.82 mg/L	9.488	10.82 mg/L	9.488	87.68%
Fe 238.204†	1181397.5	305.2 mg/L	882.53	305.2 mg/L	882.53	289.14%
Fe 239.562†	874491.6	292.5 mg/L	795.04	292.5 mg/L	795.04	271.82%
Fe 259.939†	2139984.3	326.9 mg/L	957.55	326.9 mg/L	957.55	292.96%
Fe 273.955†	462023.7	489.5 mg/L	1293.07	489.5 mg/L	1293.07	264.16%
K 766.490†	1101032.9	1904 mg/L	5566.8	1904 mg/L	5566.8	292.40%
Li 610.362†	-23662167	-3540 mg/L	11702.4	-3540 mg/L	11702.4	330.59%
Li 670.784†	6717842.3	127.4 mg/L	424.75	127.4 mg/L	424.75	333.52%
Mg 279.077†	2028162.7	2267 mg/L	7682.1	2267 mg/L	7682.1	338.94%
Mg 280.271†	72871490.0	532.9 mg/L	1811.54	532.9 mg/L	1811.54	339.96%
Mg 285.213†	2395626.5	556.0 mg/L	1741.84	556.0 mg/L	1741.84	313.27%
Mn 257.610†	736692.7	25.13 mg/L	83.565	25.13 mg/L	83.565	332.59%
Mn 259.372†	359135.4	7.593 mg/L	18.1261	7.593 mg/L	18.1261	238.71%
Mn 260.568†	275606.7	14.32 mg/L	50.977	14.32 mg/L	50.977	355.86%
Mo 202.031†	27672.4	75.52 mg/L	332.563	75.52 mg/L	332.563	440.39%
Mo 203.845†	101124.9	482.6 mg/L	1263.35	482.6 mg/L	1263.35	261.80%
Mo 204.597†	-199487.8	-24.62 mg/L	24.812	-24.62 mg/L	24.812	100.77%
Na 588.995†	-23401442	-4516 mg/L	15415.5	-4516 mg/L	15415.5	341.37%
Na 589.592†	10495184.0	1987 mg/L	6682.3	1987 mg/L	6682.3	336.37%
Ni 221.648†	10447.5	34.07 mg/L	274.972	34.07 mg/L	274.972	807.08%
Ni 231.604†	-129975.1	-8.944 mg/L	7.4055	-8.944 mg/L	7.4055	82.80%
Ni 232.003†	-93621.9	-198.6 mg/L	710.57	-198.6 mg/L	710.57	357.79%
Pb 217.000†	-116670.4	-1322 mg/L	4660.8	-1322 mg/L	4660.8	352.64%
Pb 220.353†	22514.5	8.044 mg/L	12.3595	8.044 mg/L	12.3595	153.64%
Sb 206.836†	8940.3	3.944 mg/L	6.9149	3.944 mg/L	6.9149	175.31%
Sb 217.582†	-35492.1	-551.3 mg/L	2249.70	-551.3 mg/L	2249.70	408.06%
Se 196.026†	-53548.7	-46.48 mg/L	49.924	-46.48 mg/L	49.924	107.42%
Se 203.985†	-424681.6	-708.6 mg/L	683.28	-708.6 mg/L	683.28	96.42%
Sn 189.927†	-7486.7	-5.346 mg/L	4.1243	-5.346 mg/L	4.1243	77.15%
Sn 235.485†	752448.1	4100 mg/L	13347.6	4100 mg/L	13347.6	325.56%
Sr 407.771†	-28471.9	-0.1355 mg/L	2.23092	-0.1355 mg/L	2.23092	>999.9%
Sr 421.552†	6919803.0	24.85 mg/L	94.622	24.85 mg/L	94.622	380.73%
Sr 460.733†	1589110.8	134.4 mg/L	485.04	134.4 mg/L	485.04	360.92%
Ti 334.940†	186812.1	7.815 mg/L	21.6152	7.815 mg/L	21.6152	276.57%
Ti 336.121†	743843.7	37.79 mg/L	131.521	37.79 mg/L	131.521	348.06%
Ti 337.279†	950262.8	112.3 mg/L	361.13	112.3 mg/L	361.13	321.46%
Tl 190.801†	-34318.4	-37.63 mg/L	36.522	-37.63 mg/L	36.522	97.05%
Tl 276.787†	-70785.7	-16.13 mg/L	57.956	-16.13 mg/L	57.956	359.23%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	279905.5	76.23 mg/L	250.059	76.23 mg/L	250.059	328.03%
V 309.310†	67622.2	10.17 mg/L	13.190	10.17 mg/L	13.190	129.69%
V 310.230†	1537955.5	9.730 mg/L	9.4909	9.730 mg/L	9.4909	97.54%
Zn 202.548†	-35572.3	-11.80 mg/L	29.646	-11.80 mg/L	29.646	251.17%
Zn 206.200†	-115325.8	-124.0 mg/L	353.49	-124.0 mg/L	353.49	285.06%
Zn 213.857†	449950.6	108.8 mg/L	384.49	108.8 mg/L	384.49	353.42%

Sequence No.: 32
Sample ID: LFB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 29
Date Collected: 11/9/01 11:29:31 AM

Sample Prep Volume:
Data Type: Original

Mean Data: LFB

	Mean Corrected	Calib	Sample

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 371.029	82.1						20.43	24.89%
Y 360.073	3067.7						164.11	5.35%
Ag 328.068†	-27899.6	-0.1456	mg/L	0.38325	-0.1456	mg/L	0.38325	263.31%
Ag 338.289†	-151499.6	-1.435	mg/L	0.9151	-1.435	mg/L	0.9151	63.76%
Al 308.215†	106161.6	142.5	mg/L	35.00	142.5	mg/L	35.00	24.55%
Al 394.401†	37001.9	41.11	mg/L	24.692	41.11	mg/L	24.692	60.07%
Al 396.153†	1584227.1	466.8	mg/L	132.33	466.8	mg/L	132.33	28.35%
As 188.979†	-3215.8	-70.62	mg/L	117.528	-70.62	mg/L	117.528	166.43%
As 193.696†	-21984.5	-23.65	mg/L	2.989	-23.65	mg/L	2.989	12.64%
As 197.197†	-5409.6	-198.4	mg/L	60.95	-198.4	mg/L	60.95	30.71%
B 208.889†	139415.2	606.0	mg/L	194.96	606.0	mg/L	194.96	32.17%
B 249.677†	-47305.4	-30.36	mg/L	7.299	-30.36	mg/L	7.299	24.04%
B 249.772†	102433.7	31.59	mg/L	9.895	31.59	mg/L	9.895	31.33%
Ba 233.527†	-54983.9	-12.51	mg/L	2.872	-12.51	mg/L	2.872	22.96%
Ba 455.403†	111892.8	1.199	mg/L	0.9418	1.199	mg/L	0.9418	78.55%
Ba 493.408†	163228.6	1.002	mg/L	0.7583	1.002	mg/L	0.7583	75.68%
Be 234.861†	-127574.8	-0.3309	mg/L	0.01418	-0.3309	mg/L	0.01418	4.29%
Be 313.042†	833214.3	10.07	mg/L	2.648	10.07	mg/L	2.648	26.29%
Be 313.107†	833214.3	10.07	mg/L	2.648	10.07	mg/L	2.648	26.29%
Ca 315.887†	362121.1	106.5	mg/L	41.69	106.5	mg/L	41.69	39.14%
Ca 317.933†	64705.3	18.60	mg/L	3.120	18.60	mg/L	3.120	16.78%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	-27030.8	-0.7071	mg/L	0.05620	-0.7071	mg/L	0.05620	7.95%
Cd 228.802†	61611.0	14.45	mg/L	4.356	14.45	mg/L	4.356	30.15%
Ce 413.380†	404341.8	214.3	mg/L	97.20	214.3	mg/L	97.20	45.35%
Ce 413.764†	79400.0	42.76	mg/L	34.277	42.76	mg/L	34.277	80.17%
Ce 418.660†	-1295147.6	-347.3	mg/L	69.31	-347.3	mg/L	69.31	19.96%
Co 228.616†	231015.6	5.375	mg/L	0.2948	5.375	mg/L	0.2948	5.49%
Co 230.786†	-17963.8	-16.71	mg/L	13.064	-16.71	mg/L	13.064	78.19%
Co 238.892†	12793.4	7.818	mg/L	0.5883	7.818	mg/L	0.5883	7.52%
Cr 205.560†	6464.9	23.37	mg/L	10.218	23.37	mg/L	10.218	43.73%
Cr 267.716†	5874.3	0.2015	mg/L	0.12972	0.2015	mg/L	0.12972	64.38%
Cr 283.563†	-30701.6	-7.337	mg/L	3.5338	-7.337	mg/L	3.5338	48.16%
Cu 224.700†	-164497.6	-212.9	mg/L	72.41	-212.9	mg/L	72.41	34.01%
Cu 324.752†	115859.5	10.38	mg/L	3.178	10.38	mg/L	3.178	30.60%
Cu 327.393†	11234.9	0.1630	mg/L	0.40546	0.1630	mg/L	0.40546	248.73%
Fe 238.204†	275769.8	71.25	mg/L	16.341	71.25	mg/L	16.341	22.94%
Fe 239.562†	179468.3	60.03	mg/L	12.951	60.03	mg/L	12.951	21.58%
Fe 259.939†	531804.3	81.23	mg/L	21.152	81.23	mg/L	21.152	26.04%
Fe 273.955†	91029.7	96.44	mg/L	20.121	96.44	mg/L	20.121	20.86%
K 766.490†	320565.0	554.3	mg/L	118.23	554.3	mg/L	118.23	21.33%
Li 610.362†	-8036066.7	-1202	mg/L	320.7	-1202	mg/L	320.7	26.68%
Li 670.784†	2047573.6	38.82	mg/L	16.793	38.82	mg/L	16.793	43.26%
Mg 279.077†	663262.3	741.2	mg/L	197.67	741.2	mg/L	197.67	26.67%
Mg 280.271†	17360490.7	126.9	mg/L	37.03	126.9	mg/L	37.03	29.17%
Mg 285.213†	521046.4	120.9	mg/L	31.84	120.9	mg/L	31.84	26.32%
Mn 257.610†	217202.9	7.408	mg/L	1.9373	7.408	mg/L	1.9373	26.15%
Mn 259.372†	46573.9	0.7708	mg/L	1.20778	0.7708	mg/L	1.20778	156.69%
Mn 260.568†	96735.1	5.028	mg/L	1.0297	5.028	mg/L	1.0297	20.48%
Mo 202.031†	17417.2	47.53	mg/L	11.534	47.53	mg/L	11.534	24.27%
Mo 203.845†	21880.8	104.4	mg/L	116.37	104.4	mg/L	116.37	111.45%
Mo 204.597†	-41446.6	-5.115	mg/L	0.3063	-5.115	mg/L	0.3063	5.99%
Na 588.995†	-8649998.4	-1669	mg/L	436.1	-1669	mg/L	436.1	26.13%
Na 589.592†	3206676.3	607.0	mg/L	107.58	607.0	mg/L	107.58	17.72%
Ni 221.648†	8961.8	29.22	mg/L	12.247	29.22	mg/L	12.247	41.91%
Ni 231.604†	-35676.3	-2.455	mg/L	0.3703	-2.455	mg/L	0.3703	15.08%
Ni 232.003†	-43591.4	-92.47	mg/L	18.071	-92.47	mg/L	18.071	19.54%
Pb 217.000†	-48156.4	-545.5	mg/L	169.20	-545.5	mg/L	169.20	31.01%
Pb 220.353†	-428.4	-0.1531	mg/L	1.86228	-0.1531	mg/L	1.86228	>999.9%
Sb 206.836†	-1150.9	-0.5078	mg/L	1.76507	-0.5078	mg/L	1.76507	347.61%
Sb 217.582†	-18709.2	-290.6	mg/L	11.78	-290.6	mg/L	11.78	4.05%
Se 196.026†	-10742.6	-9.324	mg/L	3.1310	-9.324	mg/L	3.1310	33.58%
Se 203.985†	-90203.7	-150.5	mg/L	10.90	-150.5	mg/L	10.90	7.24%
Sn 189.927†	-211.2	-0.1508	mg/L	0.35416	-0.1508	mg/L	0.35416	234.79%
Sn 235.485†	258181.4	1407	mg/L	443.9	1407	mg/L	443.9	31.55%
Sr 407.771†	-90895.4	-0.4326	mg/L	0.11972	-0.4326	mg/L	0.11972	27.68%
Sr 421.552†	2683866.7	9.639	mg/L	3.4798	9.639	mg/L	3.4798	36.10%
Sr 460.733†	635647.2	53.76	mg/L	51.042	53.76	mg/L	51.042	94.95%
Ti 334.940†	20762.4	0.8686	mg/L	0.75432	0.8686	mg/L	0.75432	86.84%

Ti 336.121†	215026.4	10.92 mg/L	2.067	10.92 mg/L	2.067	18.92%
Ti 337.279†	258788.1	30.59 mg/L	7.920	30.59 mg/L	7.920	25.89%
Tl 190.801†	-9002.6	-9.871 mg/L	2.7827	-9.871 mg/L	2.7827	28.19%
Tl 276.787†	-24196.2	-5.515 mg/L	6.3538	-5.515 mg/L	6.3538	115.21%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	68891.7	18.76 mg/L	3.385	18.76 mg/L	3.385	18.04%
V 309.310†	3808.6	0.5728 mg/L	0.51560	0.5728 mg/L	0.51560	90.01%
V 310.230†	493083.9	3.120 mg/L	0.8886	3.120 mg/L	0.8886	28.48%
Zn 202.548†	-15352.2	-5.181 mg/L	2.2864	-5.181 mg/L	2.2864	44.13%
Zn 206.200†	-30757.7	-33.07 mg/L	6.291	-33.07 mg/L	6.291	19.02%
Zn 213.857†	161777.6	39.13 mg/L	12.150	39.13 mg/L	12.150	31.05%

Sequence No.: 33
Sample ID: Filter Blank
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 30
Date Collected: 11/9/01 11:33:52 AM
Sample Prep Volume:
Data Type: Original

Mean Data: Filter Blank

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	86.1						9.23	10.72%
Y 360.073	3170.0						101.32	3.20%
Ag 328.068†	341479.6	1.782	mg/L	0.2587	1.782	mg/L	0.2587	14.52%
Ag 338.289†	43263.1	0.4099	mg/L	0.64307	0.4099	mg/L	0.64307	156.89%
Al 308.215†	265742.1	356.8	mg/L	25.11	356.8	mg/L	25.11	7.04%
Al 394.401†	223324.0	248.1	mg/L	41.57	248.1	mg/L	41.57	16.75%
Al 396.153†	2310786.9	684.3	mg/L	113.04	684.3	mg/L	113.04	16.52%
As 188.979†	-124.2	-2.728	mg/L	62.5983	-2.728	mg/L	62.5983	>999.9%
As 193.696†	-2459.5	-2.645	mg/L	1.6074	-2.645	mg/L	1.6074	60.76%
As 197.197†	-4191.7	-153.8	mg/L	156.59	-153.8	mg/L	156.59	101.83%
B 208.889†	163892.3	712.4	mg/L	100.84	712.4	mg/L	100.84	14.15%
B 249.677†	66534.2	42.71	mg/L	7.399	42.71	mg/L	7.399	17.33%
B 249.772†	380379.8	117.3	mg/L	12.82	117.3	mg/L	12.82	10.93%
Ba 233.527†	120138.1	27.33	mg/L	2.817	27.33	mg/L	2.817	10.31%
Ba 455.403†	3811864.9	40.85	mg/L	5.241	40.85	mg/L	5.241	12.83%
Ba 493.408†	6438563.3	39.53	mg/L	4.759	39.53	mg/L	4.759	12.04%
Be 234.861†	100195.4	0.2599	mg/L	0.02407	0.2599	mg/L	0.02407	9.26%
Be 313.042†	964022.0	11.65	mg/L	1.149	11.65	mg/L	1.149	9.86%
Be 313.107†	964022.0	11.65	mg/L	1.149	11.65	mg/L	1.149	9.86%
Ca 315.887†	44056005.9	12960	mg/L	1633.5	12960	mg/L	1633.5	12.61%
Ca 317.933†	41523983.1	11940	mg/L	1476.0	11940	mg/L	1476.0	12.37%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	134040.5	3.506	mg/L	0.2039	3.506	mg/L	0.2039	5.81%
Cd 228.802†	105265.5	24.68	mg/L	2.612	24.68	mg/L	2.612	10.58%
Ce 413.380†	667139.7	353.6	mg/L	75.08	353.6	mg/L	75.08	21.23%
Ce 413.764†	340439.0	183.3	mg/L	85.93	183.3	mg/L	85.93	46.87%
Ce 418.660†	-772396.5	-207.1	mg/L	47.93	-207.1	mg/L	47.93	23.14%
Co 228.616†	549674.3	12.79	mg/L	0.353	12.79	mg/L	0.353	2.76%
Co 230.786†	14388.1	13.38	mg/L	5.741	13.38	mg/L	5.741	42.89%
Co 238.892†	43635.2	26.67	mg/L	4.425	26.67	mg/L	4.425	16.60%
Cr 205.560†	10267.6	37.11	mg/L	10.694	37.11	mg/L	10.694	28.82%
Cr 267.716†	240672.7	8.255	mg/L	0.4434	8.255	mg/L	0.4434	5.37%
Cr 283.563†	74575.4	17.82	mg/L	3.338	17.82	mg/L	3.338	18.73%
Cu 224.700†	-130531.9	-169.0	mg/L	19.65	-169.0	mg/L	19.65	11.63%
Cu 324.752†	333481.9	29.89	mg/L	2.786	29.89	mg/L	2.786	9.32%
Cu 327.393†	525665.6	7.627	mg/L	0.3380	7.627	mg/L	0.3380	4.43%
Fe 238.204†	1404562.7	362.9	mg/L	37.23	362.9	mg/L	37.23	10.26%
Fe 239.562†	1061578.3	355.1	mg/L	35.88	355.1	mg/L	35.88	10.11%
Fe 259.939†	2416225.6	369.0	mg/L	39.29	369.0	mg/L	39.29	10.65%
Fe 273.955†	391749.3	415.0	mg/L	50.68	415.0	mg/L	50.68	12.21%
K 766.490†	4047444.8	6998	mg/L	870.9	6998	mg/L	870.9	12.44%
Li 610.362†	-7146632.4	-1069	mg/L	147.4	-1069	mg/L	147.4	13.78%
Li 670.784†	2893519.6	54.85	mg/L	11.806	54.85	mg/L	11.806	21.52%
Mg 279.077†	5253321.0	5871	mg/L	639.5	5871	mg/L	639.5	10.89%
Mg 280.271†	686281518	5018	mg/L	634.3	5018	mg/L	634.3	12.64%
Mg 285.213†	21736889.1	5045	mg/L	622.6	5045	mg/L	622.6	12.34%
Mn 257.610†	1450825.2	49.48	mg/L	5.220	49.48	mg/L	5.220	10.55%

Mn 259.372†	1850625.7	42.86	mg/L	5.322	42.86	mg/L	5.322	12.42%
Mn 260.568†	878012.6	45.64	mg/L	4.959	45.64	mg/L	4.959	10.87%
Mo 202.031†	21217.3	57.90	mg/L	9.661	57.90	mg/L	9.661	16.69%
Mo 203.845†	20810.8	99.31	mg/L	29.523	99.31	mg/L	29.523	29.73%
Mo 204.597†	23434.6	2.892	mg/L	0.6175	2.892	mg/L	0.6175	21.35%
Na 588.995†	54476601.0	10510	mg/L	1362.4	10510	mg/L	1362.4	12.96%
Na 589.592†	68016986.0	12870	mg/L	1567.3	12870	mg/L	1567.3	12.17%
Ni 221.648†	23535.8	76.75	mg/L	16.273	76.75	mg/L	16.273	21.20%
Ni 231.604†	215189.4	14.81	mg/L	0.826	14.81	mg/L	0.826	5.58%
Ni 232.003†	-14840.2	-31.48	mg/L	12.842	-31.48	mg/L	12.842	40.79%
Pb 217.000†	-30469.1	-345.2	mg/L	33.87	-345.2	mg/L	33.87	9.81%
Pb 220.353†	119767.7	42.79	mg/L	2.350	42.79	mg/L	2.350	5.49%
Sb 206.836†	96095.7	42.40	mg/L	1.740	42.40	mg/L	1.740	4.11%
Sb 217.582†	-6768.9	-105.1	mg/L	42.11	-105.1	mg/L	42.11	40.05%
Se 196.026†	48076.3	41.73	mg/L	2.728	41.73	mg/L	2.728	6.54%
Se 203.985†	-56878.7	-94.91	mg/L	6.293	-94.91	mg/L	6.293	6.63%
Sn 189.927†	57154.8	40.81	mg/L	3.375	40.81	mg/L	3.375	8.27%
Sn 235.485†	256217.8	1396	mg/L	189.2	1396	mg/L	189.2	13.56%
Sr 407.771†	45131717.3	214.8	mg/L	27.79	214.8	mg/L	27.79	12.94%
Sr 421.552†	61483393.9	220.8	mg/L	28.34	220.8	mg/L	28.34	12.83%
Sr 460.733†	2979972.8	252.0	mg/L	37.29	252.0	mg/L	37.29	14.80%
Ti 334.940†	505180.6	21.13	mg/L	2.763	21.13	mg/L	2.763	13.08%
Ti 336.121†	617397.5	31.36	mg/L	2.925	31.36	mg/L	2.925	9.33%
Ti 337.279†	423051.7	50.01	mg/L	4.509	50.01	mg/L	4.509	9.02%
Tl 190.801†	24098.7	26.42	mg/L	3.169	26.42	mg/L	3.169	11.99%
Tl 276.787†	189224.3	43.13	mg/L	3.955	43.13	mg/L	3.955	9.17%
Tl 351.924†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
V 290.880†	147132.2	40.07	mg/L	5.743	40.07	mg/L	5.743	14.33%
V 309.310†	141521.4	21.29	mg/L	0.924	21.29	mg/L	0.924	4.34%
V 310.230†	1731201.5	10.95	mg/L	0.867	10.95	mg/L	0.867	7.91%
Zn 202.548†	546200.4	241.3	mg/L	28.35	241.3	mg/L	28.35	11.75%
Zn 206.200†	196028.7	210.8	mg/L	17.54	210.8	mg/L	17.54	8.32%
Zn 213.857†	1155354.6	278.6	mg/L	28.94	278.6	mg/L	28.94	10.39%

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Sequence No.: 34 **Autosampler Location: 31**
Sample ID: Filter Blank SPK **Date Collected: 11/9/01 11:38:12 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: Filter Blank SPK

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	29.5						14.83	50.23%
Y 360.073	2427.4						74.75	3.08%
Ag 328.068†	-56720.6	-0.2959	mg/L	0.27359	-0.2959	mg/L	0.27359	92.46%
Ag 338.289†	-255442.4	-2.420	mg/L	1.0721	-2.420	mg/L	1.0721	44.30%
Al 308.215†	938502.8	1260	mg/L	896.7	1260	mg/L	896.7	71.16%
Al 394.401†	710621.5	789.4	mg/L	544.88	789.4	mg/L	544.88	69.02%
Al 396.153†	8186833.5	2415	mg/L	1876.2	2415	mg/L	1876.2	77.70%
As 188.979†	-2547.6	-55.94	mg/L	256.861	-55.94	mg/L	256.861	459.14%
As 193.696†	-26633.6	-28.65	mg/L	4.571	-28.65	mg/L	4.571	15.96%
As 197.197†	-15130.0	-555.0	mg/L	397.74	-555.0	mg/L	397.74	71.66%
B 208.889†	586132.7	2548	mg/L	1952.4	2548	mg/L	1952.4	76.63%
B 249.677†	169768.6	109.0	mg/L	85.48	109.0	mg/L	85.48	78.44%
B 249.772†	1280216.9	394.8	mg/L	286.68	394.8	mg/L	286.68	72.62%
Ba 233.527†	593598.3	135.0	mg/L	97.19	135.0	mg/L	97.19	71.97%
Ba 455.403†	16177492.8	173.4	mg/L	124.19	173.4	mg/L	124.19	71.64%
Ba 493.408†	27344571.4	167.9	mg/L	122.29	167.9	mg/L	122.29	72.85%
Be 234.861†	-211552.8	-0.5487	mg/L	0.03895	-0.5487	mg/L	0.03895	7.10%
Be 313.042†	2856896.5	34.53	mg/L	23.307	34.53	mg/L	23.307	67.50%
Be 313.107†	2856896.5	34.53	mg/L	23.307	34.53	mg/L	23.307	67.50%
Ca 315.887†	11525226.7	3389	mg/L	2375.9	3389	mg/L	2375.9	70.10%
Ca 317.933†	9911545.8	2849	mg/L	2038.5	2849	mg/L	2038.5	71.55%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	-32840.8	-0.8591	mg/L	0.12111	-0.8591	mg/L	0.12111	14.10%
Cd 228.802†	222949.9	52.27	mg/L	40.783	52.27	mg/L	40.783	78.02%
Ce 413.380†	1742536.9	923.5	mg/L	816.14	923.5	mg/L	816.14	88.37%

Ce 413.764†	221742.1	119.4	mg/L	128.36	119.4	mg/L	128.36	107.49%
Ce 418.660†	-4029095.3	-1080	mg/L	669.9	-1080	mg/L	669.9	62.01%
Co 228.616†	301724.9	7.020	mg/L	0.5952	7.020	mg/L	0.5952	8.48%
Co 230.786†	-44850.4	-41.72	mg/L	30.807	-41.72	mg/L	30.807	73.84%
Co 238.892†	54085.7	33.05	mg/L	33.828	33.05	mg/L	33.828	102.35%
Cr 205.560†	16252.6	58.74	mg/L	35.195	58.74	mg/L	35.195	59.92%
Cr 267.716†	22231.9	0.7626	mg/L	0.18653	0.7626	mg/L	0.18653	24.46%
Cr 283.563†	-97912.8	-23.40	mg/L	14.014	-23.40	mg/L	14.014	59.89%
Cu 224.700†	-550849.6	-713.0	mg/L	476.36	-713.0	mg/L	476.36	66.81%
Cu 324.752†	353357.1	31.67	mg/L	27.561	31.67	mg/L	27.561	87.03%
Cu 327.393†	16459.3	0.2388	mg/L	0.21059	0.2388	mg/L	0.21059	88.18%
Fe 238.204†	1755162.3	453.5	mg/L	313.82	453.5	mg/L	313.82	69.20%
Fe 239.562†	1224308.2	409.5	mg/L	287.14	409.5	mg/L	287.14	70.12%
Fe 259.939†	3141878.3	479.9	mg/L	334.47	479.9	mg/L	334.47	69.70%
Fe 273.955†	560713.8	594.1	mg/L	417.31	594.1	mg/L	417.31	70.25%
K 766.490†	1832073.1	3168	mg/L	1827.0	3168	mg/L	1827.0	57.67%
Li 610.362†	-27841015	-4165	mg/L	2783.2	-4165	mg/L	2783.2	66.82%
Li 670.784†	6313452.2	119.7	mg/L	67.31	119.7	mg/L	67.31	56.23%
Mg 279.077†	2963641.9	3312	mg/L	2102.3	3312	mg/L	2102.3	63.48%
Mg 280.271†	166189304	1215	mg/L	861.9	1215	mg/L	861.9	70.92%
Mg 285.213†	5241758.3	1217	mg/L	857.7	1217	mg/L	857.7	70.50%
Mn 257.610†	834422.0	28.46	mg/L	18.585	28.46	mg/L	18.585	65.31%
Mn 259.372†	140872.0	2.257	mg/L	3.5344	2.257	mg/L	3.5344	156.63%
Mn 260.568†	332168.3	17.26	mg/L	11.438	17.26	mg/L	11.438	66.25%
Mo 202.031†	34644.9	94.54	mg/L	85.943	94.54	mg/L	85.943	90.90%
Mo 203.845†	66401.5	316.9	mg/L	77.18	316.9	mg/L	77.18	24.36%
Mo 204.597†	-54494.3	-6.726	mg/L	0.2977	-6.726	mg/L	0.2977	4.43%
Na 588.995†	173356707	33450	mg/L	24407.3	33450	mg/L	24407.3	72.96%
Na 589.592†	223075652	42230	mg/L	30429.1	42230	mg/L	30429.1	72.06%
Ni 221.648†	25191.1	82.15	mg/L	115.614	82.15	mg/L	115.614	140.74%
Ni 231.604†	-35958.0	-2.474	mg/L	0.2109	-2.474	mg/L	0.2109	8.52%
Ni 232.003†	-148385.0	-314.8	mg/L	234.85	-314.8	mg/L	234.85	74.61%
Pb 217.000†	-174260.6	-1974	mg/L	1549.1	-1974	mg/L	1549.1	78.47%
Pb 220.353†	2962.0	1.058	mg/L	0.7329	1.058	mg/L	0.7329	69.25%
Sb 206.836†	-1325.0	-0.5846	mg/L	0.31301	-0.5846	mg/L	0.31301	53.54%
Sb 217.582†	-49912.3	-775.3	mg/L	673.68	-775.3	mg/L	673.68	86.89%
Se 196.026†	-17921.7	-15.55	mg/L	2.276	-15.55	mg/L	2.276	14.64%
Se 203.985†	-115466.2	-192.7	mg/L	6.66	-192.7	mg/L	6.66	3.46%
Sn 189.927†	875.8	0.6254	mg/L	1.77216	0.6254	mg/L	1.77216	283.39%
Sn 235.485†	930568.7	5070	mg/L	3811.5	5070	mg/L	3811.5	75.17%
Sr 407.771†	1081245.4	5.145	mg/L	2.8611	5.145	mg/L	2.8611	55.60%
Sr 421.552†	11365940.8	40.82	mg/L	28.023	40.82	mg/L	28.023	68.65%
Sr 460.733†	1679033.4	142.0	mg/L	16.68	142.0	mg/L	16.68	11.75%
Ti 334.940†	203702.2	8.522	mg/L	5.5398	8.522	mg/L	5.5398	65.01%
Ti 336.121†	917114.4	46.59	mg/L	35.552	46.59	mg/L	35.552	76.31%
Ti 337.279†	953940.5	112.8	mg/L	74.12	112.8	mg/L	74.12	65.73%
Tl 190.801†	-9003.8	-9.873	mg/L	2.1707	-9.873	mg/L	2.1707	21.99%
Tl 276.787†	43479.6	9.910	mg/L	3.3629	9.910	mg/L	3.3629	33.94%
Tl 351.924†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
V 290.880†	256822.7	69.94	mg/L	57.400	69.94	mg/L	57.400	82.07%
V 309.310†	-8585.0	-1.291	mg/L	0.8529	-1.291	mg/L	0.8529	66.06%
V 310.230†	442445.5	2.799	mg/L	0.2040	2.799	mg/L	0.2040	7.29%
Zn 202.548†	106063.8	51.86	mg/L	67.382	51.86	mg/L	67.382	129.93%
Zn 206.200†	-48479.6	-52.13	mg/L	34.740	-52.13	mg/L	34.740	66.64%
Zn 213.857†	807829.0	195.2	mg/L	133.30	195.2	mg/L	133.30	68.31%

Sequence No.: 35
Sample ID: 2002AH15S02
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 32
Date Collected: 11/9/01 11:42:33 AM
Sample Prep Volume:
Data Type: Original

Mean Data: 2002AH15S02

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	-5.3						9.39	176.80%
Y 360.073	1729.6						135.14	7.81%
Ag 328.068†	635128.7	3.314	mg/L	0.4154	3.314	mg/L	0.4154	12.54%

Ag 338.289†	44076.2	0.4176 mg/L	0.84230	0.4176 mg/L	0.84230	201.71%
Al 308.215†	-826196.7	-1109 mg/L	23508.5	-1109 mg/L	23508.5	>999.9%
Al 394.401†	-784069.7	-871.0 mg/L	18741.72	-871.0 mg/L	18741.72	>999.9%
Al 396.153†	-1844731.4	-556.9 mg/L	36247.91	-556.9 mg/L	36247.91	>999.9%
As 188.979†	-80133.9	-1760 mg/L	1857.7	-1760 mg/L	1857.7	105.57%
As 193.696†	-4600.8	-4.949 mg/L	7.0546	-4.949 mg/L	7.0546	142.56%
As 197.197†	-72669.6	-2666 mg/L	7291.4	-2666 mg/L	7291.4	273.51%
B 208.889†	-111125.5	-483.0 mg/L	31353.70	-483.0 mg/L	31353.70	>999.9%
B 249.677†	-642424.2	-412.4 mg/L	6346.38	-412.4 mg/L	6346.38	>999.9%
B 249.772†	-1746132.0	-538.4 mg/L	8960.68	-538.4 mg/L	8960.68	>999.9%
Ba 233.527†	-782590.5	-178.0 mg/L	3248.83	-178.0 mg/L	3248.83	>999.9%
Ba 455.403†	-8929769.2	-95.69 mg/L	3650.612	-95.69 mg/L	3650.612	>999.9%
Ba 493.408†	-19597189	-120.3 mg/L	3542.74	-120.3 mg/L	3542.74	>999.9%
Be 234.861†	219906.2	0.5704 mg/L	0.10536	0.5704 mg/L	0.10536	18.47%
Be 313.042†	-1509978.5	-18.25 mg/L	487.726	-18.25 mg/L	487.726	>999.9%
Be 313.107†	-1509978.5	-18.25 mg/L	487.726	-18.25 mg/L	487.726	>999.9%
Ca 315.887†	-67377637	-19810 mg/L	577409.4	-19810 mg/L	577409.4	>999.9%
Ca 317.933†	-60732354	-17460 mg/L	533180.1	-17460 mg/L	533180.1	>999.9%
Cd 214.440†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
Cd 226.502†	231590.7	6.058 mg/L	0.2615	6.058 mg/L	0.2615	4.32%
Cd 228.802†	-264026.5	-61.90 mg/L	1031.738	-61.90 mg/L	1031.738	>999.9%
Ce 413.380†	-3292350.6	-1745 mg/L	13124.6	-1745 mg/L	13124.6	752.14%
Ce 413.764†	-732879.2	-394.7 mg/L	4919.48	-394.7 mg/L	4919.48	>999.9%
Ce 418.660†	4365928.2	1171 mg/L	5976.8	1171 mg/L	5976.8	510.54%
Co 228.616†	1018010.0	23.69 mg/L	1.167	23.69 mg/L	1.167	4.93%
Co 230.786†	-31223.4	-29.04 mg/L	353.962	-29.04 mg/L	353.962	>999.9%
Co 238.892†	-190381.8	-116.3 mg/L	1040.25	-116.3 mg/L	1040.25	894.10%
Cr 205.560†	26522.0	95.86 mg/L	1501.453	95.86 mg/L	1501.453	>999.9%
Cr 267.716†	432465.4	14.83 mg/L	0.409	14.83 mg/L	0.409	2.76%
Cr 283.563†	145499.4	34.77 mg/L	916.944	34.77 mg/L	916.944	>999.9%
Cu 224.700†	222324.4	287.8 mg/L	6975.63	287.8 mg/L	6975.63	>999.9%
Cu 324.752†	-963783.8	-86.38 mg/L	1316.760	-86.38 mg/L	1316.760	>999.9%
Cu 327.393†	867058.2	12.58 mg/L	0.575	12.58 mg/L	0.575	4.57%
Fe 238.204†	-2541551.0	-656.6 mg/L	14036.56	-656.6 mg/L	14036.56	>999.9%
Fe 239.562†	-1767674.7	-591.2 mg/L	13363.82	-591.2 mg/L	13363.82	>999.9%
Fe 259.939†	-3651829.1	-557.8 mg/L	14280.32	-557.8 mg/L	14280.32	>999.9%
Fe 273.955†	-592675.0	-627.9 mg/L	16233.54	-627.9 mg/L	16233.54	>999.9%
K 766.490†	-5051023.4	-8734 mg/L	306448.4	-8734 mg/L	306448.4	>999.9%
Li 610.362†	3890048.2	582.0 mg/L	42852.74	582.0 mg/L	42852.74	>999.9%
Li 670.784†	-5486808.5	-104.0 mg/L	2564.41	-104.0 mg/L	2564.41	>999.9%
Mg 279.077†	-11188158	-12500 mg/L	262809.3	-12500 mg/L	262809.3	>999.9%
Mg 280.271†	-962078283	-7035 mg/L	219323.1	-7035 mg/L	219323.1	>999.9%
Mg 285.213†	-31186617	-7238 mg/L	221984.2	-7238 mg/L	221984.2	>999.9%
Mn 257.610†	-2635570.3	-89.89 mg/L	2150.898	-89.89 mg/L	2150.898	>999.9%
Mn 259.372†	-2996859.3	-70.35 mg/L	1848.486	-70.35 mg/L	1848.486	>999.9%
Mn 260.568†	-1538594.6	-79.97 mg/L	1967.649	-79.97 mg/L	1967.649	>999.9%
Mo 202.031†	34275.9	93.54 mg/L	2866.957	93.54 mg/L	2866.957	>999.9%
Mo 203.845†	51569.9	246.1 mg/L	7170.47	246.1 mg/L	7170.47	>999.9%
Mo 204.597†	36885.1	4.553 mg/L	1.2346	4.553 mg/L	1.2346	27.12%
Na 588.995†	-131008938	-25280 mg/L	902057.8	-25280 mg/L	902057.8	>999.9%
Na 589.592†	-165965685	-31420 mg/L	1010407.8	-31420 mg/L	1010407.8	>999.9%
Ni 221.648†	-71667.6	-233.7 mg/L	2696.81	-233.7 mg/L	2696.81	>999.9%
Ni 231.604†	385856.2	26.55 mg/L	1.675	26.55 mg/L	1.675	6.31%
Ni 232.003†	31799.6	67.46 mg/L	894.173	67.46 mg/L	894.173	>999.9%
Pb 217.000†	-113433.7	-1285 mg/L	16553.2	-1285 mg/L	16553.2	>999.9%
Pb 220.353†	213504.9	76.28 mg/L	4.691	76.28 mg/L	4.691	6.15%
Sb 206.836†	148933.8	65.71 mg/L	3.380	65.71 mg/L	3.380	5.14%
Sb 217.582†	13400.4	208.2 mg/L	6785.37	208.2 mg/L	6785.37	>999.9%
Se 196.026†	89632.3	77.79 mg/L	6.377	77.79 mg/L	6.377	8.20%
Se 203.985†	-106018.7	-176.9 mg/L	21.36	-176.9 mg/L	21.36	12.07%
Sn 189.927†	95156.9	67.95 mg/L	4.225	67.95 mg/L	4.225	6.22%
Sn 235.485†	-245531.6	-1338 mg/L	58606.1	-1338 mg/L	58606.1	>999.9%
Sr 407.771†	-60721077	-289.0 mg/L	9157.77	-289.0 mg/L	9157.77	>999.9%
Sr 421.552†	-83823600	-301.1 mg/L	9385.77	-301.1 mg/L	9385.77	>999.9%
Sr 460.733†	1556774.2	131.7 mg/L	10143.34	131.7 mg/L	10143.34	>999.9%
Ti 334.940†	-1392702.3	-58.26 mg/L	934.498	-58.26 mg/L	934.498	>999.9%
Ti 336.121†	-1680230.8	-85.35 mg/L	1331.917	-85.35 mg/L	1331.917	>999.9%
Ti 337.279†	-695359.6	-82.21 mg/L	2171.257	-82.21 mg/L	2171.257	>999.9%
Tl 190.801†	48099.0	52.74 mg/L	8.154	52.74 mg/L	8.154	15.46%
Tl 276.787†	344170.5	78.44 mg/L	20.267	78.44 mg/L	20.267	25.84%

Tl 351.924†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
V 290.880†	-29712.9	-8.092	mg/L	1806.5050	-8.092	mg/L	1806.5050	>999.9%
V 309.310†	-16559.3	-2.491	mg/L	902.7616	-2.491	mg/L	902.7616	>999.9%
V 310.230†	2758143.5	17.45	mg/L	1.341	17.45	mg/L	1.341	7.68%
Zn 202.548†	-1217273.0	-537.1	mg/L	11166.67	-537.1	mg/L	11166.67	>999.9%
Zn 206.200†	-332935.2	-358.0	mg/L	9614.90	-358.0	mg/L	9614.90	>999.9%
Zn 213.857†	-2110147.8	-509.1	mg/L	12420.73	-509.1	mg/L	12420.73	>999.9%

Sequence No.: 36
Sample ID: 2002AH15S03
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 33
Date Collected: 11/9/01 11:48:05 AM
Sample Prep Volume:
Data Type: Original

Mean Data: 2002AH15S03

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	-133.7						3.03	2.27%
Y 360.073	-83.9						60.98	72.72%
Ag 328.068†	8598078.1	44.86	mg/L	65.466	44.86	mg/L	65.466	145.94%
Ag 338.289†	12117660.8	114.8	mg/L	104.26	114.8	mg/L	104.26	90.81%
Al 308.215†	-99789.6	-134.0	mg/L	8.61	-134.0	mg/L	8.61	6.43%
Al 394.401†	8213.1	9.124	mg/L	2.7346	9.124	mg/L	2.7346	29.97%
Al 396.153†	-657827.4	-195.4	mg/L	6.27	-195.4	mg/L	6.27	3.21%
As 188.979†	4417.2	97.00	mg/L	74.359	97.00	mg/L	74.359	76.66%
As 193.696†	2261114.8	2432	mg/L	2803.0	2432	mg/L	2803.0	115.25%
As 197.197†	3260.2	119.6	mg/L	87.25	119.6	mg/L	87.25	72.96%
B 208.889†	-96730.7	-420.5	mg/L	22.34	-420.5	mg/L	22.34	5.31%
B 249.677†	16578.5	10.64	mg/L	3.161	10.64	mg/L	3.161	29.70%
B 249.772†	-147055.9	-45.35	mg/L	3.246	-45.35	mg/L	3.246	7.16%
Ba 233.527†	51044.6	11.61	mg/L	0.709	11.61	mg/L	0.709	6.10%
Ba 455.403†	-56189.8	-0.6021	mg/L	0.75119	-0.6021	mg/L	0.75119	124.76%
Ba 493.408†	-128416.0	-0.7883	mg/L	0.37684	-0.7883	mg/L	0.37684	47.80%
Be 234.861†	11065555.0	28.70	mg/L	32.116	28.70	mg/L	32.116	111.90%
Be 313.042†	-372330.4	-4.500	mg/L	0.1504	-4.500	mg/L	0.1504	3.34%
Be 313.107†	-372330.4	-4.500	mg/L	0.1504	-4.500	mg/L	0.1504	3.34%
Ca 315.887†	-162968.9	-47.93	mg/L	10.888	-47.93	mg/L	10.888	22.72%
Ca 317.933†	-30623.6	-8.802	mg/L	7.4018	-8.802	mg/L	7.4018	84.09%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	3136665.8	82.05	mg/L	96.491	82.05	mg/L	96.491	117.60%
Cd 228.802†	-56777.0	-13.31	mg/L	1.937	-13.31	mg/L	1.937	14.55%
Ce 413.380†	-188648.2	-99.98	mg/L	14.980	-99.98	mg/L	14.980	14.98%
Ce 413.764†	-191189.6	-103.0	mg/L	77.93	-103.0	mg/L	77.93	75.69%
Ce 418.660†	510981.5	137.0	mg/L	1.23	137.0	mg/L	1.23	0.90%
Co 228.616†	-24848318	-578.1	mg/L	644.32	-578.1	mg/L	644.32	111.45%
Co 230.786†	13565.9	12.62	mg/L	1.423	12.62	mg/L	1.423	11.27%
Co 238.892†	-10362.5	-6.333	mg/L	1.1099	-6.333	mg/L	1.1099	17.53%
Cr 205.560†	-3973.9	-14.36	mg/L	4.930	-14.36	mg/L	4.930	34.32%
Cr 267.716†	-24160.8	-0.8287	mg/L	3.79957	-0.8287	mg/L	3.79957	458.48%
Cr 283.563†	22358.9	5.343	mg/L	0.7992	5.343	mg/L	0.7992	14.96%
Cu 224.700†	105118.1	136.1	mg/L	4.28	136.1	mg/L	4.28	3.14%
Cu 324.752†	-847597.0	-75.96	mg/L	16.853	-75.96	mg/L	16.853	22.18%
Cu 327.393†	-146550170	-2126	mg/L	2168.9	-2126	mg/L	2168.9	102.00%
Fe 238.204†	35473.4	9.165	mg/L	1.7870	9.165	mg/L	1.7870	19.50%
Fe 239.562†	61490.9	20.57	mg/L	1.427	20.57	mg/L	1.427	6.94%
Fe 259.939†	5720.9	0.8738	mg/L	0.77479	0.8738	mg/L	0.77479	88.67%
Fe 273.955†	4498.5	4.766	mg/L	5.0329	4.766	mg/L	5.0329	105.60%
K 766.490†	-880748.6	-1523	mg/L	362.4	-1523	mg/L	362.4	23.80%
Li 610.362†	6843255.6	1024	mg/L	61.1	1024	mg/L	61.1	5.97%
Li 670.784†	-1879334.2	-35.63	mg/L	2.934	-35.63	mg/L	2.934	8.24%
Mg 279.077†	-324365.4	-362.5	mg/L	4.85	-362.5	mg/L	4.85	1.34%
Mg 280.271†	-6181438.7	-45.20	mg/L	1.573	-45.20	mg/L	1.573	3.48%
Mg 285.213†	-205737.9	-47.75	mg/L	2.141	-47.75	mg/L	2.141	4.48%
Mn 257.610†	-180358.8	-6.151	mg/L	0.3818	-6.151	mg/L	0.3818	6.21%
Mn 259.372†	-39557.5	-0.7576	mg/L	0.64507	-0.7576	mg/L	0.64507	85.14%
Mn 260.568†	-78052.6	-4.057	mg/L	0.4838	-4.057	mg/L	0.4838	11.93%
Mo 202.031†	-13726.0	-37.46	mg/L	6.457	-37.46	mg/L	6.457	17.24%
Mo 203.845†	-15387.5	-73.43	mg/L	25.179	-73.43	mg/L	25.179	34.29%

Mo 204.597†	4203391.8	518.8	mg/L	589.80	518.8	mg/L	589.80 113.69%
Na 588.995†	6943504.0	1340	mg/L	47.2	1340	mg/L	47.2 3.52%
Na 589.592†	-3834840.4	-725.9	mg/L	128.98	-725.9	mg/L	128.98 17.77%
Ni 221.648†	-5707.5	-18.61	mg/L	15.187	-18.61	mg/L	15.187 81.59%
Ni 231.604†	2626140.5	180.7	mg/L	204.58	180.7	mg/L	204.58 113.21%
Ni 232.003†	30407.9	64.50	mg/L	14.301	64.50	mg/L	14.301 22.17%
Pb 217.000†	35581.1	403.1	mg/L	59.19	403.1	mg/L	59.19 14.68%
Pb 220.353†	-749527.1	-267.8	mg/L	253.71	-267.8	mg/L	253.71 94.74%
Sb 206.836†	412501.3	182.0	mg/L	237.20	182.0	mg/L	237.20 130.34%
Sb 217.582†	12133.5	188.5	mg/L	30.13	188.5	mg/L	30.13 15.99%
Se 196.026†	-609622.7	-529.1	mg/L	522.17	-529.1	mg/L	522.17 98.69%
Se 203.985†	7753299.5	12940	mg/L	14371.0	12940	mg/L	14371.0 111.08%
Sn 189.927†	186132.4	132.9	mg/L	166.58	132.9	mg/L	166.58 125.33%
Sn 235.485†	-224733.8	-1225	mg/L	74.0	-1225	mg/L	74.0 6.05%
Sr 407.771†	60400.5	0.2874	mg/L	0.21226	0.2874	mg/L	0.21226 73.85%
Sr 421.552†	-1344796.0	-4.830	mg/L	0.1665	-4.830	mg/L	0.1665 3.45%
Sr 460.733†	-358212.7	-30.29	mg/L	3.671	-30.29	mg/L	3.671 12.12%
Ti 334.940†	13247.4	0.5542	mg/L	0.39185	0.5542	mg/L	0.39185 70.70%
Ti 336.121†	-104205.4	-5.294	mg/L	0.2342	-5.294	mg/L	0.2342 4.42%
Ti 337.279†	-94995.0	-11.23	mg/L	1.475	-11.23	mg/L	1.475 13.13%
Tl 190.801†	582988.3	639.3	mg/L	651.92	639.3	mg/L	651.92 101.98%
Tl 276.787†	-1047666.5	-238.8	mg/L	349.47	-238.8	mg/L	349.47 146.35%
Tl 351.924†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000 0.00%
V 290.880†	1898.7	0.5171	mg/L	1.89059	0.5171	mg/L	1.89059 365.62%
V 309.310†	-21301.6	-3.204	mg/L	1.0734	-3.204	mg/L	1.0734 33.50%
V 310.230†	-60108334	-380.3	mg/L	447.42	-380.3	mg/L	447.42 117.65%
Zn 202.548†	1875.8	-0.1783	mg/L	1.59699	-0.1783	mg/L	1.59699 895.73%
Zn 206.200†	17265.7	18.56	mg/L	1.375	18.56	mg/L	1.375 7.40%
Zn 213.857†	-148243.0	-36.71	mg/L	6.038	-36.71	mg/L	6.038 16.45%

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Analysis Begun

Start Time: 11/9/01 12:10:13 PM
Logged In Analyst: JVMORRIS
Spectrometer Model: Optima 3300 DV

Plasma On Time: 11/9/01 7:37:29 AM
Technique: ICP Continuous
Autosampler Model: AS-91

restart after reaspiration 1.5 hrs restart seq 31 JVM 9 nov 01

Sample Information File: D:\JVMORRIS\Sample Information\110901.sif
Results Data Set: 110901
Results Library: D:\JVMORRIS\Results\Results.mdb

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Sequence No.: 31
Sample ID: LRB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 28
Date Collected: 11/9/01 12:10:13 PM

Sample Prep Volume:
Data Type: Original

Mean Data: LRB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	268890.8						3568.35	1.33%
Y 360.073	3561332.3						20812.73	0.58%
Ag 328.068†	-5.6	-0.00003	mg/L	0.000151	-0.00003	mg/L	0.000151	521.07%
Ag 338.289†	56.2	0.00053	mg/L	0.000603	0.00053	mg/L	0.000603	113.14%
Al 308.215†	18.2	0.02447	mg/L	0.002522	0.02447	mg/L	0.002522	10.30%
Al 394.401†	4.9	0.00546	mg/L	0.003500	0.00546	mg/L	0.003500	64.10%
Al 396.153†	41.4	0.01226	mg/L	0.003953	0.01226	mg/L	0.003953	32.25%
As 188.979†	-0.3	-0.00578	mg/L	0.002276	-0.00578	mg/L	0.002276	39.39%
As 193.696†	-3.4	-0.00365	mg/L	0.002548	-0.00365	mg/L	0.002548	69.72%
As 197.197†	-0.3	-0.01189	mg/L	0.023694	-0.01189	mg/L	0.023694	199.24%
B 208.889†	2.6	0.01141	mg/L	0.016634	0.01141	mg/L	0.016634	145.83%
B 249.677†	6.5	0.00416	mg/L	0.001056	0.00416	mg/L	0.001056	25.40%
B 249.772†	11.4	0.00351	mg/L	0.000950	0.00351	mg/L	0.000950	27.06%
Ba 233.527†	1.5	0.00034	mg/L	0.000467	0.00034	mg/L	0.000467	138.09%
Ba 455.403†	39.3	0.00042	mg/L	0.000085	0.00042	mg/L	0.000085	20.19%
Ba 493.408†	14.3	0.00009	mg/L	0.000185	0.00009	mg/L	0.000185	211.25%
Be 234.861†	63.3	0.00016	mg/L	0.000027	0.00016	mg/L	0.000027	16.72%
Be 313.042†	22.0	0.00027	mg/L	0.000019	0.00027	mg/L	0.000019	7.08%

Be 313.107†	22.0	0.00027 mg/L	0.000019	0.00027 mg/L	0.000019	7.08%
Ca 315.887†	175.3	0.05154 mg/L	0.002089	0.05154 mg/L	0.002089	4.05%
Ca 317.933†	108.9	0.03131 mg/L	0.003907	0.03131 mg/L	0.003907	12.48%
Cd 214.440†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
Cd 226.502†	-10.2	-0.00027 mg/L	0.000094	-0.00027 mg/L	0.000094	35.26%
Cd 228.802†	-1.1	-0.00026 mg/L	0.000484	-0.00026 mg/L	0.000484	187.55%
Ce 413.380†	13.3	0.00705 mg/L	0.008312	0.00705 mg/L	0.008312	117.82%
Ce 413.764†	4.9	0.00265 mg/L	0.002348	0.00265 mg/L	0.002348	88.51%
Ce 418.660†	-52.6	-0.01409 mg/L	0.005682	-0.01409 mg/L	0.005682	40.32%
Co 228.616†	32.8	0.00076 mg/L	0.000393	0.00076 mg/L	0.000393	51.54%
Co 230.786†	1.6	0.00153 mg/L	0.000867	0.00153 mg/L	0.000867	56.59%
Co 238.892†	0.2	0.00015 mg/L	0.000575	0.00015 mg/L	0.000575	391.97%
Cr 205.560†	-0.1	-0.00022 mg/L	0.001600	-0.00022 mg/L	0.001600	717.35%
Cr 267.716†	15.9	0.00054 mg/L	0.000096	0.00054 mg/L	0.000096	17.73%
Cr 283.563†	-0.4	-0.00009 mg/L	0.000615	-0.00009 mg/L	0.000615	699.09%
Cu 224.700†	0.4	0.00051 mg/L	0.002115	0.00051 mg/L	0.002115	412.11%
Cu 324.752†	-4.9	-0.00044 mg/L	0.000287	-0.00044 mg/L	0.000287	64.87%
Cu 327.393†	48.7	0.00071 mg/L	0.000304	0.00071 mg/L	0.000304	43.07%
Fe 238.204†	33.4	0.00864 mg/L	0.000330	0.00864 mg/L	0.000330	3.82%
Fe 239.562†	27.2	0.00908 mg/L	0.000248	0.00908 mg/L	0.000248	2.73%
Fe 259.939†	58.5	0.00894 mg/L	0.000024	0.00894 mg/L	0.000024	0.26%
Fe 273.955†	6.7	0.00707 mg/L	0.002277	0.00707 mg/L	0.002277	32.22%
K 766.490†	-36.1	-0.06247 mg/L	0.031301	-0.06247 mg/L	0.031301	50.11%
Li 610.362†	-29.9	-0.00447 mg/L	0.007039	-0.00447 mg/L	0.007039	157.45%
Li 670.784†	-53.0	-0.00100 mg/L	0.001408	-0.00100 mg/L	0.001408	140.22%
Mg 279.077†	18.9	0.02113 mg/L	0.011152	0.02113 mg/L	0.011152	52.77%
Mg 280.271†	1612.2	0.01179 mg/L	0.000279	0.01179 mg/L	0.000279	2.37%
Mg 285.213†	50.9	0.01181 mg/L	0.000174	0.01181 mg/L	0.000174	1.48%
Mn 257.610†	3.2	0.00011 mg/L	0.000023	0.00011 mg/L	0.000023	20.71%
Mn 259.372†	9.9	0.00022 mg/L	0.000155	0.00022 mg/L	0.000155	69.23%
Mn 260.568†	4.3	0.00022 mg/L	0.000030	0.00022 mg/L	0.000030	13.60%
Mo 202.031†	0.3	0.00070 mg/L	0.000671	0.00070 mg/L	0.000671	95.38%
Mo 203.845†	-0.9	-0.00428 mg/L	0.011980	-0.00428 mg/L	0.011980	279.98%
Mo 204.597†	-7.4	-0.00091 mg/L	0.000420	-0.00091 mg/L	0.000420	45.98%
Na 588.995†	525.3	0.1014 mg/L	0.00637	0.1014 mg/L	0.00637	6.28%
Na 589.592†	486.1	0.09202 mg/L	0.010928	0.09202 mg/L	0.010928	11.88%
Ni 221.648†	0.3	0.00093 mg/L	0.001959	0.00093 mg/L	0.001959	209.80%
Ni 231.604†	1.1	0.00008 mg/L	0.000235	0.00008 mg/L	0.000235	311.09%
Ni 232.003†	1.5	0.00309 mg/L	0.001510	0.00309 mg/L	0.001510	48.81%
Pb 217.000†	-0.4	-0.00443 mg/L	0.010390	-0.00443 mg/L	0.010390	234.29%
Pb 220.353†	-2.2	-0.00080 mg/L	0.001096	-0.00080 mg/L	0.001096	137.56%
Sb 206.836†	3.9	0.00171 mg/L	0.000668	0.00171 mg/L	0.000668	38.98%
Sb 217.582†	-0.3	-0.00505 mg/L	0.006210	-0.00505 mg/L	0.006210	123.04%
Se 196.026†	7.4	0.00645 mg/L	0.001353	0.00645 mg/L	0.001353	20.99%
Se 203.985†	-4.3	-0.00721 mg/L	0.004121	-0.00721 mg/L	0.004121	57.11%
Sn 189.927†	-1.1	-0.00077 mg/L	0.000481	-0.00077 mg/L	0.000481	62.90%
Sn 235.485†	3.3	0.01785 mg/L	0.010602	0.01785 mg/L	0.010602	59.38%
Sr 407.771†	-2.6	-0.00001 mg/L	0.000029	-0.00001 mg/L	0.000029	233.51%
Sr 421.552†	141.9	0.00051 mg/L	0.000347	0.00051 mg/L	0.000347	68.08%
Sr 460.733†	31.3	0.00264 mg/L	0.004274	0.00264 mg/L	0.004274	161.70%
Ti 334.940†	3.9	0.00016 mg/L	0.000173	0.00016 mg/L	0.000173	105.92%
Ti 336.121†	49.6	0.00252 mg/L	0.000899	0.00252 mg/L	0.000899	35.66%
Ti 337.279†	-2.0	-0.00024 mg/L	0.000265	-0.00024 mg/L	0.000265	111.42%
Tl 190.801†	-1.3	-0.00146 mg/L	0.001320	-0.00146 mg/L	0.001320	90.60%
Tl 276.787†	-3.0	-0.00069 mg/L	0.001735	-0.00069 mg/L	0.001735	252.07%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	-11.5	-0.00314 mg/L	0.001199	-0.00314 mg/L	0.001199	38.17%
V 309.310†	8.4	0.00126 mg/L	0.001016	0.00126 mg/L	0.001016	80.82%
V 310.230†	-1359.8	-0.00860 mg/L	0.000381	-0.00860 mg/L	0.000381	4.43%
Zn 202.548†	9.4	0.00412 mg/L	0.001389	0.00412 mg/L	0.001389	33.76%
Zn 206.200†	4.0	0.00430 mg/L	0.000459	0.00430 mg/L	0.000459	10.68%
Zn 213.857†	16.9	0.00408 mg/L	0.000213	0.00408 mg/L	0.000213	5.22%

Sequence No.: 32
Sample ID: LFB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 29
Date Collected: 11/9/01 12:14:37 PM

Sample Prep Volume:
Data Type: Original

Mean Data: LFB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	264586.9						4024.68	1.52%
Y 360.073	3538010.5						17723.49	0.50%
Ag 328.068†	5039.5	0.02629	mg/L	0.000157	0.02629	mg/L	0.000157	0.60%
Ag 338.289†	2811.2	0.02663	mg/L	0.000915	0.02663	mg/L	0.000915	3.44%
Al 308.215†	824.3	1.107	mg/L	0.0157	1.107	mg/L	0.0157	1.42%
Al 394.401†	1003.8	1.115	mg/L	0.0145	1.115	mg/L	0.0145	1.30%
Al 396.153†	4019.1	1.195	mg/L	0.0249	1.195	mg/L	0.0249	2.09%
As 188.979†	9.5	0.2090	mg/L	0.01196	0.2090	mg/L	0.01196	5.72%
As 193.696†	200.7	0.2159	mg/L	0.00061	0.2159	mg/L	0.00061	0.28%
As 197.197†	5.9	0.2169	mg/L	0.03411	0.2169	mg/L	0.03411	15.73%
B 208.889†	224.7	0.9767	mg/L	0.01414	0.9767	mg/L	0.01414	1.45%
B 249.677†	1482.3	0.9515	mg/L	0.01232	0.9515	mg/L	0.01232	1.29%
B 249.772†	3103.8	0.9571	mg/L	0.01137	0.9571	mg/L	0.01137	1.19%
Ba 233.527†	850.3	0.1934	mg/L	0.00327	0.1934	mg/L	0.00327	1.69%
Ba 455.403†	19386.3	0.2077	mg/L	0.00587	0.2077	mg/L	0.00587	2.83%
Ba 493.408†	33038.9	0.2028	mg/L	0.00579	0.2028	mg/L	0.00579	2.86%
Be 234.861†	3212.0	0.00833	mg/L	0.000112	0.00833	mg/L	0.000112	1.35%
Be 313.042†	904.7	0.01093	mg/L	0.000123	0.01093	mg/L	0.000123	1.13%
Be 313.107†	904.7	0.01093	mg/L	0.000123	0.01093	mg/L	0.000123	1.13%
Ca 315.887†	197895.5	58.20	mg/L	1.520	58.20	mg/L	1.520	2.61%
Ca 317.933†	182385.7	52.43	mg/L	0.400	52.43	mg/L	0.400	0.76%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	1870.3	0.04892	mg/L	0.000150	0.04892	mg/L	0.000150	0.31%
Cd 228.802†	202.7	0.04753	mg/L	0.000843	0.04753	mg/L	0.000843	1.77%
Ce 413.380†	1031.4	0.5467	mg/L	0.01516	0.5467	mg/L	0.01516	2.77%
Ce 413.764†	964.6	0.5195	mg/L	0.02670	0.5195	mg/L	0.02670	5.14%
Ce 418.660†	1886.9	0.5060	mg/L	0.00803	0.5060	mg/L	0.00803	1.59%
Co 228.616†	4102.9	0.09546	mg/L	0.000903	0.09546	mg/L	0.000903	0.95%
Co 230.786†	104.7	0.09737	mg/L	0.001764	0.09737	mg/L	0.001764	1.81%
Co 238.892†	155.7	0.09517	mg/L	0.001668	0.09517	mg/L	0.001668	1.75%
Cr 205.560†	27.4	0.09897	mg/L	0.006569	0.09897	mg/L	0.006569	6.64%
Cr 267.716†	2912.8	0.09991	mg/L	0.000489	0.09991	mg/L	0.000489	0.49%
Cr 283.563†	473.6	0.1132	mg/L	0.00332	0.1132	mg/L	0.00332	2.94%
Cu 224.700†	72.7	0.09414	mg/L	0.003854	0.09414	mg/L	0.003854	4.09%
Cu 324.752†	1019.3	0.09135	mg/L	0.001317	0.09135	mg/L	0.001317	1.44%
Cu 327.393†	6688.4	0.09704	mg/L	0.000341	0.09704	mg/L	0.000341	0.35%
Fe 238.204†	4199.9	1.085	mg/L	0.0216	1.085	mg/L	0.0216	1.99%
Fe 239.562†	3223.6	1.078	mg/L	0.0356	1.078	mg/L	0.0356	3.30%
Fe 259.939†	7271.0	1.111	mg/L	0.0320	1.111	mg/L	0.0320	2.88%
Fe 273.955†	1139.4	1.207	mg/L	0.0188	1.207	mg/L	0.0188	1.56%
K 766.490†	17069.4	29.51	mg/L	0.735	29.51	mg/L	0.735	2.49%
Li 610.362†	582.4	0.08712	mg/L	0.010956	0.08712	mg/L	0.010956	12.58%
Li 670.784†	5453.7	0.1034	mg/L	0.00229	0.1034	mg/L	0.00229	2.21%
Mg 279.077†	19938.1	22.28	mg/L	0.556	22.28	mg/L	0.556	2.50%
Mg 280.271†	2919918.3	21.35	mg/L	0.184	21.35	mg/L	0.184	0.86%
Mg 285.213†	90196.0	20.93	mg/L	0.529	20.93	mg/L	0.529	2.53%
Mn 257.610†	5885.6	0.2007	mg/L	0.00503	0.2007	mg/L	0.00503	2.51%
Mn 259.372†	8493.7	0.1983	mg/L	0.00385	0.1983	mg/L	0.00385	1.94%
Mn 260.568†	3747.7	0.1948	mg/L	0.00512	0.1948	mg/L	0.00512	2.63%
Mo 202.031†	34.6	0.09444	mg/L	0.007085	0.09444	mg/L	0.007085	7.50%
Mo 203.845†	21.5	0.1026	mg/L	0.01865	0.1026	mg/L	0.01865	18.18%
Mo 204.597†	821.7	0.1014	mg/L	0.00022	0.1014	mg/L	0.00022	0.21%
Na 588.995†	273776.4	52.83	mg/L	0.457	52.83	mg/L	0.457	0.86%
Na 589.592†	288990.3	54.70	mg/L	0.430	54.70	mg/L	0.430	0.79%
Ni 221.648†	60.9	0.1987	mg/L	0.00606	0.1987	mg/L	0.00606	3.05%
Ni 231.604†	3027.3	0.2083	mg/L	0.00074	0.2083	mg/L	0.00074	0.36%
Ni 232.003†	93.7	0.1987	mg/L	0.00329	0.1987	mg/L	0.00329	1.66%
Pb 217.000†	43.3	0.4907	mg/L	0.02229	0.4907	mg/L	0.02229	4.54%
Pb 220.353†	1456.7	0.5205	mg/L	0.00208	0.5205	mg/L	0.00208	0.40%
Sb 206.836†	1193.1	0.5264	mg/L	0.00284	0.5264	mg/L	0.00284	0.54%
Sb 217.582†	32.8	0.5099	mg/L	0.03048	0.5099	mg/L	0.03048	5.98%
Se 196.026†	597.5	0.5185	mg/L	0.00342	0.5185	mg/L	0.00342	0.66%
Se 203.985†	298.0	0.4972	mg/L	0.00543	0.4972	mg/L	0.00543	1.09%
Sn 189.927†	721.6	0.5153	mg/L	0.00256	0.5153	mg/L	0.00256	0.50%
Sn 235.485†	110.7	0.6031	mg/L	0.01011	0.6031	mg/L	0.01011	1.68%
Sr 407.771†	231237.0	1.100	mg/L	0.0090	1.100	mg/L	0.0090	0.82%

Sr 421.552†	297775.8	1.069	mg/L	0.0075	1.069	mg/L	0.0075	0.70%
Sr 460.733†	12848.2	1.087	mg/L	0.0293	1.087	mg/L	0.0293	2.70%
Ti 334.940†	2492.1	0.1043	mg/L	0.00238	0.1043	mg/L	0.00238	2.29%
Ti 336.121†	2072.0	0.1053	mg/L	0.00335	0.1053	mg/L	0.00335	3.19%
Ti 337.279†	869.9	0.1028	mg/L	0.00237	0.1028	mg/L	0.00237	2.31%
Tl 190.801†	474.2	0.5200	mg/L	0.00408	0.5200	mg/L	0.00408	0.79%
Tl 276.787†	2788.2	0.6355	mg/L	0.01679	0.6355	mg/L	0.01679	2.64%
Tl 351.924†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
V 290.880†	380.2	0.1036	mg/L	0.00346	0.1036	mg/L	0.00346	3.34%
V 309.310†	652.8	0.09818	mg/L	0.002606	0.09818	mg/L	0.002606	2.65%
V 310.230†	14895.3	0.09424	mg/L	0.001386	0.09424	mg/L	0.001386	1.47%
Zn 202.548†	2339.0	1.027	mg/L	0.0166	1.027	mg/L	0.0166	1.61%
Zn 206.200†	960.3	1.033	mg/L	0.0124	1.033	mg/L	0.0124	1.21%
Zn 213.857†	4341.5	1.046	mg/L	0.0282	1.046	mg/L	0.0282	2.69%

Sequence No.: 33
Sample ID: Filter Blank
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 30
Date Collected: 11/9/01 12:19:10 PM
Sample Prep Volume:
Data Type: Original

Mean Data: Filter Blank

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	264379.2						1247.92	0.47%
Y 360.073	3565563.4						22820.56	0.64%
Ag 328.068†	-2.9	-0.00001	mg/L	0.000348	-0.00001	mg/L	0.000348	>999.9%
Ag 338.289†	-34.4	-0.00033	mg/L	0.000198	-0.00033	mg/L	0.000198	60.79%
Al 308.215†	714.7	0.9596	mg/L	0.00678	0.9596	mg/L	0.00678	0.71%
Al 394.401†	874.0	0.9709	mg/L	0.01928	0.9709	mg/L	0.01928	1.99%
Al 396.153†	3296.8	0.9725	mg/L	0.01840	0.9725	mg/L	0.01840	1.89%
As 188.979†	0.3	0.00559	mg/L	0.015264	0.00559	mg/L	0.015264	272.82%
As 193.696†	-2.5	-0.00266	mg/L	0.002732	-0.00266	mg/L	0.002732	102.57%
As 197.197†	-0.1	-0.00321	mg/L	0.042534	-0.00321	mg/L	0.042534	>999.9%
B 208.889†	148.8	0.6469	mg/L	0.00602	0.6469	mg/L	0.00602	0.93%
B 249.677†	984.6	0.6320	mg/L	0.00893	0.6320	mg/L	0.00893	1.41%
B 249.772†	2057.0	0.6343	mg/L	0.00655	0.6343	mg/L	0.00655	1.03%
Ba 233.527†	970.3	0.2207	mg/L	0.00259	0.2207	mg/L	0.00259	1.18%
Ba 455.403†	21553.9	0.2310	mg/L	0.00121	0.2310	mg/L	0.00121	0.52%
Ba 493.408†	36781.2	0.2258	mg/L	0.00069	0.2258	mg/L	0.00069	0.31%
Be 234.861†	-45.8	-0.00012	mg/L	0.000025	-0.00012	mg/L	0.000025	21.11%
Be 313.042†	25.5	0.00031	mg/L	0.000016	0.00031	mg/L	0.000016	5.04%
Be 313.107†	25.5	0.00031	mg/L	0.000016	0.00031	mg/L	0.000016	5.04%
Ca 315.887†	10871.6	3.197	mg/L	0.0188	3.197	mg/L	0.0188	0.59%
Ca 317.933†	10063.4	2.893	mg/L	0.0173	2.893	mg/L	0.0173	0.60%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	-4.3	-0.00011	mg/L	0.000090	-0.00011	mg/L	0.000090	79.93%
Cd 228.802†	-1.9	-0.00043	mg/L	0.000595	-0.00043	mg/L	0.000595	136.99%
Ce 413.380†	5.6	0.00295	mg/L	0.006062	0.00295	mg/L	0.006062	205.81%
Ce 413.764†	6.3	0.00342	mg/L	0.004511	0.00342	mg/L	0.004511	132.00%
Ce 418.660†	-55.5	-0.01488	mg/L	0.002631	-0.01488	mg/L	0.002631	17.68%
Co 228.616†	28.2	0.00066	mg/L	0.000336	0.00066	mg/L	0.000336	51.19%
Co 230.786†	1.4	0.00131	mg/L	0.000914	0.00131	mg/L	0.000914	69.49%
Co 238.892†	1.5	0.00091	mg/L	0.000629	0.00091	mg/L	0.000629	69.34%
Cr 205.560†	1.9	0.00676	mg/L	0.001329	0.00676	mg/L	0.001329	19.65%
Cr 267.716†	127.2	0.00436	mg/L	0.000011	0.00436	mg/L	0.000011	0.24%
Cr 283.563†	13.4	0.00320	mg/L	0.000540	0.00320	mg/L	0.000540	16.88%
Cu 224.700†	-0.9	-0.00114	mg/L	0.002404	-0.00114	mg/L	0.002404	211.30%
Cu 324.752†	22.8	0.00204	mg/L	0.000404	0.00204	mg/L	0.000404	19.77%
Cu 327.393†	193.5	0.00281	mg/L	0.000470	0.00281	mg/L	0.000470	16.76%
Fe 238.204†	403.3	0.1042	mg/L	0.00102	0.1042	mg/L	0.00102	0.98%
Fe 239.562†	312.0	0.1044	mg/L	0.00162	0.1044	mg/L	0.00162	1.55%
Fe 259.939†	696.4	0.1064	mg/L	0.00070	0.1064	mg/L	0.00070	0.66%
Fe 273.955†	108.8	0.1152	mg/L	0.00382	0.1152	mg/L	0.00382	3.32%
K 766.490†	1279.9	2.213	mg/L	0.0376	2.213	mg/L	0.0376	1.70%
Li 610.362†	11.8	0.00176	mg/L	0.013890	0.00176	mg/L	0.013890	790.02%
Li 670.784†	25.5	0.00048	mg/L	0.001806	0.00048	mg/L	0.001806	374.10%
Mg 279.077†	792.3	0.8854	mg/L	0.01203	0.8854	mg/L	0.01203	1.36%

Mg 280.271†	116348.6	0.8508	mg/L	0.01004	0.8508	mg/L	0.01004	1.18%
Mg 285.213†	3594.7	0.8343	mg/L	0.00839	0.8343	mg/L	0.00839	1.01%
Mn 257.610†	57.1	0.00195	mg/L	0.000065	0.00195	mg/L	0.000065	3.33%
Mn 259.372†	82.3	0.00181	mg/L	0.000079	0.00181	mg/L	0.000079	4.36%
Mn 260.568†	37.9	0.00197	mg/L	0.000053	0.00197	mg/L	0.000053	2.71%
Mo 202.031†	0.9	0.00233	mg/L	0.001631	0.00233	mg/L	0.001631	70.05%
Mo 203.845†	1.7	0.00796	mg/L	0.022909	0.00796	mg/L	0.022909	287.74%
Mo 204.597†	-6.5	-0.00080	mg/L	0.000327	-0.00080	mg/L	0.000327	41.02%
Na 588.995†	234487.8	45.25	mg/L	0.423	45.25	mg/L	0.423	0.94%
Na 589.592†	247033.6	46.76	mg/L	0.404	46.76	mg/L	0.404	0.86%
Ni 221.648†	-19.9	-0.06505	mg/L	0.004335	-0.06505	mg/L	0.004335	6.66%
Ni 231.604†	35.5	0.00244	mg/L	0.000178	0.00244	mg/L	0.000178	7.28%
Ni 232.003†	2.8	0.00595	mg/L	0.002364	0.00595	mg/L	0.002364	39.73%
Pb 217.000†	-2.8	-0.03166	mg/L	0.023500	-0.03166	mg/L	0.023500	74.23%
Pb 220.353†	0.3	0.00010	mg/L	0.000819	0.00010	mg/L	0.000819	808.00%
Sb 206.836†	3.4	0.00152	mg/L	0.001329	0.00152	mg/L	0.001329	87.56%
Sb 217.582†	-1.4	-0.02102	mg/L	0.002801	-0.02102	mg/L	0.002801	13.32%
Se 196.026†	6.3	0.00546	mg/L	0.000828	0.00546	mg/L	0.000828	15.17%
Se 203.985†	-2.9	-0.00489	mg/L	0.003323	-0.00489	mg/L	0.003323	67.93%
Sn 189.927†	2.0	0.00145	mg/L	0.000728	0.00145	mg/L	0.000728	50.20%
Sn 235.485†	10.2	0.05536	mg/L	0.011995	0.05536	mg/L	0.011995	21.67%
Sr 407.771†	602.9	0.00287	mg/L	0.000080	0.00287	mg/L	0.000080	2.80%
Sr 421.552†	875.4	0.00314	mg/L	0.000114	0.00314	mg/L	0.000114	3.61%
Sr 460.733†	62.6	0.00530	mg/L	0.011093	0.00530	mg/L	0.011093	209.41%
Ti 334.940†	140.3	0.00587	mg/L	0.000195	0.00587	mg/L	0.000195	3.31%
Ti 336.121†	149.6	0.00760	mg/L	0.001143	0.00760	mg/L	0.001143	15.04%
Ti 337.279†	49.5	0.00585	mg/L	0.000158	0.00585	mg/L	0.000158	2.70%
Tl 190.801†	2.4	0.00267	mg/L	0.001889	0.00267	mg/L	0.001889	70.66%
Tl 276.787†	48.7	0.01110	mg/L	0.001126	0.01110	mg/L	0.001126	10.14%
Tl 351.924†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
V 290.880†	-9.3	-0.00252	mg/L	0.000480	-0.00252	mg/L	0.000480	19.02%
V 309.310†	-11.5	-0.00174	mg/L	0.001026	-0.00174	mg/L	0.001026	59.05%
V 310.230†	-1357.5	-0.00859	mg/L	0.000340	-0.00859	mg/L	0.000340	3.96%
Zn 202.548†	151.3	0.06650	mg/L	0.001230	0.06650	mg/L	0.001230	1.85%
Zn 206.200†	62.5	0.06723	mg/L	0.001611	0.06723	mg/L	0.001611	2.40%
Zn 213.857†	282.8	0.06818	mg/L	0.000980	0.06818	mg/L	0.000980	1.44%

Sequence No.: 34
Sample ID: Filter Blank SPK
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 31
Date Collected: 11/9/01 12:23:39 PM
Sample Prep Volume:
Data Type: Original

Mean Data: Filter Blank SPK

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	264152.0						2435.41	0.92%
Y 360.073	3413589.3						73687.75	2.16%
Ag 328.068†	5190.6	0.02708	mg/L	0.000494	0.02708	mg/L	0.000494	1.82%
Ag 338.289†	2871.7	0.02721	mg/L	0.001127	0.02721	mg/L	0.001127	4.14%
Al 308.215†	1480.5	1.988	mg/L	0.0248	1.988	mg/L	0.0248	1.25%
Al 394.401†	1817.1	2.019	mg/L	0.0389	2.019	mg/L	0.0389	1.93%
Al 396.153†	7005.5	2.076	mg/L	0.0560	2.076	mg/L	0.0560	2.70%
As 188.979†	9.0	0.1978	mg/L	0.02479	0.1978	mg/L	0.02479	12.53%
As 193.696†	205.2	0.2207	mg/L	0.00653	0.2207	mg/L	0.00653	2.96%
As 197.197†	5.3	0.1936	mg/L	0.02136	0.1936	mg/L	0.02136	11.03%
B 208.889†	383.4	1.667	mg/L	0.0138	1.667	mg/L	0.0138	0.83%
B 249.677†	2495.8	1.602	mg/L	0.0471	1.602	mg/L	0.0471	2.94%
B 249.772†	5294.6	1.633	mg/L	0.0497	1.633	mg/L	0.0497	3.04%
Ba 233.527†	1765.5	0.4016	mg/L	0.00597	0.4016	mg/L	0.00597	1.49%
Ba 455.403†	39992.8	0.4285	mg/L	0.01414	0.4285	mg/L	0.01414	3.30%
Ba 493.408†	68230.1	0.4189	mg/L	0.01366	0.4189	mg/L	0.01366	3.26%
Be 234.861†	3312.6	0.00859	mg/L	0.000254	0.00859	mg/L	0.000254	2.95%
Be 313.042†	878.4	0.01062	mg/L	0.000100	0.01062	mg/L	0.000100	0.94%
Be 313.107†	878.4	0.01062	mg/L	0.000100	0.01062	mg/L	0.000100	0.94%
Ca 315.887†	201018.6	59.12	mg/L	1.647	59.12	mg/L	1.647	2.79%
Ca 317.933†	188228.7	54.10	mg/L	0.166	54.10	mg/L	0.166	0.31%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%

Cd 226.502†	1898.2	0.04965 mg/L	0.001210	0.04965 mg/L	0.001210	2.44%
Cd 228.802†	198.7	0.04659 mg/L	0.000993	0.04659 mg/L	0.000993	2.13%
Ce 413.380†	963.9	0.5109 mg/L	0.04439	0.5109 mg/L	0.04439	8.69%
Ce 413.764†	939.3	0.5058 mg/L	0.01350	0.5058 mg/L	0.01350	2.67%
Ce 418.660†	1817.4	0.4873 mg/L	0.01173	0.4873 mg/L	0.01173	2.41%
Co 228.616†	4139.5	0.09631 mg/L	0.002054	0.09631 mg/L	0.002054	2.13%
Co 230.786†	101.8	0.09472 mg/L	0.001725	0.09472 mg/L	0.001725	1.82%
Co 238.892†	154.4	0.09439 mg/L	0.001816	0.09439 mg/L	0.001816	1.92%
Cr 205.560†	27.2	0.09833 mg/L	0.001918	0.09833 mg/L	0.001918	1.95%
Cr 267.716†	3059.9	0.1050 mg/L	0.00227	0.1050 mg/L	0.00227	2.16%
Cr 283.563†	480.4	0.1148 mg/L	0.00139	0.1148 mg/L	0.00139	1.21%
Cu 224.700†	70.7	0.09151 mg/L	0.003452	0.09151 mg/L	0.003452	3.77%
Cu 324.752†	1002.7	0.08986 mg/L	0.001075	0.08986 mg/L	0.001075	1.20%
Cu 327.393†	6844.9	0.09932 mg/L	0.003667	0.09932 mg/L	0.003667	3.69%
Fe 238.204†	4356.0	1.125 mg/L	0.0228	1.125 mg/L	0.0228	2.03%
Fe 239.562†	3354.0	1.122 mg/L	0.0300	1.122 mg/L	0.0300	2.68%
Fe 259.939†	7537.4	1.151 mg/L	0.0341	1.151 mg/L	0.0341	2.96%
Fe 273.955†	1186.2	1.257 mg/L	0.0156	1.257 mg/L	0.0156	1.24%
K 766.490†	18429.8	31.87 mg/L	0.858	31.87 mg/L	0.858	2.69%
Li 610.362†	534.4	0.07994 mg/L	0.003692	0.07994 mg/L	0.003692	4.62%
Li 670.784†	5672.3	0.1075 mg/L	0.00339	0.1075 mg/L	0.00339	3.15%
Mg 279.077†	20048.4	22.40 mg/L	0.504	22.40 mg/L	0.504	2.25%
Mg 280.271†	2982027.6	21.81 mg/L	0.065	21.81 mg/L	0.065	0.30%
Mg 285.213†	90583.3	21.02 mg/L	0.542	21.02 mg/L	0.542	2.58%
Mn 257.610†	5723.9	0.1952 mg/L	0.00601	0.1952 mg/L	0.00601	3.08%
Mn 259.372†	8284.1	0.1933 mg/L	0.00573	0.1933 mg/L	0.00573	2.96%
Mn 260.568†	3615.1	0.1879 mg/L	0.00544	0.1879 mg/L	0.00544	2.89%
Mo 202.031†	32.4	0.08833 mg/L	0.006004	0.08833 mg/L	0.006004	6.80%
Mo 203.845†	22.3	0.1064 mg/L	0.00980	0.1064 mg/L	0.00980	9.22%
Mo 204.597†	821.7	0.1014 mg/L	0.00143	0.1014 mg/L	0.00143	1.41%
Na 588.995†	496148.3	95.74 mg/L	0.290	95.74 mg/L	0.290	0.30%
Na 589.592†	532576.2	100.8 mg/L	0.22	100.8 mg/L	0.22	0.22%
Ni 221.648†	33.4	0.1089 mg/L	0.00244	0.1089 mg/L	0.00244	2.24%
Ni 231.604†	3044.8	0.2095 mg/L	0.00434	0.2095 mg/L	0.00434	2.07%
Ni 232.003†	90.5	0.1921 mg/L	0.00313	0.1921 mg/L	0.00313	1.63%
Pb 217.000†	40.8	0.4627 mg/L	0.02091	0.4627 mg/L	0.02091	4.52%
Pb 220.353†	1477.7	0.5280 mg/L	0.01260	0.5280 mg/L	0.01260	2.39%
Sb 206.836†	1069.9	0.4720 mg/L	0.01336	0.4720 mg/L	0.01336	2.83%
Sb 217.582†	28.4	0.4413 mg/L	0.00439	0.4413 mg/L	0.00439	0.99%
Se 196.026†	609.2	0.5287 mg/L	0.00700	0.5287 mg/L	0.00700	1.32%
Se 203.985†	300.2	0.5008 mg/L	0.00347	0.5008 mg/L	0.00347	0.69%
Sn 189.927†	729.8	0.5211 mg/L	0.00735	0.5211 mg/L	0.00735	1.41%
Sn 235.485†	115.8	0.6309 mg/L	0.01050	0.6309 mg/L	0.01050	1.66%
Sr 407.771†	230421.7	1.097 mg/L	0.0031	1.097 mg/L	0.0031	0.28%
Sr 421.552†	296352.7	1.064 mg/L	0.0019	1.064 mg/L	0.0019	0.18%
Sr 460.733†	12621.2	1.067 mg/L	0.0323	1.067 mg/L	0.0323	3.02%
Ti 334.940†	2546.2	0.1065 mg/L	0.00289	0.1065 mg/L	0.00289	2.72%
Ti 336.121†	2123.1	0.1079 mg/L	0.00290	0.1079 mg/L	0.00290	2.69%
Ti 337.279†	895.9	0.1059 mg/L	0.00109	0.1059 mg/L	0.00109	1.03%
Tl 190.801†	488.0	0.5351 mg/L	0.00829	0.5351 mg/L	0.00829	1.55%
Tl 276.787†	2850.3	0.6496 mg/L	0.02199	0.6496 mg/L	0.02199	3.38%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	376.1	0.1024 mg/L	0.00104	0.1024 mg/L	0.00104	1.02%
V 309.310†	628.6	0.09455 mg/L	0.001599	0.09455 mg/L	0.001599	1.69%
V 310.230†	15006.9	0.09494 mg/L	0.002700	0.09494 mg/L	0.002700	2.84%
Zn 202.548†	2346.0	1.030 mg/L	0.0106	1.030 mg/L	0.0106	1.03%
Zn 206.200†	960.5	1.033 mg/L	0.0110	1.033 mg/L	0.0110	1.07%
Zn 213.857†	4348.2	1.047 mg/L	0.0195	1.047 mg/L	0.0195	1.86%

Sequence No.: 35
Sample ID: 2002AH15S02
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 32
Date Collected: 11/9/01 12:28:12 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 2002AH15S02

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD

Y 371.029	265876.4				986.25	0.37%
Y 360.073	3503911.4				14558.34	0.42%
Ag 328.068†	81.2	0.00042 mg/L	0.000216	0.00042 mg/L	0.000216	51.02%
Ag 338.289†	-20.1	-0.00019 mg/L	0.000213	-0.00019 mg/L	0.000213	111.88%
Al 308.215†	895.3	1.202 mg/L	0.0011	1.202 mg/L	0.0011	0.09%
Al 394.401†	1102.5	1.225 mg/L	0.0082	1.225 mg/L	0.0082	0.67%
Al 396.153†	4195.6	1.237 mg/L	0.0022	1.237 mg/L	0.0022	0.18%
As 188.979†	0.9	0.01978 mg/L	0.035481	0.01978 mg/L	0.035481	179.42%
As 193.696†	0.5	0.00052 mg/L	0.003260	0.00052 mg/L	0.003260	628.70%
As 197.197†	0.7	0.02420 mg/L	0.012942	0.02420 mg/L	0.012942	53.49%
B 208.889†	89.5	0.3889 mg/L	0.02132	0.3889 mg/L	0.02132	5.48%
B 249.677†	577.4	0.3707 mg/L	0.00516	0.3707 mg/L	0.00516	1.39%
B 249.772†	1213.4	0.3742 mg/L	0.00202	0.3742 mg/L	0.00202	0.54%
Ba 233.527†	1364.8	0.3105 mg/L	0.00202	0.3105 mg/L	0.00202	0.65%
Ba 455.403†	30960.8	0.3318 mg/L	0.00349	0.3318 mg/L	0.00349	1.05%
Ba 493.408†	52883.1	0.3246 mg/L	0.00357	0.3246 mg/L	0.00357	1.10%
Be 234.861†	-528.0	-0.00137 mg/L	0.000131	-0.00137 mg/L	0.000131	9.53%
Be 313.042†	16.1	0.00019 mg/L	0.000009	0.00019 mg/L	0.000009	4.55%
Be 313.107†	16.1	0.00019 mg/L	0.000009	0.00019 mg/L	0.000009	4.55%
Ca 315.887†	16895.0	4.969 mg/L	0.0629	4.969 mg/L	0.0629	1.27%
Ca 317.933†	15667.8	4.504 mg/L	0.0559	4.504 mg/L	0.0559	1.24%
Cd 214.440†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
Cd 226.502†	10.2	0.00027 mg/L	0.000047	0.00027 mg/L	0.000047	17.58%
Cd 228.802†	0.5	0.00011 mg/L	0.000320	0.00011 mg/L	0.000320	287.30%
Ce 413.380†	21.1	0.01119 mg/L	0.020594	0.01119 mg/L	0.020594	183.98%
Ce 413.764†	-4.2	-0.00224 mg/L	0.005359	-0.00224 mg/L	0.005359	239.16%
Ce 418.660†	-46.3	-0.01241 mg/L	0.006557	-0.01241 mg/L	0.006557	52.85%
Co 228.616†	42.8	0.00100 mg/L	0.000259	0.00100 mg/L	0.000259	25.95%
Co 230.786†	0.9	0.00087 mg/L	0.000187	0.00087 mg/L	0.000187	21.59%
Co 238.892†	0.3	0.00020 mg/L	0.000838	0.00020 mg/L	0.000838	410.85%
Cr 205.560†	1.6	0.00589 mg/L	0.002185	0.00589 mg/L	0.002185	37.12%
Cr 267.716†	193.4	0.00663 mg/L	0.000055	0.00663 mg/L	0.000055	0.83%
Cr 283.563†	24.5	0.00584 mg/L	0.000987	0.00584 mg/L	0.000987	16.89%
Cu 224.700†	35.0	0.04536 mg/L	0.001565	0.04536 mg/L	0.001565	3.45%
Cu 324.752†	541.0	0.04849 mg/L	0.000524	0.04849 mg/L	0.000524	1.08%
Cu 327.393†	3568.6	0.05178 mg/L	0.000502	0.05178 mg/L	0.000502	0.97%
Fe 238.204†	2057.0	0.5315 mg/L	0.00428	0.5315 mg/L	0.00428	0.80%
Fe 239.562†	1584.3	0.5299 mg/L	0.00465	0.5299 mg/L	0.00465	0.88%
Fe 259.939†	3594.6	0.5490 mg/L	0.00839	0.5490 mg/L	0.00839	1.53%
Fe 273.955†	562.0	0.5955 mg/L	0.00607	0.5955 mg/L	0.00607	1.02%
K 766.490†	1563.6	2.704 mg/L	0.0618	2.704 mg/L	0.0618	2.28%
Li 610.362†	77.9	0.01166 mg/L	0.012265	0.01166 mg/L	0.012265	105.20%
Li 670.784†	70.2	0.00133 mg/L	0.000381	0.00133 mg/L	0.000381	28.60%
Mg 279.077†	1042.8	1.165 mg/L	0.0070	1.165 mg/L	0.0070	0.60%
Mg 280.271†	157869.2	1.154 mg/L	0.0035	1.154 mg/L	0.0035	0.31%
Mg 285.213†	4841.3	1.124 mg/L	0.0161	1.124 mg/L	0.0161	1.43%
Mn 257.610†	55[illegible].1	0.01876 mg/L	0.000170	0.01876 mg/L	0.000170	0.91%
Mn 259.372†	816.9	0.01860 mg/L	0.000276	0.01860 mg/L	0.000276	1.48%
Mn 260.568†	346.1	0.01799 mg/L	0.000171	0.01799 mg/L	0.000171	0.95%
Mo 202.031†	1.4	0.00375 mg/L	0.001857	0.00375 mg/L	0.001857	49.49%
Mo 203.845†	-1.1	-0.00536 mg/L	0.009056	-0.00536 mg/L	0.009056	168.84%
Mo 204.597†	-1.3	-0.00017 mg/L	0.000148	-0.00017 mg/L	0.000148	89.48%
Na 588.995†	249348.5	48.12 mg/L	0.051	48.12 mg/L	0.051	0.11%
Na 589.592†	264196.4	50.01 mg/L	0.026	50.01 mg/L	0.026	0.05%
Ni 221.648†	-15.9	-0.05181 mg/L	0.004101	-0.05181 mg/L	0.004101	7.92%
Ni 231.604†	39.6	0.00273 mg/L	0.000482	0.00273 mg/L	0.000482	17.67%
Ni 232.003†	3.0	0.00630 mg/L	0.002113	0.00630 mg/L	0.002113	33.56%
Pb 217.000†	0.2	0.00170 mg/L	0.015324	0.00170 mg/L	0.015324	900.22%
Pb 220.353†	24.9	0.00889 mg/L	0.000997	0.00889 mg/L	0.000997	11.22%
Sb 206.836†	7.2	0.00317 mg/L	0.000266	0.00317 mg/L	0.000266	8.37%
Sb 217.582†	0.7	0.01045 mg/L	0.018259	0.01045 mg/L	0.018259	174.66%
Se 196.026†	9.4	0.00814 mg/L	0.000364	0.00814 mg/L	0.000364	4.47%
Se 203.985†	0.2	0.00034 mg/L	0.001481	0.00034 mg/L	0.001481	431.95%
Sn 189.927†	1.3	0.00090 mg/L	0.000766	0.00090 mg/L	0.000766	84.63%
Sn 235.485†	21.2	0.1157 mg/L	0.01903	0.1157 mg/L	0.01903	16.46%
Sr 407.771†	1602.3	0.00763 mg/L	0.000171	0.00763 mg/L	0.000171	2.24%
Sr 421.552†	2136.5	0.00767 mg/L	0.000295	0.00767 mg/L	0.000295	3.85%
Sr 460.733†	168.0	0.01421 mg/L	0.002250	0.01421 mg/L	0.002250	15.83%
Ti 334.940†	335.2	0.01402 mg/L	0.000385	0.01402 mg/L	0.000385	2.75%
Ti 336.121†	326.3	0.01657 mg/L	0.000871	0.01657 mg/L	0.000871	5.25%

Ti 337.279†	125.2	0.01480 mg/L	0.000140	0.01480 mg/L	0.000140	0.94%
Tl 190.801†	2.0	0.00221 mg/L	0.001731	0.00221 mg/L	0.001731	78.41%
Tl 276.787†	79.1	0.01803 mg/L	0.004080	0.01803 mg/L	0.004080	22.62%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	0.4	0.00010 mg/L	0.000794	0.00010 mg/L	0.000794	783.27%
V 309.310†	-22.3	-0.00335 mg/L	0.000633	-0.00335 mg/L	0.000633	18.91%
V 310.230†	-1614.2	-0.01021 mg/L	0.000890	-0.01021 mg/L	0.000890	8.71%
Zn 202.548†	312.6	0.1370 mg/L	0.00281	0.1370 mg/L	0.00281	2.05%
Zn 206.200†	130.0	0.1398 mg/L	0.00146	0.1398 mg/L	0.00146	1.04%
Zn 213.857†	579.5	0.1397 mg/L	0.00065	0.1397 mg/L	0.00065	0.46%

Sequence No.: 36
Sample ID: 2002AH15S03
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 33
Date Collected: 11/9/01 12:32:44 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 2002AH15S03

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	269410.3						3076.56	1.14%
Y 360.073	3518436.6						49906.30	1.42%
Ag 328.068†	81.1	0.00042	mg/L	0.000164	0.00042	mg/L	0.000164	38.76%
Ag 338.289†	7.4	0.00007	mg/L	0.000080	0.00007	mg/L	0.000080	114.15%
Al 308.215†	800.6	1.075	mg/L	0.0119	1.075	mg/L	0.0119	1.11%
Al 394.401†	989.3	1.099	mg/L	0.0156	1.099	mg/L	0.0156	1.42%
Al 396.153†	3716.6	1.096	mg/L	0.0255	1.096	mg/L	0.0255	2.33%
As 188.979†	-0.4	-0.00946	mg/L	0.011269	-0.00946	mg/L	0.011269	119.13%
As 193.696†	1.2	0.00131	mg/L	0.002756	0.00131	mg/L	0.002756	210.90%
As 197.197†	0.5	0.01690	mg/L	0.032332	0.01690	mg/L	0.032332	191.32%
B 208.889†	81.6	0.3548	mg/L	0.01008	0.3548	mg/L	0.01008	2.84%
B 249.677†	530.9	0.3408	mg/L	0.00290	0.3408	mg/L	0.00290	0.85%
B 249.772†	1109.9	0.3422	mg/L	0.00362	0.3422	mg/L	0.00362	1.06%
Ba 233.527†	1244.6	0.2831	mg/L	0.00311	0.2831	mg/L	0.00311	1.10%
Ba 455.403†	27922.7	0.2992	mg/L	0.00826	0.2992	mg/L	0.00826	2.76%
Ba 493.408†	47538.5	0.2918	mg/L	0.00822	0.2918	mg/L	0.00822	2.82%
Be 234.861†	-345.1	-0.00090	mg/L	0.000203	-0.00090	mg/L	0.000203	22.66%
Be 313.042†	13.0	0.00016	mg/L	0.000007	0.00016	mg/L	0.000007	4.32%
Be 313.107†	13.0	0.00016	mg/L	0.000007	0.00016	mg/L	0.000007	4.32%
Ca 315.887†	15108.7	4.443	mg/L	0.1196	4.443	mg/L	0.1196	2.69%
Ca 317.933†	14027.2	4.032	mg/L	0.0947	4.032	mg/L	0.0947	2.35%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	1.1	0.00003	mg/L	0.000044	0.00003	mg/L	0.000044	148.94%
Cd 228.802†	0.7	0.00016	mg/L	0.000472	0.00016	mg/L	0.000472	287.29%
Ce 413.380†	26.2	0.01388	mg/L	0.013123	0.01388	mg/L	0.013123	94.56%
Ce 413.764†	6.7	0.00358	mg/L	0.006386	0.00358	mg/L	0.006386	178.15%
Ce 418.660†	-1.8	-0.00049	mg/L	0.010236	-0.00049	mg/L	0.010236	>999.9%
Co 228.616†	39.4	0.00092	mg/L	0.000255	0.00092	mg/L	0.000255	27.85%
Co 230.786†	0.2	0.00022	mg/L	0.000701	0.00022	mg/L	0.000701	317.47%
Co 238.892†	0.4	0.00022	mg/L	0.001298	0.00022	mg/L	0.001298	598.51%
Cr 205.560†	1.8	0.00660	mg/L	0.002478	0.00660	mg/L	0.002478	37.57%
Cr 267.716†	166.9	0.00573	mg/L	0.000156	0.00573	mg/L	0.000156	2.73%
Cr 283.563†	16.3	0.00391	mg/L	0.000517	0.00391	mg/L	0.000517	13.22%
Cu 224.700†	138.6	0.1794	mg/L	0.00157	0.1794	mg/L	0.00157	0.88%
Cu 324.752†	2008.0	0.1800	mg/L	0.00566	0.1800	mg/L	0.00566	3.15%
Cu 327.393†	13210.1	0.1917	mg/L	0.00524	0.1917	mg/L	0.00524	2.73%
Fe 238.204†	1317.3	0.3403	mg/L	0.00370	0.3403	mg/L	0.00370	1.09%
Fe 239.562†	1008.8	0.3374	mg/L	0.00350	0.3374	mg/L	0.00350	1.04%
Fe 259.939†	2256.1	0.3446	mg/L	0.00900	0.3446	mg/L	0.00900	2.61%
Fe 273.955†	360.9	0.3824	mg/L	0.00683	0.3824	mg/L	0.00683	1.79%
K 766.490†	1444.8	2.498	mg/L	0.0796	2.498	mg/L	0.0796	3.19%
Li 610.362†	51.9	0.00777	mg/L	0.006756	0.00777	mg/L	0.006756	86.95%
Li 670.784†	86.4	0.00164	mg/L	0.000386	0.00164	mg/L	0.000386	23.56%
Mg 279.077†	934.2	1.044	mg/L	0.0127	1.044	mg/L	0.0127	1.21%
Mg 280.271†	144069.2	1.054	mg/L	0.0033	1.054	mg/L	0.0033	0.32%
Mg 285.213†	4291.3	0.9960	mg/L	0.02598	0.9960	mg/L	0.02598	2.61%
Mn 257.610†	386.8	0.01319	mg/L	0.000126	0.01319	mg/L	0.000126	0.96%
Mn 259.372†	564.3	0.01288	mg/L	0.000138	0.01288	mg/L	0.000138	1.07%

Mn 260.568†	239.7	0.01246	mg/L	0.000165	0.01246	mg/L	0.000165	1.32%
Mo 202.031†	0.9	0.00244	mg/L	0.000785	0.00244	mg/L	0.000785	32.23%
Mo 203.845†	-0.4	-0.00205	mg/L	0.004711	-0.00205	mg/L	0.004711	230.04%
Mo 204.597†	-5.4	-0.00067	mg/L	0.000348	-0.00067	mg/L	0.000348	52.00%
Na 588.995†	239648.2	46.25	mg/L	0.210	46.25	mg/L	0.210	0.45%
Na 589.592†	254637.9	48.20	mg/L	0.176	48.20	mg/L	0.176	0.36%
Ni 221.648†	-15.3	-0.04977	mg/L	0.002505	-0.04977	mg/L	0.002505	5.03%
Ni 231.604†	23.9	0.00164	mg/L	0.000282	0.00164	mg/L	0.000282	17.17%
Ni 232.003†	2.1	0.00436	mg/L	0.003565	0.00436	mg/L	0.003565	81.72%
Pb 217.000†	-0.6	-0.00703	mg/L	0.026530	-0.00703	mg/L	0.026530	377.33%
Pb 220.353†	10.5	0.00376	mg/L	0.000590	0.00376	mg/L	0.000590	15.71%
Sb 206.836†	3.2	0.00141	mg/L	0.001052	0.00141	mg/L	0.001052	74.57%
Sb 217.582†	-0.3	-0.00501	mg/L	0.018786	-0.00501	mg/L	0.018786	374.65%
Se 196.026†	11.9	0.01035	mg/L	0.001741	0.01035	mg/L	0.001741	16.81%
Se 203.985†	-0.4	-0.00068	mg/L	0.006025	-0.00068	mg/L	0.006025	885.16%
Sn 189.927†	1.8	0.00129	mg/L	0.000807	0.00129	mg/L	0.000807	62.52%
Sn 235.485†	15.0	0.08159	mg/L	0.018510	0.08159	mg/L	0.018510	22.69%
Sr 407.771†	1134.5	0.00540	mg/L	0.000213	0.00540	mg/L	0.000213	3.95%
Sr 421.552†	1510.2	0.00542	mg/L	0.000264	0.00542	mg/L	0.000264	4.86%
Sr 460.733†	69.9	0.00591	mg/L	0.000229	0.00591	mg/L	0.000229	3.86%
Ti 334.940†	256.3	0.01072	mg/L	0.000159	0.01072	mg/L	0.000159	1.48%
Ti 336.121†	264.0	0.01341	mg/L	0.000278	0.01341	mg/L	0.000278	2.07%
Ti 337.279†	95.3	0.01126	mg/L	0.000404	0.01126	mg/L	0.000404	3.59%
Tl 190.801†	-0.5	-0.00059	mg/L	0.002038	-0.00059	mg/L	0.002038	344.28%
Tl 276.787†	58.3	0.01329	mg/L	0.004881	0.01329	mg/L	0.004881	36.72%
Tl 351.924†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
V 290.880†	2.1	0.00058	mg/L	0.002010	0.00058	mg/L	0.002010	345.79%
V 309.310†	-14.0	-0.00211	mg/L	0.002260	-0.00211	mg/L	0.002260	107.22%
V 310.230†	-1515.7	-0.00959	mg/L	0.000987	-0.00959	mg/L	0.000987	10.29%
Zn 202.548†	238.9	0.1037	mg/L	0.00200	0.1037	mg/L	0.00200	1.93%
Zn 206.200†	97.3	0.1046	mg/L	0.00088	0.1046	mg/L	0.00088	0.84%
Zn 213.857†	439.5	0.1058	mg/L	0.00223	0.1058	mg/L	0.00223	2.11%

Sequence No.: 37 **Autosampler Location: 34**
Sample ID: 2002AH15S03 Dup **Date Collected: 11/9/01 12:37:15 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 2002AH15S03 Dup

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	266489.0						3699.27	1.39%
Y 360.073	3505655.6						23811.18	0.68%
Ag 328.068†	54.4	0.00028	mg/L	0.000199	0.00028	mg/L	0.000199	70.27%
Ag 338.289†	7.4	0.00007	mg/L	0.000274	0.00007	mg/L	0.000274	389.32%
Al 308.215†	993.0	1.333	mg/L	0.0144	1.333	mg/L	0.0144	1.08%
Al 394.401†	1206.9	1.341	mg/L	0.0260	1.341	mg/L	0.0260	1.94%
Al 396.153†	4637.0	1.368	mg/L	0.0361	1.368	mg/L	0.0361	2.64%
As 188.979†	0.6	0.01223	mg/L	0.018482	0.01223	mg/L	0.018482	151.07%
As 193.696†	1.0	0.00111	mg/L	0.001240	0.00111	mg/L	0.001240	111.53%
As 197.197†	0.2	0.00650	mg/L	0.035639	0.00650	mg/L	0.035639	548.24%
B 208.889†	108.7	0.4724	mg/L	0.01783	0.4724	mg/L	0.01783	3.77%
B 249.677†	728.5	0.4676	mg/L	0.01214	0.4676	mg/L	0.01214	2.60%
B 249.772†	1523.6	0.4698	mg/L	0.00692	0.4698	mg/L	0.00692	1.47%
Ba 233.527†	1716.3	0.3904	mg/L	0.00711	0.3904	mg/L	0.00711	1.82%
Ba 455.403†	38937.3	0.4172	mg/L	0.00353	0.4172	mg/L	0.00353	0.84%
Ba 493.408†	66453.7	0.4080	mg/L	0.00247	0.4080	mg/L	0.00247	0.60%
Be 234.861†	-331.3	-0.00086	mg/L	0.000058	-0.00086	mg/L	0.000058	6.70%
Be 313.042†	26.8	0.00032	mg/L	0.000027	0.00032	mg/L	0.000027	8.24%
Be 313.107†	26.8	0.00032	mg/L	0.000027	0.00032	mg/L	0.000027	8.24%
Ca 315.887†	17852.1	5.250	mg/L	0.1224	5.250	mg/L	0.1224	2.33%
Ca 317.933†	16681.3	4.795	mg/L	0.0990	4.795	mg/L	0.0990	2.06%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	3.0	0.00008	mg/L	0.000043	0.00008	mg/L	0.000043	55.33%
Cd 228.802†	-1.0	-0.00022	mg/L	0.000056	-0.00022	mg/L	0.000056	24.73%
Ce 413.380†	24.9	0.01318	mg/L	0.026314	0.01318	mg/L	0.026314	199.67%
Ce 413.764†	5.6	0.00304	mg/L	0.005090	0.00304	mg/L	0.005090	167.41%

Ce 418.660†	10.8	0.00289	mg/L	0.006792	0.00289	mg/L	0.006792	234.68%
Co 228.616†	32.9	0.00077	mg/L	0.000269	0.00077	mg/L	0.000269	35.06%
Co 230.786†	0.3	0.00030	mg/L	0.000553	0.00030	mg/L	0.000553	184.63%
Co 238.892†	0.4	0.00021	mg/L	0.000021	0.00021	mg/L	0.000021	10.04%
Cr 205.560†	2.0	0.00707	mg/L	0.002114	0.00707	mg/L	0.002114	29.89%
Cr 267.716†	188.8	0.00647	mg/L	0.000286	0.00647	mg/L	0.000286	4.42%
Cr 283.563†	21.7	0.00519	mg/L	0.000207	0.00519	mg/L	0.000207	3.99%
Cu 224.700†	157.2	0.2034	mg/L	0.00787	0.2034	mg/L	0.00787	3.87%
Cu 324.752†	2205.0	0.1976	mg/L	0.00569	0.1976	mg/L	0.00569	2.88%
Cu 327.393†	13952.4	0.2024	mg/L	0.00073	0.2024	mg/L	0.00073	0.36%
Fe 238.204†	1485.4	0.3838	mg/L	0.00549	0.3838	mg/L	0.00549	1.43%
Fe 239.562†	1144.0	0.3826	mg/L	0.00540	0.3826	mg/L	0.00540	1.41%
Fe 259.939†	2586.4	0.3950	mg/L	0.00879	0.3950	mg/L	0.00879	2.23%
Fe 273.955†	404.5	0.4285	mg/L	0.01023	0.4285	mg/L	0.01023	2.39%
K 766.490†	1566.7	2.709	mg/L	0.0496	2.709	mg/L	0.0496	1.83%
Li 610.362†	-12.0	-0.00179	mg/L	0.013433	-0.00179	mg/L	0.013433	749.59%
Li 670.784†	-36.9	-0.00070	mg/L	0.001415	-0.00070	mg/L	0.001415	202.37%
Mg 279.077†	1132.4	1.265	mg/L	0.0322	1.265	mg/L	0.0322	2.54%
Mg 280.271†	169098.1	1.237	mg/L	0.0069	1.237	mg/L	0.0069	0.56%
Mg 285.213†	5240.2	1.216	mg/L	0.0258	1.216	mg/L	0.0258	2.12%
Mn 257.610†	435.0	0.01484	mg/L	0.000198	0.01484	mg/L	0.000198	1.33%
Mn 259.372†	641.5	0.01468	mg/L	0.000019	0.01468	mg/L	0.000019	0.13%
Mn 260.568†	275.8	0.01433	mg/L	0.000181	0.01433	mg/L	0.000181	1.26%
Mo 202.031†	-1.1	-0.00288	mg/L	0.001557	-0.00288	mg/L	0.001557	54.04%
Mo 203.845†	-1.2	-0.00562	mg/L	0.015679	-0.00562	mg/L	0.015679	278.81%
Mo 204.597†	-6.3	-0.00077	mg/L	0.000474	-0.00077	mg/L	0.000474	61.36%
Na 588.995†	280358.1	54.10	mg/L	0.284	54.10	mg/L	0.284	0.52%
Na 589.592†	295791.3	55.99	mg/L	0.317	55.99	mg/L	0.317	0.57%
Ni 221.648†	-20.3	-0.06620	mg/L	0.001399	-0.06620	mg/L	0.001399	2.11%
Ni 231.604†	21.3	0.00147	mg/L	0.000297	0.00147	mg/L	0.000297	20.23%
Ni 232.003†	2.8	0.00586	mg/L	0.004509	0.00586	mg/L	0.004509	76.89%
Pb 217.000†	-1.0	-0.01136	mg/L	0.038235	-0.01136	mg/L	0.038235	336.48%
Pb 220.353†	12.1	0.00432	mg/L	0.000950	0.00432	mg/L	0.000950	22.00%
Sb 206.836†	5.3	0.00235	mg/L	0.000687	0.00235	mg/L	0.000687	29.28%
Sb 217.582†	-0.4	-0.00660	mg/L	0.016714	-0.00660	mg/L	0.016714	253.09%
Se 196.026†	8.4	0.00732	mg/L	0.003545	0.00732	mg/L	0.003545	48.40%
Se 203.985†	-0.9	-0.00149	mg/L	0.004761	-0.00149	mg/L	0.004761	318.77%
Sn 189.927†	1.5	0.00105	mg/L	0.000856	0.00105	mg/L	0.000856	81.42%
Sn 235.485†	14.8	0.08068	mg/L	0.036019	0.08068	mg/L	0.036019	44.64%
Sr 407.771†	1454.5	0.00692	mg/L	0.000066	0.00692	mg/L	0.000066	0.95%
Sr 421.552†	1879.8	0.00675	mg/L	0.000419	0.00675	mg/L	0.000419	6.21%
Sr 460.733†	120.0	0.01015	mg/L	0.002114	0.01015	mg/L	0.002114	20.83%
Ti 334.940†	289.0	0.01209	mg/L	0.000162	0.01209	mg/L	0.000162	1.34%
Ti 336.121†	287.4	0.01460	mg/L	0.000606	0.01460	mg/L	0.000606	4.15%
Ti 337.279†	99.1	0.01172	mg/L	0.000284	0.01172	mg/L	0.000284	2.43%
Tl 190.801†	0.4	0.00043	mg/L	0.001464	0.00043	mg/L	0.001464	339.38%
Tl 276.787†	60.0	0.01368	mg/L	0.007790	0.01368	mg/L	0.007790	56.93%
Tl 351.924†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
V 290.880†	-9.4	-0.00255	mg/L	0.000327	-0.00255	mg/L	0.000327	12.82%
V 309.310†	-17.0	-0.00256	mg/L	0.001371	-0.00256	mg/L	0.001371	53.58%
V 310.230†	-1672.2	-0.01058	mg/L	0.000395	-0.01058	mg/L	0.000395	3.73%
Zn 202.548†	361.7	0.1575	mg/L	0.00380	0.1575	mg/L	0.00380	2.41%
Zn 206.200†	146.9	0.1579	mg/L	0.00462	0.1579	mg/L	0.00462	2.92%
Zn 213.857†	664.4	0.1601	mg/L	0.00321	0.1601	mg/L	0.00321	2.01%

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Sequence No.: 38 **Autosampler Location: 35**
Sample ID: 2002AH16S01 **Date Collected: 11/9/01 12:41:48 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 2002AH16S01

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	266671.5						664.41	0.25%
Y 360.073	3478718.6						24333.22	0.70%
Ag 328.068†	246.2	0.00128	mg/L	0.000256	0.00128	mg/L	0.000256	19.92%
Ag 338.289†	139.5	0.00132	mg/L	0.000978	0.00132	mg/L	0.000978	74.04%

Al 308.215†	1569.3	2.107 mg/L	0.0231	2.107 mg/L	0.0231	1.10%
Al 394.401†	1966.2	2.184 mg/L	0.0341	2.184 mg/L	0.0341	1.56%
Al 396.153†	7355.1	2.170 mg/L	0.0130	2.170 mg/L	0.0130	0.60%
As 188.979†	0.8	0.01856 mg/L	0.011789	0.01856 mg/L	0.011789	63.53%
As 193.696†	5.8	0.00619 mg/L	0.001038	0.00619 mg/L	0.001038	16.76%
As 197.197†	0.6	0.02096 mg/L	0.018998	0.02096 mg/L	0.018998	90.65%
B 208.889†	105.9	0.4601 mg/L	0.01861	0.4601 mg/L	0.01861	4.05%
B 249.677†	699.2	0.4488 mg/L	0.00461	0.4488 mg/L	0.00461	1.03%
B 249.772†	1468.2	0.4527 mg/L	0.00564	0.4527 mg/L	0.00564	1.25%
Ba 233.527†	1664.6	0.3787 mg/L	0.00357	0.3787 mg/L	0.00357	0.94%
Ba 455.403†	37448.6	0.4013 mg/L	0.00278	0.4013 mg/L	0.00278	0.69%
Ba 493.408†	64109.1	0.3936 mg/L	0.00230	0.3936 mg/L	0.00230	0.58%
Be 234.861†	-1842.1	-0.00478 mg/L	0.000137	-0.00478 mg/L	0.000137	2.88%
Be 313.042†	31.6	0.00038 mg/L	0.000025	0.00038 mg/L	0.000025	6.51%
Be 313.107†	31.6	0.00038 mg/L	0.000025	0.00038 mg/L	0.000025	6.51%
Ca 315.887†	41371.7	12.17 mg/L	0.157	12.17 mg/L	0.157	1.29%
Ca 317.933†	38823.5	11.16 mg/L	0.124	11.16 mg/L	0.124	1.11%
Cd 214.440†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
Cd 226.502†	60.6	0.00158 mg/L	0.000045	0.00158 mg/L	0.000045	2.87%
Cd 228.802†	4.8	0.00113 mg/L	0.000271	0.00113 mg/L	0.000271	24.05%
Ce 413.380†	8.5	0.00449 mg/L	0.022567	0.00449 mg/L	0.022567	502.20%
Ce 413.764†	0.2	0.00010 mg/L	0.007497	0.00010 mg/L	0.007497	>999.9%
Ce 418.660†	-41.3	-0.01107 mg/L	0.017154	-0.01107 mg/L	0.017154	154.95%
Co 228.616†	71.7	0.00167 mg/L	0.000450	0.00167 mg/L	0.000450	26.99%
Co 230.786†	2.7	0.00248 mg/L	0.002443	0.00248 mg/L	0.002443	98.56%
Co 238.892†	0.9	0.00053 mg/L	0.000576	0.00053 mg/L	0.000576	108.09%
Cr 205.560†	2.0	0.00710 mg/L	0.002415	0.00710 mg/L	0.002415	33.99%
Cr 267.716†	263.3	0.00903 mg/L	0.000147	0.00903 mg/L	0.000147	1.62%
Cr 283.563†	39.6	0.00946 mg/L	0.000737	0.00946 mg/L	0.000737	7.79%
Cu 224.700†	2088.7	2.704 mg/L	0.0311	2.704 mg/L	0.0311	1.15%
Cu 324.752†	29139.9	2.612 mg/L	0.0322	2.612 mg/L	0.0322	1.23%
Cu 327.393†	189880.3	2.755 mg/L	0.0212	2.755 mg/L	0.0212	0.77%
Fe 238.204†	6655.3	1.719 mg/L	0.0190	1.719 mg/L	0.0190	1.11%
Fe 239.562†	5144.5	1.721 mg/L	0.0197	1.721 mg/L	0.0197	1.14%
Fe 259.939†	11507.4	1.758 mg/L	0.0187	1.758 mg/L	0.0187	1.06%
Fe 273.955†	1810.4	1.918 mg/L	0.0173	1.918 mg/L	0.0173	0.90%
K 766.490†	1639.2	2.834 mg/L	0.0449	2.834 mg/L	0.0449	1.58%
Li 610.362†	-35.2	-0.00526 mg/L	0.007898	-0.00526 mg/L	0.007898	150.04%
Li 670.784†	123.1	0.00233 mg/L	0.002440	0.00233 mg/L	0.002440	104.58%
Mg 279.077†	1513.8	1.692 mg/L	0.0182	1.692 mg/L	0.0182	1.07%
Mg 280.271†	226132.9	1.654 mg/L	0.0064	1.654 mg/L	0.0064	0.39%
Mg 285.213†	6969.5	1.618 mg/L	0.0070	1.618 mg/L	0.0070	0.43%
Mn 257.610†	1708.0	0.05825 mg/L	0.000400	0.05825 mg/L	0.000400	0.69%
Mn 259.372†	2545.9	0.05794 mg/L	0.000464	0.05794 mg/L	0.000464	0.80%
Mn 260.568†	1067.7	0.05550 mg/L	0.000394	0.05550 mg/L	0.000394	0.71%
Mo 202.031†	0.1	0.00032 mg/L	0.001833	0.00032 mg/L	0.001833	578.34%
Mo 203.845†	-0.6	-0.00276 mg/L	0.017528	-0.00276 mg/L	0.017528	635.94%
Mo 204.597†	2.6	0.00033 mg/L	0.000273	0.00033 mg/L	0.000273	83.94%
Na 588.995†	256359.8	49.47 mg/L	0.205	49.47 mg/L	0.205	0.41%
Na 589.592†	270930.2	51.28 mg/L	0.287	51.28 mg/L	0.287	0.56%
Ni 221.648†	-22.6	-0.07362 mg/L	0.001632	-0.07362 mg/L	0.001632	2.22%
Ni 231.604†	72.0	0.00496 mg/L	0.000156	0.00496 mg/L	0.000156	3.14%
Ni 232.003†	5.8	0.01237 mg/L	0.003977	0.01237 mg/L	0.003977	32.15%
Pb 217.000†	2.8	0.03125 mg/L	0.032874	0.03125 mg/L	0.032874	105.18%
Pb 220.353†	133.2	0.04758 mg/L	0.000627	0.04758 mg/L	0.000627	1.32%
Sb 206.836†	7.5	0.00330 mg/L	0.000591	0.00330 mg/L	0.000591	17.87%
Sb 217.582†	0.9	0.01454 mg/L	0.009088	0.01454 mg/L	0.009088	62.50%
Se 196.026†	17.3	0.01505 mg/L	0.000875	0.01505 mg/L	0.000875	5.82%
Se 203.985†	-2.9	-0.00481 mg/L	0.008864	-0.00481 mg/L	0.008864	184.10%
Sn 189.927†	7.2	0.00514 mg/L	0.000466	0.00514 mg/L	0.000466	9.06%
Sn 235.485†	25.6	0.1397 mg/L	0.00676	0.1397 mg/L	0.00676	4.84%
Sr 407.771†	4442.6	0.02114 mg/L	0.000596	0.02114 mg/L	0.000596	2.82%
Sr 421.552†	5752.5	0.02066 mg/L	0.000516	0.02066 mg/L	0.000516	2.50%
Sr 460.733†	327.0	0.02766 mg/L	0.011027	0.02766 mg/L	0.011027	39.87%
Ti 334.940†	797.8	0.03338 mg/L	0.000661	0.03338 mg/L	0.000661	1.98%
Ti 336.121†	709.5	0.03604 mg/L	0.001105	0.03604 mg/L	0.001105	3.07%
Ti 337.279†	276.0	0.03263 mg/L	0.000123	0.03263 mg/L	0.000123	0.38%
Tl 190.801†	-1.0	-0.00112 mg/L	0.000799	-0.00112 mg/L	0.000799	71.62%
Tl 276.787†	122.8	0.02798 mg/L	0.001725	0.02798 mg/L	0.001725	6.17%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%

V 290.880†	1.3	0.00037	mg/L	0.000245	0.00037	mg/L	0.000245	66.96%
V 309.310†	-1.5	-0.00022	mg/L	0.000903	-0.00022	mg/L	0.000903	401.73%
V 310.230†	-1237.1	-0.00783	mg/L	0.000895	-0.00783	mg/L	0.000895	11.43%
Zn 202.548†	777.8	0.3218	mg/L	0.00164	0.3218	mg/L	0.00164	0.51%
Zn 206.200†	301.5	0.3242	mg/L	0.00061	0.3242	mg/L	0.00061	0.19%
Zn 213.857†	1364.8	0.3275	mg/L	0.00186	0.3275	mg/L	0.00186	0.57%

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Sequence No.: 39
Sample ID: 2002AH16S01 Dup
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 36
Date Collected: 11/9/01 12:46:21 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 2002AH16S01 Dup

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	270008.7						867.30	0.32%
Y 360.073	3523948.6						41674.07	1.18%
Ag 328.068†	242.5	0.00127	mg/L	0.000107	0.00127	mg/L	0.000107	8.44%
Ag 338.289†	79.5	0.00075	mg/L	0.000933	0.00075	mg/L	0.000933	123.79%
Al 308.215†	1585.6	2.129	mg/L	0.0055	2.129	mg/L	0.0055	0.26%
Al 394.401†	1982.3	2.202	mg/L	0.0423	2.202	mg/L	0.0423	1.92%
Al 396.153†	7443.9	2.196	mg/L	0.0277	2.196	mg/L	0.0277	1.26%
As 188.979†	0.6	0.01400	mg/L	0.023378	0.01400	mg/L	0.023378	166.94%
As 193.696†	6.7	0.00723	mg/L	0.000269	0.00723	mg/L	0.000269	3.72%
As 197.197†	0.6	0.02226	mg/L	0.028233	0.02226	mg/L	0.028233	126.84%
B 208.889†	107.2	0.4658	mg/L	0.00883	0.4658	mg/L	0.00883	1.90%
B 249.677†	695.3	0.4463	mg/L	0.00015	0.4463	mg/L	0.00015	0.03%
B 249.772†	1463.1	0.4512	mg/L	0.00170	0.4512	mg/L	0.00170	0.38%
Ba 233.527†	1629.5	0.3707	mg/L	0.00102	0.3707	mg/L	0.00102	0.28%
Ba 455.403†	37042.8	0.3969	mg/L	0.00349	0.3969	mg/L	0.00349	0.88%
Ba 493.408†	63316.0	0.3887	mg/L	0.00288	0.3887	mg/L	0.00288	0.74%
Be 234.861†	-1816.1	-0.00471	mg/L	0.000075	-0.00471	mg/L	0.000075	1.59%
Be 313.042†	32.4	0.00039	mg/L	0.000015	0.00039	mg/L	0.000015	3.75%
Be 313.107†	32.4	0.00039	mg/L	0.000015	0.00039	mg/L	0.000015	3.75%
Ca 315.887†	43429.8	12.77	mg/L	0.058	12.77	mg/L	0.058	0.46%
Ca 317.933†	40700.1	11.70	mg/L	0.075	11.70	mg/L	0.075	0.64%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	40.2	0.00105	mg/L	0.000152	0.00105	mg/L	0.000152	14.41%
Cd 228.802†	2.8	0.00065	mg/L	0.000108	0.00065	mg/L	0.000108	16.68%
Ce 413.380†	-20.5	-0.01089	mg/L	0.013262	-0.01089	mg/L	0.013262	121.78%
Ce 413.764†	3.6	0.00192	mg/L	0.001016	0.00192	mg/L	0.001016	52.84%
Ce 418.660†	-33.5	-0.00898	mg/L	0.017711	-0.00898	mg/L	0.017711	197.30%
Co 228.616†	66.7	0.00155	mg/L	0.000100	0.00155	mg/L	0.000100	6.42%
Co 230.786†	1.9	0.00179	mg/L	0.000663	0.00179	mg/L	0.000663	37.07%
Co 238.892†	2.1	0.00127	mg/L	0.000795	0.00127	mg/L	0.000795	62.54%
Cr 205.560†	2.3	0.00841	mg/L	0.002080	0.00841	mg/L	0.002080	24.72%
Cr 267.716†	266.1	0.00913	mg/L	0.000341	0.00913	mg/L	0.000341	3.74%
Cr 283.563†	40.6	0.00971	mg/L	0.001697	0.00971	mg/L	0.001697	17.48%
Cu 224.700†	2118.6	2.742	mg/L	0.0153	2.742	mg/L	0.0153	0.56%
Cu 324.752†	29697.3	2.662	mg/L	0.0186	2.662	mg/L	0.0186	0.70%
Cu 327.393†	190358.3	2.762	mg/L	0.0298	2.762	mg/L	0.0298	1.08%
Fe 238.204†	6748.9	1.744	mg/L	0.0137	1.744	mg/L	0.0137	0.79%
Fe 239.562†	5214.2	1.744	mg/L	0.0038	1.744	mg/L	0.0038	0.22%
Fe 259.939†	11695.3	1.786	mg/L	0.0129	1.786	mg/L	0.0129	0.72%
Fe 273.955†	1840.0	1.949	mg/L	0.0011	1.949	mg/L	0.0011	0.06%
K 766.490†	1746.1	3.019	mg/L	0.0320	3.019	mg/L	0.0320	1.06%
Li 610.362†	-50.3	-0.00753	mg/L	0.011058	-0.00753	mg/L	0.011058	146.87%
Li 670.784†	37.1	0.00070	mg/L	0.000574	0.00070	mg/L	0.000574	81.53%
Mg 279.077†	1561.2	1.745	mg/L	0.0071	1.745	mg/L	0.0071	0.41%
Mg 280.271†	236344.8	1.728	mg/L	0.0092	1.728	mg/L	0.0092	0.53%
Mg 285.213†	7263.5	1.686	mg/L	0.0076	1.686	mg/L	0.0076	0.45%
Mn 257.610†	1793.1	0.06116	mg/L	0.000100	0.06116	mg/L	0.000100	0.16%
Mn 259.372†	2663.4	0.06067	mg/L	0.000125	0.06067	mg/L	0.000125	0.21%
Mn 260.568†	1113.7	0.05788	mg/L	0.000166	0.05788	mg/L	0.000166	0.29%
Mo 202.031†	0.3	0.00075	mg/L	0.003260	0.00075	mg/L	0.003260	433.44%
Mo 203.845†	-1.9	-0.00927	mg/L	0.013171	-0.00927	mg/L	0.013171	142.14%
Mo 204.597†	1.2	0.00014	mg/L	0.000314	0.00014	mg/L	0.000314	218.22%

Na 588.995†	268686.9	51.85	mg/L	0.201	51.85	mg/L	0.201	0.39%
Na 589.592†	283781.5	53.72	mg/L	0.242	53.72	mg/L	0.242	0.45%
Ni 221.648†	-23.2	-0.07566	mg/L	0.001433	-0.07566	mg/L	0.001433	1.89%
Ni 231.604†	60.5	0.00416	mg/L	0.000375	0.00416	mg/L	0.000375	8.99%
Ni 232.003†	2.9	0.00606	mg/L	0.003132	0.00606	mg/L	0.003132	51.69%
Pb 217.000†	3.9	0.04440	mg/L	0.016419	0.04440	mg/L	0.016419	36.98%
Pb 220.353†	146.4	0.05232	mg/L	0.001125	0.05232	mg/L	0.001125	2.15%
Sb 206.836†	14.2	0.00625	mg/L	0.001627	0.00625	mg/L	0.001627	26.04%
Sb 217.582†	1.0	0.01513	mg/L	0.018831	0.01513	mg/L	0.018831	124.49%
Se 196.026†	19.8	0.01717	mg/L	0.001221	0.01717	mg/L	0.001221	7.12%
Se 203.985†	-1.2	-0.00198	mg/L	0.001066	-0.00198	mg/L	0.001066	53.93%
Sn 189.927†	7.4	0.00531	mg/L	0.002101	0.00531	mg/L	0.002101	39.53%
Sn 235.485†	27.9	0.1521	mg/L	0.02247	0.1521	mg/L	0.02247	14.77%
Sr 407.771†	4656.0	0.02216	mg/L	0.000102	0.02216	mg/L	0.000102	0.46%
Sr 421.552†	5997.8	0.02154	mg/L	0.000221	0.02154	mg/L	0.000221	1.03%
Sr 460.733†	287.2	0.02428	mg/L	0.006828	0.02428	mg/L	0.006828	28.12%
Ti 334.940†	791.5	0.03311	mg/L	0.000221	0.03311	mg/L	0.000221	0.67%
Ti 336.121†	726.9	0.03692	mg/L	0.001813	0.03692	mg/L	0.001813	4.91%
Ti 337.279†	277.7	0.03283	mg/L	0.000482	0.03283	mg/L	0.000482	1.47%
Tl 190.801†	-3.2	-0.00348	mg/L	0.001203	-0.00348	mg/L	0.001203	34.59%
Tl 276.787†	125.7	0.02865	mg/L	0.003825	0.02865	mg/L	0.003825	13.35%
Tl 351.924†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
V 290.880†	2.7	0.00073	mg/L	0.000614	0.00073	mg/L	0.000614	83.87%
V 309.310†	3.5	0.00052	mg/L	0.001631	0.00052	mg/L	0.001631	310.88%
V 310.230†	-1189.5	-0.00753	mg/L	0.000138	-0.00753	mg/L	0.000138	1.83%
Zn 202.548†	659.5	0.2696	mg/L	0.00112	0.2696	mg/L	0.00112	0.42%
Zn 206.200†	250.6	0.2694	mg/L	0.00307	0.2694	mg/L	0.00307	1.14%
Zn 213.857†	1117.0	0.2677	mg/L	0.00116	0.2677	mg/L	0.00116	0.44%

Sequence No.: 40
Sample ID: 2002AH16D01
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 37
Date Collected: 11/9/01 12:50:55 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 2002AH16D01

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	269362.8						5907.72	2.19%
Y 360.073	3512931.9						56451.66	1.61%
Ag 328.068†	120.7	0.00063	mg/L	0.000212	0.00063	mg/L	0.000212	33.68%
Ag 338.289†	12.9	0.00012	mg/L	0.000440	0.00012	mg/L	0.000440	360.11%
Al 308.215†	1662.8	2.233	mg/L	0.0606	2.233	mg/L	0.0606	2.72%
Al 394.401†	2105.0	2.338	mg/L	0.0635	2.338	mg/L	0.0635	2.72%
Al 396.153†	7854.0	2.317	mg/L	0.0880	2.317	mg/L	0.0880	3.80%
As 188.979†	0.3	0.00702	mg/L	0.029876	0.00702	mg/L	0.029876	425.41%
As 193.696†	8.0	0.00859	mg/L	0.001099	0.00859	mg/L	0.001099	12.79%
As 197.197†	0.7	0.02406	mg/L	0.015348	0.02406	mg/L	0.015348	63.78%
B 208.889†	98.5	0.4282	mg/L	0.01051	0.4282	mg/L	0.01051	2.45%
B 249.677†	644.0	0.4134	mg/L	0.00848	0.4134	mg/L	0.00848	2.05%
B 249.772†	1358.5	0.4189	mg/L	0.01221	0.4189	mg/L	0.01221	2.92%
Ba 233.527†	1547.5	0.3521	mg/L	0.00708	0.3521	mg/L	0.00708	2.01%
Ba 455.403†	35430.1	0.3797	mg/L	0.00291	0.3797	mg/L	0.00291	0.77%
Ba 493.408†	60701.7	0.3726	mg/L	0.00186	0.3726	mg/L	0.00186	0.50%
Be 234.861†	-2127.8	-0.00552	mg/L	0.000161	-0.00552	mg/L	0.000161	2.91%
Be 313.042†	35.5	0.00043	mg/L	0.000030	0.00043	mg/L	0.000030	7.09%
Be 313.107†	35.5	0.00043	mg/L	0.000030	0.00043	mg/L	0.000030	7.09%
Ca 315.887†	50164.5	14.75	mg/L	0.581	14.75	mg/L	0.581	3.94%
Ca 317.933†	47006.5	13.51	mg/L	0.569	13.51	mg/L	0.569	4.21%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	54.8	0.00143	mg/L	0.000056	0.00143	mg/L	0.000056	3.89%
Cd 228.802†	4.9	0.00114	mg/L	0.000573	0.00114	mg/L	0.000573	50.06%
Ce 413.380†	31.4	0.01665	mg/L	0.013892	0.01665	mg/L	0.013892	83.45%
Ce 413.764†	-3.1	-0.00167	mg/L	0.001987	-0.00167	mg/L	0.001987	119.13%
Ce 418.660†	-49.6	-0.01330	mg/L	0.028760	-0.01330	mg/L	0.028760	216.32%
Co 228.616†	67.6	0.00157	mg/L	0.000372	0.00157	mg/L	0.000372	23.67%
Co 230.786†	-0.1	-0.00007	mg/L	0.001641	-0.00007	mg/L	0.001641	>999.9%
Co 238.892†	1.6	0.00096	mg/L	0.000988	0.00096	mg/L	0.000988	102.42%

Cr 205.560†	3.0	0.01095 mg/L	0.002822	0.01095 mg/L	0.002822	25.78%
Cr 267.716†	274.0	0.00940 mg/L	0.000241	0.00940 mg/L	0.000241	2.56%
Cr 283.563†	36.3	0.00867 mg/L	0.000373	0.00867 mg/L	0.000373	4.30%
Cu 224.700†	272.7	0.3530 mg/L	0.00977	0.3530 mg/L	0.00977	2.77%
Cu 324.752†	3805.6	0.3411 mg/L	0.01428	0.3411 mg/L	0.01428	4.19%
Cu 327.393†	24389.6	0.3539 mg/L	0.00383	0.3539 mg/L	0.00383	1.08%
Fe 238.204†	8077.9	2.087 mg/L	0.0801	2.087 mg/L	0.0801	3.84%
Fe 239.562†	6228.5	2.083 mg/L	0.0718	2.083 mg/L	0.0718	3.45%
Fe 259.939†	14004.3	2.139 mg/L	0.0826	2.139 mg/L	0.0826	3.86%
Fe 273.955†	2208.0	2.339 mg/L	0.0905	2.339 mg/L	0.0905	3.87%
K 766.490†	1770.9	3.062 mg/L	0.1388	3.062 mg/L	0.1388	4.53%
Li 610.362†	-37.6	-0.00562 mg/L	0.009885	-0.00562 mg/L	0.009885	175.93%
Li 670.784†	64.3	0.00122 mg/L	0.001080	0.00122 mg/L	0.001080	88.62%
Mg 279.077†	1671.9	1.868 mg/L	0.0595	1.868 mg/L	0.0595	3.19%
Mg 280.271†	255173.1	1.866 mg/L	0.0145	1.866 mg/L	0.0145	0.78%
Mg 285.213†	7834.8	1.818 mg/L	0.0725	1.818 mg/L	0.0725	3.99%
Mn 257.610†	2204.7	0.07519 mg/L	0.003227	0.07519 mg/L	0.003227	4.29%
Mn 259.372†	3235.5	0.07376 mg/L	0.002040	0.07376 mg/L	0.002040	2.77%
Mn 260.568†	1356.9	0.07052 mg/L	0.001882	0.07052 mg/L	0.001882	2.67%
Mo 202.031†	0.0	0.00009 mg/L	0.000729	0.00009 mg/L	0.000729	847.42%
Mo 203.845†	-3.0	-0.01455 mg/L	0.011067	-0.01455 mg/L	0.011067	76.04%
Mo 204.597†	8.1	0.00099 mg/L	0.000188	0.00099 mg/L	0.000188	18.93%
Na 588.995†	263298.1	50.81 mg/L	0.320	50.81 mg/L	0.320	0.63%
Na 589.592†	277553.7	52.54 mg/L	0.322	52.54 mg/L	0.322	0.61%
Ni 221.648†	-21.8	-0.07113 mg/L	0.001213	-0.07113 mg/L	0.001213	1.71%
Ni 231.604†	84.0	0.00578 mg/L	0.000232	0.00578 mg/L	0.000232	4.02%
Ni 232.003†	5.7	0.01208 mg/L	0.002746	0.01208 mg/L	0.002746	22.73%
Pb 217.000†	1.4	0.01604 mg/L	0.030235	0.01604 mg/L	0.030235	188.47%
Pb 220.353†	84.1	0.03006 mg/L	0.001691	0.03006 mg/L	0.001691	5.62%
Sb 206.836†	11.0	0.00483 mg/L	0.001599	0.00483 mg/L	0.001599	33.08%
Sb 217.582†	0.1	0.00231 mg/L	0.017515	0.00231 mg/L	0.017515	756.70%
Se 196.026†	22.4	0.01948 mg/L	0.001532	0.01948 mg/L	0.001532	7.86%
Se 203.985†	2.6	0.00439 mg/L	0.003909	0.00439 mg/L	0.003909	88.95%
Sn 189.927†	6.9	0.00494 mg/L	0.000860	0.00494 mg/L	0.000860	17.40%
Sn 235.485†	28.1	0.1533 mg/L	0.02322	0.1533 mg/L	0.02322	15.15%
Sr 407.771†	5398.3	0.02569 mg/L	0.001181	0.02569 mg/L	0.001181	4.60%
Sr 421.552†	6975.3	0.02505 mg/L	0.001228	0.02505 mg/L	0.001228	4.90%
Sr 460.733†	402.3	0.03402 mg/L	0.005023	0.03402 mg/L	0.005023	14.77%
Ti 334.940†	930.8	0.03894 mg/L	0.000560	0.03894 mg/L	0.000560	1.44%
Ti 336.121†	809.4	0.04112 mg/L	0.002411	0.04112 mg/L	0.002411	5.86%
Ti 337.279†	323.5	0.03824 mg/L	0.001095	0.03824 mg/L	0.001095	2.86%
Tl 190.801†	-1.0	-0.00112 mg/L	0.001194	-0.00112 mg/L	0.001194	106.38%
Tl 276.787†	151.8	0.03459 mg/L	0.016097	0.03459 mg/L	0.016097	46.54%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	1.9	0.00053 mg/L	0.001251	0.00053 mg/L	0.001251	236.72%
V 309.310†	11.9	0.00178 mg/L	0.001058	0.00178 mg/L	0.001058	59.31%
V 310.230†	-1321.1	-0.00836 mg/L	0.001646	-0.00836 mg/L	0.001646	19.69%
Zn 202.548†	623.3	0.2713 mg/L	0.00525	0.2713 mg/L	0.00525	1.94%
Zn 206.200†	254.1	0.2732 mg/L	0.00596	0.2732 mg/L	0.00596	2.18%
Zn 213.857†	1141.6	0.2749 mg/L	0.00751	0.2749 mg/L	0.00751	2.73%

Sequence No.: 41
Sample ID: wash
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 17
Date Collected: 11/9/01 12:55:31 PM
Sample Prep Volume:
Data Type: Original

Mean Data: wash

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	269368.7						2776.51	1.03%
Y 360.073	3552451.1						2212.19	0.06%
Ag 328.068†	34.6	0.00018	mg/L	0.000216	0.00018	mg/L	0.000216	119.80%
Ag 338.289†	-8.8	-0.00008	mg/L	0.000220	-0.00008	mg/L	0.000220	264.11%
Al 308.215†	20.0	0.02688	mg/L	0.006397	0.02688	mg/L	0.006397	23.80%
Al 394.401†	7.9	0.00880	mg/L	0.004205	0.00880	mg/L	0.004205	47.77%
Al 396.153†	65.2	0.01900	mg/L	0.002522	0.01900	mg/L	0.002522	13.27%
As 188.979†	-0.6	-0.01306	mg/L	0.033806	-0.01306	mg/L	0.033806	258.82%

As 193.696†	0.7	0.00077 mg/L	0.001593	0.00077 mg/L	0.001593	207.21%
As 197.197†	0.5	0.01713 mg/L	0.034327	0.01713 mg/L	0.034327	200.35%
B 208.889†	3.0	0.01289 mg/L	0.003486	0.01289 mg/L	0.003486	27.04%
B 249.677†	12.5	0.00800 mg/L	0.003254	0.00800 mg/L	0.003254	40.64%
B 249.772†	26.8	0.00825 mg/L	0.000033	0.00825 mg/L	0.000033	0.40%
Ba 233.527†	1.6	0.00035 mg/L	0.000283	0.00035 mg/L	0.000283	80.03%
Ba 455.403†	40.6	0.00043 mg/L	0.000143	0.00043 mg/L	0.000143	32.92%
Ba 493.408†	50.0	0.00031 mg/L	0.000306	0.00031 mg/L	0.000306	99.81%
Be 234.861†	115.6	0.00030 mg/L	0.000025	0.00030 mg/L	0.000025	8.35%
Be 313.042†	17.7	0.00021 mg/L	0.000030	0.00021 mg/L	0.000030	13.95%
Be 313.107†	17.7	0.00021 mg/L	0.000030	0.00021 mg/L	0.000030	13.95%
Ca 315.887†	96.8	0.02847 mg/L	0.010157	0.02847 mg/L	0.010157	35.68%
Ca 317.933†	15.0	0.00432 mg/L	0.002989	0.00432 mg/L	0.002989	69.18%
Cd 214.440†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
Cd 226.502†	-7.8	-0.00020 mg/L	0.000049	-0.00020 mg/L	0.000049	23.95%
Cd 228.802†	-1.9	-0.00045 mg/L	0.000371	-0.00045 mg/L	0.000371	82.43%
Ce 413.380†	19.2	0.01017 mg/L	0.007288	0.01017 mg/L	0.007288	71.64%
Ce 413.764†	-11.7	-0.00631 mg/L	0.002854	-0.00631 mg/L	0.002854	45.26%
Ce 418.660†	-14.7	-0.00395 mg/L	0.011532	-0.00395 mg/L	0.011532	291.81%
Co 228.616†	25.4	0.00059 mg/L	0.000396	0.00059 mg/L	0.000396	67.02%
Co 230.786†	0.5	0.00046 mg/L	0.000629	0.00046 mg/L	0.000629	135.99%
Co 238.892†	1.0	0.00058 mg/L	0.000800	0.00058 mg/L	0.000800	137.49%
Cr 205.560†	0.6	0.00202 mg/L	0.002226	0.00202 mg/L	0.002226	110.03%
Cr 267.716†	6.5	0.00022 mg/L	0.000117	0.00022 mg/L	0.000117	52.33%
Cr 283.563†	-8.5	-0.00204 mg/L	0.000597	-0.00204 mg/L	0.000597	29.25%
Cu 224.700†	-1.4	-0.00179 mg/L	0.000584	-0.00179 mg/L	0.000584	32.71%
Cu 324.752†	-31.9	-0.00286 mg/L	0.000395	-0.00286 mg/L	0.000395	13.83%
Cu 327.393†	-128.2	-0.00186 mg/L	0.000344	-0.00186 mg/L	0.000344	18.51%
Fe 238.204†	25.9	0.00670 mg/L	0.000361	0.00670 mg/L	0.000361	5.40%
Fe 239.562†	20.6	0.00691 mg/L	0.000074	0.00691 mg/L	0.000074	1.08%
Fe 259.939†	43.8	0.00669 mg/L	0.000229	0.00669 mg/L	0.000229	3.42%
Fe 273.955†	6.1	0.00647 mg/L	0.002498	0.00647 mg/L	0.002498	38.60%
K 766.490†	38.5	0.06661 mg/L	0.012520	0.06661 mg/L	0.012520	18.80%
Li 610.362†	16.1	0.00241 mg/L	0.013349	0.00241 mg/L	0.013349	553.40%
Li 670.784†	41.8	0.00079 mg/L	0.000421	0.00079 mg/L	0.000421	53.04%
Mg 279.077†	23.6	0.02639 mg/L	0.002677	0.02639 mg/L	0.002677	10.15%
Mg 280.271†	2705.0	0.01978 mg/L	0.000266	0.01978 mg/L	0.000266	1.35%
Mg 285.213†	84.3	0.01957 mg/L	0.000280	0.01957 mg/L	0.000280	1.43%
Mn 257.610†	2.5	0.00009 mg/L	0.000077	0.00009 mg/L	0.000077	90.03%
Mn 259.372†	12.0	0.00026 mg/L	0.000078	0.00026 mg/L	0.000078	29.52%
Mn 260.568†	0.6	0.00003 mg/L	0.000084	0.00003 mg/L	0.000084	286.53%
Mo 202.031†	0.9	0.00237 mg/L	0.005991	0.00237 mg/L	0.005991	252.53%
Mo 203.845†	-2.3	-0.01077 mg/L	0.006978	-0.01077 mg/L	0.006978	64.77%
Mo 204.597†	-7.3	-0.00090 mg/L	0.000545	-0.00090 mg/L	0.000545	60.79%
Na 588.995†	1899.5	0.3665 mg/L	0.00041	0.3665 mg/L	0.00041	0.11%
Na 589.592†	1999.4	0.3785 mg/L	0.00818	0.3785 mg/L	0.00818	2.16%
Ni 221.648†	0.8	0.00269 mg/L	0.001176	0.00269 mg/L	0.001176	43.80%
Ni 231.604†	-3.3	-0.00022 mg/L	0.000252	-0.00022 mg/L	0.000252	112.72%
Ni 232.003†	2.2	0.00466 mg/L	0.001963	0.00466 mg/L	0.001963	42.16%
Pb 217.000†	-2.1	-0.02388 mg/L	0.022264	-0.02388 mg/L	0.022264	93.21%
Pb 220.353†	-5.6	-0.00199 mg/L	0.000244	-0.00199 mg/L	0.000244	12.24%
Sb 206.836†	0.5	0.00022 mg/L	0.002390	0.00022 mg/L	0.002390	>999.9%
Sb 217.582†	-1.1	-0.01696 mg/L	0.010146	-0.01696 mg/L	0.010146	59.82%
Se 196.026†	-0.1	-0.00012 mg/L	0.001691	-0.00012 mg/L	0.001691	>999.9%
Se 203.985†	0.8	0.00134 mg/L	0.001696	0.00134 mg/L	0.001696	126.55%
Sn 189.927†	0.9	0.00065 mg/L	0.000808	0.00065 mg/L	0.000808	123.43%
Sn 235.485†	9.1	0.04971 mg/L	0.006374	0.04971 mg/L	0.006374	12.82%
Sr 407.771†	5.1	0.00002 mg/L	0.000097	0.00002 mg/L	0.000097	403.36%
Sr 421.552†	79.0	0.00028 mg/L	0.000223	0.00028 mg/L	0.000223	78.44%
Sr 460.733†	35.8	0.00302 mg/L	0.005063	0.00302 mg/L	0.005063	167.37%
Ti 334.940†	3.7	0.00015 mg/L	0.000035	0.00015 mg/L	0.000035	22.65%
Ti 336.121†	34.1	0.00173 mg/L	0.000887	0.00173 mg/L	0.000887	51.14%
Ti 337.279†	-6.5	-0.00077 mg/L	0.000369	-0.00077 mg/L	0.000369	47.66%
Tl 190.801†	-1.0	-0.00107 mg/L	0.000381	-0.00107 mg/L	0.000381	35.72%
Tl 276.787†	7.8	0.00178 mg/L	0.004549	0.00178 mg/L	0.004549	255.25%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	-10.8	-0.00294 mg/L	0.000312	-0.00294 mg/L	0.000312	10.58%
V 309.310†	-15.8	-0.00238 mg/L	0.000095	-0.00238 mg/L	0.000095	4.00%
V 310.230†	-2063.4	-0.01305 mg/L	0.000441	-0.01305 mg/L	0.000441	3.38%
Zn 202.548†	1.9	0.00086 mg/L	0.002166	0.00086 mg/L	0.002166	250.73%

Zn 206.200†	0.3	0.00030 mg/L	0.000993	0.00030 mg/L	0.000993	329.88%
Zn 213.857†	5.3	0.00128 mg/L	0.000188	0.00128 mg/L	0.000188	14.63%

Sequence No.: 42
Sample ID: BLANK
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/9/01 1:00:06 PM

Sample Prep Volume:
Data Type: Original

Mean Data: BLANK

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	269889.1						3383.91	1.25%
Y 360.073	3494441.6						60781.80	1.74%
Ag 328.068†	-21.2	-0.00011	mg/L	0.000261	-0.00011	mg/L	0.000261	236.86%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	3.9	0.00004	mg/L	0.000550	0.00004	mg/L	0.000550	>999.9%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215†	16.7	0.02246	mg/L	0.003583	0.02246	mg/L	0.003583	15.95%
QC value within limits for Al 308.215 Recovery = Not calculated								
Al 394.401†	1.7	0.00190	mg/L	0.005258	0.00190	mg/L	0.005258	276.26%
QC value within limits for Al 394.401 Recovery = Not calculated								
Al 396.153†	55.3	0.01614	mg/L	0.003955	0.01614	mg/L	0.003955	24.51%
QC value within limits for Al 396.153 Recovery = Not calculated								
As 188.979†	-0.6	-0.01250	mg/L	0.018271	-0.01250	mg/L	0.018271	146.20%
QC value within limits for As 188.979 Recovery = Not calculated								
As 193.696†	1.7	0.00181	mg/L	0.002258	0.00181	mg/L	0.002258	124.75%
QC value within limits for As 193.696 Recovery = Not calculated								
As 197.197†	0.5	0.01952	mg/L	0.020417	0.01952	mg/L	0.020417	104.59%
QC value within limits for As 197.197 Recovery = Not calculated								
B 208.889†	-0.0	-0.00020	mg/L	0.006907	-0.00020	mg/L	0.006907	>999.9%
QC value within limits for B 208.889 Recovery = Not calculated								
B 249.677†	15.9	0.01023	mg/L	0.001275	0.01023	mg/L	0.001275	12.46%
QC value within limits for B 249.677 Recovery = Not calculated								
B 249.772†	28.9	0.00891	mg/L	0.001851	0.00891	mg/L	0.001851	20.77%
QC value within limits for B 249.772 Recovery = Not calculated								
Ba 233.527†	0.9	0.00021	mg/L	0.000162	0.00021	mg/L	0.000162	76.19%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Ba 455.403†	16.6	0.00018	mg/L	0.000105	0.00018	mg/L	0.000105	58.86%
QC value within limits for Ba 455.403 Recovery = Not calculated								
Ba 493.408†	41.2	0.00025	mg/L	0.000275	0.00025	mg/L	0.000275	108.71%
QC value within limits for Ba 493.408 Recovery = Not calculated								
Be 234.861†	127.2	0.00033	mg/L	0.000012	0.00033	mg/L	0.000012	3.73%
QC value within limits for Be 234.861 Recovery = Not calculated								
Be 313.042†	16.9	0.00020	mg/L	0.000012	0.00020	mg/L	0.000012	5.75%
QC value within limits for Be 313.042 Recovery = Not calculated								
Be 313.107†	16.9	0.00020	mg/L	0.000012	0.00020	mg/L	0.000012	5.75%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	48.0	0.01413	mg/L	0.002075	0.01413	mg/L	0.002075	14.69%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Ca 317.933†	2.7	0.00077	mg/L	0.016593	0.00077	mg/L	0.016593	>999.9%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
QC value within limits for Cd 214.440 Recovery = Not calculated								
Cd 226.502†	-3.2	-0.00008	mg/L	0.000088	-0.00008	mg/L	0.000088	103.88%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Cd 228.802†	-0.4	-0.00009	mg/L	0.000158	-0.00009	mg/L	0.000158	167.70%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Ce 413.380†	17.1	0.00904	mg/L	0.009592	0.00904	mg/L	0.009592	106.08%
QC value within limits for Ce 413.380 Recovery = Not calculated								
Ce 413.764†	-15.9	-0.00857	mg/L	0.000360	-0.00857	mg/L	0.000360	4.20%
QC value within limits for Ce 413.764 Recovery = Not calculated								
Ce 418.660†	-36.5	-0.00979	mg/L	0.029117	-0.00979	mg/L	0.029117	297.48%
QC value within limits for Ce 418.660 Recovery = Not calculated								
Co 228.616†	13.0	0.00030	mg/L	0.000329	0.00030	mg/L	0.000329	108.28%
QC value within limits for Co 228.616 Recovery = Not calculated								
Co 230.786†	-0.4	-0.00037	mg/L	0.001434	-0.00037	mg/L	0.001434	384.46%
QC value within limits for Co 230.786 Recovery = Not calculated								

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Co 238.892†                0.9     0.00054 mg/L      0.000651     0.00054 mg/L      0.000651 121.34%
   QC value within limits for Co 238.892  Recovery = Not calculated
Cr 205.560†                0.3     0.00126 mg/L      0.000964     0.00126 mg/L      0.000964  76.53%
   QC value within limits for Cr 205.560  Recovery = Not calculated
Cr 267.716†                5.4     0.00018 mg/L      0.000047     0.00018 mg/L      0.000047  25.64%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cr 283.563†               -8.5    -0.00203 mg/L      0.000258    -0.00203 mg/L      0.000258  12.73%
   QC value within limits for Cr 283.563  Recovery = Not calculated
Cu 224.700†                0.1     0.00009 mg/L      0.004544     0.00009 mg/L      0.004544 >999.9%
   QC value within limits for Cu 224.700  Recovery = Not calculated
Cu 324.752†              -17.4    -0.00156 mg/L      0.000282    -0.00156 mg/L      0.000282  18.09%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Cu 327.393†              -24.5    -0.00036 mg/L      0.000264    -0.00036 mg/L      0.000264  74.47%
   QC value within limits for Cu 327.393  Recovery = Not calculated
Fe 238.204†               11.3     0.00292 mg/L      0.000181     0.00292 mg/L      0.000181   6.20%
   QC value within limits for Fe 238.204  Recovery = Not calculated
Fe 239.562†                9.6     0.00320 mg/L      0.000173     0.00320 mg/L      0.000173   5.40%
   QC value within limits for Fe 239.562  Recovery = Not calculated
Fe 259.939†               18.4     0.00281 mg/L      0.000115     0.00281 mg/L      0.000115   4.08%
   QC value within limits for Fe 259.939  Recovery = Not calculated
Fe 273.955†                1.1     0.00117 mg/L      0.001428     0.00117 mg/L      0.001428 121.55%
   QC value within limits for Fe 273.955  Recovery = Not calculated
K 766.490†               145.2      0.2511 mg/L       0.01239      0.2511 mg/L       0.01239   4.93%
   QC value within limits for K 766.490  Recovery = Not calculated
Li 610.362†              -17.0    -0.00254 mg/L      0.004256    -0.00254 mg/L      0.004256 167.26%
   QC value within limits for Li 610.362  Recovery = Not calculated
Li 670.784†              114.5     0.00217 mg/L      0.002024     0.00217 mg/L      0.002024  93.21%
   QC value within limits for Li 670.784  Recovery = Not calculated
Mg 279.077†                5.7     0.00635 mg/L      0.004234     0.00635 mg/L      0.004234  66.73%
   QC value within limits for Mg 279.077  Recovery = Not calculated
Mg 280.271†              773.3     0.00565 mg/L      0.000360     0.00565 mg/L      0.000360   6.36%
   QC value within limits for Mg 280.271  Recovery = Not calculated
Mg 285.213†               25.6     0.00594 mg/L      0.000094     0.00594 mg/L      0.000094   1.58%
   QC value within limits for Mg 285.213  Recovery = Not calculated
Mn 257.610†                2.6     0.00009 mg/L      0.000088     0.00009 mg/L      0.000088 100.60%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mn 259.372†               10.4     0.00025 mg/L      0.000069     0.00025 mg/L      0.000069  27.84%
   QC value within limits for Mn 259.372  Recovery = Not calculated
Mn 260.568†                2.2     0.00011 mg/L      0.000140     0.00011 mg/L      0.000140 125.42%
   QC value within limits for Mn 260.568  Recovery = Not calculated
Mo 202.031†               -0.5    -0.00138 mg/L      0.005845    -0.00138 mg/L      0.005845 422.37%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Mo 203.845†               -2.1    -0.01026 mg/L      0.005039    -0.01026 mg/L      0.005039  49.11%
   QC value within limits for Mo 203.845  Recovery = Not calculated
Mo 204.597†               -4.5    -0.00055 mg/L      0.000157    -0.00055 mg/L      0.000157  28.44%
   QC value within limits for Mo 204.597  Recovery = Not calculated
Na 588.995†             2021.8      0.3901 mg/L       0.01688      0.3901 mg/L       0.01688   4.33%
   QC value within limits for Na 588.995  Recovery = Not calculated
Na 589.592†             2119.6      0.4012 mg/L       0.01859      0.4012 mg/L       0.01859   4.63%
   QC value within limits for Na 589.592  Recovery = Not calculated
Ni 221.648†                0.5     0.00173 mg/L      0.001349     0.00173 mg/L      0.001349  77.73%
   QC value within limits for Ni 221.648  Recovery = Not calculated
Ni 231.604†               -3.3    -0.00023 mg/L      0.000343    -0.00023 mg/L      0.000343 152.29%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Ni 232.003†               -0.0    -0.00010 mg/L      0.001681    -0.00010 mg/L      0.001681 >999.9%
   QC value within limits for Ni 232.003  Recovery = Not calculated
Pb 217.000†               -1.8    -0.02032 mg/L      0.005841    -0.02032 mg/L      0.005841  28.75%
   QC value within limits for Pb 217.000  Recovery = Not calculated
Pb 220.353†               -0.0    -0.00001 mg/L      0.001145    -0.00001 mg/L      0.001145 >999.9%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†                3.9     0.00173 mg/L      0.000392     0.00173 mg/L      0.000392  22.72%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Sb 217.582†               -0.1    -0.00176 mg/L      0.014790    -0.00176 mg/L      0.014790 839.89%
   QC value within limits for Sb 217.582  Recovery = Not calculated
Se 196.026†                1.8     0.00159 mg/L      0.001630     0.00159 mg/L      0.001630 102.79%
   QC value within limits for Se 196.026  Recovery = Not calculated
Se 203.985†                0.5     0.00078 mg/L      0.003259     0.00078 mg/L      0.003259 419.77%
   QC value within limits for Se 203.985  Recovery = Not calculated
Sn 189.927†                0.8     0.00058 mg/L      0.000770     0.00058 mg/L      0.000770 132.79%
   QC value within limits for Sn 189.927  Recovery = Not calculated
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Sn 235.485†	8.3	0.04524 mg/L	0.032802	0.04524 mg/L	0.032802	72.50%
QC value within limits for Sn 235.485 Recovery = Not calculated						
Sr 407.771†	23.2	0.00011 mg/L	0.000028	0.00011 mg/L	0.000028	25.57%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Sr 421.552†	161.9	0.00058 mg/L	0.000157	0.00058 mg/L	0.000157	26.95%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Sr 460.733†	58.3	0.00493 mg/L	0.005976	0.00493 mg/L	0.005976	121.11%
QC value within limits for Sr 460.733 Recovery = Not calculated						
Ti 334.940†	-0.8	-0.00003 mg/L	0.000104	-0.00003 mg/L	0.000104	303.27%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Ti 336.121†	40.2	0.00204 mg/L	0.000645	0.00204 mg/L	0.000645	31.57%
QC value within limits for Ti 336.121 Recovery = Not calculated						
Ti 337.279†	-8.3	-0.00098 mg/L	0.000210	-0.00098 mg/L	0.000210	21.45%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	-1.5	-0.00170 mg/L	0.001575	-0.00170 mg/L	0.001575	92.84%
QC value within limits for Tl 190.801 Recovery = Not calculated						
Tl 276.787†	9.5	0.00217 mg/L	0.002404	0.00217 mg/L	0.002404	110.79%
QC value within limits for Tl 276.787 Recovery = Not calculated						
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
QC value within limits for Tl 351.924 Recovery = Not calculated						
V 290.880†	-8.5	-0.00232 mg/L	0.000730	-0.00232 mg/L	0.000730	31.50%
QC value within limits for V 290.880 Recovery = Not calculated						
V 309.310†	-17.4	-0.00262 mg/L	0.002325	-0.00262 mg/L	0.002325	88.72%
QC value within limits for V 309.310 Recovery = Not calculated						
V 310.230†	-2204.7	-0.01395 mg/L	0.000680	-0.01395 mg/L	0.000680	4.88%
QC value within limits for V 310.230 Recovery = Not calculated						
Zn 202.548†	3.3	0.00143 mg/L	0.000618	0.00143 mg/L	0.000618	43.21%
QC value within limits for Zn 202.548 Recovery = Not calculated						
Zn 206.200†	1.1	0.00118 mg/L	0.000306	0.00118 mg/L	0.000306	25.99%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zn 213.857†	7.1	0.00171 mg/L	0.000506	0.00171 mg/L	0.000506	29.60%
QC value within limits for Zn 213.857 Recovery = Not calculated						

All analytes passed QC.

Sequence No.: 43
Sample ID: LCM1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 11/9/01 1:04:34 PM
Sample Prep Volume:
Data Type: Original

Mean Data: LCM1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	265485.4						4774.26	1.80%
Y 360.073	3519543.6						49603.00	1.41%
Ag 328.068†	29084.5	0.1517	mg/L	0.00170	0.1517	mg/L	0.00170	1.12%
Ag 338.289†	16109.2	0.1526	mg/L	0.00177	0.1526	mg/L	0.00177	1.16%
Al 308.215†	773.4	1.038	mg/L	0.0185	1.038	mg/L	0.0185	1.78%
QC value within limits for Al 308.215 Recovery = 103.84%								
Al 394.401†	959.7	1.066	mg/L	0.0181	1.066	mg/L	0.0181	1.70%
QC value within limits for Al 394.401 Recovery = 106.62%								
Al 396.153†	3679.6	1.083	mg/L	0.0346	1.083	mg/L	0.0346	3.19%
QC value within limits for Al 396.153 Recovery = 108.32%								
As 188.979†	91.6	2.011	mg/L	0.0306	2.011	mg/L	0.0306	1.52%
QC value within limits for As 188.979 Recovery = 100.56%								
As 193.696†	1974.9	2.124	mg/L	0.0264	2.124	mg/L	0.0264	1.24%
QC value within limits for As 193.696 Recovery = 106.21%								
As 197.197†	55.7	2.043	mg/L	0.0608	2.043	mg/L	0.0608	2.98%
QC value within limits for As 197.197 Recovery = 102.15%								
B 208.889†	230.7	1.003	mg/L	0.0306	1.003	mg/L	0.0306	3.06%
QC value within limits for B 208.889 Recovery = 100.28%								
B 249.677†	1485.8	0.9537	mg/L	0.01680	0.9537	mg/L	0.01680	1.76%
QC value within limits for B 249.677 Recovery = 95.37%								
B 249.772†	3097.4	0.9551	mg/L	0.02178	0.9551	mg/L	0.02178	2.28%
QC value within limits for B 249.772 Recovery = 95.51%								
Ba 233.527†	4346.2	0.9887	mg/L	0.03426	0.9887	mg/L	0.03426	3.46%
QC value within limits for Ba 233.527 Recovery = 98.87%								
Ba 455.403†	97309.2	1.043	mg/L	0.0088	1.043	mg/L	0.0088	0.84%

QC value within limits for Ba 455.403 Recovery = 104.27%

Ba 493.408†	167004.1	1.025 mg/L	0.0101	1.025 mg/L	0.0101	0.98%

QC value within limits for Ba 493.408 Recovery = 102.52%

Be 234.861†	461104.6	1.196 mg/L	0.0161	1.196 mg/L	0.0161	1.34%

QC value greater than the upper limit for Be 234.861 Recovery = 119.59%

Be 313.042†	86114.3	1.041 mg/L	0.0032	1.041 mg/L	0.0032	0.31%

QC value within limits for Be 313.042 Recovery = 104.07%

Be 313.107†	86114.3	1.041 mg/L	0.0032	1.041 mg/L	0.0032	0.31%

QC value within limits for Be 313.107 Recovery = 104.07%

Ca 315.887†	3842.4	1.130 mg/L	0.0374	1.130 mg/L	0.0374	3.31%

QC value greater than the upper limit for Ca 315.887 Recovery = 113.00%

Ca 317.933†	3567.5	1.025 mg/L	0.0368	1.025 mg/L	0.0368	3.59%

QC value within limits for Ca 317.933 Recovery = 102.55%

Cd 214.440†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%

QC value less than the lower limit for Cd 214.440 Recovery = 0.00%

Cd 226.502†	38291.6	1.002 mg/L	0.0124	1.002 mg/L	0.0124	1.24%

QC value within limits for Cd 226.502 Recovery = 100.16%

Cd 228.802†	4061.0	0.9522 mg/L	0.02856	0.9522 mg/L	0.02856	3.00%

QC value within limits for Cd 228.802 Recovery = 95.22%

Ce 413.380†	2050.3	1.087 mg/L	0.0341	1.087 mg/L	0.0341	3.14%

QC value within limits for Ce 413.380 Recovery = 108.67%

Ce 413.764†	1925.1	1.037 mg/L	0.0309	1.037 mg/L	0.0309	2.98%

QC value within limits for Ce 413.764 Recovery = 103.67%

Ce 418.660†	3935.3	1.055 mg/L	0.0387	1.055 mg/L	0.0387	3.67%

QC value within limits for Ce 418.660 Recovery = 105.52%

Co 228.616†	41771.3	0.9719 mg/L	0.01463	0.9719 mg/L	0.01463	1.51%

QC value within limits for Co 228.616 Recovery = 97.19%

Co 230.786†	1081.6	1.006 mg/L	0.0196	1.006 mg/L	0.0196	1.95%

QC value within limits for Co 230.786 Recovery = 100.61%

Co 238.892†	1628.1	0.9950 mg/L	0.01774	0.9950 mg/L	0.01774	1.78%

QC value within limits for Co 238.892 Recovery = 99.50%

Cr 205.560†	275.0	0.9938 mg/L	0.01339	0.9938 mg/L	0.01339	1.35%

QC value within limits for Cr 205.560 Recovery = 99.38%

Cr 267.716†	29130.3	0.9992 mg/L	0.01315	0.9992 mg/L	0.01315	1.32%

QC value within limits for Cr 267.716 Recovery = 99.92%

Cr 283.563†	4852.2	1.160 mg/L	0.0542	1.160 mg/L	0.0542	4.67%

QC value greater than the upper limit for Cr 283.563 Recovery = 115.96%

Cu 224.700†	787.7	1.020 mg/L	0.0203	1.020 mg/L	0.0203	1.99%

QC value within limits for Cu 224.700 Recovery = 101.96%

Cu 324.752†	10916.4	0.9784 mg/L	0.03512	0.9784 mg/L	0.03512	3.59%

QC value within limits for Cu 324.752 Recovery = 97.84%

Cu 327.393†	66107.6	0.9592 mg/L	0.01407	0.9592 mg/L	0.01407	1.47%

QC value within limits for Cu 327.393 Recovery = 95.92%

Fe 238.204†	3995.9	1.032 mg/L	0.0362	1.032 mg/L	0.0362	3.51%

QC value within limits for Fe 238.204 Recovery = 103.24%

Fe 239.562†	3063.2	1.025 mg/L	0.0398	1.025 mg/L	0.0398	3.89%

QC value within limits for Fe 239.562 Recovery = 102.45%

Fe 259.939†	6987.5	1.067 mg/L	0.0392	1.067 mg/L	0.0392	3.67%

QC value within limits for Fe 259.939 Recovery = 106.73%

Fe 273.955†	1088.1	1.153 mg/L	0.0177	1.153 mg/L	0.0177	1.54%

QC value greater than the upper limit for Fe 273.955 Recovery = 115.29%

K 766.490†	3356.5	5.804 mg/L	0.2134	5.804 mg/L	0.2134	3.68%

QC value greater than the upper limit for K 766.490 Recovery = 116.08%

Li 610.362†	7265.8	1.087 mg/L	0.0308	1.087 mg/L	0.0308	2.84%

QC value within limits for Li 610.362 Recovery = 108.70%

Li 670.784†	56721.4	1.075 mg/L	0.0366	1.075 mg/L	0.0366	3.40%

QC value within limits for Li 670.784 Recovery = 107.53%

Mg 279.077†	979.1	1.094 mg/L	0.0092	1.094 mg/L	0.0092	0.84%

QC value within limits for Mg 279.077 Recovery = 109.42%

Mg 280.271†	147030.8	1.075 mg/L	0.0023	1.075 mg/L	0.0023	0.21%

QC value within limits for Mg 280.271 Recovery = 107.52%

Mg 285.213†	4570.3	1.061 mg/L	0.0364	1.061 mg/L	0.0364	3.43%

QC value within limits for Mg 285.213 Recovery = 106.07%

Mn 257.610†	29853.2	1.018 mg/L	0.0372	1.018 mg/L	0.0372	3.66%

QC value within limits for Mn 257.610 Recovery = 101.82%

Mn 259.372†	43125.2	1.010 mg/L	0.0369	1.010 mg/L	0.0369	3.65%

QC value within limits for Mn 259.372 Recovery = 100.99%

Mn 260.568†	18514.2	0.9623 mg/L	0.03179	0.9623 mg/L	0.03179	3.30%

QC value within limits for Mn 260.568 Recovery = 96.23%

Mo 202.031†	322.8	0.8808 mg/L	0.01897	0.8808 mg/L	0.01897	2.15%

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   QC value less than the lower limit for Mo 202.031  Recovery = 88.08%
Mo 203.845†            184.6      0.8807 mg/L      0.02393      0.8807 mg/L      0.02393   2.72%
   QC value less than the lower limit for Mo 203.845  Recovery = 88.07%
Mo 204.597†           7213.0      0.8903 mg/L      0.01812      0.8903 mg/L      0.01812   2.04%
   QC value less than the lower limit for Mo 204.597  Recovery = 89.03%
Na 588.995†           7003.3      1.351 mg/L       0.0204       1.351 mg/L       0.0204    1.51%
Na 589.592†           7386.0      1.398 mg/L       0.0523       1.398 mg/L       0.0523    3.74%
Ni 221.648†            306.8      1.000 mg/L       0.0178       1.000 mg/L       0.0178    1.78%
   QC value within limits for Ni 221.648  Recovery = 100.04%
Ni 231.604†          15828.4      1.089 mg/L       0.0154       1.089 mg/L       0.0154    1.42%
   QC value within limits for Ni 231.604  Recovery = 108.92%
Ni 232.003†            475.9      1.009 mg/L       0.0188       1.009 mg/L       0.0188    1.86%
   QC value within limits for Ni 232.003  Recovery = 100.95%
Pb 217.000†            170.5      1.932 mg/L       0.0476       1.932 mg/L       0.0476    2.46%
   QC value within limits for Pb 217.000  Recovery = 96.58%
Pb 220.353†           5864.2      2.095 mg/L       0.0294       2.095 mg/L       0.0294    1.40%
   QC value within limits for Pb 220.353  Recovery = 104.76%
Sb 206.836†           4430.3      1.955 mg/L       0.0161       1.955 mg/L       0.0161    0.82%
   QC value within limits for Sb 206.836  Recovery = 97.73%
Sb 217.582†            117.8      1.830 mg/L       0.0245       1.830 mg/L       0.0245    1.34%
   QC value within limits for Sb 217.582  Recovery = 91.49%
Se 196.026†           1287.4      1.117 mg/L       0.0125       1.117 mg/L       0.0125    1.11%
   QC value greater than the upper limit for Se 196.026  Recovery = 111.74%
Se 203.985†            673.1      1.123 mg/L       0.0075       1.123 mg/L       0.0075    0.66%
   QC value greater than the upper limit for Se 203.985  Recovery = 112.31%
Sn 189.927†           6569.0      4.691 mg/L       0.0531       4.691 mg/L       0.0531    1.13%
   QC value within limits for Sn 189.927  Recovery = 93.81%
Sn 235.485†            861.6      4.695 mg/L       0.0924       4.695 mg/L       0.0924    1.97%
   QC value within limits for Sn 235.485  Recovery = 93.89%
Sr 407.771†         229310.5      1.091 mg/L       0.0066       1.091 mg/L       0.0066    0.61%
   QC value within limits for Sr 407.771  Recovery = 109.13%
Sr 421.552†         289247.5      1.039 mg/L       0.0084       1.039 mg/L       0.0084    0.81%
   QC value within limits for Sr 421.552  Recovery = 103.88%
Sr 460.733†          12305.6      1.041 mg/L       0.0353       1.041 mg/L       0.0353    3.39%
   QC value within limits for Sr 460.733  Recovery = 104.07%
Ti 334.940†          22118.3      0.9253 mg/L      0.03331      0.9253 mg/L      0.03331   3.60%
   QC value within limits for Ti 334.940  Recovery = 92.53%
Ti 336.121†          18310.3      0.9302 mg/L      0.03276      0.9302 mg/L      0.03276   3.52%
   QC value within limits for Ti 336.121  Recovery = 93.02%
Ti 337.279†           7802.9      0.9225 mg/L      0.03564      0.9225 mg/L      0.03564   3.86%
   QC value within limits for Ti 337.279  Recovery = 92.25%
Tl 190.801†           4746.8      5.205 mg/L       0.0508       5.205 mg/L       0.0508    0.98%
   QC value within limits for Tl 190.801  Recovery = 104.10%
Tl 276.787†          20714.4      4.721 mg/L       0.0902       4.721 mg/L       0.0902    1.91%
   QC value within limits for Tl 276.787  Recovery = 94.42%
Tl 351.924†              0.0      0.00000 mg/L     0.000000     0.00000 mg/L     0.000000  0.00%
   QC value less than the lower limit for Tl 351.924  Recovery = 0.00%
V 290.880†            3705.4      1.009 mg/L       0.0406       1.009 mg/L       0.0406    4.02%
   QC value within limits for V 290.880  Recovery = 100.91%
V 309.310†            7059.6      1.062 mg/L       0.0341       1.062 mg/L       0.0341    3.21%
   QC value within limits for V 309.310  Recovery = 106.18%
V 310.230†          153425.0      0.9707 mg/L      0.01227      0.9707 mg/L      0.01227   1.26%
   QC value within limits for V 310.230  Recovery = 97.07%
Zn 202.548†           2255.2      0.9835 mg/L      0.01616      0.9835 mg/L      0.01616   1.64%
   QC value within limits for Zn 202.548  Recovery = 98.35%
Zn 206.200†            922.8      0.9922 mg/L      0.01412      0.9922 mg/L      0.01412   1.42%
   QC value within limits for Zn 206.200  Recovery = 99.22%
Zn 213.857†           4152.1      0.9953 mg/L      0.02586      0.9953 mg/L      0.02586   2.60%
   QC value within limits for Zn 213.857  Recovery = 99.53%
QC Failed.  Continue with analysis.
```

Sequence No.: 44
Sample ID: LCM2
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/9/01 1:09:07 PM
Sample Prep Volume:
Data Type: Original

Mean Data: LCM2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	267781.2						6982.59	2.61%
Y 360.073	3494431.4						44068.69	1.26%
Ag 328.068†	9971.8	0.05202	mg/L	0.001026	0.05202	mg/L	0.001026	1.97%
QC value within limits for Ag 328.068 Recovery = 104.05%								
Ag 338.289†	5500.2	0.05211	mg/L	0.000631	0.05211	mg/L	0.000631	1.21%
QC value within limits for Ag 338.289 Recovery = 104.22%								
Al 308.215†	21.6	0.02898	mg/L	0.000931	0.02898	mg/L	0.000931	3.21%
Al 394.401†	9.7	0.01072	mg/L	0.004382	0.01072	mg/L	0.004382	40.86%
Al 396.153†	71.5	0.02099	mg/L	0.002161	0.02099	mg/L	0.002161	10.30%
As 188.979†	0.8	0.01659	mg/L	0.016995	0.01659	mg/L	0.016995	102.46%
As 193.696†	0.7	0.00073	mg/L	0.001566	0.00073	mg/L	0.001566	213.49%
As 197.197†	0.4	0.01561	mg/L	0.033246	0.01561	mg/L	0.033246	212.97%
B 208.889†	5.2	0.02274	mg/L	0.010144	0.02274	mg/L	0.010144	44.62%
B 249.677†	31.3	0.02006	mg/L	0.001792	0.02006	mg/L	0.001792	8.93%
B 249.772†	66.8	0.02059	mg/L	0.001203	0.02059	mg/L	0.001203	5.84%
Ba 233.527†	3.0	0.00069	mg/L	0.000231	0.00069	mg/L	0.000231	33.39%
Ba 455.403†	59.2	0.00063	mg/L	0.000311	0.00063	mg/L	0.000311	49.02%
Ba 493.408†	147.0	0.00090	mg/L	0.000248	0.00090	mg/L	0.000248	27.49%
Be 234.861†	200.2	0.00052	mg/L	0.000075	0.00052	mg/L	0.000075	14.37%
Be 313.042†	47.8	0.00058	mg/L	0.000084	0.00058	mg/L	0.000084	14.51%
Be 313.107†	47.8	0.00058	mg/L	0.000084	0.00058	mg/L	0.000084	14.51%
Ca 315.887†	137.2	0.04035	mg/L	0.004659	0.04035	mg/L	0.004659	11.55%
Ca 317.933†	41.6	0.01197	mg/L	0.007794	0.01197	mg/L	0.007794	65.13%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	6.4	0.00017	mg/L	0.000085	0.00017	mg/L	0.000085	50.27%
Cd 228.802†	0.4	0.00009	mg/L	0.000492	0.00009	mg/L	0.000492	546.14%
Ce 413.380†	19.4	0.01030	mg/L	0.003868	0.01030	mg/L	0.003868	37.54%
Ce 413.764†	0.5	0.00029	mg/L	0.006307	0.00029	mg/L	0.006307	>999.9%
Ce 418.660†	-73.2	-0.01963	mg/L	0.005015	-0.01963	mg/L	0.005015	25.54%
Co 228.616†	24.8	0.00058	mg/L	0.000180	0.00058	mg/L	0.000180	31.20%
Co 230.786†	2.0	0.00189	mg/L	0.000727	0.00189	mg/L	0.000727	38.49%
Co 238.892†	0.4	0.00027	mg/L	0.001359	0.00027	mg/L	0.001359	503.93%
Cr 205.560†	0.2	0.00088	mg/L	0.003455	0.00088	mg/L	0.003455	391.35%
Cr 267.716†	15.2	0.00052	mg/L	0.000089	0.00052	mg/L	0.000089	17.19%
Cr 283.563†	-2.1	-0.00051	mg/L	0.000623	-0.00051	mg/L	0.000623	121.64%
Cu 224.700†	4.3	0.00562	mg/L	0.001325	0.00562	mg/L	0.001325	23.60%
Cu 324.752†	5.3	0.00048	mg/L	0.000322	0.00048	mg/L	0.000322	67.26%
Cu 327.393†	125.6	0.00182	mg/L	0.000437	0.00182	mg/L	0.000437	23.97%
Fe 238.204†	24.2	0.00626	mg/L	0.000394	0.00626	mg/L	0.000394	6.30%
Fe 239.562†	17.2	0.00577	mg/L	0.000563	0.00577	mg/L	0.000563	9.77%
Fe 259.939†	35.6	0.00544	mg/L	0.000468	0.00544	mg/L	0.000468	8.60%
Fe 273.955†	4.4	0.00469	mg/L	0.001342	0.00469	mg/L	0.001342	28.62%
K 766.490†	146.3	0.2530	mg/L	0.04761	0.2530	mg/L	0.04761	18.82%
Li 610.362†	22.9	0.00343	mg/L	0.011115	0.00343	mg/L	0.011115	324.34%
Li 670.784†	216.8	0.00411	mg/L	0.001197	0.00411	mg/L	0.001197	29.12%
Mg 279.077†	15.3	0.01715	mg/L	0.014176	0.01715	mg/L	0.014176	82.68%
Mg 280.271†	1130.8	0.00827	mg/L	0.000548	0.00827	mg/L	0.000548	6.63%
Mg 285.213†	35.5	0.00824	mg/L	0.000359	0.00824	mg/L	0.000359	4.36%
Mn 257.610†	20.6	0.00070	mg/L	0.000062	0.00070	mg/L	0.000062	8.85%
Mn 259.372†	31.8	0.00073	mg/L	0.000144	0.00073	mg/L	0.000144	19.83%
Mn 260.568†	13.7	0.00071	mg/L	0.000188	0.00071	mg/L	0.000188	26.35%
Mo 202.031†	1.3	0.00362	mg/L	0.002479	0.00362	mg/L	0.002479	68.47%
Mo 203.845†	1.6	0.00772	mg/L	0.008378	0.00772	mg/L	0.008378	108.57%
Mo 204.597†	11.5	0.00142	mg/L	0.000318	0.00142	mg/L	0.000318	22.46%
Na 588.995†	1359.2	0.2623	mg/L	0.01305	0.2623	mg/L	0.01305	4.98%
Na 589.592†	1508.5	0.2855	mg/L	0.03444	0.2855	mg/L	0.03444	12.06%
Ni 221.648†	0.7	0.00219	mg/L	0.001493	0.00219	mg/L	0.001493	68.33%
Ni 231.604†	3.0	0.00021	mg/L	0.000161	0.00021	mg/L	0.000161	78.59%
Ni 232.003†	3.0	0.00647	mg/L	0.002145	0.00647	mg/L	0.002145	33.17%
Pb 217.000†	1.6	0.01861	mg/L	0.026714	0.01861	mg/L	0.026714	143.52%
Pb 220.353†	6.0	0.00213	mg/L	0.000362	0.00213	mg/L	0.000362	17.00%
Sb 206.836†	7.1	0.00311	mg/L	0.000913	0.00311	mg/L	0.000913	29.33%
Sb 217.582†	0.2	0.00341	mg/L	0.010011	0.00341	mg/L	0.010011	294.00%
Se 196.026†	3.1	0.00270	mg/L	0.001615	0.00270	mg/L	0.001615	59.79%
Se 203.985†	1.1	0.00182	mg/L	0.003079	0.00182	mg/L	0.003079	169.42%
Sn 189.927†	16.8	0.01201	mg/L	0.001214	0.01201	mg/L	0.001214	10.11%
Sn 235.485†	11.8	0.06456	mg/L	0.010648	0.06456	mg/L	0.010648	16.49%
Sr 407.771†	129.3	0.00062	mg/L	0.000052	0.00062	mg/L	0.000052	8.39%

Sr 421.552†	262.9	0.00094 mg/L	0.000246	0.00094 mg/L	0.000246	26.04%
Sr 460.733†	-49.1	-0.00415 mg/L	0.008764	-0.00415 mg/L	0.008764	210.92%
Ti 334.940†	15.6	0.00065 mg/L	0.000136	0.00065 mg/L	0.000136	20.86%
Ti 336.121†	75.1	0.00382 mg/L	0.000540	0.00382 mg/L	0.000540	14.16%
Ti 337.279†	0.3	0.00004 mg/L	0.000343	0.00004 mg/L	0.000343	833.71%
Tl 190.801†	1.2	0.00135 mg/L	0.002556	0.00135 mg/L	0.002556	189.15%
Tl 276.787†	8.7	0.00199 mg/L	0.002533	0.00199 mg/L	0.002533	127.31%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	-9.7	-0.00264 mg/L	0.000291	-0.00264 mg/L	0.000291	11.02%
V 309.310†	-20.8	-0.00312 mg/L	0.000600	-0.00312 mg/L	0.000600	19.21%
V 310.230†	-2252.6	-0.01425 mg/L	0.000568	-0.01425 mg/L	0.000568	3.99%
Zn 202.548†	17.3	0.00755 mg/L	0.001504	0.00755 mg/L	0.001504	19.93%
Zn 206.200†	7.4	0.00794 mg/L	0.000200	0.00794 mg/L	0.000200	2.51%
Zn 213.857†	35.0	0.00842 mg/L	0.000327	0.00842 mg/L	0.000327	3.88%

All analytes passed QC.

Sequence No.: 45
Sample ID: Hi AQC
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 11/9/01 1:13:36 PM
Sample Prep Volume:
Data Type: Original

Mean Data: Hi AQC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	263226.1						865.49	0.33%
Y 360.073	3372806.8						22795.05	0.68%
Ag 328.068†	11.1	0.00006	mg/L	0.000290	0.00006	mg/L	0.000290	502.57%
Ag 338.289†	112.0	0.00106	mg/L	0.000163	0.00106	mg/L	0.000163	15.33%
Al 308.215†	74043.6	99.42	mg/L	0.288	99.42	mg/L	0.288	0.29%
QC value within limits for Al 308.215 Recovery = 99.42%								
Al 394.401†	93213.8	103.6	mg/L	0.37	103.6	mg/L	0.37	0.35%
Al 396.153†	345682.1	102.0	mg/L	0.33	102.0	mg/L	0.33	0.32%
As 188.979†	-0.3	-0.00717	mg/L	0.049403	-0.00717	mg/L	0.049403	689.19%
As 193.696†	8.0	0.00858	mg/L	0.006078	0.00858	mg/L	0.006078	70.82%
As 197.197†	0.3	0.01190	mg/L	0.041460	0.01190	mg/L	0.041460	348.53%
B 208.889†	4.1	0.01764	mg/L	0.007789	0.01764	mg/L	0.007789	44.15%
B 249.677†	13.3	0.00856	mg/L	0.002292	0.00856	mg/L	0.002292	26.78%
B 249.772†	505.3	0.1558	mg/L	0.00247	0.1558	mg/L	0.00247	1.58%
Ba 233.527†	3.0	0.00067	mg/L	0.000121	0.00067	mg/L	0.000121	17.97%
Ba 455.403†	42.6	0.00046	mg/L	0.000050	0.00046	mg/L	0.000050	11.00%
Ba 493.408†	139.6	0.00086	mg/L	0.000157	0.00086	mg/L	0.000157	18.35%
Be 234.861†	-96879.8	-0.2513	mg/L	0.00561	-0.2513	mg/L	0.00561	2.23%
Be 313.042†	46.9	0.00057	mg/L	0.000061	0.00057	mg/L	0.000061	10.74%
Be 313.107†	46.9	0.00057	mg/L	0.000061	0.00057	mg/L	0.000061	10.74%
Ca 315.887†	358698.7	105.5	mg/L	0.63	105.5	mg/L	0.63	0.60%
QC value within limits for Ca 315.887 Recovery = 105.49%								
Ca 317.933†	339344.6	97.54	mg/L	0.510	97.54	mg/L	0.510	0.52%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	56.3	0.00147	mg/L	0.000050	0.00147	mg/L	0.000050	3.40%
Cd 228.802†	-3.0	-0.00071	mg/L	0.000570	-0.00071	mg/L	0.000570	80.08%
Ce 413.380†	27.8	0.01472	mg/L	0.011766	0.01472	mg/L	0.011766	79.94%
Ce 413.764†	-5.4	-0.00288	mg/L	0.002692	-0.00288	mg/L	0.002692	93.37%
Ce 418.660†	-28.7	-0.00770	mg/L	0.010418	-0.00770	mg/L	0.010418	135.28%
Co 228.616†	-68.9	-0.00160	mg/L	0.000114	-0.00160	mg/L	0.000114	7.14%
Co 230.786†	-1.7	-0.00159	mg/L	0.001444	-0.00159	mg/L	0.001444	90.91%
Co 238.892†	34.3	0.02095	mg/L	0.012552	0.02095	mg/L	0.012552	59.90%
Cr 205.560†	-1.5	-0.00524	mg/L	0.000323	-0.00524	mg/L	0.000323	6.16%
Cr 267.716†	-26.8	-0.00092	mg/L	0.000156	-0.00092	mg/L	0.000156	16.97%
Cr 283.563†	32.2	0.00769	mg/L	0.000969	0.00769	mg/L	0.000969	12.60%
Cu 224.700†	3.1	0.00404	mg/L	0.000831	0.00404	mg/L	0.000831	20.54%
Cu 324.752†	-43.9	-0.00394	mg/L	0.001088	-0.00394	mg/L	0.001088	27.65%
Cu 327.393†	-158.8	-0.00230	mg/L	0.000119	-0.00230	mg/L	0.000119	5.18%
Fe 238.204†	366005.2	94.56	mg/L	0.540	94.56	mg/L	0.540	0.57%
Fe 239.562†	283224.5	94.73	mg/L	0.464	94.73	mg/L	0.464	0.49%
Fe 259.939†	640255.4	97.79	mg/L	0.484	97.79	mg/L	0.484	0.49%
Fe 273.955†	101549.7	107.6	mg/L	0.51	107.6	mg/L	0.51	0.47%
QC value within limits for Fe 273.955 Recovery = 107.59%								

K 766.490†	64651.5	111.8 mg/L	0.23	111.8 mg/L	0.23	0.21%
QC value greater than the upper limit for K 766.490 Recovery = 111.79%						
Li 610.362†	-186.2	-0.02786 mg/L	0.006028	-0.02786 mg/L	0.006028	21.63%
Li 670.784†	65.8	0.00125 mg/L	0.000669	0.00125 mg/L	0.000669	53.60%
Mg 279.077†	55639.8	62.18 mg/L	0.743	62.18 mg/L	0.743	1.20%
QC value within limits for Mg 279.077 Recovery = 103.63%						
Mg 280.271†	7910979.7	57.85 mg/L	0.321	57.85 mg/L	0.321	0.56%
Mg 285.213†	240042.1	55.71 mg/L	0.183	55.71 mg/L	0.183	0.33%
Mn 257.610†	69.8	0.00238 mg/L	0.000301	0.00238 mg/L	0.000301	12.65%
Mn 259.372†	4710.6	0.00024 mg/L	0.001555	0.00024 mg/L	0.001555	650.37%
Mn 260.568†	20.0	0.00104 mg/L	0.000054	0.00104 mg/L	0.000054	5.22%
Mo 202.031†	-8.0	-0.02192 mg/L	0.004681	-0.02192 mg/L	0.004681	21.35%
Mo 203.845†	3.2	0.01505 mg/L	0.007291	0.01505 mg/L	0.007291	48.43%
Mo 204.597†	17.6	0.00217 mg/L	0.000143	0.00217 mg/L	0.000143	6.60%
Na 588.995†	510743.9	98.56 mg/L	0.315	98.56 mg/L	0.315	0.32%
Na 589.592†	544175.3	103.0 mg/L	0.28	103.0 mg/L	0.28	0.27%
QC value within limits for Na 589.592 Recovery = 103.00%						
Ni 221.648†	0.2	0.00050 mg/L	0.001456	0.00050 mg/L	0.001456	292.19%
Ni 231.604†	23.5	0.00161 mg/L	0.000508	0.00161 mg/L	0.000508	31.46%
Ni 232.003†	6.1	0.01284 mg/L	0.006191	0.01284 mg/L	0.006191	48.22%
Pb 217.000†	-2.3	-0.02585 mg/L	0.018251	-0.02585 mg/L	0.018251	70.60%
Pb 220.353†	5.2	0.00186 mg/L	0.000918	0.00186 mg/L	0.000918	49.47%
Sb 206.836†	5.5	0.00242 mg/L	0.001397	0.00242 mg/L	0.001397	57.62%
Sb 217.582†	0.5	0.00796 mg/L	0.013839	0.00796 mg/L	0.013839	173.92%
Se 196.026†	-16.6	-0.01439 mg/L	0.001802	-0.01439 mg/L	0.001802	12.53%
Se 203.985†	7.8	0.01296 mg/L	0.009089	0.01296 mg/L	0.009089	70.15%
Sn 189.927†	-5.2	-0.00372 mg/L	0.000722	-0.00372 mg/L	0.000722	19.39%
Sn 235.485†	781.4	4.258 mg/L	0.0832	4.258 mg/L	0.0832	1.95%
Sr 407.771†	659.3	0.00314 mg/L	0.000050	0.00314 mg/L	0.000050	1.59%
Sr 421.552†	1033.9	0.00371 mg/L	0.000081	0.00371 mg/L	0.000081	2.18%
Sr 460.733†	-48.5	-0.00411 mg/L	0.008672	-0.00411 mg/L	0.008672	211.24%
Ti 334.940†	25.7	0.00107 mg/L	0.000080	0.00107 mg/L	0.000080	7.42%
Ti 336.121†	65.5	0.00333 mg/L	0.000107	0.00333 mg/L	0.000107	3.21%
Ti 337.279†	10.3	0.00122 mg/L	0.000033	0.00122 mg/L	0.000033	2.72%
Tl 190.801†	1.0	0.00114 mg/L	0.001499	0.00114 mg/L	0.001499	131.13%
Tl 276.787†	4963.6	1.131 mg/L	0.0188	1.131 mg/L	0.0188	1.66%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	16.7	0.00454 mg/L	0.001951	0.00454 mg/L	0.001951	43.02%
V 309.310†	-475.9	-0.07158 mg/L	0.003748	-0.07158 mg/L	0.003748	5.24%
V 310.230†	-1949.1	-0.01233 mg/L	0.000725	-0.01233 mg/L	0.000725	5.88%
Zn 202.548†	21.7	0.00561 mg/L	0.001589	0.00561 mg/L	0.001589	28.30%
Zn 206.200†	-2.9	-0.00315 mg/L	0.001420	-0.00315 mg/L	0.001420	45.04%
Zn 213.857†	69.1	0.00722 mg/L	0.001448	0.00722 mg/L	0.001448	20.04%

QC Failed. Continue with analysis.

Sequence No.: 46
Sample ID: wash
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 18
Date Collected: 11/9/01 1:18:23 PM

Sample Prep Volume:
Data Type: Original

Mean Data: wash

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	273665.0						3338.45	1.22%
Y 360.073	3520362.6						22748.73	0.65%
Ag 328.068†	24.0	0.00013	mg/L	0.000236	0.00013	mg/L	0.000236	188.44%
Ag 338.289†	23.8	0.00023	mg/L	0.000666	0.00023	mg/L	0.000666	295.70%
Al 308.215†	26.9	0.03613	mg/L	0.004603	0.03613	mg/L	0.004603	12.74%
Al 394.401†	16.4	0.01827	mg/L	0.004075	0.01827	mg/L	0.004075	22.30%
Al 396.153†	94.4	0.02755	mg/L	0.006615	0.02755	mg/L	0.006615	24.02%
As 188.979†	0.1	0.00173	mg/L	0.021446	0.00173	mg/L	0.021446	>999.9%
As 193.696†	1.2	0.00124	mg/L	0.000465	0.00124	mg/L	0.000465	37.63%
As 197.197†	0.5	0.01687	mg/L	0.026462	0.01687	mg/L	0.026462	156.85%
B 208.889†	4.0	0.01721	mg/L	0.010011	0.01721	mg/L	0.010011	58.18%
B 249.677†	14.3	0.00920	mg/L	0.002918	0.00920	mg/L	0.002918	31.71%
B 249.772†	20.2	0.00624	mg/L	0.001468	0.00624	mg/L	0.001468	23.53%
Ba 233.527†	0.7	0.00017	mg/L	0.000098	0.00017	mg/L	0.000098	58.51%

Ba 455.403†	10.3	0.00011 mg/L	0.000150	0.00011 mg/L	0.000150	136.13%
Ba 493.408†	19.0	0.00012 mg/L	0.000103	0.00012 mg/L	0.000103	88.16%
Be 234.861†	137.1	0.00036 mg/L	0.000047	0.00036 mg/L	0.000047	13.08%
Be 313.042†	15.2	0.00018 mg/L	0.000020	0.00018 mg/L	0.000020	10.82%
Be 313.107†	15.2	0.00018 mg/L	0.000020	0.00018 mg/L	0.000020	10.82%
Ca 315.887†	64.6	0.01899 mg/L	0.013001	0.01899 mg/L	0.013001	68.46%
Ca 317.933†	-4.7	-0.00135 mg/L	0.008863	-0.00135 mg/L	0.008863	658.62%
Cd 214.440†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
Cd 226.502†	-8.8	-0.00023 mg/L	0.000054	-0.00023 mg/L	0.000054	23.13%
Cd 228.802†	-0.8	-0.00020 mg/L	0.000270	-0.00020 mg/L	0.000270	135.70%
Ce 413.380†	15.1	0.00798 mg/L	0.004979	0.00798 mg/L	0.004979	62.40%
Ce 413.764†	-13.6	-0.00731 mg/L	0.004331	-0.00731 mg/L	0.004331	59.22%
Ce 418.660†	-44.7	-0.01198 mg/L	0.013916	-0.01198 mg/L	0.013916	116.17%
Co 228.616†	6.2	0.00014 mg/L	0.000186	0.00014 mg/L	0.000186	128.64%
Co 230.786†	0.4	0.00034 mg/L	0.000413	0.00034 mg/L	0.000413	122.84%
Co 238.892†	-0.7	-0.00042 mg/L	0.000268	-0.00042 mg/L	0.000268	64.25%
Cr 205.560†	-0.1	-0.00029 mg/L	0.001689	-0.00029 mg/L	0.001689	591.01%
Cr 267.716†	7.7	0.00026 mg/L	0.000090	0.00026 mg/L	0.000090	34.06%
Cr 283.563†	-5.9	-0.00141 mg/L	0.000974	-0.00141 mg/L	0.000974	69.01%
Cu 224.700†	-0.7	-0.00086 mg/L	0.000916	-0.00086 mg/L	0.000916	106.60%
Cu 324.752†	-52.9	-0.00474 mg/L	0.000271	-0.00474 mg/L	0.000271	5.73%
Cu 327.393†	-222.8	-0.00323 mg/L	0.000307	-0.00323 mg/L	0.000307	9.50%
Fe 238.204†	79.5	0.02054 mg/L	0.007511	0.02054 mg/L	0.007511	36.56%
Fe 239.562†	61.9	0.02069 mg/L	0.006612	0.02069 mg/L	0.006612	31.96%
Fe 259.939†	136.0	0.02078 mg/L	0.007852	0.02078 mg/L	0.007852	37.79%
Fe 273.955†	20.4	0.02159 mg/L	0.007547	0.02159 mg/L	0.007547	34.95%
K 766.490†	165.2	0.2857 mg/L	0.03968	0.2857 mg/L	0.03968	13.89%
Li 610.362†	60.4	0.00904 mg/L	0.004614	0.00904 mg/L	0.004614	51.05%
Li 670.784†	15.2	0.00029 mg/L	0.002063	0.00029 mg/L	0.002063	716.65%
Mg 279.077†	20.3	0.02270 mg/L	0.009513	0.02270 mg/L	0.009513	41.91%
Mg 280.271†	2584.9	0.01890 mg/L	0.005448	0.01890 mg/L	0.005448	28.82%
Mg 285.213†	70.4	0.01634 mg/L	0.004795	0.01634 mg/L	0.004795	29.34%
Mn 257.610†	-3.9	-0.00013 mg/L	0.000040	-0.00013 mg/L	0.000040	30.04%
Mn 259.372†	-7.1	-0.00021 mg/L	0.000195	-0.00021 mg/L	0.000195	94.03%
Mn 260.568†	-3.0	-0.00015 mg/L	0.000050	-0.00015 mg/L	0.000050	32.43%
Mo 202.031†	1.3	0.00360 mg/L	0.001419	0.00360 mg/L	0.001419	39.41%
Mo 203.845†	-1.0	-0.00454 mg/L	0.014600	-0.00454 mg/L	0.014600	321.90%
Mo 204.597†	-2.0	-0.00024 mg/L	0.000230	-0.00024 mg/L	0.000230	94.95%
Na 588.995†	1570.6	0.3031 mg/L	0.01861	0.3031 mg/L	0.01861	6.14%
Na 589.592†	1569.1	0.2970 mg/L	0.00184	0.2970 mg/L	0.00184	0.62%
Ni 221.648†	0.6	0.00210 mg/L	0.001175	0.00210 mg/L	0.001175	55.96%
Ni 231.604†	-5.9	-0.00041 mg/L	0.000241	-0.00041 mg/L	0.000241	59.38%
Ni 232.003†	2.8	0.00586 mg/L	0.002231	0.00586 mg/L	0.002231	38.07%
Pb 217.000†	-2.7	-0.03037 mg/L	0.010320	-0.03037 mg/L	0.010320	33.98%
Pb 220.353†	-2.3	-0.00084 mg/L	0.000255	-0.00084 mg/L	0.000255	30.53%
Sb 206.836†	2.0	0.00089 mg/L	0.000533	0.00089 mg/L	0.000533	59.90%
Sb 217.582†	0.3	0.00537 mg/L	0.015885	0.00537 mg/L	0.015885	295.88%
Se 196.026†	0.2	0.00019 mg/L	0.001058	0.00019 mg/L	0.001058	553.04%
Se 203.985†	0.3	0.00056 mg/L	0.003727	0.00056 mg/L	0.003727	669.93%
Sn 189.927†	0.4	0.00032 mg/L	0.000851	0.00032 mg/L	0.000851	266.59%
Sn 235.485†	10.9	0.05941 mg/L	0.010453	0.05941 mg/L	0.010453	17.60%
Sr 407.771†	-24.3	-0.00012 mg/L	0.000045	-0.00012 mg/L	0.000045	38.95%
Sr 421.552†	10.7	0.00004 mg/L	0.000144	0.00004 mg/L	0.000144	372.44%
Sr 460.733†	-45.9	-0.00388 mg/L	0.002820	-0.00388 mg/L	0.002820	72.66%
Ti 334.940†	0.2	0.00001 mg/L	0.000069	0.00001 mg/L	0.000069	962.40%
Ti 336.121†	45.8	0.00233 mg/L	0.000138	0.00233 mg/L	0.000138	5.91%
Ti 337.279†	-5.7	-0.00068 mg/L	0.000098	-0.00068 mg/L	0.000098	14.45%
Tl 190.801†	-1.1	-0.00116 mg/L	0.001805	-0.00116 mg/L	0.001805	155.30%
Tl 276.787†	-1.1	-0.00026 mg/L	0.002847	-0.00026 mg/L	0.002847	>999.9%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	-12.7	-0.00346 mg/L	0.000896	-0.00346 mg/L	0.000896	25.90%
V 309.310†	-21.2	-0.00319 mg/L	0.000554	-0.00319 mg/L	0.000554	17.39%
V 310.230†	-2566.7	-0.01624 mg/L	0.000404	-0.01624 mg/L	0.000404	2.49%
Zn 202.548†	-0.2	-0.00010 mg/L	0.001043	-0.00010 mg/L	0.001043	>999.9%
Zn 206.200†	0.1	0.00013 mg/L	0.000503	0.00013 mg/L	0.000503	395.02%
Zn 213.857†	-0.5	-0.00013 mg/L	0.000585	-0.00013 mg/L	0.000585	458.19%

Sequence No.: 47 Autosampler Location: 38
Sample ID: 2002AH16S02 Date Collected: 11/9/01 1:22:56 PM

Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: 2002AH16S02

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	266537.4						2011.68	0.75%
Y 360.073	3527276.4						35312.11	1.00%
Ag 328.068†	96.2	0.00050	mg/L	0.000486	0.00050	mg/L	0.000486	96.87%
Ag 338.289†	7.6	0.00007	mg/L	0.000953	0.00007	mg/L	0.000953	>999.9%
Al 308.215†	1258.0	1.689	mg/L	0.0203	1.689	mg/L	0.0203	1.20%
Al 394.401†	1557.9	1.731	mg/L	0.0227	1.731	mg/L	0.0227	1.31%
Al 396.153†	5950.3	1.755	mg/L	0.0260	1.755	mg/L	0.0260	1.48%
As 188.979†	-0.8	-0.01742	mg/L	0.033086	-0.01742	mg/L	0.033086	189.94%
As 193.696†	5.6	0.00599	mg/L	0.000392	0.00599	mg/L	0.000392	6.53%
As 197.197†	0.5	0.01757	mg/L	0.024785	0.01757	mg/L	0.024785	141.05%
B 208.889†	97.9	0.4255	mg/L	0.01083	0.4255	mg/L	0.01083	2.55%
B 249.677†	652.0	0.4185	mg/L	0.00430	0.4185	mg/L	0.00430	1.03%
B 249.772†	1375.3	0.4241	mg/L	0.00302	0.4241	mg/L	0.00302	0.71%
Ba 233.527†	1503.5	0.3420	mg/L	0.00326	0.3420	mg/L	0.00326	0.95%
Ba 455.403†	34342.3	0.3680	mg/L	0.00163	0.3680	mg/L	0.00163	0.44%
Ba 493.408†	59037.1	0.3624	mg/L	0.00196	0.3624	mg/L	0.00196	0.54%
Be 234.861†	-713.1	-0.00185	mg/L	0.000060	-0.00185	mg/L	0.000060	3.25%
Be 313.042†	32.5	0.00039	mg/L	0.000030	0.00039	mg/L	0.000030	7.54%
Be 313.107†	32.5	0.00039	mg/L	0.000030	0.00039	mg/L	0.000030	7.54%
Ca 315.887†	28872.3	8.491	mg/L	0.1800	8.491	mg/L	0.1800	2.12%
Ca 317.933†	27312.7	7.851	mg/L	0.1306	7.851	mg/L	0.1306	1.66%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	30.0	0.00078	mg/L	0.000029	0.00078	mg/L	0.000029	3.66%
Cd 228.802†	1.2	0.00028	mg/L	0.000253	0.00028	mg/L	0.000253	89.06%
Ce 413.380†	17.4	0.00922	mg/L	0.014249	0.00922	mg/L	0.014249	154.52%
Ce 413.764†	2.6	0.00141	mg/L	0.001930	0.00141	mg/L	0.001930	136.50%
Ce 418.660†	-29.5	-0.00790	mg/L	0.012696	-0.00790	mg/L	0.012696	160.64%
Co 228.616†	35.2	0.00082	mg/L	0.000316	0.00082	mg/L	0.000316	38.56%
Co 230.786†	1.4	0.00129	mg/L	0.001405	0.00129	mg/L	0.001405	108.87%
Co 238.892†	0.5	0.00032	mg/L	0.001015	0.00032	mg/L	0.001015	320.11%
Cr 205.560†	1.8	0.00638	mg/L	0.003485	0.00638	mg/L	0.003485	54.66%
Cr 267.716†	220.6	0.00757	mg/L	0.000063	0.00757	mg/L	0.000063	0.84%
Cr 283.563†	29.0	0.00692	mg/L	0.000900	0.00692	mg/L	0.000900	13.00%
Cu 224.700†	54.2	0.07021	mg/L	0.003031	0.07021	mg/L	0.003031	4.32%
Cu 324.752†	745.0	0.06677	mg/L	0.001168	0.06677	mg/L	0.001168	1.75%
Cu 327.393†	4886.4	0.07090	mg/L	0.001172	0.07090	mg/L	0.001172	1.65%
Fe 238.204†	3932.2	1.016	mg/L	0.0186	1.016	mg/L	0.0186	1.83%
Fe 239.562†	3024.7	1.012	mg/L	0.0297	1.012	mg/L	0.0297	2.94%
Fe 259.939†	6859.4	1.048	mg/L	0.0230	1.048	mg/L	0.0230	2.19%
Fe 273.955†	1058.3	1.121	mg/L	0.0153	1.121	mg/L	0.0153	1.36%
K 766.490†	1680.5	2.906	mg/L	0.0385	2.906	mg/L	0.0385	1.33%
Li 610.362†	-6.1	-0.00092	mg/L	0.004658	-0.00092	mg/L	0.004658	506.72%
Li 670.784†	33.2	0.00063	mg/L	0.001432	0.00063	mg/L	0.001432	227.54%
Mg 279.077†	1231.8	1.377	mg/L	0.0092	1.377	mg/L	0.0092	0.67%
Mg 280.271†	186649.6	1.365	mg/L	0.0052	1.365	mg/L	0.0052	0.38%
Mg 285.213†	5750.8	1.335	mg/L	0.0259	1.335	mg/L	0.0259	1.94%
Mn 257.610†	1091.9	0.03724	mg/L	0.000319	0.03724	mg/L	0.000319	0.86%
Mn 259.372†	1625.9	0.03713	mg/L	0.000285	0.03713	mg/L	0.000285	0.77%
Mn 260.568†	665.8	0.03461	mg/L	0.000306	0.03461	mg/L	0.000306	0.88%
Mo 202.031†	-0.0	-0.00008	mg/L	0.001816	-0.00008	mg/L	0.001816	>999.9%
Mo 203.845†	-0.8	-0.00386	mg/L	0.009694	-0.00386	mg/L	0.009694	251.32%
Mo 204.597†	-1.9	-0.00024	mg/L	0.000160	-0.00024	mg/L	0.000160	67.79%
Na 588.995†	259599.3	50.10	mg/L	0.302	50.10	mg/L	0.302	0.60%
Na 589.592†	273090.5	51.69	mg/L	0.267	51.69	mg/L	0.267	0.52%
Ni 221.648†	-21.5	-0.07009	mg/L	0.003592	-0.07009	mg/L	0.003592	5.12%
Ni 231.604†	46.6	0.00321	mg/L	0.000324	0.00321	mg/L	0.000324	10.10%
Ni 232.003†	2.8	0.00593	mg/L	0.004304	0.00593	mg/L	0.004304	72.58%
Pb 217.000†	0.3	0.00305	mg/L	0.010471	0.00305	mg/L	0.010471	343.23%
Pb 220.353†	54.0	0.01931	mg/L	0.001919	0.01931	mg/L	0.001919	9.94%
Sb 206.836†	12.8	0.00564	mg/L	0.001917	0.00564	mg/L	0.001917	33.96%
Sb 217.582†	-1.2	-0.01915	mg/L	0.009302	-0.01915	mg/L	0.009302	48.57%
Se 196.026†	6.9	0.00599	mg/L	0.003243	0.00599	mg/L	0.003243	54.14%

Se 203.985†	-2.7	-0.00449 mg/L	0.002093	-0.00449 mg/L	0.002093	46.64%
Sn 189.927†	5.8	0.00416 mg/L	0.000614	0.00416 mg/L	0.000614	14.78%
Sn 235.485†	24.1	0.1315 mg/L	0.00239	0.1315 mg/L	0.00239	1.82%
Sr 407.771†	2960.2	0.01409 mg/L	0.000424	0.01409 mg/L	0.000424	3.01%
Sr 421.552†	3808.5	0.01368 mg/L	0.000302	0.01368 mg/L	0.000302	2.21%
Sr 460.733†	88.0	0.00744 mg/L	0.012026	0.00744 mg/L	0.012026	161.55%
Ti 334.940†	536.9	0.02246 mg/L	0.000438	0.02246 mg/L	0.000438	1.95%
Ti 336.121†	496.3	0.02521 mg/L	0.000566	0.02521 mg/L	0.000566	2.24%
Ti 337.279†	184.3	0.02179 mg/L	0.000944	0.02179 mg/L	0.000944	4.33%
Tl 190.801†	0.1	0.00016 mg/L	0.001563	0.00016 mg/L	0.001563	965.85%
Tl 276.787†	109.6	0.02498 mg/L	0.011997	0.02498 mg/L	0.011997	48.02%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	-5.7	-0.00156 mg/L	0.000176	-0.00156 mg/L	0.000176	11.35%
V 309.310†	-12.4	-0.00186 mg/L	0.001091	-0.00186 mg/L	0.001091	58.51%
V 310.230†	-2080.6	-0.01316 mg/L	0.000694	-0.01316 mg/L	0.000694	5.27%
Zn 202.548†	442.0	0.1937 mg/L	0.00432	0.1937 mg/L	0.00432	2.23%
Zn 206.200†	182.4	0.1961 mg/L	0.00152	0.1961 mg/L	0.00152	0.77%
Zn 213.857†	813.2	0.1960 mg/L	0.00374	0.1960 mg/L	0.00374	1.91%

Sequence No.: 48
Sample ID: 2002AH16S03
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 39
Date Collected: 11/9/01 1:27:24 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 2002AH16S03

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	262238.4						4466.62	1.70%
Y 360.073	3521913.5						6549.28	0.19%
Ag 328.068†	145.3	0.00076	mg/L	0.000250	0.00076	mg/L	0.000250	32.95%
Ag 338.289†	54.8	0.00052	mg/L	0.000384	0.00052	mg/L	0.000384	73.97%
Al 308.215†	1072.2	1.440	mg/L	0.0233	1.440	mg/L	0.0233	1.62%
Al 394.401†	1318.8	1.465	mg/L	0.0172	1.465	mg/L	0.0172	1.18%
Al 396.153†	5062.9	1.493	mg/L	0.0111	1.493	mg/L	0.0111	0.75%
As 188.979†	-0.6	-0.01417	mg/L	0.019005	-0.01417	mg/L	0.019005	134.15%
As 193.696†	3.7	0.00398	mg/L	0.001825	0.00398	mg/L	0.001825	45.90%
As 197.197†	-0.1	-0.00467	mg/L	0.036275	-0.00467	mg/L	0.036275	776.80%
B 208.889†	84.4	0.3670	mg/L	0.02795	0.3670	mg/L	0.02795	7.61%
B 249.677†	556.4	0.3572	mg/L	0.00390	0.3572	mg/L	0.00390	1.09%
B 249.772†	1171.2	0.3612	mg/L	0.00571	0.3612	mg/L	0.00571	1.58%
Ba 233.527†	1264.3	0.2876	mg/L	0.00412	0.2876	mg/L	0.00412	1.43%
Ba 455.403†	28906.0	0.3097	mg/L	0.00470	0.3097	mg/L	0.00470	1.52%
Ba 493.408†	49509.5	0.3039	mg/L	0.00377	0.3039	mg/L	0.00377	1.24%
Be 234.861†	-956.0	-0.00248	mg/L	0.000180	-0.00248	mg/L	0.000180	7.28%
Be 313.042†	29.8	0.00036	mg/L	0.000045	0.00036	mg/L	0.000045	12.45%
Be 313.107†	29.8	0.00036	mg/L	0.000045	0.00036	mg/L	0.000045	12.45%
Ca 315.887†	42583.0	12.52	mg/L	0.175	12.52	mg/L	0.175	1.40%
Ca 317.933†	40261.6	11.57	mg/L	0.193	11.57	mg/L	0.193	1.67%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	21.9	0.00057	mg/L	0.000122	0.00057	mg/L	0.000122	21.33%
Cd 228.802†	1.4	0.00033	mg/L	0.000174	0.00033	mg/L	0.000174	53.34%
Ce 413.380†	6.6	0.00348	mg/L	0.004945	0.00348	mg/L	0.004945	142.18%
Ce 413.764†	10.0	0.00541	mg/L	0.006988	0.00541	mg/L	0.006988	129.14%
Ce 418.660†	-104.4	-0.02800	mg/L	0.008917	-0.02800	mg/L	0.008917	31.84%
Co 228.616†	49.3	0.00115	mg/L	0.000229	0.00115	mg/L	0.000229	20.01%
Co 230.786†	1.1	0.00104	mg/L	0.001363	0.00104	mg/L	0.001363	131.60%
Co 238.892†	0.8	0.00047	mg/L	0.001240	0.00047	mg/L	0.001240	265.89%
Cr 205.560†	1.8	0.00648	mg/L	0.003018	0.00648	mg/L	0.003018	46.57%
Cr 267.716†	203.7	0.00699	mg/L	0.000094	0.00699	mg/L	0.000094	1.35%
Cr 283.563†	26.4	0.00631	mg/L	0.000406	0.00631	mg/L	0.000406	6.42%
Cu 224.700†	477.2	0.6177	mg/L	0.00842	0.6177	mg/L	0.00842	1.36%
Cu 324.752†	6589.9	0.5906	mg/L	0.00773	0.5906	mg/L	0.00773	1.31%
Cu 327.393†	41403.8	0.6008	mg/L	0.00768	0.6008	mg/L	0.00768	1.28%
Fe 238.204†	4801.5	1.241	mg/L	0.0184	1.241	mg/L	0.0184	1.49%
Fe 239.562†	3699.9	1.237	mg/L	0.0192	1.237	mg/L	0.0192	1.55%
Fe 259.939†	8377.4	1.280	mg/L	0.0185	1.280	mg/L	0.0185	1.45%
Fe 273.955†	1314.9	1.393	mg/L	0.0247	1.393	mg/L	0.0247	1.77%

K 766.490†	1527.4	2.641	mg/L	0.0242	2.641	mg/L	0.0242	0.92%
Li 610.362†	-39.7	-0.00594	mg/L	0.018150	-0.00594	mg/L	0.018150	305.75%
Li 670.784†	155.2	0.00294	mg/L	0.001533	0.00294	mg/L	0.001533	52.10%
Mg 279.077†	1181.3	1.320	mg/L	0.0195	1.320	mg/L	0.0195	1.48%
Mg 280.271†	177523.9	1.298	mg/L	0.0066	1.298	mg/L	0.0066	0.51%
Mg 285.213†	5467.5	1.269	mg/L	0.0211	1.269	mg/L	0.0211	1.67%
Mn 257.610†	1584.9	0.05406	mg/L	0.000573	0.05406	mg/L	0.000573	1.06%
Mn 259.372†	2329.0	0.05338	mg/L	0.000729	0.05338	mg/L	0.000729	1.37%
Mn 260.568†	965.8	0.05020	mg/L	0.000702	0.05020	mg/L	0.000702	1.40%
Mo 202.031†	0.9	0.00236	mg/L	0.000986	0.00236	mg/L	0.000986	41.76%
Mo 203.845†	1.4	0.00689	mg/L	0.008330	0.00689	mg/L	0.008330	120.88%
Mo 204.597†	-4.5	-0.00056	mg/L	0.000589	-0.00056	mg/L	0.000589	106.10%
Na 588.995†	236318.3	45.60	mg/L	0.242	45.60	mg/L	0.242	0.53%
Na 589.592†	248164.7	46.97	mg/L	0.288	46.97	mg/L	0.288	0.61%
Ni 221.648†	-17.4	-0.05670	mg/L	0.001775	-0.05670	mg/L	0.001775	3.13%
Ni 231.604†	46.0	0.00317	mg/L	0.000189	0.00317	mg/L	0.000189	5.97%
Ni 232.003†	1.9	0.00414	mg/L	0.001292	0.00414	mg/L	0.001292	31.26%
Pb 217.000†	0.5	0.00610	mg/L	0.019356	0.00610	mg/L	0.019356	317.50%
Pb 220.353†	45.0	0.01608	mg/L	0.001929	0.01608	mg/L	0.001929	11.99%
Sb 206.836†	10.6	0.00467	mg/L	0.001789	0.00467	mg/L	0.001789	38.32%
Sb 217.582†	0.5	0.00732	mg/L	0.018536	0.00732	mg/L	0.018536	253.06%
Se 196.026†	7.7	0.00669	mg/L	0.002009	0.00669	mg/L	0.002009	30.04%
Se 203.985†	-1.5	-0.00257	mg/L	0.004467	-0.00257	mg/L	0.004467	173.74%
Sn 189.927†	6.4	0.00455	mg/L	0.001039	0.00455	mg/L	0.001039	22.83%
Sn 235.485†	19.2	0.1048	mg/L	0.02050	0.1048	mg/L	0.02050	19.55%
Sr 407.771†	3570.9	0.01699	mg/L	0.000266	0.01699	mg/L	0.000266	1.57%
Sr 421.552†	4578.6	0.01644	mg/L	0.000588	0.01644	mg/L	0.000588	3.58%
Sr 460.733†	203.9	0.01724	mg/L	0.004538	0.01724	mg/L	0.004538	26.32%
Ti 334.940†	482.6	0.02019	mg/L	0.000513	0.02019	mg/L	0.000513	2.54%
Ti 336.121†	460.7	0.02340	mg/L	0.001964	0.02340	mg/L	0.001964	8.39%
Ti 337.279†	170.9	0.02020	mg/L	0.000527	0.02020	mg/L	0.000527	2.61%
Tl 190.801†	-1.6	-0.00180	mg/L	0.001728	-0.00180	mg/L	0.001728	95.78%
Tl 276.787†	90.1	0.02054	mg/L	0.007250	0.02054	mg/L	0.007250	35.29%
Tl 351.924†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
V 290.880†	-1.8	-0.00050	mg/L	0.001165	-0.00050	mg/L	0.001165	234.18%
V 309.310†	-12.2	-0.00184	mg/L	0.000262	-0.00184	mg/L	0.000262	14.24%
V 310.230†	-2168.3	-0.01372	mg/L	0.000286	-0.01372	mg/L	0.000286	2.08%
Zn 202.548†	432.0	0.1852	mg/L	0.00259	0.1852	mg/L	0.00259	1.40%
Zn 206.200†	171.4	0.1843	mg/L	0.00236	0.1843	mg/L	0.00236	1.28%
Zn 213.857†	781.5	0.1880	mg/L	0.00248	0.1880	mg/L	0.00248	1.32%

Sequence No.: 49 **Autosampler Location: 40**
Sample ID: 2002AH17S01 **Date Collected: 11/9/01 1:31:52 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: 2002AH17S01

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	263168.9						3915.02	1.49%
Y 360.073	3499599.5						34515.54	0.99%
Ag 328.068†	-0.7	0.00000	mg/L	0.000213	0.00000	mg/L	0.000213	>999.9%
Ag 338.289†	-35.8	-0.00034	mg/L	0.000405	-0.00034	mg/L	0.000405	119.35%
Al 308.215†	1032.5	1.386	mg/L	0.0244	1.386	mg/L	0.0244	1.76%
Al 394.401†	1283.6	1.426	mg/L	0.0296	1.426	mg/L	0.0296	2.07%
Al 396.153†	4812.0	1.420	mg/L	0.0271	1.420	mg/L	0.0271	1.91%
As 188.979†	-0.7	-0.01603	mg/L	0.018441	-0.01603	mg/L	0.018441	115.05%
As 193.696†	1.2	0.00131	mg/L	0.000845	0.00131	mg/L	0.000845	64.62%
As 197.197†	0.6	0.02105	mg/L	0.025902	0.02105	mg/L	0.025902	123.06%
B 208.889†	94.1	0.4090	mg/L	0.00102	0.4090	mg/L	0.00102	0.25%
B 249.677†	617.5	0.3964	mg/L	0.00655	0.3964	mg/L	0.00655	1.65%
B 249.772†	1297.7	0.4002	mg/L	0.00780	0.4002	mg/L	0.00780	1.95%
Ba 233.527†	1578.7	0.3591	mg/L	0.00691	0.3591	mg/L	0.00691	1.92%
Ba 455.403†	35863.7	0.3843	mg/L	0.00125	0.3843	mg/L	0.00125	0.33%
Ba 493.408†	61545.4	0.3778	mg/L	0.00208	0.3778	mg/L	0.00208	0.55%
Be 234.861†	-608.1	-0.00158	mg/L	0.000095	-0.00158	mg/L	0.000095	6.04%
Be 313.042†	22.8	0.00028	mg/L	0.000009	0.00028	mg/L	0.000009	3.35%

Be 313.107†	22.8	0.00028 mg/L	0.000009	0.00028 mg/L	0.000009	3.35%
Ca 315.887†	34894.7	10.26 mg/L	0.188	10.26 mg/L	0.188	1.83%
Ca 317.933†	32944.7	9.470 mg/L	0.1518	9.470 mg/L	0.1518	1.60%
Cd 214.440†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
Cd 226.502†	6.1	0.00016 mg/L	0.000051	0.00016 mg/L	0.000051	32.31%
Cd 228.802†	0.4	0.00009 mg/L	0.000256	0.00009 mg/L	0.000256	292.23%
Ce 413.380†	-16.4	-0.00867 mg/L	0.014799	-0.00867 mg/L	0.014799	170.63%
Ce 413.764†	2.0	0.00109 mg/L	0.002640	0.00109 mg/L	0.002640	241.48%
Ce 418.660†	-40.9	-0.01096 mg/L	0.005392	-0.01096 mg/L	0.005392	49.17%
Co 228.616†	41.1	0.00096 mg/L	0.000067	0.00096 mg/L	0.000067	7.05%
Co 230.786†	-0.1	-0.00005 mg/L	0.000176	-0.00005 mg/L	0.000176	331.81%
Co 238.892†	1.4	0.00083 mg/L	0.000562	0.00083 mg/L	0.000562	67.32%
Cr 205.560†	2.5	0.00908 mg/L	0.000591	0.00908 mg/L	0.000591	6.50%
Cr 267.716†	208.3	0.00714 mg/L	0.000162	0.00714 mg/L	0.000162	2.27%
Cr 283.563†	24.2	0.00579 mg/L	0.000524	0.00579 mg/L	0.000524	9.06%
Cu 224.700†	219.0	0.2835 mg/L	0.00300	0.2835 mg/L	0.00300	1.06%
Cu 324.752†	3003.4	0.2692 mg/L	0.00467	0.2692 mg/L	0.00467	1.73%
Cu 327.393†	19299.7	0.2800 mg/L	0.00218	0.2800 mg/L	0.00218	0.78%
Fe 238.204†	3223.2	0.8328 mg/L	0.01306	0.8328 mg/L	0.01306	1.57%
Fe 239.562†	2494.8	0.8344 mg/L	0.02601	0.8344 mg/L	0.02601	3.12%
Fe 259.939†	5626.9	0.8594 mg/L	0.01153	0.8594 mg/L	0.01153	1.34%
Fe 273.955†	888.9	0.9417 mg/L	0.02068	0.9417 mg/L	0.02068	2.20%
K 766.490†	1684.5	2.913 mg/L	0.0453	2.913 mg/L	0.0453	1.55%
Li 610.362†	-28.7	-0.00429 mg/L	0.007297	-0.00429 mg/L	0.007297	170.15%
Li 670.784†	76.4	0.00145 mg/L	0.000981	0.00145 mg/L	0.000981	67.70%
Mg 279.077†	1393.0	1.557 mg/L	0.0246	1.557 mg/L	0.0246	1.58%
Mg 280.271†	207786.9	1.519 mg/L	0.0006	1.519 mg/L	0.0006	0.04%
Mg 285.213†	6374.9	1.480 mg/L	0.0293	1.480 mg/L	0.0293	1.98%
Mn 257.610†	938.2	0.03200 mg/L	0.000477	0.03200 mg/L	0.000477	1.49%
Mn 259.372†	1384.6	0.03165 mg/L	0.000477	0.03165 mg/L	0.000477	1.51%
Mn 260.568†	570.2	0.02964 mg/L	0.000770	0.02964 mg/L	0.000770	2.60%
Mo 202.031†	-1.7	-0.00465 mg/L	0.004116	-0.00465 mg/L	0.004116	88.57%
Mo 203.845†	-2.5	-0.01171 mg/L	0.008626	-0.01171 mg/L	0.008626	73.65%
Mo 204.597†	-6.6	-0.00081 mg/L	0.000364	-0.00081 mg/L	0.000364	44.85%
Na 588.995†	269709.6	52.05 mg/L	0.010	52.05 mg/L	0.010	0.02%
Na 589.592†	283897.4	53.74 mg/L	0.004	53.74 mg/L	0.004	0.01%
Ni 221.648†	-20.4	-0.06668 mg/L	0.004394	-0.06668 mg/L	0.004394	6.59%
Ni 231.604†	35.7	0.00246 mg/L	0.000130	0.00246 mg/L	0.000130	5.31%
Ni 232.003†	2.6	0.00544 mg/L	0.005266	0.00544 mg/L	0.005266	96.80%
Pb 217.000†	-0.9	-0.01021 mg/L	0.017909	-0.01021 mg/L	0.017909	175.42%
Pb 220.353†	36.3	0.01297 mg/L	0.001542	0.01297 mg/L	0.001542	11.89%
Sb 206.836†	19.8	0.00873 mg/L	0.001058	0.00873 mg/L	0.001058	12.12%
Sb 217.582†	0.0	0.00066 mg/L	0.014410	0.00066 mg/L	0.014410	>999.9%
Se 196.026†	67.3	0.05841 mg/L	0.002620	0.05841 mg/L	0.002620	4.48%
Se 203.985†	28.1	0.04686 mg/L	0.002977	0.04686 mg/L	0.002977	6.35%
Sn 189.927†	4.2	0.00301 mg/L	0.000801	0.00301 mg/L	0.000801	26.59%
Sn 235.485†	24.9	0.1358 mg/L	0.01149	0.1358 mg/L	0.01149	8.47%
Sr 407.771†	3489.5	0.01661 mg/L	0.000272	0.01661 mg/L	0.000272	1.64%
Sr 421.552†	4445.9	0.01597 mg/L	0.000184	0.01597 mg/L	0.000184	1.15%
Sr 460.733†	207.3	0.01753 mg/L	0.003116	0.01753 mg/L	0.003116	17.77%
Ti 334.940†	413.0	0.01728 mg/L	0.000510	0.01728 mg/L	0.000510	2.95%
Ti 336.121†	393.8	0.02000 mg/L	0.000578	0.02000 mg/L	0.000578	2.89%
Ti 337.279†	149.2	0.01764 mg/L	0.000334	0.01764 mg/L	0.000334	1.90%
Tl 190.801†	-1.4	-0.00155 mg/L	0.002572	-0.00155 mg/L	0.002572	166.39%
Tl 276.787†	64.3	0.01466 mg/L	0.005460	0.01466 mg/L	0.005460	37.26%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	3.0	0.00082 mg/L	0.000242	0.00082 mg/L	0.000242	29.40%
V 309.310†	-22.0	-0.00331 mg/L	0.001588	-0.00331 mg/L	0.001588	47.96%
V 310.230†	-2226.1	-0.01408 mg/L	0.000423	-0.01408 mg/L	0.000423	3.00%
Zn 202.548†	378.9	0.1644 mg/L	0.00604	0.1644 mg/L	0.00604	3.67%
Zn 206.200†	154.4	0.1660 mg/L	0.00314	0.1660 mg/L	0.00314	1.89%
Zn 213.857†	702.4	0.1691 mg/L	0.00218	0.1691 mg/L	0.00218	1.29%

Sequence No.: 50
Sample ID: 2002AH17D01
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 41
Date Collected: 11/9/01 1:36:22 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 2002AH17D01

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	260768.5						1173.00	0.45%
Y 360.073	3519349.0						39388.97	1.12%
Ag 328.068†	208.8	0.00109	mg/L	0.000185	0.00109	mg/L	0.000185	16.98%
Ag 338.289†	32.4	0.00031	mg/L	0.000401	0.00031	mg/L	0.000401	130.62%
Al 308.215†	995.0	1.336	mg/L	0.0054	1.336	mg/L	0.0054	0.41%
Al 394.401†	1231.5	1.368	mg/L	0.0044	1.368	mg/L	0.0044	0.32%
Al 396.153†	4672.1	1.378	mg/L	0.0109	1.378	mg/L	0.0109	0.79%
As 188.979†	0.6	0.01288	mg/L	0.046266	0.01288	mg/L	0.046266	359.17%
As 193.696†	2.0	0.00210	mg/L	0.002187	0.00210	mg/L	0.002187	104.11%
As 197.197†	0.1	0.00386	mg/L	0.016001	0.00386	mg/L	0.016001	414.90%
B 208.889†	112.6	0.4893	mg/L	0.00615	0.4893	mg/L	0.00615	1.26%
B 249.677†	712.3	0.4572	mg/L	0.00344	0.4572	mg/L	0.00344	0.75%
B 249.772†	1495.7	0.4612	mg/L	0.00209	0.4612	mg/L	0.00209	0.45%
Ba 233.527†	1685.4	0.3834	mg/L	0.00247	0.3834	mg/L	0.00247	0.64%
Ba 455.403†	38544.4	0.4130	mg/L	0.00220	0.4130	mg/L	0.00220	0.53%
Ba 493.408†	66090.4	0.4057	mg/L	0.00258	0.4057	mg/L	0.00258	0.64%
Be 234.861†	-286.1	-0.00074	mg/L	0.000103	-0.00074	mg/L	0.000103	13.92%
Be 313.042†	17.7	0.00021	mg/L	0.000039	0.00021	mg/L	0.000039	18.39%
Be 313.107†	17.7	0.00021	mg/L	0.000039	0.00021	mg/L	0.000039	18.39%
Ca 315.887†	22122.0	6.506	mg/L	0.1033	6.506	mg/L	0.1033	1.59%
Ca 317.933†	20907.6	6.010	mg/L	0.0878	6.010	mg/L	0.0878	1.46%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	0.3	0.00001	mg/L	0.000038	0.00001	mg/L	0.000038	491.76%
Cd 228.802†	-1.2	-0.00027	mg/L	0.000405	-0.00027	mg/L	0.000405	147.51%
Ce 413.380†	-13.8	-0.00734	mg/L	0.021440	-0.00734	mg/L	0.021440	292.10%
Ce 413.764†	8.1	0.00436	mg/L	0.003791	0.00436	mg/L	0.003791	86.96%
Ce 418.660†	-30.0	-0.00805	mg/L	0.011595	-0.00805	mg/L	0.011595	143.96%
Co 228.616†	31.0	0.00072	mg/L	0.000340	0.00072	mg/L	0.000340	47.08%
Co 230.786†	1.3	0.00122	mg/L	0.001833	0.00122	mg/L	0.001833	149.92%
Co 238.892†	1.7	0.00107	mg/L	0.000949	0.00107	mg/L	0.000949	88.75%
Cr 205.560†	1.4	0.00498	mg/L	0.000801	0.00498	mg/L	0.000801	16.10%
Cr 267.716†	223.4	0.00766	mg/L	0.000119	0.00766	mg/L	0.000119	1.55%
Cr 283.563†	30.4	0.00726	mg/L	0.001246	0.00726	mg/L	0.001246	17.16%
Cu 224.700†	1760.9	2.279	mg/L	0.0071	2.279	mg/L	0.0071	0.31%
Cu 324.752†	24043.5	2.155	mg/L	0.0448	2.155	mg/L	0.0448	2.08%
Cu 327.393†	154811.8	2.246	mg/L	0.0128	2.246	mg/L	0.0128	0.57%
Fe 238.204†	2177.8	0.5627	mg/L	0.00399	0.5627	mg/L	0.00399	0.71%
Fe 239.562†	1679.8	0.5618	mg/L	0.00180	0.5618	mg/L	0.00180	0.32%
Fe 259.939†	3796.2	0.5798	mg/L	0.00901	0.5798	mg/L	0.00901	1.55%
Fe 273.955†	598.5	0.6341	mg/L	0.00562	0.6341	mg/L	0.00562	0.89%
K 766.490†	1617.7	2.797	mg/L	0.0247	2.797	mg/L	0.0247	0.88%
Li 610.362†	-56.9	-0.00852	mg/L	0.012750	-0.00852	mg/L	0.012750	149.73%
Li 670.784†	-5.6	-0.00011	mg/L	0.000708	-0.00011	mg/L	0.000708	671.47%
Mg 279.077†	1259.2	1.407	mg/L	0.0103	1.407	mg/L	0.0103	0.73%
Mg 280.271†	189548.9	1.386	mg/L	0.0071	1.386	mg/L	0.0071	0.51%
Mg 285.213†	5750.6	1.335	mg/L	0.0289	1.335	mg/L	0.0289	2.16%
Mn 257.610†	489.7	0.01670	mg/L	0.000094	0.01670	mg/L	0.000094	0.57%
Mn 259.372†	731.9	0.01657	mg/L	0.000051	0.01657	mg/L	0.000051	0.31%
Mn 260.568†	294.5	0.01531	mg/L	0.000235	0.01531	mg/L	0.000235	1.54%
Mo 202.031†	-1.0	-0.00267	mg/L	0.002050	-0.00267	mg/L	0.002050	76.72%
Mo 203.845†	-2.2	-0.01035	mg/L	0.014613	-0.01035	mg/L	0.014613	141.19%
Mo 204.597†	-7.8	-0.00096	mg/L	0.000166	-0.00096	mg/L	0.000166	17.24%
Na 588.995†	275967.1	53.25	mg/L	0.296	53.25	mg/L	0.296	0.56%
Na 589.592†	291561.8	55.19	mg/L	0.328	55.19	mg/L	0.328	0.59%
Ni 221.648†	-20.9	-0.06820	mg/L	0.003807	-0.06820	mg/L	0.003807	5.58%
Ni 231.604†	28.0	0.00193	mg/L	0.000228	0.00193	mg/L	0.000228	11.84%
Ni 232.003†	3.2	0.00681	mg/L	0.003773	0.00681	mg/L	0.003773	55.40%
Pb 217.000†	1.5	0.01679	mg/L	0.008543	0.01679	mg/L	0.008543	50.89%
Pb 220.353†	36.1	0.01290	mg/L	0.000539	0.01290	mg/L	0.000539	4.18%
Sb 206.836†	7.5	0.00330	mg/L	0.001346	0.00330	mg/L	0.001346	40.75%
Sb 217.582†	-0.2	-0.00256	mg/L	0.005204	-0.00256	mg/L	0.005204	203.58%
Se 196.026†	45.8	0.03974	mg/L	0.000877	0.03974	mg/L	0.000877	2.21%
Se 203.985†	17.6	0.02940	mg/L	0.009794	0.02940	mg/L	0.009794	33.32%
Sn 189.927†	2.8	0.00201	mg/L	0.000665	0.00201	mg/L	0.000665	33.12%
Sn 235.485†	22.6	0.1234	mg/L	0.01091	0.1234	mg/L	0.01091	8.84%
Sr 407.771†	2202.9	0.01048	mg/L	0.000246	0.01048	mg/L	0.000246	2.35%

Sr 421.552†	2848.4	0.01023 mg/L	0.000315	0.01023 mg/L	0.000315	3.08%
Sr 460.733†	168.7	0.01427 mg/L	0.005344	0.01427 mg/L	0.005344	37.45%
Ti 334.940†	318.2	0.01331 mg/L	0.000284	0.01331 mg/L	0.000284	2.13%
Ti 336.121†	325.3	0.01653 mg/L	0.001127	0.01653 mg/L	0.001127	6.82%
Ti 337.279†	120.3	0.01422 mg/L	0.000362	0.01422 mg/L	0.000362	2.54%
Tl 190.801†	-0.8	-0.00088 mg/L	0.002289	-0.00088 mg/L	0.002289	259.50%
Tl 276.787†	38.8	0.00883 mg/L	0.008658	0.00883 mg/L	0.008658	98.03%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	4.8	0.00130 mg/L	0.000413	0.00130 mg/L	0.000413	31.87%
V 309.310†	-16.7	-0.00251 mg/L	0.003449	-0.00251 mg/L	0.003449	137.27%
V 310.230†	-2508.8	-0.01587 mg/L	0.000258	-0.01587 mg/L	0.000258	1.63%
Zn 202.548†	432.7	0.1733 mg/L	0.00094	0.1733 mg/L	0.00094	0.54%
Zn 206.200†	161.0	0.1731 mg/L	0.00169	0.1731 mg/L	0.00169	0.98%
Zn 213.857†	737.2	0.1765 mg/L	0.00066	0.1765 mg/L	0.00066	0.37%

Sequence No.: 51
Sample ID: 2002AH17D01 Dup
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 42
Date Collected: 11/9/01 1:40:52 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 2002AH17D01 Dup

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	267240.6						1829.70	0.68%
Y 360.073	3503782.1						44876.59	1.28%
Ag 328.068†	253.8	0.00132	mg/L	0.000403	0.00132	mg/L	0.000403	30.46%
Ag 338.289†	108.0	0.00102	mg/L	0.000455	0.00102	mg/L	0.000455	44.50%
Al 308.215†	936.0	1.257	mg/L	0.0106	1.257	mg/L	0.0106	0.84%
Al 394.401†	1167.0	1.296	mg/L	0.0118	1.296	mg/L	0.0118	0.91%
Al 396.153†	4390.9	1.295	mg/L	0.0184	1.295	mg/L	0.0184	1.42%
As 188.979†	0.1	0.00276	mg/L	0.042084	0.00276	mg/L	0.042084	>999.9%
As 193.696†	1.0	0.00109	mg/L	0.002290	0.00109	mg/L	0.002290	210.67%
As 197.197†	-0.4	-0.01529	mg/L	0.009186	-0.01529	mg/L	0.009186	60.10%
B 208.889†	96.1	0.4176	mg/L	0.00138	0.4176	mg/L	0.00138	0.33%
B 249.677†	628.3	0.4033	mg/L	0.00397	0.4033	mg/L	0.00397	0.99%
B 249.772†	1321.4	0.4075	mg/L	0.00488	0.4075	mg/L	0.00488	1.20%
Ba 233.527†	1503.8	0.3421	mg/L	0.00379	0.3421	mg/L	0.00379	1.11%
Ba 455.403†	34930.5	0.3743	mg/L	0.00193	0.3743	mg/L	0.00193	0.52%
Ba 493.408†	59920.9	0.3678	mg/L	0.00250	0.3678	mg/L	0.00250	0.68%
Be 234.861†	-355.6	-0.00092	mg/L	0.000070	-0.00092	mg/L	0.000070	7.55%
Be 313.042†	11.2	0.00014	mg/L	0.000032	0.00014	mg/L	0.000032	23.50%
Be 313.107†	11.2	0.00014	mg/L	0.000032	0.00014	mg/L	0.000032	23.50%
Ca 315.887†	21549.0	6.337	mg/L	0.0449	6.337	mg/L	0.0449	0.71%
Ca 317.933†	20288.2	5.832	mg/L	0.0405	5.832	mg/L	0.0405	0.69%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	0.8	0.00002	mg/L	0.000089	0.00002	mg/L	0.000089	411.84%
Cd 228.802†	0.8	0.00019	mg/L	0.000214	0.00019	mg/L	0.000214	110.55%
Ce 413.380†	-15.1	-0.00798	mg/L	0.032062	-0.00798	mg/L	0.032062	401.62%
Ce 413.764†	6.1	0.00328	mg/L	0.002446	0.00328	mg/L	0.002446	74.65%
Ce 418.660†	-15.4	-0.00413	mg/L	0.003743	-0.00413	mg/L	0.003743	90.54%
Co 228.616†	37.5	0.00087	mg/L	0.000304	0.00087	mg/L	0.000304	34.83%
Co 230.786†	-0.9	-0.00087	mg/L	0.000746	-0.00087	mg/L	0.000746	85.39%
Co 238.892†	0.8	0.00047	mg/L	0.000520	0.00047	mg/L	0.000520	110.61%
Cr 205.560†	1.8	0.00642	mg/L	0.003694	0.00642	mg/L	0.003694	57.54%
Cr 267.716†	186.9	0.00641	mg/L	0.000114	0.00641	mg/L	0.000114	1.78%
Cr 283.563†	21.2	0.00507	mg/L	0.000678	0.00507	mg/L	0.000678	13.36%
Cu 224.700†	1691.2	2.189	mg/L	0.0248	2.189	mg/L	0.0248	1.13%
Cu 324.752†	23461.6	2.103	mg/L	0.0141	2.103	mg/L	0.0141	0.67%
Cu 327.393†	150291.6	2.181	mg/L	0.0238	2.181	mg/L	0.0238	1.09%
Fe 238.204†	2117.4	0.5470	mg/L	0.00429	0.5470	mg/L	0.00429	0.78%
Fe 239.562†	1623.0	0.5428	mg/L	0.00465	0.5428	mg/L	0.00465	0.86%
Fe 259.939†	3695.0	0.5644	mg/L	0.00603	0.5644	mg/L	0.00603	1.07%
Fe 273.955†	581.0	0.6156	mg/L	0.00655	0.6156	mg/L	0.00655	1.06%
K 766.490†	1615.2	2.793	mg/L	0.0137	2.793	mg/L	0.0137	0.49%
Li 610.362†	25.2	0.00377	mg/L	0.008011	0.00377	mg/L	0.008011	212.74%
Li 670.784†	53.0	0.00100	mg/L	0.001599	0.00100	mg/L	0.001599	159.16%
Mg 279.077†	1196.6	1.337	mg/L	0.0195	1.337	mg/L	0.0195	1.46%

Mg 280.271†	182665.4	1.336 mg/L	0.0046	1.336 mg/L	0.0046	0.35%
Mg 285.213†	5532.6	1.284 mg/L	0.0096	1.284 mg/L	0.0096	0.75%
Mn 257.610†	474.4	0.01618 mg/L	0.000090	0.01618 mg/L	0.000090	0.55%
Mn 259.372†	709.3	0.01604 mg/L	0.000201	0.01604 mg/L	0.000201	1.25%
Mn 260.568†	289.2	0.01503 mg/L	0.000226	0.01503 mg/L	0.000226	1.50%
Mo 202.031†	0.6	0.00171 mg/L	0.004570	0.00171 mg/L	0.004570	267.05%
Mo 203.845†	0.0	0.00007 mg/L	0.005586	0.00007 mg/L	0.005586	>999.9%
Mo 204.597†	-8.1	-0.00100 mg/L	0.000315	-0.00100 mg/L	0.000315	31.43%
Na 588.995†	260859.8	50.34 mg/L	0.318	50.34 mg/L	0.318	0.63%
Na 589.592†	275726.9	52.19 mg/L	0.267	52.19 mg/L	0.267	0.51%
Ni 221.648†	-18.0	-0.05878 mg/L	0.002695	-0.05878 mg/L	0.002695	4.58%
Ni 231.604†	26.9	0.00185 mg/L	0.000127	0.00185 mg/L	0.000127	6.85%
Ni 232.003†	1.4	0.00299 mg/L	0.000650	0.00299 mg/L	0.000650	21.72%
Pb 217.000†	-0.5	-0.00613 mg/L	0.025408	-0.00613 mg/L	0.025408	414.33%
Pb 220.353†	36.8	0.01314 mg/L	0.000339	0.01314 mg/L	0.000339	2.58%
Sb 206.836†	8.9	0.00395 mg/L	0.000725	0.00395 mg/L	0.000725	18.36%
Sb 217.582†	-1.2	-0.01803 mg/L	0.019302	-0.01803 mg/L	0.019302	107.07%
Se 196.026†	46.2	0.04010 mg/L	0.002847	0.04010 mg/L	0.002847	7.10%
Se 203.985†	21.3	0.03551 mg/L	0.003122	0.03551 mg/L	0.003122	8.79%
Sn 189.927†	2.2	0.00157 mg/L	0.001199	0.00157 mg/L	0.001199	76.35%
Sn 235.485†	20.8	0.1136 mg/L	0.01847	0.1136 mg/L	0.01847	16.26%
Sr 407.771†	2112.9	0.01005 mg/L	0.000075	0.01005 mg/L	0.000075	0.74%
Sr 421.552†	2705.1	0.00972 mg/L	0.000100	0.00972 mg/L	0.000100	1.02%
Sr 460.733†	153.8	0.01301 mg/L	0.005507	0.01301 mg/L	0.005507	42.33%
Ti 334.940†	315.4	0.01319 mg/L	0.000307	0.01319 mg/L	0.000307	2.32%
Ti 336.121†	315.4	0.01602 mg/L	0.000734	0.01602 mg/L	0.000734	4.58%
Ti 337.279†	117.1	0.01384 mg/L	0.000333	0.01384 mg/L	0.000333	2.41%
Tl 190.801†	-2.6	-0.00283 mg/L	0.001931	-0.00283 mg/L	0.001931	68.15%
Tl 276.787†	31.3	0.00714 mg/L	0.005958	0.00714 mg/L	0.005958	83.41%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	6.9	0.00187 mg/L	0.000420	0.00187 mg/L	0.000420	22.45%
V 309.310†	-26.7	-0.00402 mg/L	0.000404	-0.00402 mg/L	0.000404	10.06%
V 310.230†	-2306.4	-0.01459 mg/L	0.000846	-0.01459 mg/L	0.000846	5.80%
Zn 202.548†	380.9	0.1512 mg/L	0.00264	0.1512 mg/L	0.00264	1.75%
Zn 206.200†	141.8	0.1524 mg/L	0.00231	0.1524 mg/L	0.00231	1.52%
Zn 213.857†	648.0	0.1551 mg/L	0.00132	0.1551 mg/L	0.00132	0.85%

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Sequence No.: 52
Sample ID: 2002AH17S02
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 43
Date Collected: 11/9/01 1:45:24 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 2002AH17S02

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	263994.2						1989.72	0.75%
Y 360.073	3534105.2						3884.11	0.11%
Ag 328.068†	16.5	0.00009	mg/L	0.000087	0.00009	mg/L	0.000087	101.01%
Ag 338.289†	3.0	0.00003	mg/L	0.000216	0.00003	mg/L	0.000216	757.56%
Al 308.215†	891.4	1.197	mg/L	0.0132	1.197	mg/L	0.0132	1.10%
Al 394.401†	1111.3	1.234	mg/L	0.0129	1.234	mg/L	0.0129	1.05%
Al 396.153†	4198.3	1.239	mg/L	0.0177	1.239	mg/L	0.0177	1.43%
As 188.979†	0.3	0.00557	mg/L	0.029219	0.00557	mg/L	0.029219	524.71%
As 193.696†	1.0	0.00107	mg/L	0.000677	0.00107	mg/L	0.000677	63.15%
As 197.197†	0.5	0.01727	mg/L	0.005957	0.01727	mg/L	0.005957	34.50%
B 208.889†	97.8	0.4252	mg/L	0.00777	0.4252	mg/L	0.00777	1.83%
B 249.677†	639.9	0.4108	mg/L	0.00421	0.4108	mg/L	0.00421	1.03%
B 249.772†	1332.9	0.4110	mg/L	0.00652	0.4110	mg/L	0.00652	1.59%
Ba 233.527†	1433.1	0.3260	mg/L	0.00364	0.3260	mg/L	0.00364	1.12%
Ba 455.403†	33046.5	0.3541	mg/L	0.00381	0.3541	mg/L	0.00381	1.08%
Ba 493.408†	56542.1	0.3471	mg/L	0.00328	0.3471	mg/L	0.00328	0.94%
Be 234.861†	-273.5	-0.00071	mg/L	0.000073	-0.00071	mg/L	0.000073	10.27%
Be 313.042†	9.8	0.00012	mg/L	0.000051	0.00012	mg/L	0.000051	42.78%
Be 313.107†	9.8	0.00012	mg/L	0.000051	0.00012	mg/L	0.000051	42.78%
Ca 315.887†	20674.2	6.080	mg/L	0.0379	6.080	mg/L	0.0379	0.62%
Ca 317.933†	19498.2	5.605	mg/L	0.0518	5.605	mg/L	0.0518	0.92%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%

Cd 226.502†	-4.9	-0.00013 mg/L	0.000057	-0.00013 mg/L	0.000057	44.28%
Cd 228.802†	-0.9	-0.00020 mg/L	0.000424	-0.00020 mg/L	0.000424	207.86%
Ce 413.380†	17.8	0.00946 mg/L	0.020850	0.00946 mg/L	0.020850	220.44%
Ce 413.764†	15.2	0.00820 mg/L	0.005072	0.00820 mg/L	0.005072	61.88%
Ce 418.660†	7.3	0.00196 mg/L	0.009789	0.00196 mg/L	0.009789	499.42%
Co 228.616†	33.4	0.00078 mg/L	0.000462	0.00078 mg/L	0.000462	59.47%
Co 230.786†	0.8	0.00074 mg/L	0.001190	0.00074 mg/L	0.001190	161.44%
Co 238.892†	1.9	0.00116 mg/L	0.000951	0.00116 mg/L	0.000951	82.09%
Cr 205.560†	1.1	0.00404 mg/L	0.001845	0.00404 mg/L	0.001845	45.63%
Cr 267.716†	174.8	0.00600 mg/L	0.000085	0.00600 mg/L	0.000085	1.42%
Cr 283.563†	21.4	0.00511 mg/L	0.000454	0.00511 mg/L	0.000454	8.87%
Cu 224.700†	95.4	0.1235 mg/L	0.00339	0.1235 mg/L	0.00339	2.74%
Cu 324.752†	1343.0	0.1204 mg/L	0.00133	0.1204 mg/L	0.00133	1.10%
Cu 327.393†	8759.4	0.1271 mg/L	0.00355	0.1271 mg/L	0.00355	2.79%
Fe 238.204†	1885.0	0.4870 mg/L	0.00474	0.4870 mg/L	0.00474	0.97%
Fe 239.562†	1450.2	0.4851 mg/L	0.00647	0.4851 mg/L	0.00647	1.33%
Fe 259.939†	3305.8	0.5049 mg/L	0.00368	0.5049 mg/L	0.00368	0.73%
Fe 273.955†	522.0	0.5531 mg/L	0.00408	0.5531 mg/L	0.00408	0.74%
K 766.490†	1433.2	2.478 mg/L	0.0670	2.478 mg/L	0.0670	2.70%
Li 610.362†	133.3	0.01994 mg/L	0.021498	0.01994 mg/L	0.021498	107.82%
Li 670.784†	136.5	0.00259 mg/L	0.001399	0.00259 mg/L	0.001399	54.05%
Mg 279.077†	1143.9	1.278 mg/L	0.0134	1.278 mg/L	0.0134	1.05%
Mg 280.271†	172046.1	1.258 mg/L	0.0094	1.258 mg/L	0.0094	0.75%
Mg 285.213†	5262.9	1.221 mg/L	0.0118	1.221 mg/L	0.0118	0.97%
Mn 257.610†	504.3	0.01720 mg/L	0.000164	0.01720 mg/L	0.000164	0.95%
Mn 259.372†	754.5	0.01719 mg/L	0.000238	0.01719 mg/L	0.000238	1.38%
Mn 260.568†	307.1	0.01596 mg/L	0.000432	0.01596 mg/L	0.000432	2.71%
Mo 202.031†	0.3	0.00072 mg/L	0.005702	0.00072 mg/L	0.005702	797.47%
Mo 203.845†	-3.4	-0.01600 mg/L	0.005410	-0.01600 mg/L	0.005410	33.81%
Mo 204.597†	-9.6	-0.00119 mg/L	0.000391	-0.00119 mg/L	0.000391	32.94%
Na 588.995†	244784.3	47.24 mg/L	0.388	47.24 mg/L	0.388	0.82%
Na 589.592†	259013.0	49.03 mg/L	0.479	49.03 mg/L	0.479	0.98%
Ni 221.648†	-18.7	-0.06092 mg/L	0.001777	-0.06092 mg/L	0.001777	2.92%
Ni 231.604†	31.2	0.00215 mg/L	0.000342	0.00215 mg/L	0.000342	15.93%
Ni 232.003†	3.2	0.00676 mg/L	0.002651	0.00676 mg/L	0.002651	39.23%
Pb 217.000†	-1.4	-0.01626 mg/L	0.007067	-0.01626 mg/L	0.007067	43.47%
Pb 220.353†	17.6	0.00629 mg/L	0.000642	0.00629 mg/L	0.000642	10.20%
Sb 206.836†	5.6	0.00245 mg/L	0.001167	0.00245 mg/L	0.001167	47.59%
Sb 217.582†	-0.6	-0.00988 mg/L	0.007789	-0.00988 mg/L	0.007789	78.81%
Se 196.026†	4.3	0.00375 mg/L	0.001810	0.00375 mg/L	0.001810	48.27%
Se 203.985†	-2.5	-0.00413 mg/L	0.002216	-0.00413 mg/L	0.002216	53.69%
Sn 189.927†	2.7	0.00190 mg/L	0.000796	0.00190 mg/L	0.000796	42.00%
Sn 235.485†	24.9	0.1355 mg/L	0.01505	0.1355 mg/L	0.01505	11.11%
Sr 407.771†	1701.1	0.00810 mg/L	0.000600	0.00810 mg/L	0.000600	7.42%
Sr 421.552†	2195.8	0.00789 mg/L	0.000444	0.00789 mg/L	0.000444	5.63%
Sr 460.733†	125.2	0.01059 mg/L	0.000614	0.01059 mg/L	0.000614	5.80%
Ti 334.940†	293.4	0.01227 mg/L	0.000173	0.01227 mg/L	0.000173	1.41%
Ti 336.121†	304.8	0.01548 mg/L	0.000576	0.01548 mg/L	0.000576	3.72%
Ti 337.279†	109.3	0.01292 mg/L	0.001482	0.01292 mg/L	0.001482	11.48%
Tl 190.801†	-0.8	-0.00086 mg/L	0.001762	-0.00086 mg/L	0.001762	205.10%
Tl 276.787†	62.0	0.01414 mg/L	0.008536	0.01414 mg/L	0.008536	60.38%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	1.3	0.00035 mg/L	0.001806	0.00035 mg/L	0.001806	519.42%
V 309.310†	-29.3	-0.00440 mg/L	0.000403	-0.00440 mg/L	0.000403	9.16%
V 310.230†	-2398.5	-0.01517 mg/L	0.001370	-0.01517 mg/L	0.001370	9.03%
Zn 202.548†	324.1	0.1415 mg/L	0.00310	0.1415 mg/L	0.00310	2.19%
Zn 206.200†	135.0	0.1452 mg/L	0.00199	0.1452 mg/L	0.00199	1.37%
Zn 213.857†	611.5	0.1474 mg/L	0.00385	0.1474 mg/L	0.00385	2.61%

Sequence No.: 53
Sample ID: 2002AH17S03
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 44
Date Collected: 11/9/01 1:49:55 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 2002AH17S03

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD

Y 371.029	269363.1				4008.79	1.49%
Y 360.073	3555280.2				70392.14	1.98%
Ag 328.068†	440.5	0.00230 mg/L	0.000377	0.00230 mg/L	0.000377	16.39%
Ag 338.289†	181.2	0.00172 mg/L	0.000806	0.00172 mg/L	0.000806	46.96%
Al 308.215†	883.2	1.186 mg/L	0.0203	1.186 mg/L	0.0203	1.72%
Al 394.401†	1084.6	1.205 mg/L	0.0275	1.205 mg/L	0.0275	2.28%
Al 396.153†	4146.1	1.223 mg/L	0.0209	1.223 mg/L	0.0209	1.71%
As 188.979†	-0.0	-0.00030 mg/L	0.006849	-0.00030 mg/L	0.006849	>999.9%
As 193.696†	3.5	0.00379 mg/L	0.003205	0.00379 mg/L	0.003205	84.62%
As 197.197†	0.6	0.02048 mg/L	0.041260	0.02048 mg/L	0.041260	201.48%
B 208.889†	91.1	0.3960 mg/L	0.01289	0.3960 mg/L	0.01289	3.26%
B 249.677†	593.9	0.3812 mg/L	0.01119	0.3812 mg/L	0.01119	2.94%
B 249.772†	1248.7	0.3850 mg/L	0.00889	0.3850 mg/L	0.00889	2.31%
Ba 233.527†	1314.7	0.2991 mg/L	0.00561	0.2991 mg/L	0.00561	1.88%
Ba 455.403†	29961.9	0.3211 mg/L	0.00669	0.3211 mg/L	0.00669	2.08%
Ba 493.408†	51245.6	0.3146 mg/L	0.00633	0.3146 mg/L	0.00633	2.01%
Be 234.861†	-630.0	-0.00163 mg/L	0.000031	-0.00163 mg/L	0.000031	1.89%
Be 313.042†	21.3	0.00026 mg/L	0.000031	0.00026 mg/L	0.000031	12.07%
Be 313.107†	21.3	0.00026 mg/L	0.000031	0.00026 mg/L	0.000031	12.07%
Ca 315.887†	43368.9	12.75 mg/L	0.248	12.75 mg/L	0.248	1.94%
Ca 317.933†	41031.1	11.79 mg/L	0.204	11.79 mg/L	0.204	1.73%
Cd 214.440†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
Cd 226.502†	3.1	0.00008 mg/L	0.000134	0.00008 mg/L	0.000134	164.92%
Cd 228.802†	-0.7	-0.00016 mg/L	0.000491	-0.00016 mg/L	0.000491	301.50%
Ce 413.380†	13.6	0.00721 mg/L	0.020392	0.00721 mg/L	0.020392	282.67%
Ce 413.764†	5.6	0.00303 mg/L	0.003536	0.00303 mg/L	0.003536	116.59%
Ce 418.660†	-47.5	-0.01273 mg/L	0.001533	-0.01273 mg/L	0.001533	12.05%
Co 228.616†	36.5	0.00085 mg/L	0.000255	0.00085 mg/L	0.000255	30.08%
Co 230.786†	0.8	0.00072 mg/L	0.001011	0.00072 mg/L	0.001011	140.87%
Co 238.892†	1.5	0.00094 mg/L	0.000351	0.00094 mg/L	0.000351	37.42%
Cr 205.560†	1.2	0.00432 mg/L	0.002661	0.00432 mg/L	0.002661	61.57%
Cr 267.716†	188.0	0.00645 mg/L	0.000143	0.00645 mg/L	0.000143	2.21%
Cr 283.563†	22.9	0.00547 mg/L	0.001420	0.00547 mg/L	0.001420	25.94%
Cu 224.700†	1393.4	1.804 mg/L	0.0293	1.804 mg/L	0.0293	1.62%
Cu 324.752†	18978.5	1.701 mg/L	0.0413	1.701 mg/L	0.0413	2.43%
Cu 327.393†	123771.0	1.796 mg/L	0.0143	1.796 mg/L	0.0143	0.80%
Fe 238.204†	3319.9	0.8577 mg/L	0.00832	0.8577 mg/L	0.00832	0.97%
Fe 239.562†	2562.6	0.8571 mg/L	0.02094	0.8571 mg/L	0.02094	2.44%
Fe 259.939†	5782.6	0.8832 mg/L	0.01373	0.8832 mg/L	0.01373	1.56%
Fe 273.955†	918.9	0.9736 mg/L	0.01869	0.9736 mg/L	0.01869	1.92%
K 766.490†	1314.3	2.273 mg/L	0.0775	2.273 mg/L	0.0775	3.41%
Li 610.362†	-73.9	-0.01105 mg/L	0.002482	-0.01105 mg/L	0.002482	22.46%
Li 670.784†	56.7	0.00108 mg/L	0.001161	0.00108 mg/L	0.001161	107.99%
Mg 279.077†	1200.2	1.341 mg/L	0.0164	1.341 mg/L	0.0164	1.22%
Mg 280.271†	181073.2	1.324 mg/L	0.0098	1.324 mg/L	0.0098	0.74%
Mg 285.213†	5483.0	1.273 mg/L	0.0204	1.273 mg/L	0.0204	1.60%
Mn 257.610†	1064.4	0.03630 mg/L	0.000730	0.03630 mg/L	0.000730	2.01%
Mn 259.372†	1582.6	0.03625 mg/L	0.000459	0.03625 mg/L	0.000459	1.27%
Mn 260.568†	651.1	0.03384 mg/L	0.000619	0.03384 mg/L	0.000619	1.83%
Mo 202.031†	-0.4	-0.00096 mg/L	0.007110	-0.00096 mg/L	0.007110	741.57%
Mo 203.845†	-1.7	-0.00793 mg/L	0.004603	-0.00793 mg/L	0.004603	58.05%
Mo 204.597†	-12.1	-0.00149 mg/L	0.000266	-0.00149 mg/L	0.000266	17.87%
Na 588.995†	239822.6	46.28 mg/L	0.306	46.28 mg/L	0.306	0.66%
Na 589.592†	252654.1	47.82 mg/L	0.335	47.82 mg/L	0.335	0.70%
Ni 221.648†	-18.2	-0.05923 mg/L	0.001593	-0.05923 mg/L	0.001593	2.69%
Ni 231.604†	30.9	0.00212 mg/L	0.000358	0.00212 mg/L	0.000358	16.86%
Ni 232.003†	3.2	0.00681 mg/L	0.003966	0.00681 mg/L	0.003966	58.24%
Pb 217.000†	1.1	0.01251 mg/L	0.020880	0.01251 mg/L	0.020880	166.89%
Pb 220.353†	24.4	0.00872 mg/L	0.001300	0.00872 mg/L	0.001300	14.91%
Sb 206.836†	7.5	0.00330 mg/L	0.001238	0.00330 mg/L	0.001238	37.51%
Sb 217.582†	0.6	0.00910 mg/L	0.005439	0.00910 mg/L	0.005439	59.77%
Se 196.026†	5.2	0.00454 mg/L	0.001387	0.00454 mg/L	0.001387	30.53%
Se 203.985†	-3.9	-0.00645 mg/L	0.003607	-0.00645 mg/L	0.003607	55.89%
Sn 189.927†	4.8	0.00339 mg/L	0.001360	0.00339 mg/L	0.001360	40.09%
Sn 235.485†	22.0	0.1198 mg/L	0.00993	0.1198 mg/L	0.00993	8.29%
Sr 407.771†	3122.5	0.01486 mg/L	0.000242	0.01486 mg/L	0.000242	1.63%
Sr 421.552†	3985.9	0.01432 mg/L	0.000548	0.01432 mg/L	0.000548	3.83%
Sr 460.733†	79.3	0.00671 mg/L	0.012993	0.00671 mg/L	0.012993	193.76%
Ti 334.940†	281.6	0.01178 mg/L	0.000208	0.01178 mg/L	0.000208	1.76%
Ti 336.121†	300.7	0.01528 mg/L	0.001855	0.01528 mg/L	0.001855	12.14%

Ti 337.279†	99.4	0.01175 mg/L	0.000547	0.01175 mg/L	0.000547	4.66%
Tl 190.801†	-2.6	-0.00283 mg/L	0.001836	-0.00283 mg/L	0.001836	64.93%
Tl 276.787†	65.2	0.01486 mg/L	0.012016	0.01486 mg/L	0.012016	80.88%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	-5.9	-0.00161 mg/L	0.001100	-0.00161 mg/L	0.001100	68.13%
V 309.310†	-24.2	-0.00365 mg/L	0.000541	-0.00365 mg/L	0.000541	14.84%
V 310.230†	-2399.4	-0.01518 mg/L	0.000353	-0.01518 mg/L	0.000353	2.32%
Zn 202.548†	354.9	0.1426 mg/L	0.00218	0.1426 mg/L	0.00218	1.53%
Zn 206.200†	132.2	0.1421 mg/L	0.00149	0.1421 mg/L	0.00149	1.05%
Zn 213.857†	601.7	0.1441 mg/L	0.00310	0.1441 mg/L	0.00310	2.15%

Sequence No.: 54
Sample ID: 2002AH16S01
Analyst:
Sample Wt:
Dilution: 2X

Autosampler Location: 45
Date Collected: 11/9/01 1:54:27 PM
Sample Prep Volume:
Data Type: Original

Mean Data: 2002AH16S01

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	268988.1						2935.44	1.09%
Y 360.073	3527294.3						65086.69	1.85%
Ag 328.068†	159.4	0.00083	mg/L	0.000262	0.00166	mg/L	0.000524	31.51%
Ag 338.289†	87.2	0.00083	mg/L	0.000353	0.00165	mg/L	0.000705	42.70%
Al 308.215†	766.6	1.029	mg/L	0.0134	2.059	mg/L	0.0269	1.31%
Al 394.401†	937.9	1.042	mg/L	0.0136	2.084	mg/L	0.0271	1.30%
Al 396.153†	3692.5	1.089	mg/L	0.0169	2.178	mg/L	0.0337	1.55%
As 188.979†	-0.2	-0.00406	mg/L	0.022620	-0.00812	mg/L	0.045241	557.30%
As 193.696†	2.9	0.00317	mg/L	0.003128	0.00634	mg/L	0.006257	98.68%
As 197.197†	-0.2	-0.00597	mg/L	0.025805	-0.01194	mg/L	0.051611	432.24%
B 208.889†	52.0	0.2260	mg/L	0.01483	0.4520	mg/L	0.02967	6.56%
B 249.677†	350.3	0.2249	mg/L	0.00132	0.4497	mg/L	0.00264	0.59%
B 249.772†	723.2	0.2230	mg/L	0.00355	0.4460	mg/L	0.00711	1.59%
Ba 233.527†	793.2	0.1805	mg/L	0.00328	0.3609	mg/L	0.00657	1.82%
Ba 455.403†	18527.8	0.1985	mg/L	0.00054	0.3971	mg/L	0.00108	0.27%
Ba 493.408†	31782.4	0.1951	mg/L	0.00062	0.3902	mg/L	0.00124	0.32%
Be 234.861†	-568.7	-0.00147	mg/L	0.000101	-0.00295	mg/L	0.000202	6.85%
Be 313.042†	22.3	0.00027	mg/L	0.000018	0.00054	mg/L	0.000036	6.73%
Be 313.107†	22.3	0.00027	mg/L	0.000018	0.00054	mg/L	0.000036	6.73%
Ca 315.887†	20011.6	5.885	mg/L	0.0465	11.77	mg/L	0.093	0.79%
Ca 317.933†	19026.7	5.469	mg/L	0.0093	10.94	mg/L	0.019	0.17%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	26.3	0.00069	mg/L	0.000053	0.00138	mg/L	0.000106	7.73%
Cd 228.802†	1.4	0.00033	mg/L	0.000713	0.00067	mg/L	0.001425	213.30%
Ce 413.380†	25.9	0.01372	mg/L	0.005192	0.02744	mg/L	0.010385	37.84%
Ce 413.764†	-1.9	-0.00103	mg/L	0.002357	-0.00206	mg/L	0.004714	228.28%
Ce 418.660†	-70.7	-0.01897	mg/L	0.006869	-0.03794	mg/L	0.013738	36.21%
Co 228.616†	26.6	0.00062	mg/L	0.000487	0.00124	mg/L	0.000974	78.65%
Co 230.786†	1.5	0.00136	mg/L	0.000036	0.00273	mg/L	0.000071	2.62%
Co 238.892†	1.0	0.00059	mg/L	0.001355	0.00119	mg/L	0.002711	228.06%
Cr 205.560†	0.6	0.00200	mg/L	0.002783	0.00399	mg/L	0.005567	139.51%
Cr 267.716†	131.7	0.00452	mg/L	0.000151	0.00904	mg/L	0.000301	3.33%
Cr 283.563†	11.8	0.00281	mg/L	0.000894	0.00563	mg/L	0.001789	31.79%
Cu 224.700†	986.8	1.277	mg/L	0.0133	2.554	mg/L	0.0266	1.04%
Cu 324.752†	13611.1	1.220	mg/L	0.0051	2.440	mg/L	0.0102	0.42%
Cu 327.393†	87266.9	1.266	mg/L	0.0324	2.532	mg/L	0.0647	2.56%
Fe 238.204†	3229.2	0.8343	mg/L	0.00623	1.669	mg/L	0.0125	0.75%
Fe 239.562†	2481.0	0.8298	mg/L	0.00407	1.660	mg/L	0.0081	0.49%
Fe 259.939†	5671.8	0.8663	mg/L	0.00674	1.733	mg/L	0.0135	0.78%
Fe 273.955†	873.7	0.9256	mg/L	0.00914	1.851	mg/L	0.0183	0.99%
K 766.490†	920.7	1.592	mg/L	0.0214	3.184	mg/L	0.0428	1.34%
Li 610.362†	36.3	0.00543	mg/L	0.006946	0.01087	mg/L	0.013892	127.83%
Li 670.784†	87.5	0.00166	mg/L	0.000260	0.00332	mg/L	0.000521	15.70%
Mg 279.077†	738.0	0.8247	mg/L	0.00417	1.649	mg/L	0.0083	0.51%
Mg 280.271†	112244.6	0.8208	mg/L	0.00128	1.642	mg/L	0.0026	0.16%
Mg 285.213†	3433.4	0.7969	mg/L	0.00143	1.594	mg/L	0.0029	0.18%
Mn 257.610†	823.5	0.02809	mg/L	0.000388	0.05617	mg/L	0.000775	1.38%
Mn 259.372†	1233.6	0.02806	mg/L	0.000274	0.05612	mg/L	0.000548	0.98%

Mn 260.568†	502.0	0.02609 mg/L	0.000515	0.05219 mg/L	0.001030	1.97%
Mo 202.031†	1.3	0.00346 mg/L	0.008322	0.00693 mg/L	0.016644	240.22%
Mo 203.845†	0.2	0.00073 mg/L	0.008586	0.00146 mg/L	0.017172	>999.9%
Mo 204.597†	-4.4	-0.00054 mg/L	0.000521	-0.00108 mg/L	0.001042	96.66%
Na 588.995†	129745.0	25.04 mg/L	0.094	50.07 mg/L	0.188	0.38%
Na 589.592†	135812.2	25.71 mg/L	0.079	51.41 mg/L	0.157	0.31%
Ni 221.648†	-10.7	-0.03500 mg/L	0.000926	-0.07000 mg/L	0.001852	2.65%
Ni 231.604†	36.2	0.00249 mg/L	0.000135	0.00498 mg/L	0.000270	5.43%
Ni 232.003†	3.7	0.00787 mg/L	0.001250	0.01574 mg/L	0.002501	15.89%
Pb 217.000†	0.2	0.00209 mg/L	0.007776	0.00417 mg/L	0.015552	372.69%
Pb 220.353†	62.0	0.02215 mg/L	0.000928	0.04430 mg/L	0.001855	4.19%
Sb 206.836†	8.0	0.00351 mg/L	0.000712	0.00702 mg/L	0.001425	20.30%
Sb 217.582†	0.8	0.01235 mg/L	0.022588	0.02469 mg/L	0.045177	182.96%
Se 196.026†	7.0	0.00606 mg/L	0.000340	0.01212 mg/L	0.000681	5.62%
Se 203.985†	0.6	0.00107 mg/L	0.005393	0.00215 mg/L	0.010787	502.22%
Sn 189.927†	5.6	0.00398 mg/L	0.001321	0.00796 mg/L	0.002641	33.17%
Sn 235.485†	20.1	0.1093 mg/L	0.01651	0.2185 mg/L	0.03303	15.11%
Sr 407.771†	2241.2	0.01067 mg/L	0.000103	0.02133 mg/L	0.000206	0.97%
Sr 421.552†	2794.1	0.01004 mg/L	0.000036	0.02007 mg/L	0.000073	0.36%
Sr 460.733†	56.8	0.00481 mg/L	0.007043	0.00961 mg/L	0.014087	146.54%
Ti 334.940†	380.2	0.01590 mg/L	0.000258	0.03181 mg/L	0.000516	1.62%
Ti 336.121†	396.0	0.02012 mg/L	0.000839	0.04023 mg/L	0.001677	4.17%
Ti 337.279†	129.4	0.01530 mg/L	0.000122	0.03060 mg/L	0.000245	0.80%
Tl 190.801†	-3.8	-0.00422 mg/L	0.002610	-0.00843 mg/L	0.005219	61.91%
Tl 276.787†	55.8	0.01272 mg/L	0.003479	0.02543 mg/L	0.006957	27.36%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	-1.5	-0.00041 mg/L	0.000690	-0.00081 mg/L	0.001379	170.16%
V 309.310†	-15.9	-0.00239 mg/L	0.000634	-0.00478 mg/L	0.001269	26.53%
V 310.230†	-2448.3	-0.01549 mg/L	0.001141	-0.03098 mg/L	0.002282	7.37%
Zn 202.548†	389.6	0.1618 mg/L	0.00314	0.3236 mg/L	0.00628	1.94%
Zn 206.200†	150.4	0.1618 mg/L	0.00293	0.3235 mg/L	0.00587	1.81%
Zn 213.857†	685.2	0.1645 mg/L	0.00350	0.3289 mg/L	0.00700	2.13%

Sequence No.: 55 **Autosampler Location: 46**
Sample ID: 2002AH16S01 Dup **Date Collected: 11/9/01 1:58:58 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: 2X **Data Type: Original**

Mean Data: 2002AH16S01 Dup

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	267427.9						2557.70	0.96%
Y 360.073	3507169.9						9479.48	0.27%
Ag 328.068†	81.5	0.00043	mg/L	0.000310	0.00085	mg/L	0.000620	72.88%
Ag 338.289†	36.5	0.00035	mg/L	0.001062	0.00069	mg/L	0.002123	306.57%
Al 308.215†	750.8	1.008	mg/L	0.0049	2.016	mg/L	0.0097	0.48%
Al 394.401†	927.8	1.031	mg/L	0.0048	2.061	mg/L	0.0097	0.47%
Al 396.153†	3525.1	1.040	mg/L	0.0255	2.080	mg/L	0.0510	2.45%
As 188.979†	-0.7	-0.01558	mg/L	0.015023	-0.03115	mg/L	0.030046	96.45%
As 193.696†	3.2	0.00347	mg/L	0.003379	0.00693	mg/L	0.006758	97.45%
As 197.197†	0.4	0.01596	mg/L	0.014332	0.03191	mg/L	0.028664	89.82%
B 208.889†	51.3	0.2232	mg/L	0.01060	0.4464	mg/L	0.02119	4.75%
B 249.677†	329.9	0.2117	mg/L	0.00249	0.4235	mg/L	0.00498	1.18%
B 249.772†	692.9	0.2137	mg/L	0.00191	0.4273	mg/L	0.00382	0.89%
Ba 233.527†	760.5	0.1730	mg/L	0.00193	0.3460	mg/L	0.00387	1.12%
Ba 455.403†	17652.8	0.1892	mg/L	0.00076	0.3783	mg/L	0.00152	0.40%
Ba 493.408†	30248.7	0.1857	mg/L	0.00070	0.3714	mg/L	0.00140	0.38%
Be 234.861†	-497.5	-0.00129	mg/L	0.000178	-0.00258	mg/L	0.000357	13.82%
Be 313.042†	22.3	0.00027	mg/L	0.000040	0.00054	mg/L	0.000080	14.74%
Be 313.107†	22.3	0.00027	mg/L	0.000040	0.00054	mg/L	0.000080	14.74%
Ca 315.887†	20381.1	5.994	mg/L	0.0235	11.99	mg/L	0.047	0.39%
Ca 317.933†	19436.2	5.587	mg/L	0.0134	11.17	mg/L	0.027	0.24%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	16.8	0.00044	mg/L	0.000024	0.00088	mg/L	0.000049	5.58%
Cd 228.802†	0.3	0.00007	mg/L	0.000142	0.00014	mg/L	0.000285	209.48%
Ce 413.380†	13.4	0.00713	mg/L	0.010399	0.01426	mg/L	0.020797	145.89%
Ce 413.764†	8.2	0.00440	mg/L	0.006181	0.00881	mg/L	0.012361	140.33%

Ce 418.660†	-92.6	-0.02484 mg/L	0.002875	-0.04968 mg/L	0.005751	11.57%
Co 228.616†	37.6	0.00088 mg/L	0.000097	0.00175 mg/L	0.000194	11.06%
Co 230.786†	0.3	0.00025 mg/L	0.002111	0.00049 mg/L	0.004221	853.72%
Co 238.892†	1.4	0.00084 mg/L	0.000462	0.00168 mg/L	0.000925	55.10%
Cr 205.560†	0.7	0.00254 mg/L	0.001942	0.00507 mg/L	0.003884	76.58%
Cr 267.716†	129.3	0.00444 mg/L	0.000167	0.00887 mg/L	0.000333	3.75%
Cr 283.563†	14.3	0.00341 mg/L	0.000336	0.00683 mg/L	0.000671	9.83%
Cu 224.700†	969.0	1.254 mg/L	0.0095	2.509 mg/L	0.0190	0.76%
Cu 324.752†	13310.5	1.193 mg/L	0.0021	2.386 mg/L	0.0042	0.17%
Cu 327.393†	85564.1	1.241 mg/L	0.0296	2.483 mg/L	0.0591	2.38%
Fe 238.204†	3154.6	0.8150 mg/L	0.00259	1.630 mg/L	0.0052	0.32%
Fe 239.562†	2462.3	0.8236 mg/L	0.00242	1.647 mg/L	0.0048	0.29%
Fe 259.939†	5562.7	0.8496 mg/L	0.00212	1.699 mg/L	0.0042	0.25%
Fe 273.955†	870.3	0.9221 mg/L	0.00050	1.844 mg/L	0.0010	0.05%
K 766.490†	932.7	1.613 mg/L	0.0341	3.225 mg/L	0.0682	2.11%
Li 610.362†	-40.2	-0.00601 mg/L	0.012527	-0.01201 mg/L	0.025054	208.53%
Li 670.784†	109.3	0.00207 mg/L	0.000785	0.00415 mg/L	0.001570	37.87%
Mg 279.077†	749.6	0.8377 mg/L	0.00528	1.675 mg/L	0.0106	0.63%
Mg 280.271†	113462.0	0.8297 mg/L	0.00510	1.659 mg/L	0.0102	0.61%
Mg 285.213†	3465.7	0.8044 mg/L	0.00301	1.609 mg/L	0.0060	0.37%
Mn 257.610†	852.6	0.02908 mg/L	0.000053	0.05816 mg/L	0.000106	0.18%
Mn 259.372†	1261.2	0.02874 mg/L	0.000297	0.05747 mg/L	0.000594	1.03%
Mn 260.568†	513.2	0.02668 mg/L	0.000279	0.05335 mg/L	0.000557	1.04%
Mo 202.031†	-0.2	-0.00068 mg/L	0.003512	-0.00136 mg/L	0.007025	517.07%
Mo 203.845†	-1.0	-0.00495 mg/L	0.009271	-0.00989 mg/L	0.018542	187.39%
Mo 204.597†	-4.6	-0.00056 mg/L	0.000595	-0.00113 mg/L	0.001189	105.64%
Na 588.995†	131082.0	25.30 mg/L	0.151	50.59 mg/L	0.302	0.60%
Na 589.592†	137234.2	25.98 mg/L	0.158	51.95 mg/L	0.317	0.61%
Ni 221.648†	-10.3	-0.03345 mg/L	0.001974	-0.06689 mg/L	0.003949	5.90%
Ni 231.604†	28.7	0.00198 mg/L	0.000264	0.00396 mg/L	0.000528	13.35%
Ni 232.003†	2.4	0.00500 mg/L	0.004717	0.00999 mg/L	0.009434	94.42%
Pb 217.000†	4.0	0.04492 mg/L	0.027068	0.08985 mg/L	0.054136	60.25%
Pb 220.353†	65.8	0.02353 mg/L	0.000912	0.04706 mg/L	0.001824	3.88%
Sb 206.836†	8.8	0.00390 mg/L	0.000397	0.00780 mg/L	0.000794	10.17%
Sb 217.582†	0.5	0.00750 mg/L	0.013369	0.01501 mg/L	0.026738	178.18%
Se 196.026†	12.7	0.01103 mg/L	0.000429	0.02206 mg/L	0.000857	3.89%
Se 203.985†	1.9	0.00311 mg/L	0.004617	0.00622 mg/L	0.009233	148.35%
Sn 189.927†	3.9	0.00281 mg/L	0.000292	0.00561 mg/L	0.000584	10.40%
Sn 235.485†	18.9	0.1028 mg/L	0.02690	0.2057 mg/L	0.05380	26.16%
Sr 407.771†	2270.4	0.01080 mg/L	0.000113	0.02161 mg/L	0.000225	1.04%
Sr 421.552†	2916.9	0.01048 mg/L	0.000221	0.02095 mg/L	0.000443	2.11%
Sr 460.733†	125.6	0.01062 mg/L	0.007918	0.02124 mg/L	0.015836	74.56%
Ti 334.940†	360.5	0.01508 mg/L	0.000208	0.03016 mg/L	0.000416	1.38%
Ti 336.121†	355.5	0.01806 mg/L	0.001078	0.03612 mg/L	0.002156	5.97%
Ti 337.279†	122.9	0.01452 mg/L	0.000154	0.02905 mg/L	0.000308	1.06%
Tl 190.801†	-0.6	-0.00065 mg/L	0.000950	-0.00130 mg/L	0.001899	145.88%
Tl 276.787†	31.0	0.00708 mg/L	0.002479	0.01415 mg/L	0.004959	35.04%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	-0.6	-0.00015 mg/L	0.000440	-0.00030 mg/L	0.000880	288.73%
V 309.310†	-19.6	-0.00295 mg/L	0.002866	-0.00589 mg/L	0.005732	97.24%
V 310.230†	-2533.8	-0.01603 mg/L	0.000519	-0.03206 mg/L	0.001038	3.24%
Zn 202.548†	321.0	0.1318 mg/L	0.00230	0.2635 mg/L	0.00461	1.75%
Zn 206.200†	122.3	0.1315 mg/L	0.00132	0.2630 mg/L	0.00265	1.01%
Zn 213.857†	553.2	0.1327 mg/L	0.00050	0.2653 mg/L	0.00101	0.38%

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Sequence No.: 56 D
Sample ID: 2002AH17S01
Analyst:
Sample Wt:
Dilution: 2X

Jun 9 Nov 01

Autosampler Location: 47
Date Collected: 11/9/01 2:03:28 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 2002AH17S01

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	266722.9						4185.65	1.57%
Y 360.073	3526130.7						19362.28	0.55%
Ag 328.068†	48.3	0.00025	mg/L	0.000020	0.00050	mg/L	0.000040	7.85%
Ag 338.289†	69.5	0.00066	mg/L	0.000410	0.00132	mg/L	0.000821	62.37%

Al 308.215†	472.3	0.6341 mg/L	0.00976	1.268 mg/L	0.0195	1.54%
Al 394.401†	577.3	0.6413 mg/L	0.00762	1.283 mg/L	0.0152	1.19%
Al 396.153†	2231.2	0.6581 mg/L	0.01570	1.316 mg/L	0.0314	2.39%
As 188.979†	1.0	0.02278 mg/L	0.049159	0.04556 mg/L	0.098317	215.82%
As 193.696†	-0.7	-0.00078 mg/L	0.001056	-0.00155 mg/L	0.002113	136.04%
As 197.197†	0.2	0.00816 mg/L	0.037691	0.01632 mg/L	0.075383	461.98%
B 208.889†	51.3	0.2228 mg/L	0.00517	0.4456 mg/L	0.01035	2.32%
B 249.677†	338.6	0.2173 mg/L	0.00260	0.4347 mg/L	0.00520	1.20%
B 249.772†	700.5	0.2160 mg/L	0.00387	0.4320 mg/L	0.00775	1.79%
Ba 233.527†	786.3	0.1789 mg/L	0.00291	0.3578 mg/L	0.00581	1.62%
Ba 455.403†	18063.8	0.1936 mg/L	0.00045	0.3871 mg/L	0.00091	0.23%
Ba 493.408†	31057.3	0.1907 mg/L	0.00052	0.3813 mg/L	0.00105	0.27%
Be 234.861†	-28.9	-0.00007 mg/L	0.000052	-0.00015 mg/L	0.000103	68.81%
Be 313.042†	18.7	0.00023 mg/L	0.000010	0.00045 mg/L	0.000020	4.52%
Be 313.107†	18.7	0.00023 mg/L	0.000010	0.00045 mg/L	0.000020	4.52%
Ca 315.887†	10412.7	3.062 mg/L	0.0318	6.124 mg/L	0.0637	1.04%
Ca 317.933†	9837.6	2.828 mg/L	0.0314	5.655 mg/L	0.0628	1.11%
Cd 214.440†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
Cd 226.502†	-1.4	-0.00004 mg/L	0.000080	-0.00007 mg/L	0.000160	225.72%
Cd 228.802†	-0.7	-0.00017 mg/L	0.000630	-0.00034 mg/L	0.001261	371.22%
Ce 413.380†	24.4	0.01294 mg/L	0.011289	0.02588 mg/L	0.022577	87.25%
Ce 413.764†	2.1	0.00116 mg/L	0.003599	0.00231 mg/L	0.007198	311.42%
Ce 418.660†	-41.0	-0.01099 mg/L	0.014569	-0.02199 mg/L	0.029137	132.51%
Co 228.616†	21.2	0.00049 mg/L	0.000269	0.00098 mg/L	0.000537	54.55%
Co 230.786†	1.1	0.00106 mg/L	0.000551	0.00211 mg/L	0.001103	52.21%
Co 238.892†	0.2	0.00011 mg/L	0.000944	0.00022 mg/L	0.001888	862.42%
Cr 205.560†	1.0	0.00364 mg/L	0.002647	0.00728 mg/L	0.005293	72.68%
Cr 267.716†	109.8	0.00377 mg/L	0.000079	0.00753 mg/L	0.000158	2.10%
Cr 283.563†	8.0	0.00192 mg/L	0.000394	0.00384 mg/L	0.000788	20.55%
Cu 224.700†	786.8	1.018 mg/L	0.0186	2.037 mg/L	0.0372	1.82%
Cu 324.752†	10718.1	0.9606 mg/L	0.00836	1.921 mg/L	0.0167	0.87%
Cu 327.393†	67451.8	0.9787 mg/L	0.01144	1.957 mg/L	0.0229	1.17%
Fe 238.204†	1037.8	0.2681 mg/L	0.00344	0.5363 mg/L	0.00687	1.28%
Fe 239.562†	799.3	0.2673 mg/L	0.00479	0.5347 mg/L	0.00959	1.79%
Fe 259.939†	1818.0	0.2777 mg/L	0.00432	0.5554 mg/L	0.00865	1.56%
Fe 273.955†	284.0	0.3009 mg/L	0.00610	0.6018 mg/L	0.01220	2.03%
K 766.490†	782.7	1.353 mg/L	0.0309	2.707 mg/L	0.0617	2.28%
Li 610.362†	-28.8	-0.00430 mg/L	0.019289	-0.00861 mg/L	0.038577	448.12%
Li 670.784†	28.9	0.00055 mg/L	0.003380	0.00110 mg/L	0.006760	617.31%
Mg 279.077†	598.5	0.6688 mg/L	0.00963	1.338 mg/L	0.0193	1.44%
Mg 280.271†	89727.8	0.6561 mg/L	0.00303	1.312 mg/L	0.0061	0.46%
Mg 285.213†	2727.4	0.6330 mg/L	0.01031	1.266 mg/L	0.0206	1.63%
Mn 257.610†	232.2	0.00792 mg/L	0.000221	0.01584 mg/L	0.000442	2.79%
Mn 259.372†	349.0	0.00788 mg/L	0.000159	0.01577 mg/L	0.000319	2.02%
Mn 260.568†	136.0	0.00707 mg/L	0.000224	0.01414 mg/L	0.000448	3.17%
Mo 202.031†	1.3	0.00350 mg/L	0.004359	0.00699 mg/L	0.008719	124.70%
Mo 203.845†	-1.0	-0.00498 mg/L	0.008559	-0.00997 mg/L	0.017118	171.76%
Mo 204.597†	-9.3	-0.00115 mg/L	0.000538	-0.00230 mg/L	0.001075	46.80%
Na 588.995†	132350.9	25.54 mg/L	0.147	51.08 mg/L	0.294	0.58%
Na 589.592†	138485.1	26.21 mg/L	0.138	52.43 mg/L	0.276	0.53%
Ni 221.648†	-9.0	-0.02934 mg/L	0.002750	-0.05867 mg/L	0.005500	9.37%
Ni 231.604†	12.9	0.00089 mg/L	0.000065	0.00177 mg/L	0.000130	7.32%
Ni 232.003†	2.7	0.00583 mg/L	0.002285	0.01166 mg/L	0.004571	39.20%
Pb 217.000†	0.1	0.00089 mg/L	0.008288	0.00177 mg/L	0.016576	933.91%
Pb 220.353†	21.1	0.00753 mg/L	0.000763	0.01506 mg/L	0.001526	10.13%
Sb 206.836†	5.1	0.00224 mg/L	0.002188	0.00448 mg/L	0.004376	97.67%
Sb 217.582†	0.1	0.00222 mg/L	0.020962	0.00444 mg/L	0.041923	943.24%
Se 196.026†	23.1	0.02002 mg/L	0.001123	0.04004 mg/L	0.002245	5.61%
Se 203.985†	11.2	0.01870 mg/L	0.005710	0.03740 mg/L	0.011420	30.54%
Sn 189.927†	2.0	0.00146 mg/L	0.000086	0.00293 mg/L	0.000172	5.88%
Sn 235.485†	15.2	0.08255 mg/L	0.030725	0.1651 mg/L	0.06145	37.22%
Sr 407.771†	1045.2	0.00497 mg/L	0.000092	0.00995 mg/L	0.000184	1.85%
Sr 421.552†	1421.6	0.00511 mg/L	0.000169	0.01021 mg/L	0.000339	3.32%
Sr 460.733†	44.5	0.00376 mg/L	0.004528	0.00752 mg/L	0.009057	120.39%
Ti 334.940†	147.8	0.00618 mg/L	0.000149	0.01237 mg/L	0.000298	2.41%
Ti 336.121†	169.7	0.00862 mg/L	0.000569	0.01724 mg/L	0.001138	6.60%
Ti 337.279†	48.7	0.00576 mg/L	0.000331	0.01151 mg/L	0.000663	5.76%
Tl 190.801†	-1.1	-0.00116 mg/L	0.003454	-0.00233 mg/L	0.006907	296.49%
Tl 276.787†	27.5	0.00627 mg/L	0.003215	0.01254 mg/L	0.006431	51.27%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%

V 290.880†	-9.0	-0.00245 mg/L	0.001707	-0.00490 mg/L	0.003414	69.61%
V 309.310†	-27.3	-0.00411 mg/L	0.001557	-0.00822 mg/L	0.003115	37.89%
V 310.230†	-2809.5	-0.01778 mg/L	0.000249	-0.03555 mg/L	0.000499	1.40%
Zn 202.548†	214.7	0.08685 mg/L	0.001834	0.1737 mg/L	0.00367	2.11%
Zn 206.200†	82.3	0.08850 mg/L	0.003051	0.1770 mg/L	0.00610	3.45%
Zn 213.857†	370.7	0.08883 mg/L	0.001546	0.1777 mg/L	0.00309	1.74%

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Sequence No.: 57
Sample ID: 2002AH17D01 Dup
Analyst:
Sample Wt:
Dilution: 2X

Autosampler Location: 48
Date Collected: 11/9/01 2:07:52 PM

Sample Prep Volume:
Data Type: Original

Mean Data: 2002AH17D01 Dup

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	267604.0						1162.01	0.43%
Y 360.073	3542355.6						26212.40	0.74%
Ag 328.068†	154.4	0.00081	mg/L	0.000036	0.00161	mg/L	0.000072	4.46%
Ag 338.289†	68.8	0.00065	mg/L	0.000573	0.00130	mg/L	0.001147	88.00%
Al 308.215†	462.5	0.6210	mg/L	0.00685	1.242	mg/L	0.0137	1.10%
Al 394.401†	558.3	0.6203	mg/L	0.00287	1.241	mg/L	0.0057	0.46%
Al 396.153†	2150.2	0.6344	mg/L	0.02080	1.269	mg/L	0.0416	3.28%
As 188.979†	-0.2	-0.00410	mg/L	0.042921	-0.00820	mg/L	0.085842	>999.9%
As 193.696†	0.8	0.00084	mg/L	0.000629	0.00167	mg/L	0.001259	75.26%
As 197.197†	0.3	0.00972	mg/L	0.014132	0.01943	mg/L	0.028264	145.43%
B 208.889†	51.1	0.2219	mg/L	0.00599	0.4438	mg/L	0.01197	2.70%
B 249.677†	306.9	0.1970	mg/L	0.00246	0.3940	mg/L	0.00493	1.25%
B 249.772†	637.1	0.1965	mg/L	0.00055	0.3929	mg/L	0.00110	0.28%
Ba 233.527†	723.7	0.1646	mg/L	0.00038	0.3293	mg/L	0.00076	0.23%
Ba 455.403†	16560.5	0.1775	mg/L	0.00046	0.3549	mg/L	0.00091	0.26%
Ba 493.408†	28391.6	0.1743	mg/L	0.00053	0.3486	mg/L	0.00105	0.30%
Be 234.861†	-64.4	-0.00017	mg/L	0.000022	-0.00033	mg/L	0.000045	13.41%
Be 313.042†	18.8	0.00023	mg/L	0.000002	0.00045	mg/L	0.000005	1.04%
Be 313.107†	18.8	0.00023	mg/L	0.000002	0.00045	mg/L	0.000005	1.04%
Ca 315.887†	10364.0	3.048	mg/L	0.0141	6.096	mg/L	0.0281	0.46%
Ca 317.933†	9801.4	2.817	mg/L	0.0109	5.635	mg/L	0.0217	0.39%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	-0.7	-0.00002	mg/L	0.000125	-0.00004	mg/L	0.000249	635.84%
Cd 228.802†	-1.2	-0.00028	mg/L	0.000279	-0.00055	mg/L	0.000558	100.88%
Ce 413.380†	18.4	0.00978	mg/L	0.005204	0.01955	mg/L	0.010408	53.23%
Ce 413.764†	4.3	0.00234	mg/L	0.000259	0.00467	mg/L	0.000518	11.07%
Ce 418.660†	-30.8	-0.00827	mg/L	0.014164	-0.01654	mg/L	0.028327	171.31%
Co 228.616†	24.9	0.00058	mg/L	0.000098	0.00116	mg/L	0.000196	16.90%
Co 230.786†	1.5	0.00135	mg/L	0.001163	0.00270	mg/L	0.002326	86.04%
Co 238.892†	-0.6	-0.00034	mg/L	0.000170	-0.00068	mg/L	0.000341	50.50%
Cr 205.560†	1.1	0.00415	mg/L	0.002924	0.00831	mg/L	0.005848	70.41%
Cr 267.716†	97.5	0.00334	mg/L	0.000044	0.00669	mg/L	0.000089	1.33%
Cr 283.563†	8.0	0.00190	mg/L	0.000242	0.00381	mg/L	0.000483	12.69%
Cu 224.700†	784.1	1.015	mg/L	0.0115	2.030	mg/L	0.0229	1.13%
Cu 324.752†	10595.0	0.9496	mg/L	0.00853	1.899	mg/L	0.0171	0.90%
Cu 327.393†	68486.3	0.9937	mg/L	0.00996	1.987	mg/L	0.0199	1.00%
Fe 238.204†	1023.1	0.2643	mg/L	0.00184	0.5287	mg/L	0.00367	0.69%
Fe 239.562†	788.2	0.2636	mg/L	0.00205	0.5273	mg/L	0.00410	0.78%
Fe 259.939†	1784.0	0.2725	mg/L	0.00195	0.5450	mg/L	0.00391	0.72%
Fe 273.955†	280.9	0.2976	mg/L	0.00346	0.5953	mg/L	0.00692	1.16%
K 766.490†	773.6	1.338	mg/L	0.0458	2.675	mg/L	0.0916	3.42%
Li 610.362†	-18.0	-0.00270	mg/L	0.005037	-0.00539	mg/L	0.010075	186.78%
Li 670.784†	67.8	0.00129	mg/L	0.001137	0.00257	mg/L	0.002273	88.44%
Mg 279.077†	580.0	0.6481	mg/L	0.01441	1.296	mg/L	0.0288	2.22%
Mg 280.271†	88442.7	0.6467	mg/L	0.00230	1.293	mg/L	0.0046	0.36%
Mg 285.213†	2720.7	0.6315	mg/L	0.00139	1.263	mg/L	0.0028	0.22%
Mn 257.610†	228.6	0.00780	mg/L	0.000125	0.01559	mg/L	0.000250	1.60%
Mn 259.372†	347.5	0.00787	mg/L	0.000188	0.01573	mg/L	0.000375	2.39%
Mn 260.568†	138.5	0.00720	mg/L	0.000230	0.01440	mg/L	0.000460	3.19%
Mo 202.031†	0.1	0.00018	mg/L	0.001440	0.00036	mg/L	0.002881	804.00%
Mo 203.845†	-1.8	-0.00850	mg/L	0.002043	-0.01700	mg/L	0.004087	24.04%
Mo 204.597†	-8.0	-0.00099	mg/L	0.000188	-0.00197	mg/L	0.000375	19.05%

Na 588.995†	127749.4	24.65	mg/L	0.091	49.30	mg/L	0.182	0.37%
Na 589.592†	133633.3	25.29	mg/L	0.131	50.59	mg/L	0.261	0.52%
Ni 221.648†	-8.8	-0.02885	mg/L	0.001913	-0.05770	mg/L	0.003827	6.63%
Ni 231.604†	12.4	0.00085	mg/L	0.000139	0.00170	mg/L	0.000277	16.26%
Ni 232.003†	3.6	0.00773	mg/L	0.004738	0.01546	mg/L	0.009475	61.29%
Pb 217.000†	-2.2	-0.02535	mg/L	0.017734	-0.05070	mg/L	0.035468	69.96%
Pb 220.353†	18.3	0.00652	mg/L	0.001575	0.01305	mg/L	0.003150	24.14%
Sb 206.836†	5.0	0.00220	mg/L	0.001143	0.00441	mg/L	0.002286	51.87%
Sb 217.582†	-0.1	-0.00217	mg/L	0.004178	-0.00434	mg/L	0.008356	192.76%
Se 196.026†	20.6	0.01790	mg/L	0.001413	0.03579	mg/L	0.002825	7.89%
Se 203.985†	8.5	0.01410	mg/L	0.008149	0.02821	mg/L	0.016298	57.78%
Sn 189.927†	2.0	0.00146	mg/L	0.001003	0.00291	mg/L	0.002005	68.83%
Sn 235.485†	14.2	0.07747	mg/L	0.008029	0.1549	mg/L	0.01606	10.36%
Sr 407.771†	1031.6	0.00491	mg/L	0.000020	0.00982	mg/L	0.000040	0.40%
Sr 421.552†	1390.3	0.00499	mg/L	0.000157	0.00999	mg/L	0.000313	3.14%
Sr 460.733†	72.8	0.00616	mg/L	0.001457	0.01231	mg/L	0.002914	23.67%
Ti 334.940†	143.1	0.00599	mg/L	0.000121	0.01197	mg/L	0.000242	2.02%
Ti 336.121†	181.1	0.00920	mg/L	0.000368	0.01840	mg/L	0.000735	3.99%
Ti 337.279†	45.7	0.00540	mg/L	0.000229	0.01079	mg/L	0.000458	4.24%
Tl 190.801†	-1.8	-0.00194	mg/L	0.002175	-0.00388	mg/L	0.004350	112.10%
Tl 276.787†	30.0	0.00683	mg/L	0.002175	0.01366	mg/L	0.004351	31.86%
Tl 351.924†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
V 290.880†	-9.2	-0.00250	mg/L	0.001040	-0.00501	mg/L	0.002081	41.56%
V 309.310†	-25.6	-0.00385	mg/L	0.000155	-0.00770	mg/L	0.000310	4.03%
V 310.230†	-2760.0	-0.01746	mg/L	0.000924	-0.03492	mg/L	0.001849	5.29%
Zn 202.548†	194.6	0.07804	mg/L	0.001008	0.1561	mg/L	0.00202	1.29%
Zn 206.200†	75.4	0.08102	mg/L	0.001730	0.1620	mg/L	0.00346	2.14%
Zn 213.857†	338.6	0.08109	mg/L	0.000146	0.1622	mg/L	0.00029	0.18%

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Sequence No.: 58 **Autosampler Location: 17**
Sample ID: wash **Date Collected: 11/9/01 2:12:16 PM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: wash

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	269657.8						2653.24	0.98%
Y 360.073	3568444.1						22145.87	0.62%
Ag 328.068†	-5.4	-0.00003	mg/L	0.000031	-0.00003	mg/L	0.000031	111.59%
Ag 338.289†	-61.0	-0.00058	mg/L	0.000806	-0.00058	mg/L	0.000806	139.60%
Al 308.215†	19.5	0.02618	mg/L	0.001803	0.02618	mg/L	0.001803	6.88%
Al 394.401†	3.5	0.00393	mg/L	0.001279	0.00393	mg/L	0.001279	32.52%
Al 396.153†	63.9	0.01866	mg/L	0.006606	0.01866	mg/L	0.006606	35.41%
As 188.979†	-0.3	-0.00616	mg/L	0.019900	-0.00616	mg/L	0.019900	323.25%
As 193.696†	-0.5	-0.00059	mg/L	0.002730	-0.00059	mg/L	0.002730	464.49%
As 197.197†	0.6	0.02046	mg/L	0.023058	0.02046	mg/L	0.023058	112.68%
B 208.889†	5.6	0.02450	mg/L	0.011361	0.02450	mg/L	0.011361	46.37%
B 249.677†	9.1	0.00583	mg/L	0.002153	0.00583	mg/L	0.002153	36.94%
B 249.772†	21.3	0.00657	mg/L	0.000709	0.00657	mg/L	0.000709	10.79%
Ba 233.527†	1.7	0.00038	mg/L	0.000300	0.00038	mg/L	0.000300	79.64%
Ba 455.403†	26.9	0.00029	mg/L	0.000194	0.00029	mg/L	0.000194	67.26%
Ba 493.408†	53.9	0.00033	mg/L	0.000316	0.00033	mg/L	0.000316	95.58%
Be 234.861†	155.3	0.00040	mg/L	0.000029	0.00040	mg/L	0.000029	7.31%
Be 313.042†	13.5	0.00016	mg/L	0.000056	0.00016	mg/L	0.000056	34.63%
Be 313.107†	13.5	0.00016	mg/L	0.000056	0.00016	mg/L	0.000056	34.63%
Ca 315.887†	56.0	0.01647	mg/L	0.000228	0.01647	mg/L	0.000228	1.38%
Ca 317.933†	-36.8	-0.01057	mg/L	0.002016	-0.01057	mg/L	0.002016	19.07%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	-9.0	-0.00023	mg/L	0.000026	-0.00023	mg/L	0.000026	11.03%
Cd 228.802†	-2.8	-0.00066	mg/L	0.000045	-0.00066	mg/L	0.000045	6.83%
Ce 413.380†	8.2	0.00437	mg/L	0.004191	0.00437	mg/L	0.004191	96.01%
Ce 413.764†	-18.4	-0.00990	mg/L	0.004577	-0.00990	mg/L	0.004577	46.25%
Ce 418.660†	4.3	0.00115	mg/L	0.006267	0.00115	mg/L	0.006267	544.15%
Co 228.616†	14.1	0.00033	mg/L	0.000280	0.00033	mg/L	0.000280	85.44%
Co 230.786†	0.5	0.00046	mg/L	0.001061	0.00046	mg/L	0.001061	228.34%
Co 238.892†	0.7	0.00041	mg/L	0.000924	0.00041	mg/L	0.000924	223.33%

Cr 205.560†	0.2	0.00089	mg/L	0.003520	0.00089	mg/L	0.003520 394.68%
Cr 267.716†	0.3	0.00001	mg/L	0.000132	0.00001	mg/L	0.000132 >999.9%
Cr 283.563†	-12.5	-0.00299	mg/L	0.000718	-0.00299	mg/L	0.000718 23.99%
Cu 224.700†	0.2	0.00021	mg/L	0.002020	0.00021	mg/L	0.002020 965.52%
Cu 324.752†	-32.9	-0.00295	mg/L	0.000360	-0.00295	mg/L	0.000360 12.22%
Cu 327.393†	-100.5	-0.00146	mg/L	0.000325	-0.00146	mg/L	0.000325 22.31%
Fe 238.204†	23.6	0.00610	mg/L	0.000283	0.00610	mg/L	0.000283 4.65%
Fe 239.562†	19.1	0.00639	mg/L	0.000554	0.00639	mg/L	0.000554 8.66%
Fe 259.939†	41.3	0.00631	mg/L	0.000189	0.00631	mg/L	0.000189 2.99%
Fe 273.955†	4.4	0.00469	mg/L	0.001492	0.00469	mg/L	0.001492 31.82%
K 766.490†	2.2	0.00373	mg/L	0.018937	0.00373	mg/L	0.018937 507.38%
Li 610.362†	65.8	0.00984	mg/L	0.007449	0.00984	mg/L	0.007449 75.68%
Li 670.784†	-114.1	-0.00216	mg/L	0.000787	-0.00216	mg/L	0.000787 36.36%
Mg 279.077†	23.4	0.02618	mg/L	0.009285	0.02618	mg/L	0.009285 35.46%
Mg 280.271†	2704.0	0.01977	mg/L	0.000281	0.01977	mg/L	0.000281 1.42%
Mg 285.213†	83.9	0.01948	mg/L	0.000386	0.01948	mg/L	0.000386 1.98%
Mn 257.610†	-1.1	-0.00004	mg/L	0.000101	-0.00004	mg/L	0.000101 279.25%
Mn 259.372†	6.1	0.00015	mg/L	0.000086	0.00015	mg/L	0.000086 58.62%
Mn 260.568†	-0.3	-0.00002	mg/L	0.000053	-0.00002	mg/L	0.000053 309.79%
Mo 202.031†	-0.6	-0.00160	mg/L	0.005944	-0.00160	mg/L	0.005944 372.41%
Mo 203.845†	-0.9	-0.00443	mg/L	0.016933	-0.00443	mg/L	0.016933 381.86%
Mo 204.597†	-6.2	-0.00076	mg/L	0.000200	-0.00076	mg/L	0.000200 26.29%
Na 588.995†	1358.3	0.2621	mg/L	0.01443	0.2621	mg/L	0.01443 5.51%
Na 589.592†	1435.4	0.2717	mg/L	0.03002	0.2717	mg/L	0.03002 11.05%
Ni 221.648†	-0.0	-0.00006	mg/L	0.002209	-0.00006	mg/L	0.002209 >999.9%
Ni 231.604†	-0.5	-0.00003	mg/L	0.000153	-0.00003	mg/L	0.000153 440.50%
Ni 232.003†	2.6	0.00553	mg/L	0.001759	0.00553	mg/L	0.001759 31.81%
Pb 217.000†	-1.5	-0.01654	mg/L	0.024837	-0.01654	mg/L	0.024837 150.16%
Pb 220.353†	-4.4	-0.00157	mg/L	0.001761	-0.00157	mg/L	0.001761 111.93%
Sb 206.836†	6.6	0.00289	mg/L	0.002159	0.00289	mg/L	0.002159 74.69%
Sb 217.582†	-0.4	-0.00602	mg/L	0.020811	-0.00602	mg/L	0.020811 345.78%
Se 196.026†	1.1	0.00096	mg/L	0.003139	0.00096	mg/L	0.003139 327.15%
Se 203.985†	3.1	0.00516	mg/L	0.001848	0.00516	mg/L	0.001848 35.79%
Sn 189.927†	-1.0	-0.00069	mg/L	0.000454	-0.00069	mg/L	0.000454 66.22%
Sn 235.485†	14.7	0.08025	mg/L	0.000413	0.08025	mg/L	0.000413 0.51%
Sr 407.771†	-29.1	-0.00014	mg/L	0.000050	-0.00014	mg/L	0.000050 36.23%
Sr 421.552†	27.0	0.00010	mg/L	0.000250	0.00010	mg/L	0.000250 258.43%
Sr 460.733†	-88.0	-0.00744	mg/L	0.005740	-0.00744	mg/L	0.005740 77.16%
Ti 334.940†	0.4	0.00002	mg/L	0.000043	0.00002	mg/L	0.000043 237.38%
Ti 336.121†	70.1	0.00356	mg/L	0.000392	0.00356	mg/L	0.000392 11.02%
Ti 337.279†	-9.0	-0.00106	mg/L	0.000361	-0.00106	mg/L	0.000361 33.94%
Tl 190.801†	-0.1	-0.00014	mg/L	0.000355	-0.00014	mg/L	0.000355 262.09%
Tl 276.787†	3.3	0.00074	mg/L	0.002354	0.00074	mg/L	0.002354 317.73%
Tl 351.924†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000 0.00%
V 290.880†	-6.1	-0.00167	mg/L	0.000975	-0.00167	mg/L	0.000975 58.31%
V 309.310†	-27.8	-0.00418	mg/L	0.000362	-0.00418	mg/L	0.000362 8.65%
V 310.230†	-2725.4	-0.01724	mg/L	0.000566	-0.01724	mg/L	0.000566 3.28%
Zn 202.548†	3.4	0.00151	mg/L	0.001047	0.00151	mg/L	0.001047 69.35%
Zn 206.200†	0.8	0.00087	mg/L	0.000309	0.00087	mg/L	0.000309 35.64%
Zn 213.857†	2.1	0.00051	mg/L	0.000173	0.00051	mg/L	0.000173 34.07%

Sequence No.: 59
Sample ID: BLANK
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/9/01 2:16:48 PM

Sample Prep Volume:
Data Type: Original

Mean Data: BLANK

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	268824.7						1091.56	0.41%
Y 360.073	3534709.3						25413.60	0.72%
Ag 328.068†	28.7	0.00015	mg/L	0.000446	0.00015	mg/L	0.000446	297.50%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Ag 338.289†	2.2	0.00002	mg/L	0.000864	0.00002	mg/L	0.000864	>999.9%
QC value within limits for Ag 338.289 Recovery = Not calculated								
Al 308.215†	13.8	0.01851	mg/L	0.005851	0.01851	mg/L	0.005851	31.62%
QC value within limits for Al 308.215 Recovery = Not calculated								

Al 394.401†	1.8	0.00203 mg/L	0.001012	0.00203 mg/L	0.001012	49.89%
QC value within limits for Al 394.401 Recovery = Not calculated						
Al 396.153†	41.8	0.01227 mg/L	0.002587	0.01227 mg/L	0.002587	21.08%
QC value within limits for Al 396.153 Recovery = Not calculated						
As 188.979†	-0.1	-0.00272 mg/L	0.037158	-0.00272 mg/L	0.037158	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated						
As 193.696†	0.5	0.00052 mg/L	0.001084	0.00052 mg/L	0.001084	208.10%
QC value within limits for As 193.696 Recovery = Not calculated						
As 197.197†	0.9	0.03307 mg/L	0.011135	0.03307 mg/L	0.011135	33.67%
QC value within limits for As 197.197 Recovery = Not calculated						
B 208.889†	5.2	0.02258 mg/L	0.012001	0.02258 mg/L	0.012001	53.14%
QC value within limits for B 208.889 Recovery = Not calculated						
B 249.677†	13.9	0.00895 mg/L	0.002401	0.00895 mg/L	0.002401	26.83%
QC value within limits for B 249.677 Recovery = Not calculated						
B 249.772†	27.5	0.00849 mg/L	0.000735	0.00849 mg/L	0.000735	8.66%
QC value within limits for B 249.772 Recovery = Not calculated						
Ba 233.527†	1.8	0.00042 mg/L	0.000169	0.00042 mg/L	0.000169	40.40%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Ba 455.403†	20.2	0.00022 mg/L	0.000150	0.00022 mg/L	0.000150	69.52%
QC value within limits for Ba 455.403 Recovery = Not calculated						
Ba 493.408†	-6.4	-0.00004 mg/L	0.000425	-0.00004 mg/L	0.000425	>999.9%
QC value within limits for Ba 493.408 Recovery = Not calculated						
Be 234.861†	177.2	0.00046 mg/L	0.000014	0.00046 mg/L	0.000014	2.98%
QC value within limits for Be 234.861 Recovery = Not calculated						
Be 313.042†	13.7	0.00017 mg/L	0.000021	0.00017 mg/L	0.000021	12.75%
QC value within limits for Be 313.042 Recovery = Not calculated						
Be 313.107†	13.7	0.00017 mg/L	0.000021	0.00017 mg/L	0.000021	12.75%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.887†	57.3	0.01686 mg/L	0.002141	0.01686 mg/L	0.002141	12.70%
QC value within limits for Ca 315.887 Recovery = Not calculated						
Ca 317.933†	-58.7	-0.01688 mg/L	0.003977	-0.01688 mg/L	0.003977	23.56%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 214.440†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
QC value within limits for Cd 214.440 Recovery = Not calculated						
Cd 226.502†	-8.4	-0.00022 mg/L	0.000063	-0.00022 mg/L	0.000063	28.60%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Cd 228.802†	-1.9	-0.00045 mg/L	0.000429	-0.00045 mg/L	0.000429	96.24%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Ce 413.380†	19.7	0.01044 mg/L	0.003364	0.01044 mg/L	0.003364	32.22%
QC value within limits for Ce 413.380 Recovery = Not calculated						
Ce 413.764†	-7.4	-0.00396 mg/L	0.004541	-0.00396 mg/L	0.004541	114.69%
QC value within limits for Ce 413.764 Recovery = Not calculated						
Ce 418.660†	9.5	0.00256 mg/L	0.006201	0.00256 mg/L	0.006201	242.63%
QC value within limits for Ce 418.660 Recovery = Not calculated						
Co 228.616†	20.6	0.00048 mg/L	0.000356	0.00048 mg/L	0.000356	74.17%
QC value within limits for Co 228.616 Recovery = Not calculated						
Co 230.786†	-0.1	-0.00014 mg/L	0.001205	-0.00014 mg/L	0.001205	886.26%
QC value within limits for Co 230.786 Recovery = Not calculated						
Co 238.892†	-1.6	-0.00097 mg/L	0.000970	-0.00097 mg/L	0.000970	99.54%
QC value within limits for Co 238.892 Recovery = Not calculated						
Cr 205.560†	0.2	0.00085 mg/L	0.001765	0.00085 mg/L	0.001765	207.55%
QC value within limits for Cr 205.560 Recovery = Not calculated						
Cr 267.716†	7.7	0.00026 mg/L	0.000103	0.00026 mg/L	0.000103	38.79%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cr 283.563†	-10.3	-0.00246 mg/L	0.000084	-0.00246 mg/L	0.000084	3.42%
QC value within limits for Cr 283.563 Recovery = Not calculated						
Cu 224.700†	1.9	0.00250 mg/L	0.002254	0.00250 mg/L	0.002254	90.30%
QC value within limits for Cu 224.700 Recovery = Not calculated						
Cu 324.752†	-2.0	-0.00017 mg/L	0.000555	-0.00017 mg/L	0.000555	317.24%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Cu 327.393†	71.2	0.00103 mg/L	0.000226	0.00103 mg/L	0.000226	21.91%
QC value within limits for Cu 327.393 Recovery = Not calculated						
Fe 238.204†	13.2	0.00340 mg/L	0.000115	0.00340 mg/L	0.000115	3.37%
QC value within limits for Fe 238.204 Recovery = Not calculated						
Fe 239.562†	8.4	0.00282 mg/L	0.000787	0.00282 mg/L	0.000787	27.93%
QC value within limits for Fe 239.562 Recovery = Not calculated						
Fe 259.939†	21.7	0.00332 mg/L	0.000284	0.00332 mg/L	0.000284	8.55%
QC value within limits for Fe 259.939 Recovery = Not calculated						
Fe 273.955†	2.6	0.00273 mg/L	0.000661	0.00273 mg/L	0.000661	24.19%
QC value within limits for Fe 273.955 Recovery = Not calculated						

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K 766.490†                75.0      0.1297 mg/L       0.05515      0.1297 mg/L       0.05515  42.53%
   QC value within limits for K 766.490  Recovery = Not calculated
Li 610.362†               57.1     0.00854 mg/L      0.008259     0.00854 mg/L      0.008259  96.67%
   QC value within limits for Li 610.362  Recovery = Not calculated
Li 670.784†               29.2     0.00055 mg/L      0.001280     0.00055 mg/L      0.001280 231.11%
   QC value within limits for Li 670.784  Recovery = Not calculated
Mg 279.077†                5.9     0.00660 mg/L      0.010024     0.00660 mg/L      0.010024 151.93%
   QC value within limits for Mg 279.077  Recovery = Not calculated
Mg 280.271†              733.9     0.00537 mg/L      0.000214     0.00537 mg/L      0.000214   3.99%
   QC value within limits for Mg 280.271  Recovery = Not calculated
Mg 285.213†               21.2     0.00491 mg/L      0.000600     0.00491 mg/L      0.000600  12.21%
   QC value within limits for Mg 285.213  Recovery = Not calculated
Mn 257.610†                1.1     0.00004 mg/L      0.000045     0.00004 mg/L      0.000045 123.71%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mn 259.372†               10.0     0.00024 mg/L      0.000246     0.00024 mg/L      0.000246 102.99%
   QC value within limits for Mn 259.372  Recovery = Not calculated
Mn 260.568†                2.9     0.00015 mg/L      0.000089     0.00015 mg/L      0.000089  59.69%
   QC value within limits for Mn 260.568  Recovery = Not calculated
Mo 202.031†               -0.4    -0.00105 mg/L      0.006235    -0.00105 mg/L      0.006235 593.12%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Mo 203.845†               -0.0     0.00000 mg/L      0.002527     0.00000 mg/L      0.002527 >999.9%
   QC value within limits for Mo 203.845  Recovery = Not calculated
Mo 204.597†               -8.2    -0.00101 mg/L      0.000510    -0.00101 mg/L      0.000510  50.31%
   QC value within limits for Mo 204.597  Recovery = Not calculated
Na 588.995†             1563.4      0.3017 mg/L       0.00879      0.3017 mg/L       0.00879   2.91%
   QC value within limits for Na 588.995  Recovery = Not calculated
Na 589.592†             1710.4      0.3238 mg/L       0.00538      0.3238 mg/L       0.00538   1.66%
   QC value within limits for Na 589.592  Recovery = Not calculated
Ni 221.648†                0.2     0.00063 mg/L      0.000472     0.00063 mg/L      0.000472  74.93%
   QC value within limits for Ni 221.648  Recovery = Not calculated
Ni 231.604†               -5.2    -0.00036 mg/L      0.000375    -0.00036 mg/L      0.000375 104.63%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Ni 232.003†                1.0     0.00209 mg/L      0.001779     0.00209 mg/L      0.001779  85.28%
   QC value within limits for Ni 232.003  Recovery = Not calculated
Pb 217.000†               -1.0    -0.01169 mg/L      0.005867    -0.01169 mg/L      0.005867  50.20%
   QC value within limits for Pb 217.000  Recovery = Not calculated
Pb 220.353†               -2.1    -0.00076 mg/L      0.001395    -0.00076 mg/L      0.001395 184.12%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†                7.4     0.00324 mg/L      0.000558     0.00324 mg/L      0.000558  17.21%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Sb 217.582†               -0.1    -0.00193 mg/L      0.029177    -0.00193 mg/L      0.029177 >999.9%
   QC value within limits for Sb 217.582  Recovery = Not calculated
Se 196.026†                2.8     0.00246 mg/L      0.003873     0.00246 mg/L      0.003873 157.34%
   QC value within limits for Se 196.026  Recovery = Not calculated
Se 203.985†               -1.0    -0.00163 mg/L      0.002691    -0.00163 mg/L      0.002691 165.03%
   QC value within limits for Se 203.985  Recovery = Not calculated
Sn 189.927†               -0.6    -0.00044 mg/L      0.000543    -0.00044 mg/L      0.000543 122.74%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sn 235.485†               15.2     0.08305 mg/L      0.024375     0.08305 mg/L      0.024375  29.35%
   QC value within limits for Sn 235.485  Recovery = Not calculated
Sr 407.771†               41.9     0.00020 mg/L      0.000041     0.00020 mg/L      0.000041  20.58%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Sr 421.552†              151.4     0.00054 mg/L      0.000196     0.00054 mg/L      0.000196  35.95%
   QC value within limits for Sr 421.552  Recovery = Not calculated
Sr 460.733†               14.9     0.00126 mg/L      0.002344     0.00126 mg/L      0.002344 185.99%
   QC value within limits for Sr 460.733  Recovery = Not calculated
Ti 334.940†                2.2     0.00009 mg/L      0.000043     0.00009 mg/L      0.000043  47.37%
   QC value within limits for Ti 334.940  Recovery = Not calculated
Ti 336.121†               65.3     0.00332 mg/L      0.000409     0.00332 mg/L      0.000409  12.34%
   QC value within limits for Ti 336.121  Recovery = Not calculated
Ti 337.279†               -3.9    -0.00046 mg/L      0.000366    -0.00046 mg/L      0.000366  79.78%
   QC value within limits for Ti 337.279  Recovery = Not calculated
Tl 190.801†               -1.0    -0.00110 mg/L      0.001483    -0.00110 mg/L      0.001483 135.19%
   QC value within limits for Tl 190.801  Recovery = Not calculated
Tl 276.787†               -6.0    -0.00136 mg/L      0.002480    -0.00136 mg/L      0.002480 182.52%
   QC value within limits for Tl 276.787  Recovery = Not calculated
Tl 351.924†                0.0     0.00000 mg/L      0.000000     0.00000 mg/L      0.000000   0.00%
   QC value within limits for Tl 351.924  Recovery = Not calculated
V 290.880†                -4.9    -0.00133 mg/L      0.000655    -0.00133 mg/L      0.000655  49.31%
   QC value within limits for V 290.880  Recovery = Not calculated
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V 309.310†	-26.4	-0.00396 mg/L	0.000331	-0.00396 mg/L	0.000331	8.34%
QC value within limits for V 309.310 Recovery = Not calculated						
V 310.230†	-2955.6	-0.01870 mg/L	0.000929	-0.01870 mg/L	0.000929	4.97%
QC value within limits for V 310.230 Recovery = Not calculated						
Zn 202.548†	4.3	0.00185 mg/L	0.000335	0.00185 mg/L	0.000335	18.11%
QC value within limits for Zn 202.548 Recovery = Not calculated						
Zn 206.200†	0.8	0.00087 mg/L	0.000818	0.00087 mg/L	0.000818	93.81%
QC value within limits for Zn 206.200 Recovery = Not calculated						
Zn 213.857†	5.7	0.00137 mg/L	0.000208	0.00137 mg/L	0.000208	15.16%
QC value within limits for Zn 213.857 Recovery = Not calculated						

All analytes passed QC.

Sequence No.: 60
Sample ID: LCM1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 11/9/01 2:21:16 PM
Sample Prep Volume:
Data Type: Original

Mean Data: LCM1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	268234.4						1518.12	0.57%
Y 360.073	3517040.2						71539.58	2.03%
Ag 328.068†	29068.1	0.1517	mg/L	0.00432	0.1517	mg/L	0.00432	2.85%
Ag 338.289†	16081.8	0.1524	mg/L	0.00510	0.1524	mg/L	0.00510	3.35%
Al 308.215†	751.5	1.009	mg/L	0.0064	1.009	mg/L	0.0064	0.63%
QC value within limits for Al 308.215 Recovery = 100.91%								
Al 394.401†	949.4	1.055	mg/L	0.0036	1.055	mg/L	0.0036	0.34%
QC value within limits for Al 394.401 Recovery = 105.46%								
Al 396.153†	3654.7	1.076	mg/L	0.0352	1.076	mg/L	0.0352	3.27%
QC value within limits for Al 396.153 Recovery = 107.63%								
As 188.979†	90.5	1.988	mg/L	0.0657	1.988	mg/L	0.0657	3.31%
QC value within limits for As 188.979 Recovery = 99.38%								
As 193.696†	1967.9	2.117	mg/L	0.0441	2.117	mg/L	0.0441	2.09%
QC value within limits for As 193.696 Recovery = 105.84%								
As 197.197†	54.1	1.986	mg/L	0.0492	1.986	mg/L	0.0492	2.48%
QC value within limits for As 197.197 Recovery = 99.31%								
B 208.889†	224.2	0.9743	mg/L	0.00641	0.9743	mg/L	0.00641	0.66%
QC value within limits for B 208.889 Recovery = 97.43%								
B 249.677†	1457.7	0.9357	mg/L	0.00913	0.9357	mg/L	0.00913	0.98%
QC value within limits for B 249.677 Recovery = 93.57%								
B 249.772†	3049.9	0.9405	mg/L	0.01000	0.9405	mg/L	0.01000	1.06%
QC value within limits for B 249.772 Recovery = 94.05%								
Ba 233.527†	4194.4	0.9542	mg/L	0.01768	0.9542	mg/L	0.01768	1.85%
QC value within limits for Ba 233.527 Recovery = 95.42%								
Ba 455.403†	95660.5	1.025	mg/L	0.0076	1.025	mg/L	0.0076	0.74%
QC value within limits for Ba 455.403 Recovery = 102.51%								
Ba 493.408†	164682.1	1.011	mg/L	0.0082	1.011	mg/L	0.0082	0.81%
QC value within limits for Ba 493.408 Recovery = 101.10%								
Be 234.861†	479107.0	1.243	mg/L	0.0322	1.243	mg/L	0.0322	2.59%
QC value greater than the upper limit for Be 234.861 Recovery = 124.26%								
Be 313.042†	84269.3	1.018	mg/L	0.0066	1.018	mg/L	0.0066	0.65%
QC value within limits for Be 313.042 Recovery = 101.84%								
Be 313.107†	84269.3	1.018	mg/L	0.0066	1.018	mg/L	0.0066	0.65%
QC value within limits for Be 313.107 Recovery = 101.84%								
Ca 315.887†	3661.1	1.077	mg/L	0.0093	1.077	mg/L	0.0093	0.87%
QC value within limits for Ca 315.887 Recovery = 107.67%								
Ca 317.933†	3430.6	0.9861	mg/L	0.00774	0.9861	mg/L	0.00774	0.78%
QC value within limits for Ca 317.933 Recovery = 98.61%								
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
QC value less than the lower limit for Cd 214.440 Recovery = 0.00%								
Cd 226.502†	38217.2	0.9997	mg/L	0.02890	0.9997	mg/L	0.02890	2.89%
QC value within limits for Cd 226.502 Recovery = 99.97%								
Cd 228.802†	3860.1	0.9050	mg/L	0.01767	0.9050	mg/L	0.01767	1.95%
QC value within limits for Cd 228.802 Recovery = 90.50%								
Ce 413.380†	1981.9	1.050	mg/L	0.0444	1.050	mg/L	0.0444	4.23%
QC value within limits for Ce 413.380 Recovery = 105.04%								
Ce 413.764†	1909.6	1.028	mg/L	0.0267	1.028	mg/L	0.0267	2.60%

QC value within limits for Ce 413.764 Recovery = 102.83%

Ce 418.660†	3881.6	1.041 mg/L	0.0155	1.041 mg/L	0.0155	1.48%

QC value within limits for Ce 418.660 Recovery = 104.08%

Co 228.616†	41316.9	0.9613 mg/L	0.03047	0.9613 mg/L	0.03047	3.17%

QC value within limits for Co 228.616 Recovery = 96.13%

Co 230.786†	1056.1	0.9824 mg/L	0.00567	0.9824 mg/L	0.00567	0.58%

QC value within limits for Co 230.786 Recovery = 98.24%

Co 238.892†	1581.0	0.9662 mg/L	0.00728	0.9662 mg/L	0.00728	0.75%

QC value within limits for Co 238.892 Recovery = 96.62%

Cr 205.560†	265.6	0.9599 mg/L	0.01197	0.9599 mg/L	0.01197	1.25%

QC value within limits for Cr 205.560 Recovery = 95.99%

Cr 267.716†	29185.2	1.001 mg/L	0.0276	1.001 mg/L	0.0276	2.76%

QC value within limits for Cr 267.716 Recovery = 100.11%

Cr 283.563†	4892.1	1.169 mg/L	0.0079	1.169 mg/L	0.0079	0.68%

QC value greater than the upper limit for Cr 283.563 Recovery = 116.91%

Cu 224.700†	782.9	1.013 mg/L	0.0096	1.013 mg/L	0.0096	0.94%

QC value within limits for Cu 224.700 Recovery = 101.34%

Cu 324.752†	10428.9	0.9347 mg/L	0.01852	0.9347 mg/L	0.01852	1.98%

QC value within limits for Cu 324.752 Recovery = 93.47%

Cu 327.393†	66903.1	0.9707 mg/L	0.03115	0.9707 mg/L	0.03115	3.21%

QC value within limits for Cu 327.393 Recovery = 97.07%

Fe 238.204†	3842.8	0.9928 mg/L	0.02005	0.9928 mg/L	0.02005	2.02%

QC value within limits for Fe 238.204 Recovery = 99.28%

Fe 239.562†	2974.8	0.9950 mg/L	0.01770	0.9950 mg/L	0.01770	1.78%

QC value within limits for Fe 239.562 Recovery = 99.50%

Fe 259.939†	6697.1	1.023 mg/L	0.0131	1.023 mg/L	0.0131	1.28%

QC value within limits for Fe 259.939 Recovery = 102.29%

Fe 273.955†	1062.3	1.126 mg/L	0.0057	1.126 mg/L	0.0057	0.51%

QC value greater than the upper limit for Fe 273.955 Recovery = 112.55%

K 766.490†	3240.9	5.604 mg/L	0.0733	5.604 mg/L	0.0733	1.31%

QC value greater than the upper limit for K 766.490 Recovery = 112.08%

Li 610.362†	7092.0	1.061 mg/L	0.0247	1.061 mg/L	0.0247	2.32%

QC value within limits for Li 610.362 Recovery = 106.10%

Li 670.784†	55343.5	1.049 mg/L	0.0175	1.049 mg/L	0.0175	1.67%

QC value within limits for Li 670.784 Recovery = 104.92%

Mg 279.077†	969.7	1.084 mg/L	0.0216	1.084 mg/L	0.0216	1.99%

QC value within limits for Mg 279.077 Recovery = 108.36%

Mg 280.271†	144113.8	1.054 mg/L	0.0076	1.054 mg/L	0.0076	0.72%

QC value within limits for Mg 280.271 Recovery = 105.38%

Mg 285.213†	4414.5	1.025 mg/L	0.0148	1.025 mg/L	0.0148	1.45%

QC value within limits for Mg 285.213 Recovery = 102.46%

Mn 257.610†	28901.1	0.9857 mg/L	0.01465	0.9857 mg/L	0.01465	1.49%

QC value within limits for Mn 257.610 Recovery = 98.57%

Mn 259.372†	41820.5	0.9793 mg/L	0.01373	0.9793 mg/L	0.01373	1.40%

QC value within limits for Mn 259.372 Recovery = 97.93%

Mn 260.568†	17483.0	0.9087 mg/L	0.01398	0.9087 mg/L	0.01398	1.54%

QC value within limits for Mn 260.568 Recovery = 90.87%

Mo 202.031†	315.9	0.8621 mg/L	0.00768	0.8621 mg/L	0.00768	0.89%

QC value less than the lower limit for Mo 202.031 Recovery = 86.21%

Mo 203.845†	181.7	0.8671 mg/L	0.01510	0.8671 mg/L	0.01510	1.74%

QC value less than the lower limit for Mo 203.845 Recovery = 86.71%

Mo 204.597†	7191.4	0.8876 mg/L	0.01886	0.8876 mg/L	0.01886	2.13%

QC value less than the lower limit for Mo 204.597 Recovery = 88.76%

Na 588.995†	6759.9	1.304 mg/L	0.0239	1.304 mg/L	0.0239	1.83%
Na 589.592†	6997.3	1.324 mg/L	0.0136	1.324 mg/L	0.0136	1.03%
Ni 221.648†	296.1	0.9657 mg/L	0.00997	0.9657 mg/L	0.00997	1.03%

QC value within limits for Ni 221.648 Recovery = 96.57%

Ni 231.604†	15954.7	1.098 mg/L	0.0333	1.098 mg/L	0.0333	3.04%

QC value within limits for Ni 231.604 Recovery = 109.79%

Ni 232.003†	461.4	0.9766 mg/L	0.00848	0.9766 mg/L	0.00848	0.87%

QC value within limits for Ni 232.003 Recovery = 97.66%

Pb 217.000†	166.0	1.881 mg/L	0.0183	1.881 mg/L	0.0183	0.97%

QC value within limits for Pb 217.000 Recovery = 94.05%

Pb 220.353†	5795.8	2.071 mg/L	0.0587	2.071 mg/L	0.0587	2.83%

QC value within limits for Pb 220.353 Recovery = 103.54%

Sb 206.836†	4418.6	1.949 mg/L	0.0390	1.949 mg/L	0.0390	2.00%

QC value within limits for Sb 206.836 Recovery = 97.47%

Sb 217.582†	114.2	1.774 mg/L	0.0156	1.774 mg/L	0.0156	0.88%

QC value less than the lower limit for Sb 217.582 Recovery = 88.69%

Se 196.026†	1269.3	1.102 mg/L	0.0179	1.102 mg/L	0.0179	1.63%

QC value greater than the upper limit for Se 196.026 Recovery = 110.16%

Se 203.985†	664.3	1.108 mg/L	0.0067	1.108 mg/L	0.0067	0.60%

QC value greater than the upper limit for Se 203.985 Recovery = 110.84%

Sn 189.927†	6608.0	4.718 mg/L	0.1922	4.718 mg/L	0.1922	4.07%

QC value within limits for Sn 189.927 Recovery = 94.37%

Sn 235.485†	841.2	4.584 mg/L	0.0383	4.584 mg/L	0.0383	0.84%

QC value within limits for Sn 235.485 Recovery = 91.67%

Sr 407.771†	229077.7	1.090 mg/L	0.0090	1.090 mg/L	0.0090	0.82%

QC value within limits for Sr 407.771 Recovery = 109.01%

Sr 421.552†	284507.3	1.022 mg/L	0.0076	1.022 mg/L	0.0076	0.74%

QC value within limits for Sr 421.552 Recovery = 102.18%

Sr 460.733†	12083.0	1.022 mg/L	0.0233	1.022 mg/L	0.0233	2.28%

QC value within limits for Sr 460.733 Recovery = 102.18%

Ti 334.940†	21455.4	0.8976 mg/L	0.01365	0.8976 mg/L	0.01365	1.52%

QC value less than the lower limit for Ti 334.940 Recovery = 89.76%

Ti 336.121†	17652.0	0.8967 mg/L	0.01172	0.8967 mg/L	0.01172	1.31%

QC value less than the lower limit for Ti 336.121 Recovery = 89.67%

Ti 337.279†	7600.9	0.8986 mg/L	0.01361	0.8986 mg/L	0.01361	1.51%

QC value less than the lower limit for Ti 337.279 Recovery = 89.86%

Tl 190.801†	4750.9	5.209 mg/L	0.0934	5.209 mg/L	0.0934	1.79%

QC value within limits for Tl 190.801 Recovery = 104.19%

Tl 276.787†	20863.3	4.755 mg/L	0.1498	4.755 mg/L	0.1498	3.15%

QC value within limits for Tl 276.787 Recovery = 95.10%

Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%

QC value less than the lower limit for Tl 351.924 Recovery = 0.00%

V 290.880†	3551.3	0.9672 mg/L	0.01839	0.9672 mg/L	0.01839	1.90%

QC value within limits for V 290.880 Recovery = 96.72%

V 309.310†	6837.4	1.028 mg/L	0.0204	1.028 mg/L	0.0204	1.98%

QC value within limits for V 309.310 Recovery = 102.84%

V 310.230†	152211.3	0.9630 mg/L	0.02131	0.9630 mg/L	0.02131	2.21%

QC value within limits for V 310.230 Recovery = 96.30%

Zn 202.548†	2187.0	0.9536 mg/L	0.00331	0.9536 mg/L	0.00331	0.35%

QC value within limits for Zn 202.548 Recovery = 95.36%

Zn 206.200†	899.3	0.9669 mg/L	0.00564	0.9669 mg/L	0.00564	0.58%

QC value within limits for Zn 206.200 Recovery = 96.69%

Zn 213.857†	4052.6	0.9713 mg/L	0.00569	0.9713 mg/L	0.00569	0.59%

QC value within limits for Zn 213.857 Recovery = 97.13%

QC Failed. Continue with analysis.

Sequence No.: 61
Sample ID: LCM2
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/9/01 2:25:52 PM
Sample Prep Volume:
Data Type: Original

Mean Data: LCM2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	264465.4						2232.20	0.84%
Y 360.073	3498861.6						30480.95	0.87%
Ag 328.068†	9805.2	0.05115	mg/L	0.000636	0.05115	mg/L	0.000636	1.24%
QC value within limits for Ag 328.068 Recovery = 102.31%								
Ag 338.289†	5501.6	0.05212	mg/L	0.001212	0.05212	mg/L	0.001212	2.33%
QC value within limits for Ag 338.289 Recovery = 104.25%								
Al 308.215†	16.8	0.02255	mg/L	0.003709	0.02255	mg/L	0.003709	16.45%
Al 394.401†	5.6	0.00620	mg/L	0.000969	0.00620	mg/L	0.000969	15.63%
Al 396.153†	71.9	0.02109	mg/L	0.005065	0.02109	mg/L	0.005065	24.02%
As 188.979†	-0.5	-0.01097	mg/L	0.010594	-0.01097	mg/L	0.010594	96.57%
As 193.696†	2.8	0.00298	mg/L	0.001255	0.00298	mg/L	0.001255	42.07%
As 197.197†	0.1	0.00439	mg/L	0.036853	0.00439	mg/L	0.036853	839.17%
B 208.889†	6.9	0.02996	mg/L	0.011495	0.02996	mg/L	0.011495	38.37%
B 249.677†	29.1	0.01870	mg/L	0.001163	0.01870	mg/L	0.001163	6.22%
B 249.772†	62.4	0.01923	mg/L	0.001626	0.01923	mg/L	0.001626	8.45%
Ba 233.527†	3.2	0.00073	mg/L	0.000265	0.00073	mg/L	0.000265	36.50%
Ba 455.403†	69.0	0.00074	mg/L	0.000178	0.00074	mg/L	0.000178	24.08%
Ba 493.408†	72.7	0.00045	mg/L	0.000106	0.00045	mg/L	0.000106	23.74%
Be 234.861†	259.1	0.00067	mg/L	0.000074	0.00067	mg/L	0.000074	10.95%
Be 313.042†	46.2	0.00056	mg/L	0.000056	0.00056	mg/L	0.000056	10.03%

Be 313.107†	46.2	0.00056 mg/L	0.000056	0.00056 mg/L	0.000056	10.03%
Ca 315.887†	130.3	0.03833 mg/L	0.000983	0.03833 mg/L	0.000983	2.56%
Ca 317.933†	25.3	0.00726 mg/L	0.008537	0.00726 mg/L	0.008537	117.55%
Cd 214.440†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
Cd 226.502†	3.8	0.00010 mg/L	0.000084	0.00010 mg/L	0.000084	84.80%
Cd 228.802†	-0.5	-0.00012 mg/L	0.000065	-0.00012 mg/L	0.000065	52.31%
Ce 413.380†	20.0	0.01062 mg/L	0.005911	0.01062 mg/L	0.005911	55.68%
Ce 413.764†	-0.1	-0.00004 mg/L	0.003989	-0.00004 mg/L	0.003989	>999.9%
Ce 418.660†	-98.3	-0.02636 mg/L	0.013877	-0.02636 mg/L	0.013877	52.65%
Co 228.616†	30.0	0.00070 mg/L	0.000049	0.00070 mg/L	0.000049	7.08%
Co 230.786†	2.0	0.00186 mg/L	0.001207	0.00186 mg/L	0.001207	64.91%
Co 238.892†	2.2	0.00135 mg/L	0.000604	0.00135 mg/L	0.000604	44.83%
Cr 205.560†	0.3	0.00103 mg/L	0.002048	0.00103 mg/L	0.002048	198.90%
Cr 267.716†	16.3	0.00056 mg/L	0.000064	0.00056 mg/L	0.000064	11.40%
Cr 283.563†	-5.6	-0.00135 mg/L	0.000726	-0.00135 mg/L	0.000726	53.89%
Cu 224.700†	3.1	0.00405 mg/L	0.002507	0.00405 mg/L	0.002507	61.93%
Cu 324.752†	15.7	0.00140 mg/L	0.000157	0.00140 mg/L	0.000157	11.21%
Cu 327.393†	230.4	0.00334 mg/L	0.000310	0.00334 mg/L	0.000310	9.28%
Fe 238.204†	18.9	0.00489 mg/L	0.000571	0.00489 mg/L	0.000571	11.67%
Fe 239.562†	15.8	0.00530 mg/L	0.000904	0.00530 mg/L	0.000904	17.07%
Fe 259.939†	34.1	0.00520 mg/L	0.000195	0.00520 mg/L	0.000195	3.74%
Fe 273.955†	2.2	0.00237 mg/L	0.002400	0.00237 mg/L	0.002400	101.41%
K 766.490†	93.9	0.1623 mg/L	0.01227	0.1623 mg/L	0.01227	7.56%
Li 610.362†	38.8	0.00581 mg/L	0.006807	0.00581 mg/L	0.006807	117.16%
Li 670.784†	148.0	0.00281 mg/L	0.001786	0.00281 mg/L	0.001786	63.65%
Mg 279.077†	8.8	0.00985 mg/L	0.006049	0.00985 mg/L	0.006049	61.43%
Mg 280.271†	968.3	0.00708 mg/L	0.000404	0.00708 mg/L	0.000404	5.71%
Mg 285.213†	32.0	0.00744 mg/L	0.000398	0.00744 mg/L	0.000398	5.35%
Mn 257.610†	15.6	0.00053 mg/L	0.000054	0.00053 mg/L	0.000054	10.11%
Mn 259.372†	36.1	0.00083 mg/L	0.000133	0.00083 mg/L	0.000133	16.06%
Mn 260.568†	9.5	0.00049 mg/L	0.000053	0.00049 mg/L	0.000053	10.77%
Mo 202.031†	1.4	0.00372 mg/L	0.002191	0.00372 mg/L	0.002191	58.98%
Mo 203.845†	-1.1	-0.00521 mg/L	0.004855	-0.00521 mg/L	0.004855	93.24%
Mo 204.597†	9.5	0.00117 mg/L	0.000339	0.00117 mg/L	0.000339	28.88%
Na 588.995†	1322.4	0.2552 mg/L	0.01098	0.2552 mg/L	0.01098	4.30%
Na 589.592†	1356.7	0.2568 mg/L	0.00363	0.2568 mg/L	0.00363	1.41%
Ni 221.648†	0.2	0.00080 mg/L	0.003538	0.00080 mg/L	0.003538	443.36%
Ni 231.604†	4.5	0.00031 mg/L	0.000216	0.00031 mg/L	0.000216	70.09%
Ni 232.003†	3.0	0.00636 mg/L	0.008888	0.00636 mg/L	0.008888	139.72%
Pb 217.000†	0.5	0.00608 mg/L	0.022194	0.00608 mg/L	0.022194	364.85%
Pb 220.353†	6.7	0.00239 mg/L	0.000850	0.00239 mg/L	0.000850	35.52%
Sb 206.836†	10.1	0.00443 mg/L	0.001517	0.00443 mg/L	0.001517	34.22%
Sb 217.582†	-0.1	-0.00100 mg/L	0.011695	-0.00100 mg/L	0.011695	>999.9%
Se 196.026†	4.1	0.00359 mg/L	0.003071	0.00359 mg/L	0.003071	85.44%
Se 203.985†	-0.4	-0.00071 mg/L	0.002446	-0.00071 mg/L	0.002446	342.30%
Sn 189.927†	16.4	0.01173 mg/L	0.001584	0.01173 mg/L	0.001584	13.51%
Sn 235.485†	20.5	0.1115 mg/L	0.01722	0.1115 mg/L	0.01722	15.44%
Sr 407.771†	139.4	0.00066 mg/L	0.000048	0.00066 mg/L	0.000048	7.25%
Sr 421.552†	264.0	0.00095 mg/L	0.000210	0.00095 mg/L	0.000210	22.11%
Sr 460.733†	-11.9	-0.00101 mg/L	0.010927	-0.00101 mg/L	0.010927	>999.9%
Ti 334.940†	16.9	0.00071 mg/L	0.000143	0.00071 mg/L	0.000143	20.22%
Ti 336.121†	90.3	0.00459 mg/L	0.000495	0.00459 mg/L	0.000495	10.79%
Ti 337.279†	3.9	0.00047 mg/L	0.000159	0.00047 mg/L	0.000159	34.01%
Tl 190.801†	0.6	0.00065 mg/L	0.000940	0.00065 mg/L	0.000940	145.61%
Tl 276.787†	3.3	0.00075 mg/L	0.002088	0.00075 mg/L	0.002088	280.19%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	-4.6	-0.00124 mg/L	0.000683	-0.00124 mg/L	0.000683	55.12%
V 309.310†	-20.7	-0.00312 mg/L	0.002198	-0.00312 mg/L	0.002198	70.55%
V 310.230†	-3024.0	-0.01913 mg/L	0.000458	-0.01913 mg/L	0.000458	2.40%
Zn 202.548†	18.3	0.00799 mg/L	0.000619	0.00799 mg/L	0.000619	7.74%
Zn 206.200†	7.7	0.00833 mg/L	0.001149	0.00833 mg/L	0.001149	13.79%
Zn 213.857†	35.7	0.00861 mg/L	0.000502	0.00861 mg/L	0.000502	5.84%

All analytes passed QC.

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Sequence No.: 62
Sample ID: Hi AQC
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 11/9/01 2:30:20 PM

Sample Prep Volume:
Data Type: Original

Mean Data: Hi AQC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	262926.5						1781.32	0.68%
Y 360.073	3411361.4						18673.52	0.55%
Ag 328.068†	30.7	0.00016	mg/L	0.000063	0.00016	mg/L	0.000063	39.26%
Ag 338.289†	118.2	0.00112	mg/L	0.000107	0.00112	mg/L	0.000107	9.56%
Al 308.215†	73354.8	98.50	mg/L	0.265	98.50	mg/L	0.265	0.27%
QC value within limits for Al 308.215 Recovery = 98.50%								
Al 394.401†	92636.4	102.9	mg/L	0.54	102.9	mg/L	0.54	0.52%
Al 396.153†	344813.6	101.7	mg/L	0.32	101.7	mg/L	0.32	0.31%
As 188.979†	-0.7	-0.01557	mg/L	0.029786	-0.01557	mg/L	0.029786	191.30%
As 193.696†	8.4	0.00906	mg/L	0.006676	0.00906	mg/L	0.006676	73.66%
As 197.197†	0.1	0.00379	mg/L	0.032999	0.00379	mg/L	0.032999	870.01%
B 208.889†	7.7	0.03328	mg/L	0.019302	0.03328	mg/L	0.019302	58.00%
B 249.677†	11.9	0.00762	mg/L	0.000454	0.00762	mg/L	0.000454	5.96%
B 249.772†	487.6	0.1504	mg/L	0.00050	0.1504	mg/L	0.00050	0.33%
Ba 233.527†	4.5	0.00102	mg/L	0.000356	0.00102	mg/L	0.000356	35.00%
Ba 455.403†	56.1	0.00060	mg/L	0.000328	0.00060	mg/L	0.000328	54.64%
Ba 493.408†	229.5	0.00141	mg/L	0.000426	0.00141	mg/L	0.000426	30.27%
Be 234.861†	-72852.2	-0.1890	mg/L	0.00108	-0.1890	mg/L	0.00108	0.57%
Be 313.042†	42.8	0.00052	mg/L	0.000009	0.00052	mg/L	0.000009	1.75%
Be 313.107†	42.8	0.00052	mg/L	0.000009	0.00052	mg/L	0.000009	1.75%
Ca 315.887†	353048.1	103.8	mg/L	0.41	103.8	mg/L	0.41	0.40%
QC value within limits for Ca 315.887 Recovery = 103.83%								
Ca 317.933†	337013.0	96.87	mg/L	0.406	96.87	mg/L	0.406	0.42%
Cd 214.440†	0.0	0.00000	mg/L	0.000000	0.00000	mg/L	0.000000	0.00%
Cd 226.502†	51.1	0.00134	mg/L	0.000023	0.00134	mg/L	0.000023	1.73%
Cd 228.802†	-2.2	-0.00051	mg/L	0.000337	-0.00051	mg/L	0.000337	66.18%
Ce 413.380†	28.9	0.01533	mg/L	0.032867	0.01533	mg/L	0.032867	214.44%
Ce 413.764†	-2.8	-0.00153	mg/L	0.005340	-0.00153	mg/L	0.005340	350.06%
Ce 418.660†	-35.9	-0.00962	mg/L	0.019055	-0.00962	mg/L	0.019055	198.10%
Co 228.616†	-70.1	-0.00163	mg/L	0.000027	-0.00163	mg/L	0.000027	1.66%
Co 230.786†	-1.9	-0.00178	mg/L	0.000908	-0.00178	mg/L	0.000908	51.00%
Co 238.892†	83.5	0.05104	mg/L	0.003277	0.05104	mg/L	0.003277	6.42%
Cr 205.560†	-1.7	-0.00597	mg/L	0.004005	-0.00597	mg/L	0.004005	67.08%
Cr 267.716†	-26.7	-0.00091	mg/L	0.000228	-0.00091	mg/L	0.000228	24.94%
Cr 283.563†	17.0	0.00405	mg/L	0.002160	0.00405	mg/L	0.002160	53.30%
Cu 224.700†	1.3	0.00172	mg/L	0.001694	0.00172	mg/L	0.001694	98.69%
Cu 324.752†	-41.2	-0.00369	mg/L	0.000397	-0.00369	mg/L	0.000397	10.77%
Cu 327.393†	-110.6	-0.00160	mg/L	0.000385	-0.00160	mg/L	0.000385	23.98%
Fe 238.204†	359809.8	92.96	mg/L	0.295	92.96	mg/L	0.295	0.32%
Fe 239.562†	278539.8	93.16	mg/L	0.323	93.16	mg/L	0.323	0.35%
Fe 259.939†	634220.5	96.87	mg/L	0.363	96.87	mg/L	0.363	0.37%
Fe 273.955†	100423.5	106.4	mg/L	0.26	106.4	mg/L	0.26	0.24%
QC value within limits for Fe 273.955 Recovery = 106.40%								
K 766.490†	64294.3	111.2	mg/L	0.32	111.2	mg/L	0.32	0.28%
QC value greater than the upper limit for K 766.490 Recovery = 111.17%								
Li 610.362†	-245.0	-0.03665	mg/L	0.003398	-0.03665	mg/L	0.003398	9.27%
Li 670.784†	-20.6	-0.00039	mg/L	0.001400	-0.00039	mg/L	0.001400	359.31%
Mg 279.077†	54746.3	61.18	mg/L	0.337	61.18	mg/L	0.337	0.55%
QC value within limits for Mg 279.077 Recovery = 101.97%								
Mg 280.271†	7901343.7	57.78	mg/L	0.525	57.78	mg/L	0.525	0.91%
Mg 285.213†	237116.5	55.03	mg/L	0.143	55.03	mg/L	0.143	0.26%
Mn 257.610†	61.3	0.00209	mg/L	0.000261	0.00209	mg/L	0.000261	12.51%
Mn 259.372†	4577.4	-0.00168	mg/L	0.001084	-0.00168	mg/L	0.001084	64.42%
Mn 260.568†	19.2	0.00100	mg/L	0.000108	0.00100	mg/L	0.000108	10.86%
Mo 202.031†	-7.0	-0.01901	mg/L	0.002734	-0.01901	mg/L	0.002734	14.38%
Mo 203.845†	1.0	0.00493	mg/L	0.001846	0.00493	mg/L	0.001846	37.44%
Mo 204.597†	16.0	0.00198	mg/L	0.000825	0.00198	mg/L	0.000825	41.77%
Na 588.995†	509997.1	98.41	mg/L	0.149	98.41	mg/L	0.149	0.15%
Na 589.592†	541621.9	102.5	mg/L	0.21	102.5	mg/L	0.21	0.20%
QC value within limits for Na 589.592 Recovery = 102.52%								
Ni 221.648†	1.5	0.00494	mg/L	0.002844	0.00494	mg/L	0.002844	57.57%
Ni 231.604†	20.1	0.00138	mg/L	0.000486	0.00138	mg/L	0.000486	35.18%
Ni 232.003†	5.0	0.01067	mg/L	0.004135	0.01067	mg/L	0.004135	38.75%
Pb 217.000†	-1.6	-0.01808	mg/L	0.023606	-0.01808	mg/L	0.023606	130.56%
Pb 220.353†	7.2	0.00258	mg/L	0.001599	0.00258	mg/L	0.001599	62.01%

Sb 206.836†	11.8	0.00520 mg/L	0.000710	0.00520 mg/L	0.000710	13.65%
Sb 217.582†	0.7	0.01012 mg/L	0.028123	0.01012 mg/L	0.028123	277.96%
Se 196.026†	-9.7	-0.00839 mg/L	0.005871	-0.00839 mg/L	0.005871	70.02%
Se 203.985†	6.2	0.01037 mg/L	0.002879	0.01037 mg/L	0.002879	27.76%
Sn 189.927†	-4.1	-0.00296 mg/L	0.000898	-0.00296 mg/L	0.000898	30.29%
Sn 235.485†	560.3	3.053 mg/L	0.2177	3.053 mg/L	0.2177	7.13%
Sr 407.771†	673.3	0.00320 mg/L	0.000116	0.00320 mg/L	0.000116	3.62%
Sr 421.552†	993.7	0.00357 mg/L	0.000073	0.00357 mg/L	0.000073	2.04%
Sr 460.733†	36.4	0.00308 mg/L	0.007319	0.00308 mg/L	0.007319	237.79%
Ti 334.940†	23.6	0.00099 mg/L	0.000066	0.00099 mg/L	0.000066	6.70%
Ti 336.121†	88.0	0.00447 mg/L	0.000254	0.00447 mg/L	0.000254	5.69%
Ti 337.279†	9.8	0.00116 mg/L	0.000306	0.00116 mg/L	0.000306	26.29%
Tl 190.801†	2.1	0.00235 mg/L	0.003018	0.00235 mg/L	0.003018	128.26%
Tl 276.787†	3896.1	0.8880 mg/L	0.00976	0.8880 mg/L	0.00976	1.10%
Tl 351.924†	0.0	0.00000 mg/L	0.000000	0.00000 mg/L	0.000000	0.00%
V 290.880†	18.1	0.00493 mg/L	0.000870	0.00493 mg/L	0.000870	17.64%
V 309.310†	-532.5	-0.08008 mg/L	0.003745	-0.08008 mg/L	0.003745	4.68%
V 310.230†	-2661.2	-0.01684 mg/L	0.000734	-0.01684 mg/L	0.000734	4.36%
Zn 202.548†	19.2	0.00458 mg/L	0.000599	0.00458 mg/L	0.000599	13.08%
Zn 206.200†	-3.0	-0.00323 mg/L	0.000782	-0.00323 mg/L	0.000782	24.24%
Zn 213.857†	70.0	0.00753 mg/L	0.001768	0.00753 mg/L	0.001768	23.46%

QC Failed. Continue with analysis.