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# STL

STL St. Louis  
13715 Rider Trail North  
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## ANALYTICAL REPORT

PROJECT NO. PHASE A WELLS

Henderson, NV Source Area Inv.

Lot #: F7E150119  
SDG #: ENSR051207

Robert Kennedy

ENSR International Corporation  
2 Technology Park Drive  
Westford, MA 01886

SEVERN TRENT LABORATORIES, INC.

  
Jerry Everett  
Project Manager

June 5, 2007

**Case Narrative**  
**SDG Number: ENSR051207**

This report contains the analytical results for the 12 samples received under chain of custody by STL St. Louis on May 11, 2007. These samples are associated with your Henderson, NV Source Area Inv. project.

The analytical results included in this report meet all applicable quality control procedure requirements except as noted on the following pages.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by STL St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise.

**Observations/Nonconformances**

**I. Sample Receipt and Log In**

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

**II. Sample Analysis**

Hexavalent Chromium by SW846 7199 was subcontracted to STL Los Angeles

**ICP-MS Metals by SW846 6020**

Batch: 7135271

The associated samples were analyzed at dilutions due to high concentrations of target analytes. The reporting limit has been adjusted only for those targets reported from the dilution run.

**Affected Samples:**

F7E150126 (1): M11-F	F7E150126 (7): M97-F
F7E150126 (2): M11-Z	F7E150126 (8): M97-Z
F7E150126 (3): M89-L	F7E150126 (9): M12A-L
F7E150126 (4): M89-F	F7E150126 (10): M12A-F
F7E150126 (5): M89-Z	F7E150126 (11): M12A-Z
F7E150126 (6): M97-L	

Batch: 7135271

The MS and/or MSD recoveries for boron, sodium, and chromium are outside the established QC limits. The analyte concentration in the original sample is greater than four times the amount spiked, making percent recovery information ineffective. Method performance is demonstrated by acceptable LCS recovery.

The MS and/or MSD recoveries for iron are outside the established QC limits. The RPD is within method acceptance criteria indicating a possible matrix interference. Method performance is demonstrated by acceptable LCS recovery.

**Affected Samples:**

F7E150126 (1): M11-F	F7E150126 (7): M97-F
F7E150126 (2): M11-Z	F7E150126 (8): M97-Z
F7E150126 (3): M89-L	F7E150126 (9): M12A-L
F7E150126 (4): M89-F	F7E150126 (10): M12A-F
F7E150126 (5): M89-Z	F7E150126 (11): M12A-Z
F7E150126 (6): M97-L	F7E150126 (12): EB051107-Z

**Hexavalent Chromium by SW846 7199**

The associated samples were received in the laboratory with less than 50% of the holding time left. It is STL Los Angeles policy to analyze all samples within holding times, but when they are received with less than half of their hold time remaining, this cannot be guaranteed. Based on the COC sample times, the associated samples missed the 24 hour hold time.

**Affected Samples:**

F7E150119 (2): M11-Z	F7E150119 (6): M97-L
F7E150119 (3): M89-L	F7E150119 (7): M97-F
F7E150119 (4): M89-F	F7E150119 (8): M97-Z
F7E150119 (5): M89-Z	F7E150119 (12): EB051107-Z



**F7E150119****CLIENT ANALYSIS SUMMARY**

Storage Loc:

**SUB**

Project Manager: JAE

Quote #: 75203 SDG:

Date Received: 2007-05-15

Project: PHASE A WELLS

Henderson, NV Source Area Inv.

Analytical Due Date: 2007-05-28

PO#:

Report to: Robert Kennedy

Report Due Date: 2007-05-31

Client: 456833 ENSR International Corporation

#SMPS in LOT: 12

Report Type: D Expanded Deliverable

EDD Code: EQUISTICS

Sample Receipt Notification Required - Robert Kennedy Client will ship sub-contracted samples direct to labs STL St. Louis will log in all the samples in St. Louis from COC's provided in the coolers. (Duplicate chains should be pink) RAW DATA PACKAGES REQUIRED PLEASE REPORT BY SDG STL LA - Hexavalent Chromium

STL Richland - RAD QC Requirements: ALL TESTS

Client will specify QC on COC. Do not report other client batch QC with ENSR results. If a batch does not have client specified QC pick a sample for QC, if insufficient

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>Site ID</u>	<u>Client Matrix</u>	<u>DATE/TIME SAMPLED</u>	<u>WORKORDER</u>	<u>!</u>
1	M11-F			2007-05-11 / 1325	JW0FH	WATER
<u>SAMPLE COMMENTS:</u>						
XX 2X	SW846 7199	Chromium, Hexavalent by Ion Chromatography (7199)	87	FILTRATION (DISS)	01 STANDARD TEST SET	PROT: A WRK LOC 05
2	M11-Z			2007-05-11 / 1320	JW0FP	WATER
<u>SAMPLE COMMENTS:</u>						
XX 2X	SW846 7199	Chromium, Hexavalent by Ion Chromatography (7199)	87	FILTRATION (DISS)	01 STANDARD TEST SET	PROT: A WRK LOC 05
3	M89-L			2007-05-11 / 1335	JW0FR	WATER
<u>SAMPLE COMMENTS:</u>						
XX 2X	SW846 7199	Chromium, Hexavalent by Ion Chromatography (7199)	87	FILTRATION (DISS)	01 STANDARD TEST SET	PROT: A WRK LOC 05
4	M89-F			2007-05-11 / 1340	JW0FV	WATER
<u>SAMPLE COMMENTS:</u>						
XX 2X	SW846 7199	Chromium, Hexavalent by Ion Chromatography (7199)	87	FILTRATION (DISS)	01 STANDARD TEST SET	PROT: A WRK LOC 05
5	M89-Z			2007-05-11 / 1345	JW0FX	WATER
<u>SAMPLE COMMENTS:</u>						
XX 2X	SW846 7199	Chromium, Hexavalent by Ion Chromatography (7199)	87	FILTRATION (DISS)	01 STANDARD TEST SET	PROT: A WRK LOC 05
6	M97-L			2007-05-11 / 1410	JW0F0	WATER
<u>SAMPLE COMMENTS:</u>						
XX 2X	SW846 7199	Chromium, Hexavalent by Ion Chromatography (7199)	87	FILTRATION (DISS)	01 STANDARD TEST SET	PROT: A WRK LOC 05
7	M97-F			2007-05-11 / 1415	JW0F2	WATER
<u>SAMPLE COMMENTS:</u>						
XX 2X	SW846 7199	Chromium, Hexavalent by Ion Chromatography (7199)	87	FILTRATION (DISS)	01 STANDARD TEST SET	PROT: A WRK LOC 05
8	M97-Z			2007-05-11 / 1420	JW0F4	WATER
<u>SAMPLE COMMENTS:</u>						
XX 2X	SW846 7199	Chromium, Hexavalent by Ion Chromatography (7199)	87	FILTRATION (DISS)	01 STANDARD TEST SET	PROT: A WRK LOC 05
9	M12A-L			2007-05-11 / 1235	JW0F5	WATER
<u>SAMPLE COMMENTS:</u>						

**F7E150119**

**CLIENT ANALYSIS SUMMARY**

Storage Loc: **SUB**  
 Date Received: 2007-05-15  
 Analytical Due Date: 2007-05-28  
 Report Due Date: 2007-05-31  
 Report Type: D Expanded Deliverable  
 EDD Code: EQUISTICS

Project Manager: JAE Quote #: 75203 SDG:  
 Project: PHASE A WELLS Henderson, NV Source Area Inv.  
 PO#: Report to: Robert Kennedy  
 Client: 456833 ENSR International Corporation

#SMPS in LOT: 12

Sample Receipt Notification Required - Robert Kennedy Client will ship sub-contracted samples direct to labs STL St. Louis will log in all the samples in St. Louis from COC's provided in the coolers. (Duplicate chains should be pink) RAW DATA PACKAGES REQUIRED PLEASE REPORT BY SDG STL LA - Hexavalent Chromium  
 STL Richland - RAD QC Requirements: ALL TESTS  
 Client will specify QC on COC. Do not report other client batch QC with ENSR results. If a batch does not have client specified QC pick a sample for QC, if insufficient

XX 2X SW846 7199 Chromium, Hexavalent by Ion 87 FILTRATION 01 STANDARD TEST SET PROT: A WRK 05  
 Chromatography (7199) (DISS) LOC

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	!
10	M12A-F			2007-05-11 / 1300	JW0F7	WATER

SAMPLE COMMENTS:

XX 2X SW846 7199 Chromium, Hexavalent by Ion 87 FILTRATION 01 STANDARD TEST SET PROT: A WRK 05  
 Chromatography (7199) (DISS) LOC

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	!
11	M12A-Z			2007-05-11 / 1250	JW0F8	WATER

SAMPLE COMMENTS:

XX 2X SW846 7199 Chromium, Hexavalent by Ion 87 FILTRATION 01 STANDARD TEST SET PROT: A WRK 05  
 Chromatography (7199) (DISS) LOC

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	!
12	EB051107-Z			2007-05-11 / 1435	JW0GA	WATER

SAMPLE COMMENTS:

XX 2X SW846 7199 Chromium, Hexavalent by Ion 87 FILTRATION 01 STANDARD TEST SET PROT: A WRK 05  
 Chromatography (7199) (DISS) LOC

**F7E150119****CLIENT COMMENTS SUMMARY**

Storage Loc:

**SUB**

Project Manager: JAE

Quote #: 75203 SDG:

Date Received: 2007-05-15

Project: PHASE A WELLS

Henderson, NV Source Area Inv.

Analytical Due Date: 2007-05-28

PO#:

Report to: Robert Kennedy

Report Due Date: 2007-05-31

Client: 456833 ENSR International Corporation

#SMPS in LOT: 12

Report Type: D Expanded Deliverable

EDD Code: EQUISTICS

Sample Receipt Notification Required - Robert Kennedy  
 Client will ship sub-contracted samples direct to labs  
 STL St. Louis will log in all the samples in St. Louis from  
 COC's provided in the coolers. (Duplicate chains should be  
 pink) RAW DATA PACKAGES REQUIRED PLEASE REPO  
 STL LA - Hexavalent Chromium  
 STL Richland - RAD

## QC Requirements: ALL TESTS

Client will specify QC on COC. Do not report other client  
 batch QC with ENSR results. If a batch does not have  
 client specified QC pick a sample for QC, if insufficient  
 sample volume run LCS/LCSD.

## RAW DATA PACKAGES REQUIRED - PLEASE REPORT B

Please try to maximize ENSR batches when possible.

## WET CHEM QC:

Batching rules above apply: MS/MSDs should be logged in and  
 run as standard QC for all applicable wet chemistry TESTS  
 when client specified QC is requested.

## RAD QC:

Standard rad QC is acceptable - Duplicates should be logged  
 in for RAD tests when client specified QC is requested.

Sample volume issues/ QC failures - Client wishes to be  
 notified of major QC issues resulting in qualified data.

Client may wish to re-sample rather than report out of  
 hold data or other major QC failures that could be corrected  
 with additional sample volume. Please notified PM  
 immediately if this situation occurs.

Metals Serial Dilution forms %D's are to be manually  
 calculated for all positive results.

METALS ICP/MS Internal Standards forms - % recoveries must  
 be manually generated.

METALS Mercury ICB/CCB forms are to be reviewed for  
 truncated errors (0.0) values. The correct values are to be  
 manually entered.



STL Los Angeles  
1721 South Grand Avenue

Santa Ana, CA 92705  
phone 714-258-8610 fax 714-258-0921

Chain of Custody Record

Severn Trent Laboratories, Inc.

Client Contact		Project Manager: Robert Kennedy Tel/Fax: (978) 589-3324		Site Contact: Brian HD Lab Contact: <del>Melinda Harris</del>		Date: 5/11/07 Carrier: FBO EX		COC No: DS1107-3 of 1 COCs	
2 Technology Park Dr. Westford/MA/01886-3140 (978) 589-3324 (978) 589-3282		Analysis Turnaround Time Calendar (C) or Work Days (W) TAT if different from Below: 21 DAYS <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		TetraValent Chromium (7199)		Job No.		SDG No. 04020-023-401	
Project Name: Source Area Investigation Site: Henderson, NV P O #		Sample Date		Sample Time		Sample Type		Matrix	
Sample Identification		Sample Date		Sample Time		Sample Type		Matrix	
M11-F		5/11/07 1325		W		W		W	
M11-Z		1320		W		W		W	
M89-L		1335		W		W		W	
M89-F		1340		W		W		W	
M89-Z		1345		W		W		W	
M97-L		1410		W		W		W	
M97-F		1415		W		W		W	
M97-Z		1420		W		W		W	
M12A-L		1335		W		W		W	
M12A-F		1300		W		W		W	
M12A-Z		1250		W		W		W	
EBS1107-Z		↓		W		W		W	

Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Special Instructions/QC Requirements & Comments:  
 Coordinate sample reception with Melinda Harris (STL - St. Louis)  
 Jerry Everett

Relinquished by: ZOE DIERMIER	Company: ENSR	Date/Time: 5/14/07 16:15	Received by: [Signature]	Company: STL	Date/Time: 5/12/07 1045
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

# STL

Lot #(s):  
- 1279 -

7 JAE 5-15-07  
FBE150117  
119  
126

Client: Tronox COC/RFA No: 051107-2 Condition Upon Receipt Form  
Quote No: \_\_\_\_\_ Initiated By: AB Date: 5-12-07  
Time: 9:00

### Shipping Information

Shipper Name: FedEx Multiple Packages Y  N  
Shipping # (s): ABS-14-07 Sample Temperature (s):\*\*  
1. Tronox 6. \_\_\_\_\_ 1. 20 6. \_\_\_\_\_  
2. \_\_\_\_\_ 7. \_\_\_\_\_ 2. \_\_\_\_\_ 7. \_\_\_\_\_  
3. 86078345 5294 8. \_\_\_\_\_ 3. \_\_\_\_\_ 8. \_\_\_\_\_  
4. \_\_\_\_\_ 9. \_\_\_\_\_ 4. \_\_\_\_\_ 9. \_\_\_\_\_  
5. \_\_\_\_\_ 10. \_\_\_\_\_ 5. \_\_\_\_\_ 10. \_\_\_\_\_

\*Numbered shipping lines correspond to Numbered Sample Temp lines

\*\*Sample must be received at 4°C ± 2°C. If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Was sample received broken?	8.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Sample received with Chain of Custody?
2.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A	Was sample received with proper pH <sup>1</sup> ? (If not, make note below)	9.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Chain of Custody matches sample ID's on container(s)?
3.	<input type="checkbox"/> Y <input type="checkbox"/> N	If N/A- Was pH taken by original STL Lab?	10.	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	Are there custody seals present on cooler?
4.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Sample received in proper containers?	11.	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> N/A	Do custody seals on cooler appear to be tampered with?
5.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Sample volume sufficient for analysis?	12.	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	Are there custody seals present on bottles?
6.	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)	13.	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> N/A	Do custody seals on bottles appear to be tampered with?
7.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Were contents of cooler frisked after opening, but before unpacking?	14.	<input type="checkbox"/> Y <input type="checkbox"/> N	Was Internal COC/Workshare received?

<sup>1</sup> For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.

### Notes:

### Corrective Action:

Client Contact Name: \_\_\_\_\_ Informed by: \_\_\_\_\_

Sample(s) processed "as is"

Sample(s) on hold until: \_\_\_\_\_ If released, notify: \_\_\_\_\_

Project Management Review: [Signature] Date: 5-15-07

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

**F7E150126**

**CLIENT ANALYSIS SUMMARY**

Storage Loc:

**METS**

Project Manager: JAE      Quote #: 75203      SDG:  
 Project: PHASE A WELLS      Henderson, NV Source Area Inv.  
 PO#:      Report to: Robert Kennedy  
 Client: 456833      ENSR International Corporation

Date Received: 2007-05-15  
 Analytical Due Date: 2007-05-28  
 Report Due Date: 2007-05-31  
 Report Type: D      Expanded Deliverable  
 EDD Code: EQUISTICS

#SMPS in LOT: 12

Sample Receipt Notification Required - Robert Kennedy Client will ship sub-contracted samples direct to labs STL St. Louis will log in all the samples in St. Louis from  
 COC's provided in the coolers. (Duplicate chains should be pink)      RAW DATA PACKAGES REQUIRED PLEASE REPORT BY SDG STL LA - Hexavalent Chromium  
 STL Richland - RAD QC Requirements: ALL TESTS  
 Client will specify QC on COC. Do not report other client batch QC with ENSR results. If a batch does not have client specified QC pick a sample for QC, if insufficient

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	
1	M11-F			2007-05-11 / 700	JW0G7	WATER
<b>SAMPLE COMMENTS:</b>						
SE MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
AG MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
ZN MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
W MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
VX MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
UX MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
TL MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
TI MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
SN MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
SB MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
PT MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
PB MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
NI MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
NA MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
MO MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
AS MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
SR MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
AL MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
MN MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
BA MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
BE MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
BX MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
CA MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
CD MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
CO MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
CR MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
CU MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
FE MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
KX MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
MG MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
HG O8	SW846 7470A	19	METALS, TOTAL (Method exclusive) - Waters	01	STANDARD TEST SET	PROT: A WRK LOC 06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	
2	M11-Z			2007-05-11 / 655	JW0G9	WATER
<b>SAMPLE COMMENTS:</b>						

**F7E150126**

**CLIENT ANALYSIS SUMMARY**

Storage Loc:

**METS**

Project Manager: JAE Quote #: 75203 SDG:  
 Project: PHASE A WELLS Henderson, NV Source Area Inv.  
 PO#: Report to: Robert Kennedy  
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 STL Richland - RAD QC Requirements: ALL TESTS  
 Client will specify QC on COC. Do not report other client batch QC with ENSR results. If a batch does not have client specified QC pick a sample for QC, if insufficient

VX MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
NA MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
NI MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
PB MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
PT MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
SB MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
SE MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
SN MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
SR MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
TI MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
ZN MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
UX MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
MO MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
W MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CA MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
TL MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
AL MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CO MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
AG MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
MN MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
AS MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
BA MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
BE MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
BX MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CR MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CU MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
FE MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
KX MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
MG MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CD MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
HG O8	SW846 7470A	Mercury (7470A, Cold Vapor) - Liquid	19	METALS, TOTAL (Method exclusive) - Waters	01	STANDARD TEST SET	PROT: A	WRK LOC	06

**SAMPLE #** 3 **CLIENT SAMPLE ID** M89-L **Site ID** **Client Matrix** **DATE/TIME SAMPLED** 2007-05-11 / 830 **WORKORDER** JW0HA **I** WATER

**SAMPLE COMMENTS:**

VX MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
MO MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
NA MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06

**F7E150126**

**CLIENT ANALYSIS SUMMARY**

Storage Loc:

**METS**

Project Manager: JAE      Quote #: 75203      SDG:  
 Project: PHASE A WELLS      Henderson, NV Source Area Inv.  
 PO#:      Report to: Robert Kennedy  
 Client: 456833      ENSR International Corporation

Date Received: 2007-05-15  
 Analytical Due Date: 2007-05-28  
 Report Due Date: 2007-05-31  
 Report Type: D      Expanded Deliverable  
 EDD Code: EQUISTICS

#SMPS in LOT: 12

**Sample Receipt Notification Required - Robert Kennedy Client will ship sub-contracted samples direct to labs STL St. Louis will log in all the samples in St. Louis from COC's provided in the coolers. (Duplicate chains should be pink)      RAW DATA PACKAGES REQUIRED PLEASE REPORT BY SDG STL LA - Hexavalent Chromium**

**STL Richland - RAD QC Requirements: ALL TESTS**

**Client will specify QC on COC. Do not report other client batch QC with ENSR results. If a batch does not have client specified QC pick a sample for QC, if insufficient**

NI	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
PB	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
PT	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
SB	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
SE	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
SN	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
ZN	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
UX	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
W	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
MN	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
SR	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
TI	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
AS	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
AL	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
BA	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
BE	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
TL	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
BX	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
AG	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CA	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CO	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CR	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CU	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
FE	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
KX	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CD	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
MG	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
HG	OB	SW846	7470A	Mercury (7470A, Cold Vapor) - Liquid	19	METALS, TOTAL (Method exclusive) - Waters	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
4	M89-F			2007-05-11 / 900	JW0HC	WATER
<b>SAMPLE COMMENTS:</b>						
W	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL
NI	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL
PB	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL
PT	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL
SB	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL
SE	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL



**F7E150126**

**CLIENT ANALYSIS SUMMARY**

Storage Loc:

**METS**

Project Manager: JAE      Quote #: 75203      SDG:  
 Project: PHASE A WELLS      Henderson, NV Source Area Inv.  
 PO#:      Report to: Robert Kennedy  
 Client: 456833      ENSR International Corporation

Date Received: 2007-05-15  
 Analytical Due Date: 2007-05-28  
 Report Due Date: 2007-05-31  
 Report Type: D Expanded Deliverable  
 EDD Code: EQUISTICS

#SMPS in LOT: 12

Sample Receipt Notification Required - Robert Kennedy Client will ship sub-contracted samples direct to labs STL St. Louis will log in all the samples in St. Louis from COC's provided in the coolers. (Duplicate chains should be pink) RAW DATA PACKAGES REQUIRED PLEASE REPORT BY SDG STL LA - Hexavalent Chromium  
 STL Richland - RAD QC Requirements: ALL TESTS  
 Client will specify QC on COC. Do not report other client batch QC with ENSR results. If a batch does not have client specified QC pick a sample for QC, if insufficient

SN	MH	SW	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
SR	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
TI	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
TL	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
VX	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
ZN	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
NA	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
MG	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
UX	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
AL	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
MO	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
AG	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
MN	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
AS	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
BA	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
BE	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
BX	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CA	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CO	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CR	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CU	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
FE	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
KX	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CD	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
HG	OB	SW846	7470A	Mercury (7470A, Cold Vapor) - Liquid	19	METALS, TOTAL (Method exclusive) - Waters	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
5	M89-Z			2007-05-11 / 850	JW0HD	WATER

**SAMPLE COMMENTS:**

ZN	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
NA	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
NI	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
PB	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
PT	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
SB	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
SE	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
SN	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
SR	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06

**F7E150126**

**CLIENT ANALYSIS SUMMARY**

Storage Loc:

**METS**

Project Manager: JAE Quote #: 75203 SDG:  
 Project: PHASE A WELLS Henderson, NV Source Area Inv.  
 PO#: Report to: Robert Kennedy  
 Client: 456833 ENSR International Corporation

Date Received: 2007-05-15  
 Analytical Due Date: 2007-05-28  
 Report Due Date: 2007-05-31  
 Report Type: D Expanded Deliverable  
 EDD Code: EQUISTICS

#SMPS in LOT: 12

Sample Receipt Notification Required - Robert Kennedy Client will ship sub-contracted samples direct to labs STL St. Louis will log in all the samples in St. Louis from COC's provided in the coolers. (Duplicate chains should be pink) RAW DATA PACKAGES REQUIRED PLEASE REPORT BY SDG STL LA - Hexavalent Chromium  
 STL Richland - RAD QC Requirements: ALL TESTS  
 Client will specify QC on COC. Do not report other client batch QC with ENSR results. If a batch does not have client specified QC pick a sample for QC, if insufficient

TI	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
W	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
UX	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
VX	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
MO	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
AL	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
TL	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
BE	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
BA	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
MN	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
AS	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
BX	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CA	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CD	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
KX	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CR	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CU	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
FE	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CO	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
AG	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
MG	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
HG	O8	SW846	7470A	Mercury (7470A, Cold Vapor) - Liquid	19	METALS, TOTAL (Method exclusive) - Waters	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
6	M97-L			2007-05-11 / 1040	JWOHE	WATER
<b>SAMPLE COMMENTS:</b>						
FE	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL
KX	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL
MG	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL
MN	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL
MO	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL
NI	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL
SB	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL
CU	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL
AL	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL
NA	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL
CR	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL
CO	MH	SW846	6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL

**F7E150126**

**CLIENT ANALYSIS SUMMARY**

Storage Loc:

**METS**

Project Manager: JAE      Quote #: 75203      SDG:  
 Project: PHASE A WELLS      Henderson, NV Source Area Inv.  
 PO#:      Report to: Robert Kennedy  
 Client: 456833      ENSR International Corporation

Date Received: 2007-05-15  
 Analytical Due Date: 2007-05-28  
 Report Due Date: 2007-05-31  
 Report Type: D      Expanded Deliverable  
 EDD Code: EQUISTICS

#SMPS in LOT: 12

**Sample Receipt Notification Required - Robert Kennedy Client will ship sub-contracted samples direct to labs STL St. Louis will log in all the samples in St. Louis from COC's provided in the coolers. (Duplicate chains should be pink) RAW DATA PACKAGES REQUIRED PLEASE REPORT BY SDG STL LA - Hexavalent Chromium**  
**STL Richland - RAD QC Requirements: ALL TESTS**  
**Client will specify QC on COC. Do not report other client batch QC with ENSR results. If a batch does not have client specified QC pick a sample for QC, if insufficient**

CD MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CA MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
BX MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
BE MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
AS MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
AG MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
PT MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
BA MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
W MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
PB MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
ZN MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
VX MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
UX MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
TL MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
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SR MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
SN MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
SE MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
HG O8	SW846 7470A	Mercury (7470A, Cold Vapor) - Liquid	19	METALS, TOTAL (Method exclusive) - Waters	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	
7	M97-F			2007-05-11 / 1100	JW0HF	WATER

**SAMPLE COMMENTS:**

ZN MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
SN MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
MO MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
NI MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
PT MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
SB MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
SE MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
SR MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
TI MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
TL MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
UX MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
MN MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
W MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
NA MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
VX MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06

**F7E150126**

**CLIENT ANALYSIS SUMMARY**

Storage Loc:

**METS**

Project Manager: JAE      Quote #: 75203      SDG:  
 Project: PHASE A WELLS      Henderson, NV Source Area Inv.  
 PO#:      Report to: Robert Kennedy  
 Client: 456833      ENSR International Corporation

Date Received: 2007-05-15  
 Analytical Due Date: 2007-05-28  
 Report Due Date: 2007-05-31  
 Report Type: D Expanded Deliverable  
 EDD Code: EQUISTICS

#SMPS in LOT: 12

Sample Receipt Notification Required - Robert Kennedy Client will ship sub-contracted samples direct to labs STL St. Louis will log in all the samples in St. Louis from COC's provided in the coolers. (Duplicate chains should be pink) RAW DATA PACKAGES REQUIRED PLEASE REPORT BY SDG STL LA - Hexavalent Chromium  
 STL Richland - RAD QC Requirements: ALL TESTS  
 Client will specify QC on COC. Do not report other client batch QC with ENSR results. If a batch does not have client specified QC pick a sample for QC, if insufficient

CA MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
AG MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
PB MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
MG MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
AS MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
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BX MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
AL MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
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CR MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
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KX MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
BE MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
HG O8	SW846 7470A	Mercury (7470A, Cold Vapor) - Liquid	19	METALS, TOTAL (Method exclusive) - Waters	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	
8	M97-Z			2007-05-11 / 1115	JW0HJ	WATER

SAMPLE COMMENTS:

SN MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
NI MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
PB MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
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BA MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06

**F7E150126**

**CLIENT ANALYSIS SUMMARY**

Storage Loc:

**METS**

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 COC's provided in the coolers. (Duplicate chains should be pink)      RAW DATA PACKAGES REQUIRED PLEASE REPORT BY SDG STL LA - Hexavalent Chromium  
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SAMPLE #      CLIENT SAMPLE ID      Site ID      Client Matrix      DATE/TIME SAMPLED      WORKORDER      I  
 9      M12A-L                     2007-05-11 / 1235      JW0HK      WATER

SAMPLE COMMENTS:

SN MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
NA MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
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BE MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06

**F7E150126**

**CLIENT ANALYSIS SUMMARY**

Storage Loc:

**METS**

Project Manager: JAE      Quote #: 75203      SDG:  
 Project: PHASE A WELLS      Henderson, NV Source Area Inv.  
 PO#:      Report to: Robert Kennedy  
 Client: 456833      ENSR International Corporation

Date Received: 2007-05-15  
 Analytical Due Date: 2007-05-28  
 Report Due Date: 2007-05-31  
 Report Type: D Expanded Deliverable  
 EDD Code: EQUISTICS

#SMPS in LOT: 12

**Sample Receipt Notification Required - Robert Kennedy Client will ship sub-contracted samples direct to labs STL St. Louis will log in all the samples in St. Louis from COC's provided in the coolers. (Duplicate chains should be pink) RAW DATA PACKAGES REQUIRED PLEASE REPORT BY SDG STL LA - Hexavalent Chromium**  
**STL Richland - RAD QC Requirements: ALL TESTS**  
**Client will specify QC on COC. Do not report other client batch QC with ENSR results. If a batch does not have client specified QC pick a sample for QC, if insufficient**

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HG O8	SW846 7470A	Mercury (7470A, Cold Vapor) - Liquid	19	METALS, TOTAL (Method exclusive) - Waters	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
10	M12A-F			2007-05-11 / 1300	JW0HL	WATER

**SAMPLE COMMENTS:**

ZN MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
MO MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
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TL MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
VX MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
MN MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
UX MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
TI MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
BE MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
MG MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
W MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
AG MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
AL MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
BA MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
BX MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CA MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CD MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06

**F7E150126**

**CLIENT ANALYSIS SUMMARY**

Storage Loc:

**METS**

Project Manager: JAE      Quote #: 75203      SDG:  
 Project: PHASE A WELLS      Henderson, NV Source Area Inv.  
 PO#:      Report to: Robert Kennedy  
 Client: 456833      ENSR International Corporation

Date Received: 2007-05-15  
 Analytical Due Date: 2007-05-28  
 Report Due Date: 2007-05-31  
 Report Type: D Expanded Deliverable  
 EDD Code: EQUISTICS

#SMPS in LOT: 12

**Sample Receipt Notification Required - Robert Kennedy Client will ship sub-contracted samples direct to labs STL St. Louis will log in all the samples in St. Louis from COC's provided in the coolers. (Duplicate chains should be pink) RAW DATA PACKAGES REQUIRED PLEASE REPORT BY SDG STL LA - Hexavalent Chromium**  
**STL Richland - RAD QC Requirements: ALL TESTS**  
**Client will specify QC on COC. Do not report other client batch QC with ENSR results. If a batch does not have client specified QC pick a sample for QC, if insufficient**

CO MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CR MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CU MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
FE MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
KX MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
AS MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
HG O8	SW846 7470A	Mercury (7470A, Cold Vapor) - Liquid	19	METALS, TOTAL (Method exclusive) - Waters	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	I
11	M12A-Z			2007-05-11 / 1250	JWOHN	WATER
<b>SAMPLE COMMENTS:</b>						
ZN MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
SE MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
NA MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
NI MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
PB MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
PT MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
SB MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
SN MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
SR MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
TI MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
TL MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
UX MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
MO MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
W MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
FE MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
VX MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
AS MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
AL MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
MN MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
BA MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
BE MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
BX MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
CA MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
CO MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
CR MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
CU MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06
KX MH	SW846 6020	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A WRK LOC 06

**F7E150126**

**CLIENT ANALYSIS SUMMARY**

Storage Loc:

**METS**

Project Manager: JAE

Quote #: 75203 SDG:

Date Received: 2007-05-15

Project: PHASE A WELLS

Henderson, NV Source Area Inv.

Analytical Due Date: 2007-05-28

PO#:

Report to: Robert Kennedy

Report Due Date: 2007-05-31

Client: 456833 ENSR International Corporation

#SMPS in LOT: 12

Report Type: D Expanded Deliverable

EDD Code: EQUISTICS

Sample Receipt Notification Required - Robert Kennedy Client will ship sub-contracted samples direct to labs STL St. Louis will log in all the samples in St. Louis from

COC's provided in the coolers. (Duplicate chains should be pink) RAW DATA PACKAGES REQUIRED PLEASE REPORT BY SDG STL LA - Hexavalent Chromium

STL Richland - RAD QC Requirements: ALL TESTS

Client will specify QC on COC. Do not report other client batch QC with ENSR results. If a batch does not have client specified QC pick a sample for QC, if insufficient

MG MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CD MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
AG MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
HG O8	SW846 7470A	Mercury (7470A, Cold Vapor) - Liquid	19	METALS, TOTAL (Method exclusive) - Waters	01	STANDARD TEST SET	PROT: A	WRK LOC	06

SAMPLE #	CLIENT SAMPLE ID	Site ID	Client Matrix	DATE/TIME SAMPLED	WORKORDER	!
12	EB051107-Z			2007-05-11 / 1435	JW0HP	WATER

**SAMPLE COMMENTS:**

AG MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CO MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
CD MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
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AL MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
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MG MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
MN MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
MO MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
NA MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
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UX MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
VX MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
W MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06
PB MH	SW846 6020	Inductively Coupled Plasma Mass Spectrometry(6020)	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC	06



**F7E150126****CLIENT ANALYSIS SUMMARY**

Storage Loc:

**METS**

Project Manager: JAE

Quote #: 75203 SDG:

Date Received: 2007-05-15

Project: PHASE A WELLS

Henderson, NV Source Area Inv.

Analytical Due Date: 2007-05-28

PO#:

Report to: Robert Kennedy

Report Due Date: 2007-05-31

Client: 456833 ENSR International Corporation

#SMPS in LOT: 12

Report Type: D Expanded Deliverable

EDD Code: EQUISTICS

Sample Receipt Notification Required - Robert Kennedy Client will ship sub-contracted samples direct to labs STL St. Louis will log in all the samples in St. Louis from

COC's provided in the coolers. (Duplicate chains should be pink) RAW DATA PACKAGES REQUIRED PLEASE REPORT BY SDG STL LA - Hexavalent Chromium

STL Richland - RAD QC Requirements: ALL TESTS

Client will specify QC on COC. Do not report other client batch QC with ENSR results. If a batch does not have client specified QC pick a sample for QC, if insufficient

HG 08	SW846 7470A	Mercury (7470A, Cold Vapor) - Liquid	19	METALS, TOTAL (Method exclusive) - Waters	01	STANDARD TEST SET	PROT: A	WRK LOC	06
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**F7E150126****CLIENT COMMENTS SUMMARY**

Storage Loc:

**METS**

Project Manager: JAE

Quote #: 75203 SDG:

Date Received: 2007-05-15

Project: PHASE A WELLS

Henderson, NV Source Area Inv.

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Sample Receipt Notification Required - Robert Kennedy  
 Client will ship sub-contracted samples direct to labs  
 STL St. Louis will log in all the samples in St. Louis from  
 COC's provided in the coolers. (Duplicate chains should be  
 pink) RAW DATA PACKAGES REQUIRED PLEASE REPO  
 STL LA - Hexavalent Chromium  
 STL Richland - RAD

## QC Requirements: ALL TESTS

Client will specify QC on COC. Do not report other client  
 batch QC with ENSR results. If a batch does not have  
 client specified QC pick a sample for QC, if insufficient  
 sample volume run LCS/LCSD.

## RAW DATA PACKAGES REQUIRED - PLEASE REPORT B

Please try to maximize ENSR batches when possible.

## WET CHEM QC:

Batching rules above apply: MS/MSDs should be logged in and  
 run as standard QC for all applicable wet chemistry TESTS  
 when client specified QC is requested.

## RAD QC:

Standard rad QC is acceptable - Duplicates should be logged  
 in for RAD tests when client specified QC is requested.  
 Sample volume issues/ QC failures - Client wishes to be  
 notified of major QC issues resulting in qualified data.  
 Client may wish to re-sample rather than report out of  
 hold data or other major QC failures that could be corrected  
 with additional sample volume. Please notified PM  
 immediately if this situation occurs.

Metals Serial Dilution forms %D's are to be manually  
 calculated for all positive results.

METALS ICP/MS Internal Standards forms - % recoveries must  
 be manually generated.

METALS Mercury ICB/CCB forms are to be reviewed for  
 truncated errors (0.0) values. The correct values are to be  
 manually entered.

**Chain of Custody Record**

Severn Trent Laboratories, Inc.

Client Contact		Project Manager: Robert Kennedy Tel/Fax: (978) 589-3324		Site Contact: <b>Brian Ho</b> Lab Contact: <b>Melania Harris</b>		Date: <b>5-11-07</b> Carrier: <b>FED EX</b>		COC No: <b>051107-2</b> Job No. <b>1</b> of <b>1</b> COCs											
2 Technology Park Dr. Westford/MA/01886-3140 (978) 589-3324 Phone (978) 589-3282 FAX Project Name: Source Area Investigation Site: Henderson, NV P.O.#		Analysis Turnaround Time Calendar (C) or Work Days (W) TAT if different from below: <b>21 DAYS</b> <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Metals, Total (6010B) Metals, Dissolved (6010B) VOCs (8260B/8035**) SVOCs (8270C) SVOCs (8270 SIM) PCBs (8082) TPH (8015M/5035**/3550) Perchlorate (3140) OCPs (8081A) OCHs (8151) General Chemistry Fuel Alcohols (8015B)		SDG No. <b>04020-023-401</b>		Sample Specific Notes:											
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Metals, Total (6010B)	Metals, Dissolved (6010B)	VOCs (8260B/8035**)	SVOCs (8270C)	SVOCs (8270 SIM)	PCBs (8082)	TPH (8015M/5035**/3550)	Perchlorate (3140)	OCPs (8081A)	OCHs (8151)	General Chemistry	Fuel Alcohols (8015B)	
M11-F	5/11/07	0700		W	1	X	X	X											
M11-Z		0655		W	1	X	X	X											
M89-L		0830		W	1	X	X	X											
M89-F		0900		W	1	X	X	X											
M89-Z		0850		W	1	X	X	X											
M97-L		1040		W	1	X	X	X											
M97-F		1100		W	1	X	X	X											
M97-Z		1115		W	1	X	X	X											
M12A-L		1235		W	1	X	X	X											
M12A-F		1300		W	1	X	X	X											
M12A-Z		1250		W	1	X	X	X											
EB051107-Z		1435		W	1	X	X	X											

Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Special Instructions/QC Requirements & Comments:  
 Coordinate sample reception with Melania Harris (STL - St. Louis)

Relinquished by: <b>ZOE DIERMETER</b>	Company: <b>ENSR</b>	Date/Time: <b>5/11/07 16:15</b>	Received by: <b>Angela Bacon</b>	Company: <b>STL</b>	Date/Time: <b>5-12-07 9:00</b>
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

# STL

Lot #(s): \_\_\_\_\_

- 1279 - \_\_\_\_\_

7 JAE 5-15-07  
F#E150117  
119  
26

Client: Tronox  
Quote No: \_\_\_\_\_

Condition Upon Receipt Form  
COC/RFA No: 051107-2  
Initiated By: AB

Date: 5-12-07  
Time: 9:00

### Shipping Information

Shipper Name: FedEx

Shipping # (s): ABS-14-07

Multiple Packages Y  N  
Sample Temperature (s):\*\*

- |                        |           |              |           |
|------------------------|-----------|--------------|-----------|
| 1. <u>Tronox</u>       | 6. _____  | 1. <u>20</u> | 6. _____  |
| 2. _____               | 7. _____  | 2. _____     | 7. _____  |
| 3. <u>860783455294</u> | 8. _____  | 3. _____     | 8. _____  |
| 4. _____               | 9. _____  | 4. _____     | 9. _____  |
| 5. _____               | 10. _____ | 5. _____     | 10. _____ |

\*Numbered shipping lines correspond to Numbered Sample Temp lines

\*\*Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1. <input checked="" type="radio"/> Y <input type="radio"/> N	Was sample received broken?	8. <input checked="" type="radio"/> Y <input type="radio"/> N	Sample received with Chain of Custody?
2. <input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/> N/A	Was sample received with proper pH <sup>1</sup> ? (If not, make note below)	9. <input checked="" type="radio"/> Y <input type="radio"/> N	Chain of Custody matches sample ID's on container(s)?
3. <input type="radio"/> Y <input type="radio"/> N	If N/A-Was pH taken by original STL Lab?	10. <input type="radio"/> Y <input checked="" type="radio"/> N	Are there custody seals present on cooler?
4. <input checked="" type="radio"/> Y <input type="radio"/> N	Sample received in proper containers?	11. <input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Do custody seals on cooler appear to be tampered with?
5. <input checked="" type="radio"/> Y <input type="radio"/> N	Sample volume sufficient for analysis?	12. <input type="radio"/> Y <input checked="" type="radio"/> N	Are there custody seals present on bottles?
6. <input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)	13. <input type="radio"/> Y <input type="radio"/> N <input checked="" type="radio"/> N/A	Do custody seals on bottles appear to be tampered with?
7. <input checked="" type="radio"/> Y <input type="radio"/> N	Were contents of cooler frisked after opening, but before unpacking?	14. <input type="radio"/> Y <input type="radio"/> N	Was Internal COC/Workshare received?

<sup>1</sup> For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.

### Notes:

### Corrective Action:

Client Contact Name: \_\_\_\_\_ Informed by: \_\_\_\_\_

Sample(s) processed "as is"

Sample(s) on hold until: \_\_\_\_\_ If released, notify: \_\_\_\_\_

Project Management Review: [Signature] Date: 5-15-07

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

**METHODS SUMMARY**

ENSR051207

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Hexavalent Chromium	SW846 7199	SW846 7199
ICP-MS (6020)	SW846 6020	
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A	SW846 7470A

**References:**

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

**SAMPLE SUMMARY**

ENSR051207 : F7E150119

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
JWOFH	001	M11-F	05/11/07	13:25
JWOFP	002	M11-Z	05/11/07	13:20
JWOFR	003	M89-L	05/11/07	13:35
JWOFV	004	M89-F	05/11/07	13:40
JWOFX	005	M89-Z	05/11/07	13:45
JWOF0	006	M97-L	05/11/07	14:10
JWOF2	007	M97-F	05/11/07	14:15
JWOF4	008	M97-Z	05/11/07	14:20
JWOF5	009	M12A-L	05/11/07	12:35
JWOF7	010	M12A-F	05/11/07	13:00
JWOF8	011	M12A-Z	05/11/07	12:50
JWOGA	012	EB051107-Z	05/11/07	14:35

**NOTE(S) :**

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

(Continued on next page)

**SAMPLE SUMMARY****ENSR051207 : F7E150126**

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
JW0G7	001	M11-F	05/11/07	07:00
JW0G9	002	M11-Z	05/11/07	06:55
JW0HA	003	M89-L	05/11/07	08:30
JW0HC	004	M89-F	05/11/07	09:00
JW0HD	005	M89-Z	05/11/07	08:50
JW0HE	006	M97-L	05/11/07	10:40
JW0HF	007	M97-F	05/11/07	11:00
JW0HJ	008	M97-Z	05/11/07	11:15
JW0HK	009	M12A-L	05/11/07	12:35
JW0HL	010	M12A-F	05/11/07	13:00
JW0HN	011	M12A-Z	05/11/07	12:50
JW0HP	012	EB051107-Z	05/11/07	14:35

**NOTE (S) :**

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

ENSR International Corporation

Client Sample ID: M11-F

General Chemistry

Lot-Sample #...: F7E150119-001    Work Order #...: JWOFH    Matrix.....: WATER  
Date Sampled...: 05/11/07 13:25    Date Received...: 05/12/07

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Dissolved Hexavalent Chromium	2360	25.0	ug/L	SW846 7199	05/12/07	7134251

Dilution Factor: 125    Analysis Time...: 12:07    MDL.....: 12.5



ENSR International Corporation

Client Sample ID: M11-Z

General Chemistry

Lot-Sample #....: F7E150119-002 Work Order #....: JW0FP Matrix.....: WATER  
Date Sampled....: 05/11/07 13:20 Date Received...: 05/12/07

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Dissolved Hexavalent Chromium	2510	25.0	ug/L	SW846 7199	05/12/07	7134251
		Dilution Factor: 125		Analysis Time...: 13:24	MDL.....: 12.5	

ENSR International Corporation

Client Sample ID: M89-L

General Chemistry

Lot-Sample #...: F7E150119-003 Work Order #...: JWOFR Matrix.....: WATER  
Date Sampled...: 05/11/07 13:35 Date Received...: 05/12/07

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Dissolved Hexavalent Chromium	22100	500	ug/L	SW846 7199	05/12/07	7134251

Dilution Factor: 2500 Analysis Time...: 13:43 MDL.....: 250

ENSR International Corporation

Client Sample ID: M89-F

General Chemistry

Lot-Sample #...: F7E150119-004 Work Order #...: JW0FV Matrix.....: WATER  
Date Sampled...: 05/11/07 13:40 Date Received...: 05/12/07

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Dissolved Hexavalent Chromium	21400	500	ug/L	SW846 7199	05/12/07	7134251

Dilution Factor: 2500 Analysis Time...: 14:02 MDL.....: 250

ENSR International Corporation

Client Sample ID: M89-Z

General Chemistry

Lot-Sample #...: F7E150119-005    Work Order #...: JW0FX    Matrix.....: WATER  
Date Sampled...: 05/11/07 13:45    Date Received...: 05/12/07

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Dissolved Hexavalent Chromium	21700	500	ug/L	SW846 7199	05/12/07	7134251

Dilution Factor: 2500    Analysis Time...: 14:21    MDL.....: 250

ENSR International Corporation

Client Sample ID: M97-L

General Chemistry

Lot-Sample #....: F7E150119-006    Work Order #....: JW0F0    Matrix.....: WATER  
Date Sampled....: 05/11/07 14:10    Date Received...: 05/12/07

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Dissolved Hexavalent Chromium	61.0	1.0	ug/L	SW846 7199	05/12/07	7134251

Dilution Factor: 5      Analysis Time...: 14:40      MDL.....: 0.50

ENSR International Corporation

Client Sample ID: M97-F

General Chemistry

Lot-Sample #....: F7E150119-007    Work Order #....: JW0F2    Matrix.....: WATER  
Date Sampled....: 05/11/07 14:15    Date Received...: 05/12/07

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Dissolved Hexavalent Chromium	64.1	1.0	ug/L	SW846 7199	05/12/07	7134251

Dilution Factor: 5

Analysis Time...: 15:18

MDL.....: 0.50

ENSR International Corporation

Client Sample ID: M97-Z

General Chemistry

Lot-Sample #....: F7E150119-008    Work Order #....: JW0F4    Matrix.....: WATER  
Date Sampled....: 05/11/07 14:20    Date Received...: 05/12/07

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Dissolved Hexavalent Chromium	60.5	1.0	ug/L	SW846 7199	05/12/07	7134251

Dilution Factor: 5    Analysis Time...: 15:37    MDL.....: 0.50

ENSR International Corporation

Client Sample ID: M12A-L

General Chemistry

Lot-Sample #....: F7E150119-009    Work Order #....: JW0F5    Matrix.....: WATER  
Date Sampled....: 05/11/07 12:35    Date Received...: 05/12/07

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Dissolved Hexavalent Chromium	14500	500	ug/L	SW846 7199	05/12/07	7134251

Dilution Factor: 2500    Analysis Time...: 11:10    MDL.....: 250



ENSR International Corporation

Client Sample ID: M12A-F

General Chemistry

Lot-Sample #...: F7E150119-010    Work Order #...: JW0F7    Matrix.....: WATER  
Date Sampled...: 05/11/07 13:00    Date Received...: 05/12/07

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Dissolved Hexavalent Chromium	13000	500	ug/L	SW846 7199	05/12/07	7134251

Dilution Factor: 2500    Analysis Time...: 12:47    MDL.....: 250

ENSR International Corporation

Client Sample ID: M12A-Z

General Chemistry

Lot-Sample #....: F7E150119-011 Work Order #....: JW0F8 Matrix.....: WATER  
Date Sampled...: 05/11/07 12:50 Date Received...: 05/12/07

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Dissolved Hexavalent Chromium	14000	500	ug/L	SW846 7199	05/12/07	7134251

Dilution Factor: 2500 Analysis Time...: 11:48 MDL.....: 250

ENSR International Corporation

Client Sample ID: KB051107-Z

General Chemistry

Lot-Sample #....: F7E150119-012    Work Order #....: JWOGA    Matrix.....: WATER  
Date Sampled....: 05/11/07 14:35    Date Received...: 05/12/07

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Dissolved Hexavalent Chromium	1.4	0.20	ug/L	SW846 7199	05/12/07	7134251

Dilution Factor: 1

Analysis Time...: 15:56

MDL.....: 0.10

METHOD BLANK REPORT

General Chemistry

Client Lot #...: ENSR051207

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Dissolved Hexavalent Chromium	ND	Work Order #: JWW571AA 0.20	ug/L	MB Lot-Sample #: E7E140000-251 SW846 7199	05/12/07	7134251
		Dilution Factor: 1 Analysis Time...: 08:02				

**NOTE(S):**

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: ENSR051207

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Dissolved Hexavalent Chromium	97	(90 - 110)	SW846 7199	05/12/07	7134251
		Dilution Factor: 1		Analysis Time...: 07:52	

**NOTE(S):**

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

## MATRIX SPIKE SAMPLE EVALUATION REPORT

## General Chemistry

Client Lot #...: ENSR051207

Matrix.....: W

Date Sampled...: 05/11/07 13:20 Date Received...: 05/12/07

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Dissolved Hexavalent Chromium	90	(80 - 120)	SW846 7199	05/12/07	F7E150119-002 7134251
		Dilution Factor: 200		Analysis Time...: 16:33	

**NOTE(S) :**

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

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F7E150119      Work Order #...: JWOFP-SMP      Matrix.....: W  
JWOFP-DUP  
Date Sampled...: 05/11/07 13:20      Date Received...: 05/12/07

<u>PARAM RESULT</u>	<u>DUPLICATE RESULT</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD LIMIT</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Dissolved Hexavalent Chromium	2510      2520	ug/L	0.32	(0-20)	SW846 7199	05/12/07	7134251
		Dilution Factor: 125		Analysis Time...: 16:14		SD Lot-Sample #: F7E150119-002	

**METALS SAMPLE AND QC SUMMARY RESULTS**



## STL-ST. LOUIS

## Metals Data Reporting Form

Sample Results

**Lab Sample ID:** JW0G7      **Client ID:** M11-F  
**Matrix:** Water      **Units:** ug/L      **Prep Date:** 5/17/2007      **Prep Batch:** 7137175  
**Weight:** 30      **Volume:** 30      **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.093	0.20	0.14	B	1	CVAA	5/17/2007	15:42

Comments: Lot #: F7E150126 Sample #: 1

## STL-ST. LOUIS

## Metals Data Reporting Form

Sample Results

**Lab Sample ID:** JW0G9      **Client ID:** M11-Z  
**Matrix:** Water      **Units:** ug/L      **Prep Date:** 5/17/2007      **Prep Batch:** 7137175  
**Weight:** 30      **Volume:** 30      **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.093	0.20	0.11	B	1	CVAA	5/17/2007	15:51

Comments: Lot #: F7E150126 Sample #: 2

## STL-ST. LOUIS

## Metals Data Reporting Form

Sample Results

**Lab Sample ID:** JW0HA      **Client ID:** M89-L  
**Matrix:** Water      **Units:** ug/L      **Prep Date:** 5/17/2007      **Prep Batch:** 7137175  
**Weight:** 30      **Volume:** 30      **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.093	0.20	0.093	U	1	CVAA	5/17/2007	15:58

Comments: Lot #: F7E150126 Sample #: 3

## STL-ST. LOUIS

## Metals Data Reporting Form

Sample Results

**Lab Sample ID:** JW0HC      **Client ID:** M89-F  
**Matrix:** Water      **Units:** ug/L      **Prep Date:** 5/17/2007      **Prep Batch:** 7137175  
**Weight:** 30      **Volume:** 30      **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.093	0.20	0.093	U	1	CVAA	5/17/2007	16:00

Comments: Lot #: F7E150126 Sample #: 4

## STL-ST. LOUIS

## Metals Data Reporting Form

## Sample Results

**Lab Sample ID:** JW0HD      **Client ID:** M89-Z  
**Matrix:** Water      **Units:** ug/L      **Prep Date:** 5/17/2007      **Prep Batch:** 7137175  
**Weight:** 30      **Volume:** 30      **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.093	0.20	0.093	U	1	CVAA	5/17/2007	16:02

Comments: Lot #: F7E150126 Sample #: 5

## STL-ST. LOUIS

## Metals Data Reporting Form

Sample Results

**Lab Sample ID:** JW0HE      **Client ID:** M97-L  
**Matrix:** Water      **Units:** ug/L      **Prep Date:** 5/17/2007      **Prep Batch:** 7137175  
**Weight:** 30      **Volume:** 30      **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.093	0.20	0.093	U	1	CVAA	5/17/2007	16:04

Comments: Lot #: F7E150126 Sample #: 6

## STL-ST. LOUIS

## Metals Data Reporting Form

Sample Results

Lab Sample ID: JW0HF Client ID: M97-F  
 Matrix: Water Units: ug/L Prep Date: 5/17/2007 Prep Batch: 7137175  
 Weight: 30 Volume: 30 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.093	0.20	0.098	B	1	CVAA	5/17/2007	16:06

Comments: Lot #: F7E150126 Sample #: 7

## STL-ST. LOUIS

## Metals Data Reporting Form

## Sample Results

Lab Sample ID: JW0HJ Client ID: M97-Z  
 Matrix: Water Units: ug/L Prep Date: 5/17/2007 Prep Batch: 7137175  
 Weight: 30 Volume: 30 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.093	0.20	0.093	U	1	CVAA	5/17/2007	16:09

Comments: Lot #: F7E150126 Sample #: 8



## STL-ST. LOUIS

## Metals Data Reporting Form

## Sample Results

Lab Sample ID: JW0HK Client ID: M12A-L  
 Matrix: Water Units: ug/L Prep Date: 5/17/2007 Prep Batch: 7137175  
 Weight: 30 Volume: 30 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.093	0.20	0.093	U	1	CVAA	5/17/2007	16:11

Comments: Lot #: F7E150126 Sample #: 9

## STL-ST. LOUIS

## Metals Data Reporting Form

Sample Results

Lab Sample ID: JW0HL Client ID: M12A-F  
 Matrix: Water Units: ug/L Prep Date: 5/17/2007 Prep Batch: 7137175  
 Weight: 30 Volume: 30 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.093	0.20	0.093	U	1	CVAA	5/17/2007	16:13

Comments: Lot #: F7E150126 Sample #: 10

## STL-ST. LOUIS

## Metals Data Reporting Form

Sample Results

**Lab Sample ID:** JW0HN      **Client ID:** M12A-Z  
**Matrix:** Water      **Units:** ug/L      **Prep Date:** 5/17/2007      **Prep Batch:** 7137175  
**Weight:** 30      **Volume:** 30      **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.093	0.20	0.093	U	1	CVAA	5/17/2007	16:15

Comments: Lot #: F7E150126 Sample #: 11

## STL-ST. LOUIS

## Metals Data Reporting Form

Sample Results

Lab Sample ID: JW0HP Client ID: EB051107-Z  
 Matrix: Water Units: ug/L Prep Date: 5/17/2007 Prep Batch: 7137175  
 Weight: 30 Volume: 30 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.093	0.20	0.093	U	1	CVAA	5/17/2007	16:18

Comments: Lot #: F7E150126 Sample #: 12

## STL-ST. LOUIS

## Metals Data Reporting Form

## Sample Results

Lab Sample ID: JW0G7 Client ID: M11-F  
 Matrix: Water Units: ug/L Prep Date: 5/15/2007 Prep Batch: 7135271  
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	27	393	1250	393	U	50	ICPMS	5/24/2007	18:12
Antimony	123	25.0	50.0	25.0	U	50	ICPMS	5/24/2007	18:12
Arsenic	75	100	250	250		50	ICPMS	5/24/2007	18:12
Barium	135	12.4	100	12.4	U	50	ICPMS	5/25/2007	15:05
Beryllium	9	4.4	25.0	4.4	U	50	ICPMS	5/24/2007	18:12
Boron	10	333	2500	10200	N*	50	ICPMS	5/24/2007	18:12
Cadmium	111	2.9	25.0	2.9	U	50	ICPMS	5/24/2007	18:12
Calcium	44	1050	5000	45600		50	ICPMS	5/24/2007	18:12
Chromium	52	140	500	2200	N	50	ICPMS	5/24/2007	18:12
Cobalt	59	15.7	100	15.7	U	50	ICPMS	5/24/2007	18:12
Copper	65	12.5	50.0	12.5	U	50	ICPMS	5/24/2007	18:12
Iron	57	470	1000	470	UN	50	ICPMS	5/24/2007	18:12
Lead	208	24.6	150	24.6	U	50	ICPMS	5/24/2007	18:12
Magnesium	24	321	2500	36300		50	ICPMS	5/24/2007	18:12
Manganese	55	17.1	100	17.1	U	50	ICPMS	5/24/2007	18:12
Molybdenum	97	25.0	250	27.0	B	50	ICPMS	5/24/2007	18:12
Nickel	60	25.8	250	25.8	U	50	ICPMS	5/24/2007	18:12
Platinum	194	5.0	50.0	5.0	U	50	ICPMS	5/24/2007	18:12
Potassium	39	500	5000	18600		50	ICPMS	5/24/2007	18:12
Selenium	82	50.0	250	50.0	U	50	ICPMS	5/24/2007	18:12
Silver	107	10.1	100	10.1	U	50	ICPMS	5/24/2007	18:12
Sodium	23	550	2500	910000	N*	50	ICPMS	5/24/2007	18:12
Strontium	88	26.4	250	1200		50	ICPMS	5/24/2007	18:12
Thallium	205	16.0	100	22.2	B	50	ICPMS	5/25/2007	15:05
Tin	118	10.0	100	10.0	U	50	ICPMS	5/24/2007	18:12
Titanium	47	19.6	100	19.6	U	50	ICPMS	5/24/2007	18:12
Tungsten	182	25.0	250	27.7	B	50	ICPMS	5/24/2007	18:12
Uranium	238	10.5	50.0	14.5	B	50	ICPMS	5/24/2007	18:12
Vanadium	51	80.0	500	107	B*	50	ICPMS	5/25/2007	15:05
Zinc	66	50.0	500	50.0	U	50	ICPMS	5/25/2007	15:05

Comments: Lot #: F7E150126 Sample #: 1

## STL-ST. LOUIS

### Metals Data Reporting Form

#### Sample Results

**Lab Sample ID:** JW0G9      **Client ID:** M11-Z  
**Matrix:** Water      **Units:** ug/L      **Prep Date:** 5/15/2007      **Prep Batch:** 7135271  
**Weight:** 50      **Volume:** 50      **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	27	393	1250	393	U	50	ICPMS	5/24/2007	18:36
Antimony	123	25.0	50.0	25.0	U	50	ICPMS	5/24/2007	18:36
Arsenic	75	100	250	328		50	ICPMS	5/24/2007	18:36
Barium	135	12.4	100	15.2	B	50	ICPMS	5/25/2007	15:22
Beryllium	9	4.4	25.0	4.4	U	50	ICPMS	5/24/2007	18:36
Boron	10	333	2500	10400	N*	50	ICPMS	5/24/2007	18:36
Cadmium	111	2.9	25.0	2.9	U	50	ICPMS	5/24/2007	18:36
Calcium	44	1050	5000	50200		50	ICPMS	5/24/2007	18:36
Chromium	52	140	500	3130	N	50	ICPMS	5/24/2007	18:36
Cobalt	59	15.7	100	15.7	U	50	ICPMS	5/24/2007	18:36
Copper	65	12.5	50.0	12.5	U	50	ICPMS	5/24/2007	18:36
Iron	57	470	1000	6310	N	50	ICPMS	5/24/2007	18:36
Lead	208	24.6	150	24.6	U	50	ICPMS	5/24/2007	18:36
Magnesium	24	321	2500	39300		50	ICPMS	5/24/2007	18:36
Manganese	55	17.1	100	173		50	ICPMS	5/24/2007	18:36
Molybdenum	97	25.0	250	25.0	U	50	ICPMS	5/24/2007	18:36
Nickel	60	25.8	250	25.8	U	50	ICPMS	5/24/2007	18:36
Platinum	194	5.0	50.0	5.0	U	50	ICPMS	5/24/2007	18:36
Potassium	39	500	5000	19900		50	ICPMS	5/24/2007	18:36
Selenium	82	50.0	250	50.0	U	50	ICPMS	5/24/2007	18:36
Silver	107	10.1	100	10.1	U	50	ICPMS	5/24/2007	18:36
Sodium	23	550	2500	953000	N*	50	ICPMS	5/24/2007	18:36
Strontium	88	26.4	250	1300		50	ICPMS	5/24/2007	18:36
Thallium	205	16.0	100	16.0	U	50	ICPMS	5/25/2007	15:22
Tin	118	10.0	100	10.0	U	50	ICPMS	5/24/2007	18:36
Titanium	47	19.6	100	19.6	U	50	ICPMS	5/24/2007	18:36
Tungsten	182	25.0	250	25.0	U	50	ICPMS	5/24/2007	18:36
Uranium	238	10.5	50.0	15.0	B	50	ICPMS	5/24/2007	18:36
Vanadium	51	80.0	500	121	B*	50	ICPMS	5/25/2007	15:22
Zinc	66	50.0	500	50.0	U	50	ICPMS	5/25/2007	15:22

Comments: Lot #: F7E150126 Sample #: 2

## STL-ST. LOUIS

## Metals Data Reporting Form

## Sample Results

Lab Sample ID: JW0HA Client ID: M89-L  
 Matrix: Water Units: ug/L Prep Date: 5/15/2007 Prep Batch: 7135271  
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	27	786	2500	786	U	100	ICPMS	5/24/2007	18:55
Antimony	123	50.0	100	50.0	U	100	ICPMS	5/24/2007	18:55
Arsenic	75	200	500	200	U	100	ICPMS	5/24/2007	18:55
<b>Barium</b>	<b>135</b>	<b>24.7</b>	<b>200</b>	<b>40.5</b>	<b>B</b>	<b>100</b>	<b>ICPMS</b>	<b>5/25/2007</b>	<b>15:36</b>
Beryllium	9	8.8	50.0	8.8	U	100	ICPMS	5/24/2007	18:55
<b>Boron</b>	<b>10</b>	<b>666</b>	<b>5000</b>	<b>4410</b>	<b>BN*</b>	<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>18:55</b>
Cadmium	111	5.7	50.0	5.7	U	100	ICPMS	5/24/2007	18:55
<b>Calcium</b>	<b>44</b>	<b>2100</b>	<b>10000</b>	<b>724000</b>		<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>18:55</b>
<b>Chromium</b>	<b>52</b>	<b>280</b>	<b>1000</b>	<b>21000</b>	<b>N</b>	<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>18:55</b>
Cobalt	59	31.3	200	31.3	U	100	ICPMS	5/24/2007	18:55
Copper	65	25.0	100	25.0	U	100	ICPMS	5/24/2007	18:55
Iron	57	940	2000	940	UN	100	ICPMS	5/24/2007	18:55
Lead	208	49.2	300	49.2	U	100	ICPMS	5/24/2007	18:55
<b>Magnesium</b>	<b>24</b>	<b>643</b>	<b>5000</b>	<b>379000</b>		<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>18:55</b>
Manganese	55	34.2	200	34.2	U	100	ICPMS	5/24/2007	18:55
Molybdenum	97	50.0	500	50.0	U	100	ICPMS	5/24/2007	18:55
Nickel	60	51.7	500	51.7	U	100	ICPMS	5/24/2007	18:55
Platinum	194	10.0	100	10.0	U	100	ICPMS	5/24/2007	18:55
<b>Potassium</b>	<b>39</b>	<b>1000</b>	<b>10000</b>	<b>36800</b>		<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>18:55</b>
Selenium	82	100	500	100	U	100	ICPMS	5/24/2007	18:55
Silver	107	20.3	200	20.3	U	100	ICPMS	5/24/2007	18:55
<b>Sodium</b>	<b>23</b>	<b>1100</b>	<b>5000</b>	<b>1980000</b>	<b>N*</b>	<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>18:55</b>
<b>Strontium</b>	<b>88</b>	<b>52.7</b>	<b>500</b>	<b>18700</b>		<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>18:55</b>
Thallium	205	32.0	200	32.0	U	100	ICPMS	5/25/2007	15:36
Tin	118	20.0	200	20.0	U	100	ICPMS	5/24/2007	18:55
Titanium	47	39.1	200	39.1	U	100	ICPMS	5/24/2007	18:55
Tungsten	182	50.0	500	50.0	U	100	ICPMS	5/24/2007	18:55
<b>Uranium</b>	<b>238</b>	<b>21.0</b>	<b>100</b>	<b>25.7</b>	<b>B</b>	<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>18:55</b>
Vanadium	51	160	1000	160	U*	100	ICPMS	5/25/2007	15:36
Zinc	66	100	1000	100	U	100	ICPMS	5/25/2007	15:36

Comments: Lot #: F7E150126 Sample #: 3

## STL-ST. LOUIS

## Metals Data Reporting Form

## Sample Results

Lab Sample ID: JW0HC Client ID: M89-F  
 Matrix: Water Units: ug/L Prep Date: 5/15/2007 Prep Batch: 7135271  
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	27	786	2500	786	U	100	ICPMS	5/24/2007	19:01
Antimony	123	50.0	100	50.0	U	100	ICPMS	5/24/2007	19:01
Arsenic	75	200	500	200	U	100	ICPMS	5/24/2007	19:01
<b>Barium</b>	<b>135</b>	<b>24.7</b>	<b>200</b>	<b>41.8</b>	<b>B</b>	<b>100</b>	<b>ICPMS</b>	<b>5/25/2007</b>	<b>15:41</b>
Beryllium	9	8.8	50.0	8.8	U	100	ICPMS	5/24/2007	19:01
<b>Boron</b>	<b>10</b>	<b>666</b>	<b>5000</b>	<b>4240</b>	<b>BN*</b>	<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>19:01</b>
Cadmium	111	5.7	50.0	5.7	U	100	ICPMS	5/24/2007	19:01
<b>Calcium</b>	<b>44</b>	<b>2100</b>	<b>10000</b>	<b>737000</b>		<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>19:01</b>
<b>Chromium</b>	<b>52</b>	<b>280</b>	<b>1000</b>	<b>21400</b>	<b>N</b>	<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>19:01</b>
Cobalt	59	31.3	200	31.3	U	100	ICPMS	5/24/2007	19:01
Copper	65	25.0	100	25.0	U	100	ICPMS	5/24/2007	19:01
Iron	57	940	2000	940	UN	100	ICPMS	5/24/2007	19:01
Lead	208	49.2	300	49.2	U	100	ICPMS	5/24/2007	19:01
<b>Magnesium</b>	<b>24</b>	<b>643</b>	<b>5000</b>	<b>390000</b>		<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>19:01</b>
Manganese	55	34.2	200	34.2	U	100	ICPMS	5/24/2007	19:01
Molybdenum	97	50.0	500	50.0	U	100	ICPMS	5/24/2007	19:01
Nickel	60	51.7	500	51.7	U	100	ICPMS	5/24/2007	19:01
Platinum	194	10.0	100	10.0	U	100	ICPMS	5/24/2007	19:01
<b>Potassium</b>	<b>39</b>	<b>1000</b>	<b>10000</b>	<b>37200</b>		<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>19:01</b>
Selenium	82	100	500	100	U	100	ICPMS	5/24/2007	19:01
Silver	107	20.3	200	20.3	U	100	ICPMS	5/24/2007	19:01
<b>Sodium</b>	<b>23</b>	<b>1100</b>	<b>5000</b>	<b>1970000</b>	<b>N*</b>	<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>19:01</b>
<b>Strontium</b>	<b>88</b>	<b>52.7</b>	<b>500</b>	<b>18900</b>		<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>19:01</b>
Thallium	205	32.0	200	32.0	U	100	ICPMS	5/25/2007	15:41
Tin	118	20.0	200	20.0	U	100	ICPMS	5/24/2007	19:01
Titanium	47	39.1	200	39.1	U	100	ICPMS	5/24/2007	19:01
Tungsten	182	50.0	500	50.0	U	100	ICPMS	5/24/2007	19:01
<b>Uranium</b>	<b>238</b>	<b>21.0</b>	<b>100</b>	<b>25.9</b>	<b>B</b>	<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>19:01</b>
Vanadium	51	160	1000	160	U*	100	ICPMS	5/25/2007	15:41
Zinc	66	100	1000	100	U	100	ICPMS	5/25/2007	15:41

Comments: Lot #: F7E150126 Sample #: 4



## STL-ST. LOUIS

## Metals Data Reporting Form

## Sample Results

Lab Sample ID: JW0HD Client ID: M89-Z  
 Matrix: Water Units: ug/L Prep Date: 5/15/2007 Prep Batch: 7135271  
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	27	786	2500	786	U	100	ICPMS	5/24/2007	19:07
Antimony	123	50.0	100	50.0	U	100	ICPMS	5/24/2007	19:07
Arsenic	75	200	500	200	U	100	ICPMS	5/24/2007	19:07
<b>Barium</b>	<b>135</b>	<b>24.7</b>	<b>200</b>	<b>42.3</b>	<b>B</b>	<b>100</b>	<b>ICPMS</b>	<b>5/25/2007</b>	<b>15:45</b>
Beryllium	9	8.8	50.0	8.8	U	100	ICPMS	5/24/2007	19:07
<b>Boron</b>	<b>10</b>	<b>666</b>	<b>5000</b>	<b>4280</b>	<b>BN*</b>	<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>19:07</b>
Cadmium	111	5.7	50.0	5.7	U	100	ICPMS	5/24/2007	19:07
<b>Calcium</b>	<b>44</b>	<b>2100</b>	<b>10000</b>	<b>764000</b>		<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>19:07</b>
<b>Chromium</b>	<b>52</b>	<b>280</b>	<b>1000</b>	<b>22500</b>	<b>N</b>	<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>19:07</b>
Cobalt	59	31.3	200	31.3	U	100	ICPMS	5/24/2007	19:07
Copper	65	25.0	100	25.0	U	100	ICPMS	5/24/2007	19:07
Iron	57	940	2000	940	UN	100	ICPMS	5/24/2007	19:07
Lead	208	49.2	300	49.2	U	100	ICPMS	5/24/2007	19:07
<b>Magnesium</b>	<b>24</b>	<b>643</b>	<b>5000</b>	<b>406000</b>		<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>19:07</b>
Manganese	55	34.2	200	34.2	U	100	ICPMS	5/24/2007	19:07
Molybdenum	97	50.0	500	50.0	U	100	ICPMS	5/24/2007	19:07
Nickel	60	51.7	500	51.7	U	100	ICPMS	5/24/2007	19:07
Platinum	194	10.0	100	10.0	U	100	ICPMS	5/24/2007	19:07
<b>Potassium</b>	<b>39</b>	<b>1000</b>	<b>10000</b>	<b>38200</b>		<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>19:07</b>
Selenium	82	100	500	100	U	100	ICPMS	5/24/2007	19:07
Silver	107	20.3	200	20.3	U	100	ICPMS	5/24/2007	19:07
<b>Sodium</b>	<b>23</b>	<b>1100</b>	<b>5000</b>	<b>2050000</b>	<b>N*</b>	<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>19:07</b>
<b>Strontium</b>	<b>88</b>	<b>52.7</b>	<b>500</b>	<b>19800</b>		<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>19:07</b>
Thallium	205	32.0	200	32.0	U	100	ICPMS	5/25/2007	15:45
Tin	118	20.0	200	20.0	U	100	ICPMS	5/24/2007	19:07
Titanium	47	39.1	200	39.1	U	100	ICPMS	5/24/2007	19:07
Tungsten	182	50.0	500	50.0	U	100	ICPMS	5/24/2007	19:07
<b>Uranium</b>	<b>238</b>	<b>21.0</b>	<b>100</b>	<b>26.7</b>	<b>B</b>	<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>19:07</b>
Vanadium	51	160	1000	160	U*	100	ICPMS	5/25/2007	15:45
Zinc	66	100	1000	100	U	100	ICPMS	5/25/2007	15:45

Comments: Lot #: F7E150126 Sample #: 5

## STL-ST. LOUIS

## Metals Data Reporting Form

## Sample Results

Lab Sample ID: JW0HE Client ID: M97-L  
 Matrix: Water Units: ug/L Prep Date: 5/15/2007 Prep Batch: 7135271  
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	27	197	625	197	U	25	ICPMS	5/24/2007	19:14
Antimony	123	12.5	25.0	12.5	U	25	ICPMS	5/24/2007	19:14
Arsenic	75	50.0	125	196		25	ICPMS	5/24/2007	19:14
Barium	135	6.2	50.0	34.5	B	25	ICPMS	5/25/2007	15:49
Beryllium	9	2.2	12.5	2.2	U	25	ICPMS	5/24/2007	19:14
Boron	10	166	1250	4640	N*	25	ICPMS	5/24/2007	19:14
Cadmium	111	1.4	12.5	1.4	U	25	ICPMS	5/24/2007	19:14
Calcium	44	525	2500	289000		25	ICPMS	5/24/2007	19:14
Chromium	52	70.0	250	70.0	UN	25	ICPMS	5/24/2007	19:14
Cobalt	59	7.8	50.0	7.8	U	25	ICPMS	5/24/2007	19:14
Copper	65	6.3	25.0	6.3	U	25	ICPMS	5/24/2007	19:14
Iron	57	235	500	235	UN	25	ICPMS	5/24/2007	19:14
Lead	208	12.3	75.0	12.3	U	25	ICPMS	5/24/2007	19:14
Magnesium	24	161	1250	188000		25	ICPMS	5/24/2007	19:14
Manganese	55	8.5	50.0	8.5	U	25	ICPMS	5/24/2007	19:14
Molybdenum	97	12.5	125	18.5	B	25	ICPMS	5/24/2007	19:14
Nickel	60	12.9	125	12.9	U	25	ICPMS	5/24/2007	19:14
Platinum	194	2.5	25.0	2.5	U	25	ICPMS	5/24/2007	19:14
Potassium	39	250	2500	16000		25	ICPMS	5/24/2007	19:14
Selenium	82	25.0	125	25.0	U	25	ICPMS	5/24/2007	19:14
Silver	107	5.1	50.0	5.1	U	25	ICPMS	5/24/2007	19:14
Sodium	23	275	1250	607000	N*	25	ICPMS	5/24/2007	19:14
Strontium	88	13.2	125	7270		25	ICPMS	5/24/2007	19:14
Thallium	205	8.0	50.0	8.0	U	25	ICPMS	5/25/2007	15:49
Tin	118	5.0	50.0	5.0	U	25	ICPMS	5/24/2007	19:14
Titanium	47	9.8	50.0	9.8	U	25	ICPMS	5/24/2007	19:14
Tungsten	182	12.5	125	12.5	U	25	ICPMS	5/24/2007	19:14
Uranium	238	5.2	25.0	36.1		25	ICPMS	5/24/2007	19:14
Vanadium	51	40.0	250	40.4	B*	25	ICPMS	5/25/2007	15:49
Zinc	66	25.0	250	25.0	U	25	ICPMS	5/25/2007	15:49

Comments: Lot #: F7E150126 Sample #: 6

## STL-ST. LOUIS

## Metals Data Reporting Form

## Sample Results

Lab Sample ID: JW0HF Client ID: M97-F  
 Matrix: Water Units: ug/L Prep Date: 5/15/2007 Prep Batch: 7135271  
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	27	197	625	197	U	25	ICPMS	5/24/2007	19:20
Antimony	123	12.5	25.0	12.5	U	25	ICPMS	5/24/2007	19:20
Arsenic	75	50.0	125	179		25	ICPMS	5/24/2007	19:20
Barium	135	6.2	50.0	34.7	B	25	ICPMS	5/25/2007	15:54
Beryllium	9	2.2	12.5	2.2	U	25	ICPMS	5/24/2007	19:20
Boron	10	166	1250	4720	N*	25	ICPMS	5/24/2007	19:20
Cadmium	111	1.4	12.5	1.4	U	25	ICPMS	5/24/2007	19:20
Calcium	44	525	2500	284000		25	ICPMS	5/24/2007	19:20
Chromium	52	70.0	250	70.0	UN	25	ICPMS	5/24/2007	19:20
Cobalt	59	7.8	50.0	7.8	U	25	ICPMS	5/24/2007	19:20
Copper	65	6.3	25.0	6.3	U	25	ICPMS	5/24/2007	19:20
Iron	57	235	500	235	UN	25	ICPMS	5/24/2007	19:20
Lead	208	12.3	75.0	12.3	U	25	ICPMS	5/24/2007	19:20
Magnesium	24	161	1250	186000		25	ICPMS	5/24/2007	19:20
Manganese	55	8.5	50.0	8.5	U	25	ICPMS	5/24/2007	19:20
Molybdenum	97	12.5	125	17.1	B	25	ICPMS	5/24/2007	19:20
Nickel	60	12.9	125	12.9	U	25	ICPMS	5/24/2007	19:20
Platinum	194	2.5	25.0	2.5	U	25	ICPMS	5/24/2007	19:20
Potassium	39	250	2500	16100		25	ICPMS	5/24/2007	19:20
Selenium	82	25.0	125	25.0	U	25	ICPMS	5/24/2007	19:20
Silver	107	5.1	50.0	5.1	U	25	ICPMS	5/24/2007	19:20
Sodium	23	275	1250	596000	N*	25	ICPMS	5/24/2007	19:20
Strontium	88	13.2	125	7270		25	ICPMS	5/24/2007	19:20
Thallium	205	8.0	50.0	8.0	U	25	ICPMS	5/25/2007	15:54
Tin	118	5.0	50.0	5.0	U	25	ICPMS	5/24/2007	19:20
Titanium	47	9.8	50.0	9.8	U	25	ICPMS	5/24/2007	19:20
Tungsten	182	12.5	125	12.5	U	25	ICPMS	5/24/2007	19:20
Uranium	238	5.2	25.0	34.9		25	ICPMS	5/24/2007	19:20
Vanadium	51	40.0	250	40.0	U*	25	ICPMS	5/25/2007	15:54
Zinc	66	25.0	250	25.0	U	25	ICPMS	5/25/2007	15:54

Comments: Lot #: F7E150126 Sample #: 7

## STL-ST. LOUIS

## Metals Data Reporting Form

## Sample Results

Lab Sample ID: JW0HJ Client ID: M97-Z  
 Matrix: Water Units: ug/L Prep Date: 5/15/2007 Prep Batch: 7135271  
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	27	197	625	197	U	25	ICPMS	5/24/2007	19:26
Antimony	123	12.5	25.0	12.5	U	25	ICPMS	5/24/2007	19:26
Arsenic	75	50.0	125	181		25	ICPMS	5/24/2007	19:26
Barium	135	6.2	50.0	33.8	B	25	ICPMS	5/25/2007	15:58
Beryllium	9	2.2	12.5	2.2	U	25	ICPMS	5/24/2007	19:26
Boron	10	166	1250	4710	N*	25	ICPMS	5/24/2007	19:26
Cadmium	111	1.4	12.5	1.4	U	25	ICPMS	5/24/2007	19:26
Calcium	44	525	2500	277000		25	ICPMS	5/24/2007	19:26
Chromium	52	70.0	250	70.0	UN	25	ICPMS	5/24/2007	19:26
Cobalt	59	7.8	50.0	7.8	U	25	ICPMS	5/24/2007	19:26
Copper	65	6.3	25.0	6.3	U	25	ICPMS	5/24/2007	19:26
Iron	57	235	500	235	UN	25	ICPMS	5/24/2007	19:26
Lead	208	12.3	75.0	12.3	U	25	ICPMS	5/24/2007	19:26
Magnesium	24	161	1250	182000		25	ICPMS	5/24/2007	19:26
Manganese	55	8.5	50.0	8.5	U	25	ICPMS	5/24/2007	19:26
Molybdenum	97	12.5	125	17.2	B	25	ICPMS	5/24/2007	19:26
Nickel	60	12.9	125	12.9	U	25	ICPMS	5/24/2007	19:26
Platinum	194	2.5	25.0	2.5	U	25	ICPMS	5/24/2007	19:26
Potassium	39	250	2500	15900		25	ICPMS	5/24/2007	19:26
Selenium	82	25.0	125	25.0	U	25	ICPMS	5/24/2007	19:26
Silver	107	5.1	50.0	5.1	U	25	ICPMS	5/24/2007	19:26
Sodium	23	275	1250	598000	N*	25	ICPMS	5/24/2007	19:26
Strontium	88	13.2	125	7070		25	ICPMS	5/24/2007	19:26
Thallium	205	8.0	50.0	8.0	U	25	ICPMS	5/25/2007	15:58
Tin	118	5.0	50.0	5.0	U	25	ICPMS	5/24/2007	19:26
Titanium	47	9.8	50.0	9.8	U	25	ICPMS	5/24/2007	19:26
Tungsten	182	12.5	125	12.5	U	25	ICPMS	5/24/2007	19:26
Uranium	238	5.2	25.0	36.1		25	ICPMS	5/24/2007	19:26
Vanadium	51	40.0	250	40.0	U*	25	ICPMS	5/25/2007	15:58
Zinc	66	25.0	250	25.0	U	25	ICPMS	5/25/2007	15:58

Comments: Lot #: F7E150126 Sample #: 8

## STL-ST. LOUIS

## Metals Data Reporting Form

## Sample Results

Lab Sample ID: JW0HK Client ID: M12A-L  
 Matrix: Water Units: ug/L Prep Date: 5/15/2007 Prep Batch: 7135271  
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	27	786	2500	786	U	100	ICPMS	5/24/2007	19:32
Antimony	123	50.0	100	50.0	U	100	ICPMS	5/24/2007	19:32
<b>Arsenic</b>	<b>75</b>	<b>200</b>	<b>500</b>	<b>658</b>		<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>19:32</b>
Barium	135	24.7	200	24.7	U	100	ICPMS	5/25/2007	16:03
Beryllium	9	8.8	50.0	8.8	U	100	ICPMS	5/24/2007	19:32
<b>Boron</b>	<b>10</b>	<b>666</b>	<b>5000</b>	<b>3450</b>	<b>BN*</b>	<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>19:32</b>
Cadmium	111	5.7	50.0	5.7	U	100	ICPMS	5/24/2007	19:32
<b>Calcium</b>	<b>44</b>	<b>2100</b>	<b>10000</b>	<b>48100</b>		<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>19:32</b>
<b>Chromium</b>	<b>52</b>	<b>280</b>	<b>1000</b>	<b>12200</b>	<b>N</b>	<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>19:32</b>
Cobalt	59	31.3	200	31.3	U	100	ICPMS	5/24/2007	19:32
Copper	65	25.0	100	25.0	U	100	ICPMS	5/24/2007	19:32
<b>Iron</b>	<b>57</b>	<b>940</b>	<b>2000</b>	<b>1010</b>	<b>BN</b>	<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>19:32</b>
Lead	208	49.2	300	49.2	U	100	ICPMS	5/24/2007	19:32
<b>Magnesium</b>	<b>24</b>	<b>643</b>	<b>5000</b>	<b>18500</b>		<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>19:32</b>
<b>Manganese</b>	<b>55</b>	<b>34.2</b>	<b>200</b>	<b>245</b>		<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>19:32</b>
Molybdenum	97	50.0	500	50.0	U	100	ICPMS	5/24/2007	19:32
Nickel	60	51.7	500	51.7	U	100	ICPMS	5/24/2007	19:32
Platinum	194	10.0	100	10.0	U	100	ICPMS	5/24/2007	19:32
<b>Potassium</b>	<b>39</b>	<b>1000</b>	<b>10000</b>	<b>42400</b>		<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>19:32</b>
Selenium	82	100	500	100	U	100	ICPMS	5/24/2007	19:32
Silver	107	20.3	200	20.3	U	100	ICPMS	5/24/2007	19:32
<b>Sodium</b>	<b>23</b>	<b>1100</b>	<b>5000</b>	<b>2270000</b>	<b>N*</b>	<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>19:32</b>
<b>Strontium</b>	<b>88</b>	<b>52.7</b>	<b>500</b>	<b>1550</b>		<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>19:32</b>
Thallium	205	32.0	200	32.0	U	100	ICPMS	5/25/2007	16:03
Tin	118	20.0	200	20.0	U	100	ICPMS	5/24/2007	19:32
Titanium	47	39.1	200	39.1	U	100	ICPMS	5/24/2007	19:32
Tungsten	182	50.0	500	50.0	U	100	ICPMS	5/24/2007	19:32
<b>Uranium</b>	<b>238</b>	<b>21.0</b>	<b>100</b>	<b>37.6</b>	<b>B</b>	<b>100</b>	<b>ICPMS</b>	<b>5/24/2007</b>	<b>19:32</b>
Vanadium	51	160	1000	160	U*	100	ICPMS	5/25/2007	16:03
Zinc	66	100	1000	100	U	100	ICPMS	5/25/2007	16:03

Comments: Lot #: F7E150126 Sample #: 9

## STL-ST. LOUIS

## Metals Data Reporting Form

## Sample Results

Lab Sample ID: JW0HL Client ID: M12A-F  
 Matrix: Water Units: ug/L Prep Date: 5/15/2007 Prep Batch: 7135271  
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	27	786	2500	786	U	100	ICPMS	5/24/2007	19:38
Antimony	123	50.0	100	50.0	U	100	ICPMS	5/24/2007	19:38
Arsenic	75	200	500	692		100	ICPMS	5/24/2007	19:38
Barium	135	24.7	200	24.7	U	100	ICPMS	5/25/2007	16:07
Beryllium	9	8.8	50.0	8.8	U	100	ICPMS	5/24/2007	19:38
Boron	10	666	5000	3250	BN*	100	ICPMS	5/24/2007	19:38
Cadmium	111	5.7	50.0	5.7	U	100	ICPMS	5/24/2007	19:38
Calcium	44	2100	10000	47900		100	ICPMS	5/24/2007	19:38
Chromium	52	280	1000	12100	N	100	ICPMS	5/24/2007	19:38
Cobalt	59	31.3	200	31.3	U	100	ICPMS	5/24/2007	19:38
Copper	65	25.0	100	25.0	U	100	ICPMS	5/24/2007	19:38
Iron	57	940	2000	940	UN	100	ICPMS	5/24/2007	19:38
Lead	208	49.2	300	49.2	U	100	ICPMS	5/24/2007	19:38
Magnesium	24	643	5000	17900		100	ICPMS	5/24/2007	19:38
Manganese	55	34.2	200	34.2	U	100	ICPMS	5/24/2007	19:38
Molybdenum	97	50.0	500	50.9	B	100	ICPMS	5/24/2007	19:38
Nickel	60	51.7	500	51.7	U	100	ICPMS	5/24/2007	19:38
Platinum	194	10.0	100	10.0	U	100	ICPMS	5/24/2007	19:38
Potassium	39	1000	10000	42400		100	ICPMS	5/24/2007	19:38
Selenium	82	100	500	100	U	100	ICPMS	5/24/2007	19:38
Silver	107	20.3	200	20.3	U	100	ICPMS	5/24/2007	19:38
Sodium	23	1100	5000	2200000	N*	100	ICPMS	5/24/2007	19:38
Strontium	88	52.7	500	1550		100	ICPMS	5/24/2007	19:38
Thallium	205	32.0	200	32.0	U	100	ICPMS	5/25/2007	16:07
Tin	118	20.0	200	20.0	U	100	ICPMS	5/24/2007	19:38
Titanium	47	39.1	200	39.1	U	100	ICPMS	5/24/2007	19:38
Tungsten	182	50.0	500	50.0	U	100	ICPMS	5/24/2007	19:38
Uranium	238	21.0	100	37.5	B	100	ICPMS	5/24/2007	19:38
Vanadium	51	160	1000	160	U*	100	ICPMS	5/25/2007	16:07
Zinc	66	100	1000	100	U	100	ICPMS	5/25/2007	16:07

Comments: Lot #: F7E150126 Sample #: 10

## STL-ST. LOUIS

## Metals Data Reporting Form

## Sample Results

Lab Sample ID: JW0HN Client ID: M12A-Z  
 Matrix: Water Units: ug/L Prep Date: 5/15/2007 Prep Batch: 7135271  
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	27	786	2500	786	U	100	ICPMS	5/24/2007	19:44
Antimony	123	50.0	100	50.0	U	100	ICPMS	5/24/2007	19:44
Arsenic	75	200	500	700		100	ICPMS	5/24/2007	19:44
Barium	135	24.7	200	24.7	U	100	ICPMS	5/25/2007	16:12
Beryllium	9	8.8	50.0	8.8	U	100	ICPMS	5/24/2007	19:44
Boron	10	666	5000	3340	BN*	100	ICPMS	5/24/2007	19:44
Cadmium	111	5.7	50.0	5.7	U	100	ICPMS	5/24/2007	19:44
Calcium	44	2100	10000	50100		100	ICPMS	5/24/2007	19:44
Chromium	52	280	1000	12800	N	100	ICPMS	5/24/2007	19:44
Cobalt	59	31.3	200	31.3	U	100	ICPMS	5/24/2007	19:44
Copper	65	25.0	100	25.0	U	100	ICPMS	5/24/2007	19:44
Iron	57	940	2000	940	UN	100	ICPMS	5/24/2007	19:44
Lead	208	49.2	300	49.2	U	100	ICPMS	5/24/2007	19:44
Magnesium	24	643	5000	19000		100	ICPMS	5/24/2007	19:44
Manganese	55	34.2	200	140	B	100	ICPMS	5/24/2007	19:44
Molybdenum	97	50.0	500	51.1	B	100	ICPMS	5/24/2007	19:44
Nickel	60	51.7	500	51.7	U	100	ICPMS	5/24/2007	19:44
Platinum	194	10.0	100	10.0	U	100	ICPMS	5/24/2007	19:44
Potassium	39	1000	10000	44400		100	ICPMS	5/24/2007	19:44
Selenium	82	100	500	100	U	100	ICPMS	5/24/2007	19:44
Silver	107	20.3	200	20.3	U	100	ICPMS	5/24/2007	19:44
Sodium	23	1100	5000	2330000	N*	100	ICPMS	5/24/2007	19:44
Strontium	88	52.7	500	1620		100	ICPMS	5/24/2007	19:44
Thallium	205	32.0	200	32.0	U	100	ICPMS	5/25/2007	16:12
Tin	118	20.0	200	20.0	U	100	ICPMS	5/24/2007	19:44
Titanium	47	39.1	200	39.1	U	100	ICPMS	5/24/2007	19:44
Tungsten	182	50.0	500	50.0	U	100	ICPMS	5/24/2007	19:44
Uranium	238	21.0	100	39.4	B	100	ICPMS	5/24/2007	19:44
Vanadium	51	160	1000	160	U*	100	ICPMS	5/25/2007	16:12
Zinc	66	100	1000	100	U	100	ICPMS	5/25/2007	16:12

Comments: Lot #: F7E150126 Sample #: 11

## STL-ST. LOUIS

## Metals Data Reporting Form

## Sample Results

Lab Sample ID: JW0HP Client ID: EB051107-Z  
 Matrix: Water Units: ug/L Prep Date: 5/15/2007 Prep Batch: 7135271  
 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	27	7.9	25.0	48.3		1	ICPMS	5/24/2007	19:50
Antimony	123	0.50	1.0	0.50	U	1	ICPMS	5/24/2007	19:50
Arsenic	75	2.0	5.0	2.0	U	1	ICPMS	5/24/2007	19:50
Barium	135	0.25	2.0	3.6		1	ICPMS	5/25/2007	16:16
Beryllium	9	0.088	0.50	0.088	U	1	ICPMS	5/24/2007	19:50
Boron	10	6.7	50.0	6.7	UN*	1	ICPMS	5/24/2007	19:50
Cadmium	111	0.057	0.50	0.057	U	1	ICPMS	5/24/2007	19:50
Calcium	44	21.0	100	744		1	ICPMS	5/24/2007	19:50
Chromium	52	2.8	10.0	2.8	UN	1	ICPMS	5/24/2007	19:50
Cobalt	59	0.31	2.0	0.37	B	1	ICPMS	5/24/2007	19:50
Copper	65	0.25	1.0	4.1		1	ICPMS	5/24/2007	19:50
Iron	57	9.4	20.0	38.8	N	1	ICPMS	5/24/2007	19:50
Lead	208	0.49	3.0	0.65	B	1	ICPMS	5/24/2007	19:50
Magnesium	24	6.4	50.0	179		1	ICPMS	5/24/2007	19:50
Manganese	55	0.34	2.0	43.6		1	ICPMS	5/24/2007	19:50
Molybdenum	97	0.50	5.0	0.50	U	1	ICPMS	5/24/2007	19:50
Nickel	60	0.52	5.0	0.95	B	1	ICPMS	5/24/2007	19:50
Platinum	194	0.10	1.0	0.10	U	1	ICPMS	5/24/2007	19:50
Potassium	39	10.0	100	515		1	ICPMS	5/24/2007	19:50
Selenium	82	1.0	5.0	1.0	U	1	ICPMS	5/24/2007	19:50
Silver	107	0.20	2.0	0.20	U	1	ICPMS	5/24/2007	19:50
Sodium	23	11.0	50.0	1620	N*	1	ICPMS	5/24/2007	19:50
Strontium	88	0.53	5.0	5.7		1	ICPMS	5/24/2007	19:50
Thallium	205	0.32	2.0	0.32	U	1	ICPMS	5/25/2007	16:16
Tin	118	0.20	2.0	0.20	U	1	ICPMS	5/24/2007	19:50
Titanium	47	0.39	2.0	1.5	B	1	ICPMS	5/24/2007	19:50
Tungsten	182	0.50	5.0	0.50	U	1	ICPMS	5/24/2007	19:50
Uranium	238	0.21	1.0	0.21	U	1	ICPMS	5/24/2007	19:50
Vanadium	51	1.6	10.0	1.6	U*	1	ICPMS	5/25/2007	16:16
Zinc	66	1.0	10.0	82.2		1	ICPMS	5/25/2007	16:16

Comments: Lot #: F7E150126 Sample #: 12



## STL-ST. LOUIS

## Metals Data Reporting Form

## Initial Calibration Verification Standard

Instrument: CVAAUnits: ug/LChart Number: AA0517E.PRNAcceptable Range: 90% - 110%Standard Source: LeemanStandard ID: See Standards Log

Element	WL/ Mass	True Conc	ICV 5/17/2007 2:49 PM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
			Found	% Rec								
Mercury	253.7	2.5	2.57	102.8								

## STL-ST. LOUIS

## Metals Data Reporting Form

## Initial Calibration Verification Standard

Instrument: ICPMSUnits: ug/LChart Number: 052407M3.REPAcceptable Range: 90% - 110%Standard Source: INORGANIC VENTURESStandard ID: See Standards Log

Element	WL/ Mass	True Conc	ICV 5/24/2007 1:10 PM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
			Found	% Rec								
Aluminum	27	2000.0	1953.81	97.7								
Antimony	123	200.0	187.79	93.9								
Arsenic	75	200.0	197.10	98.6								
Beryllium	9	200.0	192.51	96.3								
Boron	10	200.0	186.58	93.3								
Cadmium	111	200.0	191.71	95.9								
Calcium	44	1000.0	1063.34	106.3								
Chromium	52	200.0	192.53	96.3								
Cobalt	59	200.0	190.25	95.1								
Copper	65	200.0	190.37	95.2								
Iron	57	2000.0	2105.34	105.3								
Lead	208	200.0	188.89	94.4								
Magnesium	24	1000.0	984.84	98.5								
Manganese	55	200.0	184.88	92.4								
Molybdenum	97	200.0	192.60	96.3								
Nickel	60	200.0	188.55	94.3								
Platinum	194	200.0	188.07	94.0								
Potassium	39	2000.0	1953.51	97.7								
Selenium	82	200.0	191.85	95.9								
Silver	107	50.0	48.90	97.8								
Sodium	23	2000.0	1924.66	96.2								
Strontium	88	200.0	189.89	94.9								
Tin	118	200.0	190.84	95.4								
Titanium	47	200.0	195.16	97.6								
Tungsten	182	200.0	188.47	94.2								
Uranium	238	200.0	194.03	97.0								

## STL-ST. LOUIS

## Metals Data Reporting Form

## Initial Calibration Verification Standard

Instrument: ICPMSUnits: ug/LChart Number: 052507M1.REPAcceptable Range: 90% - 110%Standard Source: INORGANIC VENTURESStandard ID: See Standards Log

Element	WL/ Mass	True Conc	ICV 5/25/2007 11:25 AM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
			Found	% Rec								
Barium	135	200.0	200.90	100.4								
Thallium	205	200.0	194.71	97.4								
Vanadium	51	200.0	202.52	101.3								
Zinc	66	200.0	202.01	101.0								

## STL-ST. LOUIS

## Metals Data Reporting Form

## Continuing Calibration Verification

Instrument: CVAAUnits: ug/LChart Number: AA0517E.PRNAcceptable Range: 80% - 120%Standard Source: LeemanStandard ID: See Standards Log

Element	WL/ Mass	True Conc	CCV 5/17/2007 2:56 PM		CCV 5/17/2007 3:24 PM		CCV 5/17/2007 3:53 PM		CCV 5/17/2007 4:20 PM			
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	5.0	4.99	99.8	5.00	100.0	4.95	99.0	4.80	96.0		

## STL-ST. LOUIS

## Metals Data Reporting Form

## Continuing Calibration Verification

Instrument: ICPMSUnits: ug/LChart Number: 052407M3.REPAcceptable Range: 90% - 110%Standard Source: INORGANIC VENTURESStandard ID: See Standards Log

Element	WL/ Mass	True Conc	CCV 5/24/2007 1:45 PM		CCV 5/24/2007 2:59 PM		CCV 5/24/2007 4:14 PM		CCV 5/24/2007 5:28 PM		CCV 5/24/2007 6:42 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Aluminum	27	2000.0	1910.31	95.5	1928.05	96.4	1994.93	99.7	1949.79	97.5	1950.31	97.5
Antimony	123	200.0	188.78	94.4	187.10	93.6	194.24	97.1	188.07	94.0	192.82	96.4
Arsenic	75	200.0	196.60	98.3	189.69	94.8	198.09	99.0	195.24	97.6	193.89	96.9
Beryllium	9	200.0	183.54	91.8	193.65	96.8	192.95	96.5	183.38	91.7	189.15	94.6
Boron	10	200.0	179.43	89.7	197.08	98.5	189.64	94.8	182.53	91.3	189.59	94.8
Cadmium	111	200.0	192.07	96.0	189.34	94.7	194.62	97.3	193.03	96.5	195.15	97.6
Calcium	44	1000.0	1034.86	103.5	1052.82	105.3	1081.52	108.2	1031.50	103.2	1042.21	104.2
Chromium	52	200.0	189.60	94.8	189.18	94.6	193.96	97.0	185.71	92.9	186.58	93.3
Cobalt	59	200.0	189.13	94.6	183.52	91.8	191.62	95.8	185.28	92.6	185.11	92.6
Copper	65	200.0	184.17	92.1	182.85	91.4	188.79	94.4	182.03	91.0	183.23	91.6
Iron	57	2000.0	2085.84	104.3	2046.83	102.3	2113.63	105.7	2051.10	102.6	2055.71	102.8
Lead	208	200.0	184.30	92.2	187.63	93.8	192.17	96.1	190.57	95.3	189.53	94.8
Magnesium	24	1000.0	961.39	96.1	985.51	98.6	1018.60	101.9	998.35	99.8	988.58	98.9
Manganese	55	200.0	185.58	92.8	181.07	90.5	188.56	94.3	183.85	91.9	182.80	91.4
Molybdenum	97	200.0	192.18	96.1	186.25	93.1	195.21	97.6	190.57	95.3	192.48	96.2
Nickel	60	200.0	185.44	92.7	182.41	91.2	186.95	93.5	183.18	91.6	182.11	91.1
Platinum	194	200.0	182.41	91.2	187.01	93.5	192.34	96.2	187.50	93.8	189.69	94.8
Potassium	39	2000.0	1926.73	96.3	1907.27	95.4	1968.27	98.4	1883.81	94.2	1876.42	93.8
Selenium	82	200.0	190.97	95.5	186.61	93.3	193.66	96.8	194.11	97.1	193.33	96.7
Silver	107	50.0	48.48	97.0	47.47	94.9	49.43	98.9	48.48	97.0	48.90	97.8
Sodium	23	2000.0	1866.28	93.3	1934.45	96.7	1982.77	99.1	1943.79	97.2	1909.44	95.5
Strontium	88	200.0	186.74	93.4	187.55	93.8	193.26	96.6	186.97	93.5	186.93	93.5
Tin	118	200.0	187.98	94.0	189.17	94.6	194.76	97.4	188.16	94.1	191.32	95.7
Titanium	47	200.0	191.65	95.8	191.49	95.7	198.34	99.2	188.64	94.3	191.19	95.6
Tungsten	182	200.0	185.84	92.9	185.39	92.7	189.39	94.7	185.34	92.7	188.20	94.1
Uranium	238	200.0	190.89	95.4	192.93	96.5	198.71	99.4	190.52	95.3	192.13	96.1

## STL-ST. LOUIS

## Metals Data Reporting Form

## Continuing Calibration Verification

Instrument: ICPMSUnits: ug/LChart Number: 052407M3.REPAcceptable Range: 90% - 110%Standard Source: INORGANIC VENTURESStandard ID: See Standards Log

Element	WL/ Mass	True Conc	CCV 5/24/2007 7:56 PM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
			Found	% Rec								
Aluminum	27	2000.0	1914.73	95.7								
Antimony	123	200.0	184.93	92.5								
Arsenic	75	200.0	192.89	96.4								
Beryllium	9	200.0	186.35	93.2								
Boron	10	200.0	183.27	91.6								
Cadmium	111	200.0	188.76	94.4								
Calcium	44	1000.0	1035.28	103.5								
Chromium	52	200.0	186.74	93.4								
Cobalt	59	200.0	183.29	91.6								
Copper	65	200.0	183.42	91.7								
Iron	57	2000.0	2032.43	101.6								
Lead	208	200.0	185.87	92.9								
Magnesium	24	1000.0	997.95	99.8								
Manganese	55	200.0	182.32	91.2								
Molybdenum	97	200.0	185.78	92.9								
Nickel	60	200.0	181.29	90.6								
Platinum	194	200.0	188.59	94.3								
Potassium	39	2000.0	1877.59	93.9								
Selenium	82	200.0	193.44	96.7								
Silver	107	50.0	47.39	94.8								
Sodium	23	2000.0	1915.59	95.8								
Strontium	88	200.0	183.90	92.0								
Tin	118	200.0	184.66	92.3								
Titanium	47	200.0	189.42	94.7								
Tungsten	182	200.0	184.70	92.4								
Uranium	238	200.0	182.50	91.2								

## STL-ST. LOUIS

## Metals Data Reporting Form

## Continuing Calibration Verification

Instrument: ICPMSUnits: ug/LChart Number: 052507M1.REPAcceptable Range: 90% - 110%Standard Source: INORGANIC VENTURESStandard ID: See Standards Log

Element	WL/ Mass	True Conc	CCV 5/25/2007 11:52 AM		CCV 5/25/2007 12:45 PM		CCV 5/25/2007 1:39 PM		CCV 5/25/2007 2:33 PM		CCV 5/25/2007 3:26 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Barium	135	200.0	195.80	97.9	191.79	95.9	193.86	96.9	191.95	96.0	192.66	96.3
Thallium	205	200.0	190.84	95.4	195.38	97.7	194.04	97.0	191.05	95.5	192.04	96.0
Vanadium	51	200.0	200.97	100.5	199.56	99.8	202.56	101.3	196.36	98.2	196.32	98.2
Zinc	66	200.0	199.18	99.6	198.84	99.4	200.22	100.1	193.69	96.8	197.55	98.8

## STL-ST. LOUIS

## Metals Data Reporting Form

## Continuing Calibration Verification

Instrument: ICPMSUnits: ug/LChart Number: 052507M1.REPAcceptable Range: 90% - 110%Standard Source: INORGANIC VENTURESStandard ID: See Standards Log

Element	WL/ Mass	True Conc	CCV 5/25/2007 4:20 PM		Found	Rec	Found	Rec	Found	Rec	Found	Rec
			Found	% Rec								
Barium	135	200.0	191.13	95.6								
Thallium	205	200.0	187.13	93.6								
Vanadium	51	200.0	191.42	95.7								
Zinc	66	200.0	194.10	97.0								



## STL-ST. LOUIS

## Metals Data Reporting Form

## Contract Required Detection Limit Standard

Instrument: CVAAUnits: ug/LChart Number: AA0517E.PRNAcceptable Range: 50% - 150%Standard Source: LeemanStandard ID: See Standards Log

Element	WL/ Mass	True Conc	CRA 5/17/2007 2:54 PM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
			Found	% Rec								
Mercury	253.7	0.2	0.19	93.5								

## STL-ST. LOUIS

## Metals Data Reporting Form

## Contract Required Detection Limit Standard

Instrument: ICPMSUnits: ug/LChart Number: 052407M3.REPAcceptable Range: 50% - 150%Standard Source: Inorganic VenturesStandard ID: See Standards Log

Element	WL/ Mass	True Conc	CRI 5/24/2007 1:23 PM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
			Found	% Rec								
Aluminum	27	200.0	202.27	101.1								
Antimony	123	60.0	54.65	91.1								
Arsenic	75	10.0	10.71	107.1								
Beryllium	9	5.0	4.66	93.3								
Boron	10	50.0	46.75	93.5								
Cadmium	111	5.0	4.91	98.2								
Calcium	44	5000.0	4907.37	98.1								
Chromium	52	10.0	8.33	83.3								
Cobalt	59	50.0	50.12	100.2								
Copper	65	25.0	23.90	95.6								
Iron	57	100.0	91.47	91.5								
Lead	208	3.0	3.05	101.6								
Magnesium	24	5000.0	4877.22	97.5								
Manganese	55	15.0	14.98	99.9								
Molybdenum	97	40.0	40.19	100.5								
Nickel	60	40.0	38.36	95.9								
Platinum	194	20.0	20.81	104.0								
Potassium	39	5000.0	4978.34	99.6								
Selenium	82	5.0	5.29	105.7								
Silver	107	10.0	9.78	97.8								
Sodium	23	5000.0	4840.20	96.8								
Strontium	88	50.0	47.99	96.0								
Tin	118	100.0	86.85	86.9								
Titanium	47	50.0	49.37	98.7								
Tungsten	182	20.0	21.90	109.5								
Uranium	238	20.0	20.68	103.4								

## STL-ST. LOUIS

## Metals Data Reporting Form

Contract Required Detection Limit Standard

Instrument: ICPMSUnits: ug/LChart Number: 052507M1.REPAcceptable Range: 50% - 150%Standard Source: Inorganic VenturesStandard ID: See Standards Log

Element	WL/ Mass	True Conc	CRI 5/25/2007 11:35 AM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
			Found	% Rec								
Barium	135	200.0	195.85	97.9								
Thallium	205	10.0	9.89	98.9								
Vanadium	51	50.0	49.42	98.8								
Zinc	66	20.0	19.67	98.4								

### STL-ST. LOUIS

### Metals Data Reporting Form

#### Initial Calibration Blank Results

**Instrument:** CVAA

**Units:** ug/L

**Chart Number:** AA0517E.PRN

**Standard Source:** \_\_\_\_\_

**Standard ID:** \_\_\_\_\_

Element	WL/ Mass	Report Limit	ICB 5/17/2007 2:52 PM		Found	Q	Found	Q	Found	Q	Found	Q
			Found	Q								
Mercury	253.7	0.2	0.1	B								

## STL-ST. LOUIS

## Metals Data Reporting Form

## Initial Calibration Blank Results

Instrument: ICPMSUnits: ug/LChart Number: 052407M3.REP

Standard Source: \_\_\_\_\_

Standard ID: \_\_\_\_\_

Element	WL/ Mass	Report Limit	ICB 5/24/2007 1:17 PM		Found	Q	Found	Q	Found	Q	Found	Q
			Found	Q								
Aluminum	27	25	7.9	U								
Antimony	123	1	0.5	U								
Arsenic	75	5	2.0	U								
Beryllium	9	0.5	0.1	U								
Boron	10	50	6.7	U								
Cadmium	111	0.5	0.1	U								
Calcium	44	100	21.0	U								
Chromium	52	10	2.8	U								
Cobalt	59	2	0.3	U								
Copper	65	1	0.3	U								
Iron	57	20	9.4	U								
Lead	208	3	0.5	U								
Magnesium	24	50	6.4	U								
Manganese	55	2	0.3	U								
Molybdenum	97	5	0.5	U								
Nickel	60	5	0.5	U								
Platinum	194	1	0.1	U								
Potassium	39	100	10.0	U								
Selenium	82	5	1.0	U								
Silver	107	2	0.2	U								
Sodium	23	50	11.0	U								
Strontium	88	5	0.5	U								
Tin	118	2	0.2	U								
Titanium	47	2	0.4	U								
Tungsten	182	5	0.5	U								
Uranium	238	1	0.2	U								

## STL-ST. LOUIS

## Metals Data Reporting Form

## Initial Calibration Blank Results

Instrument: ICPMSUnits: ug/LChart Number: 052507M1.REP

Standard Source: \_\_\_\_\_

Standard ID: \_\_\_\_\_

Element	WL/ Mass	Report Limit	ICB 5/25/2007 11:30 AM		Found	Q	Found	Q	Found	Q	Found	Q
			Found	Q								
Barium	135	2	0.3	U								
Thallium	205	2	0.3	U								
Vanadium	51	10	1.6	U								
Zinc	66	10	1.0	U								

## STL-ST. LOUIS

## Metals Data Reporting Form

## Continuing Calibration Blank Results

Instrument: CVAAUnits: ug/LChart Number: AA0517E.PRN

Standard Source: \_\_\_\_\_

Standard ID: \_\_\_\_\_

Element	WL/ Mass	Report Limit	CCB 5/17/2007 2:58 PM		CCB 5/17/2007 3:26 PM		CCB 5/17/2007 3:55 PM		CCB 5/17/2007 4:22 PM	
			Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.2	0.1	U	-0.1	B	0.1	U	0.1	U

## STL-ST. LOUIS

## Metals Data Reporting Form

## Continuing Calibration Blank Results

Instrument: ICPMSUnits: ug/LChart Number: 052407M3.REP

Standard Source: \_\_\_\_\_

Standard ID: \_\_\_\_\_

Element	WL/ Mass	Report Limit	CCB 5/24/2007 1:52 PM		CCB 5/24/2007 3:06 PM		CCB 5/24/2007 4:20 PM		CCB 5/24/2007 5:35 PM		CCB 5/24/2007 6:49 PM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Aluminum	27	25	7.9	U	7.9	U	7.9	U	7.9	U	7.9	U
Antimony	123	1	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Arsenic	75	5	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Beryllium	9	0.5	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Boron	10	50	6.7	U	7.3	B	6.7	U	6.7	U	6.7	U
Cadmium	111	0.5	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Calcium	44	100	21.0	U	21.0	U	21.0	U	-27.0	B	-25.0	B
Chromium	52	10	2.8	U	2.8	U	2.8	U	2.8	U	2.8	U
Cobalt	59	2	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
Copper	65	1	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
Iron	57	20	9.4	U	9.4	U	9.4	U	9.4	U	9.4	U
Lead	208	3	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Magnesium	24	50	6.4	U	6.4	U	6.4	U	6.4	U	6.4	U
Manganese	55	2	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
Molybdenum	97	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Nickel	60	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Platinum	194	1	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
Potassium	39	100	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U
Selenium	82	5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Silver	107	2	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Sodium	23	50	11.0	U	11.0	U	11.0	U	11.0	U	11.0	U
Strontium	88	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Tin	118	2	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Titanium	47	2	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
Tungsten	182	5	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Uranium	238	1	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U



## STL-ST. LOUIS

## Metals Data Reporting Form

## Continuing Calibration Blank Results

Instrument: ICPMSUnits: ug/LChart Number: 052407M3.REP

Standard Source: \_\_\_\_\_

Standard ID: \_\_\_\_\_

Element	WL/ Mass	Report Limit	CCB 5/24/2007 8:03 PM		Found	Q	Found	Q	Found	Q	Found	Q
			Found	Q								
Aluminum	27	25	7.9	U								
Antimony	123	1	0.5	U								
Arsenic	75	5	2.0	U								
Beryllium	9	0.5	0.1	U								
Boron	10	50	6.7	U								
Cadmium	111	0.5	0.1	U								
Calcium	44	100	-28.0	B								
Chromium	52	10	2.8	U								
Cobalt	59	2	0.3	U								
Copper	65	1	0.3	U								
Iron	57	20	9.4	U								
Lead	208	3	0.5	U								
Magnesium	24	50	6.4	U								
Manganese	55	2	0.3	U								
Molybdenum	97	5	0.5	U								
Nickel	60	5	0.5	U								
Platinum	194	1	0.1	U								
Potassium	39	100	10.0	U								
Selenium	82	5	1.0	U								
Silver	107	2	0.2	U								
Sodium	23	50	11.0	U								
Strontium	88	5	0.5	U								
Tin	118	2	0.2	U								
Titanium	47	2	0.4	U								
Tungsten	182	5	0.5	U								
Uranium	238	1	0.2	U								

## STL-ST. LOUIS

## Metals Data Reporting Form

## Continuing Calibration Blank Results

Instrument: ICPMSUnits: ug/LChart Number: 052507M1.REP

Standard Source: \_\_\_\_\_

Standard ID: \_\_\_\_\_

Element	WL/ Mass	Report Limit	CCB 5/25/2007 11:56 AM		CCB 5/25/2007 12:50 PM		CCB 5/25/2007 1:44 PM		CCB 5/25/2007 2:38 PM		CCB 5/25/2007 3:31 PM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Barium	135	2	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
Thallium	205	2	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
Vanadium	51	10	1.6	U	1.6	U	1.6	U	1.6	U	1.6	U
Zinc	66	10	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

**STL-ST. LOUIS**

**Metals Data Reporting Form**

**Continuing Calibration Blank Results**

**Instrument:** ICPMS

**Units:** ug/L

**Chart Number:** 052507M1.REP

**Standard Source:** \_\_\_\_\_

**Standard ID:** \_\_\_\_\_

Element	WL/ Mass	Report Limit	CCB 5/25/2007 4:25 PM		Found	Q	Found	Q	Found	Q	Found	Q
			Found	Q								
Barium	135	2	0.3	U								
Thallium	205	2	0.3	U								
Vanadium	51	10	1.6	U								
Zinc	66	10	1.0	U								

## STL-ST. LOUIS

## Metals Data Reporting Form

## Preparation Blank Results

Lab Sample ID: JW057BMatrix: Water Units: ug/L Prep Date: 5/15/2007 Prep Batch: 7135271Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Aluminum	27	7.9	25.0	7.9	U	1	ICPMS	5/24/2007	17:59
Antimony	123	0.50	1.0	0.50	U	1	ICPMS	5/24/2007	17:59
Arsenic	75	2.0	5.0	2.0	U	1	ICPMS	5/24/2007	17:59
Barium	135	0.25	2.0	0.25	U	1	ICPMS	5/25/2007	14:56
Beryllium	9	0.088	0.50	0.088	U	1	ICPMS	5/24/2007	17:59
Boron	10	6.7	50.0	6.7	U	1	ICPMS	5/24/2007	17:59
Cadmium	111	0.057	0.50	0.057	U	1	ICPMS	5/24/2007	17:59
Calcium	44	21.0	100	-30	B	1	ICPMS	5/24/2007	17:59
Chromium	52	2.8	10.0	2.8	U	1	ICPMS	5/24/2007	17:59
Cobalt	59	0.31	2.0	0.31	U	1	ICPMS	5/24/2007	17:59
Copper	65	0.25	1.0	0.25	U	1	ICPMS	5/24/2007	17:59
Iron	57	9.4	20.0	9.4	U	1	ICPMS	5/24/2007	17:59
Lead	208	0.49	3.0	0.49	U	1	ICPMS	5/24/2007	17:59
Magnesium	24	6.4	50.0	6.4	U	1	ICPMS	5/24/2007	17:59
Manganese	55	0.34	2.0	0.34	U	1	ICPMS	5/24/2007	17:59
Molybdenum	97	0.50	5.0	0.50	U	1	ICPMS	5/24/2007	17:59
Nickel	60	0.52	5.0	0.52	U	1	ICPMS	5/24/2007	17:59
Platinum	194	0.10	1.0	0.10	U	1	ICPMS	5/24/2007	17:59
Potassium	39	10.0	100	10.0	U	1	ICPMS	5/24/2007	17:59
Selenium	82	1.0	5.0	1.0	U	1	ICPMS	5/24/2007	17:59
Silver	107	0.20	2.0	0.20	U	1	ICPMS	5/24/2007	17:59
Sodium	23	11.0	50.0	11.0	U	1	ICPMS	5/24/2007	17:59
Strontium	88	0.53	5.0	0.53	U	1	ICPMS	5/24/2007	17:59
Thallium	205	0.32	2.0	0.32	U	1	ICPMS	5/25/2007	14:56
Tin	118	0.20	2.0	0.20	U	1	ICPMS	5/24/2007	17:59
Titanium	47	0.39	2.0	0.39	U	1	ICPMS	5/24/2007	17:59
Tungsten	182	0.50	5.0	0.50	U	1	ICPMS	5/24/2007	17:59
Uranium	238	0.21	1.0	0.21	U	1	ICPMS	5/24/2007	17:59
Vanadium	51	1.6	10.0	-2.1	B	1	ICPMS	5/25/2007	14:56
Zinc	66	1.0	10.0	1.0	U	1	ICPMS	5/25/2007	14:56

Comments: Lot #: F7E150126Version 4.75.1  
SDG# ENSR051207U Result is less than the IDL  
B Result is between MDL and RLForm 3 Equivalent  
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## STL-ST. LOUIS

## Metals Data Reporting Form

## Preparation Blank Results

Lab Sample ID: JW5N5BMatrix: Water Units: ug/L Prep Date: 5/17/2007 Prep Batch: 7137175Weight: 30 Volume: 30 Percent Moisture: NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Mercury	253.7	0.093	0.20	0.093	U	1	CVAA	5/17/2007	15:35

Comments: Lot #: F7E150126

## STL-ST. LOUIS

## Metals Data Reporting Form

## Interference Check Standard A

Instrument: ICPMSUnits: ug/LChart Number: 052407M3.REPAcceptable Range: 80% - 120%Standard Source: Inorganic VenturesStandard ID: See Standards Log

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 5/24/2007 1:30 PM	Found	Found	Found	Found	Found
				Found					
Aluminum	27		50000	50200					
Antimony	123	1		0					
Arsenic	75	5		0					
Beryllium	9	0.5		0					
Boron	10	50		0					
Cadmium	111	0.5		0					
Calcium	44		50000	49400					
Chromium	52	10		-2					
Cobalt	59	2		0					
Copper	65	1		0					
Iron	57		20000	20400					
Lead	208	3		0					
Magnesium	24		50000	49600					
Manganese	55	2		1					
Molybdenum	97	5		0					
Nickel	60	5		1					
Platinum	194	1		0					
Potassium	39	100		-6					
Selenium	82	5		0					
Silver	107	2		0					
Sodium	23	50		1					
Strontium	88	5		1					
Tin	118	2		0					
Titanium	47	2		0					
Tungsten	182	5		0					
Uranium	238	1		0					

## STL-ST. LOUIS

## Metals Data Reporting Form

## Interference Check Standard A

Instrument: ICPMSUnits: ug/LChart Number: 052507M1.REPAcceptable Range: 80% - 120%Standard Source: Inorganic VenturesStandard ID: See Standards Log

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 5/25/2007 11:40 AM	Found	Found	Found	Found	Found
				Found					
Barium	135	2		0					
Thallium	205	2		0					
Vanadium	51	10		-1					
Zinc	66	10		1					

## STL-ST. LOUIS

## Metals Data Reporting Form

## Interference Check Standard AB

Instrument: ICPMSUnits: ug/LChart Number: 052407M3.REPAcceptable Range: 80% - 120%Standard Source: Inorganic VenturesStandard ID: See Standards Log

Element	WL/ Mass	True Conc	ICSAB 5/24/2007 1:37 PM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
			Found	% Rec								
Aluminum	27	50000	49282.4	98.6								
Antimony	123	100	95.5	95.5								
Arsenic	75	100	97.1	97.1								
Beryllium	9	50	48.1	96.2								
Boron	10	100	98.8	98.8								
Cadmium	111	100	93.3	93.3								
Calcium	44	50000	49279.8	98.6								
Chromium	52	50	46.2	92.3								
Cobalt	59	50	46.3	92.6								
Copper	65	50	43.5	87.0								
Iron	57	20000	20229.6	101.1								
Lead	208	100	92.6	92.6								
Magnesium	24	50000	48749.5	97.5								
Manganese	55	50	48.0	95.9								
Molybdenum	97	100	99.1	99.1								
Nickel	60	100	89.3	89.3								
Platinum	194	50	48.3	96.5								
Potassium	39	2000	1973.4	98.7								
Selenium	82	100	92.5	92.5								
Silver	107	100	88.0	88.0								
Sodium	23	2000	1902.3	95.1								
Strontium	88	100	90.7	90.7								
Tin	118	100	94.9	94.9								
Titanium	47	50	47.3	94.6								
Tungsten	182	50	47.3	94.5								
Uranium	238	100	94.9	94.9								



## STL-ST. LOUIS

## Metals Data Reporting Form

## Interference Check Standard AB

Instrument: ICPMSUnits: ug/LChart Number: 052507M1.REPAcceptable Range: 80% - 120%Standard Source: Inorganic VenturesStandard ID: See Standards Log

Element	WL/ Mass	True Conc	ICSAB 5/25/2007 11:45 AM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
			Found	% Rec								
Barium	135	50	47.3	94.5								
Thallium	205	100	93.3	93.3								
Vanadium	51	50	47.7	95.4								
Zinc	66	100	93.0	93.0								

## STL-ST. LOUIS

## Metals Data Reporting Form

## Matrix Spike Sample Results

Spike Sample ID: JW0G7S  
 Original Sample ID: JW0G7 Client ID: M11-F S  
 Matrix: Water Units: ug/L Prep Date: 5/17/2007 Prep Batch: 7137175  
 Weight: 30 Volume: 30 Percent Moisture: NA

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Mercury	253.7	0.14	B	1.2		1	108.6	1	1	CVAA	5/17/2007	15:42	5/17/2007	15:45

Comments: Lot #: F7E150126 Sample #: 1

Version 4.75.1

U Result is less than the IDL

B Result is between MDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

\* Duplicate analysis RPD was not within limits

Form 5A Equivalent

## STL-ST. LOUIS

## Metals Data Reporting Form

## Matrix Spike Duplicate Sample Results

Spike Sample ID: JW0G7D  
 Original Sample ID: JW0G7 Client ID: M11-F D  
 Matrix: Water Units: ug/L Prep Date: 5/17/2007 Prep Batch: 7137175  
 Weight: 30 Volume: 30 Percent Moisture: NA

Element	WL/ Mass	OS Conc	Q	MSD Conc	Q	Spike Level	% Rec	OS DF	MSD DF	Instr	OS Anal Date	OS Anal Time	MSD Anal Date	MSD Anal Time
Mercury	253.7	0.14	B	1.2		1	107.6	1	1	CVAA	5/17/2007	15:42	5/17/2007	15:47

Comments: Lot #: F7E150126 Sample #: 1

Version 4.75.1

U Result is less than the IDL

B Result is between MDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

\* Duplicate analysis RPD was not within limits

Form 5A Equivalent

## STL-ST. LOUIS

## Metals Data Reporting Form

## Matrix Spike Sample Results

Spike Sample ID: JW0G7SOriginal Sample ID: JW0G7Client ID: M11-F SMatrix: WaterUnits: ug/LPrep Date: 5/15/2007Prep Batch: 7135271Weight: 50Volume: 50Percent Moisture: NA

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Aluminum	27	393	U	979	B	1000	97.9	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:18
Antimony	123	25.0	U	240		250	96.1	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:18
Arsenic	75	250		1300		1000	104.8	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:18
Barium	135	12.4	U	946		1000	94.6	50	50	ICPMS	5/25/2007	15:05	5/25/2007	15:09
Beryllium	9	4.4	U	23.7	B	25	94.9	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:18
Boron	10	10200		11100		1000	96.7	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:18
Cadmium	111	2.9	U	26.8		25	107.1	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:18
Calcium	44	45600		72400		25000	107.2	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:18
Chromium	52	2200		2390	N	100	184.4	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:18
Cobalt	59	15.7	U	245		250	98.2	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:18
Copper	65	12.5	U	125		125	100.1	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:18
Iron	57	470	U	470	UN	500	57.5	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:18
Lead	208	24.6	U	246		250	98.5	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:18
Magnesium	24	36300		61400		25000	100.2	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:18
Manganese	55	17.1	U	254		250	101.5	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:18
Molybdenum	97	27.0	B	507		500	96.0	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:18
Nickel	60	25.8	U	238	B	250	95.2	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:18
Platinum	194	5.0	U	999		1000	99.8	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:18
Potassium	39	18600		43300		25000	98.8	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:18
Selenium	82	50.0	U	905		1000	90.5	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:18
Silver	107	10.1	U	28.2	B	25	112.8	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:18
Sodium	23	910000		943000	N	25000	133.1	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:18
Strontium	88	1200		1700		500	98.4	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:18
Thallium	205	22.2	B	952		1000	92.9	50	50	ICPMS	5/25/2007	15:05	5/25/2007	15:09
Tin	118	10.0	U	988		1000	98.8	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:18
Titanium	47	19.6	U	964		1000	96.4	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:18
Tungsten	182	27.7	B	1000		1000	97.6	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:18
Uranium	238	14.5	B	1010		1000	99.0	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:18
Vanadium	51	107	B	304	B	250	78.9	50	50	ICPMS	5/25/2007	15:05	5/25/2007	15:09
Zinc	66	50.0	U	258	B	250	103.2	50	50	ICPMS	5/25/2007	15:05	5/25/2007	15:09

Comments: Lot #: F7E150126 Sample #: 1

Version 4.75.1

U Result is less than the IDL

B Result is between MDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

\* Duplicate analysis RPD was not within limits

Form SA Equivalent

## STL-ST. LOUIS

## Metals Data Reporting Form

## Matrix Spike Duplicate Sample Results

Spike Sample ID: JW0G7DOriginal Sample ID: JW0G7Client ID: M11-FDMatrix: Water Units: ug/L Prep Date: 5/15/2007 Prep Batch: 7135271Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	OS Conc	Q	MSD Conc	Q	Spike Level	% Rec	OS DF	MSD DF	Instr	OS Anal Date	OS Anal Time	MSD Anal Date	MSD Anal Time
Aluminum	27	393	U	1000	B	1000	100.2	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:24
Antimony	123	25.0	U	252		250	100.7	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:24
Arsenic	75	250		1280		1000	103.0	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:24
Barium	135	12.4	U	977		1000	97.7	50	50	ICPMS	5/25/2007	15:05	5/25/2007	15:13
Beryllium	9	4.4	U	21.7	B	25	86.7	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:24
Boron	10	10200		10700	N *	1000	54.2	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:24
Cadmium	111	2.9	U	26.1		25	104.5	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:24
Calcium	44	45600		72200		25000	106.6	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:24
Chromium	52	2200	N	2390	N	100	187.5	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:24
Cobalt	59	15.7	U	248		250	99.3	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:24
Copper	65	12.5	U	124		125	99.5	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:24
Iron	57	470	UN	470	UN	500	51.0	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:24
Lead	208	24.6	U	248		250	99.0	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:24
Magnesium	24	36300		61600		25000	101.2	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:24
Manganese	55	17.1	U	253		250	101.1	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:24
Molybdenum	97	27.0	B	522		500	98.9	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:24
Nickel	60	25.8	U	242	B	250	96.7	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:24
Platinum	194	5.0	U	995		1000	99.5	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:24
Potassium	39	18600		43400		25000	99.3	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:24
Selenium	82	50.0	U	870		1000	87.0	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:24
Silver	107	10.1	U	28.7	B	25	114.7	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:24
Sodium	23	910000	N	935000	*	25000	101.0	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:24
Strontium	88	1200		1710		500	101.0	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:24
Thallium	205	22.2	B	988		1000	96.5	50	50	ICPMS	5/25/2007	15:05	5/25/2007	15:13
Tin	118	10.0	U	1010		1000	101.2	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:24
Titanium	47	19.6	U	979		1000	97.9	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:24
Tungsten	182	27.7	B	1010		1000	98.5	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:24
Uranium	238	14.5	B	1030		1000	101.3	50	50	ICPMS	5/24/2007	18:12	5/24/2007	18:24
Vanadium	51	107	B	360	B *	250	101.2	50	50	ICPMS	5/25/2007	15:05	5/25/2007	15:13
Zinc	66	50.0	U	271	B	250	108.5	50	50	ICPMS	5/25/2007	15:05	5/25/2007	15:13

Comments: Lot #: F7E150126 Sample #: 1

Version 4.75.1

U Result is less than the IDL

B Result is between MDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

\* Duplicate analysis RPD was not within limits

Form 5A Equivalent

## STL-ST. LOUIS

## Metals Data Reporting Form

## Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: JW0G7DMatrix Spike Sample ID: JW0G7S Client ID: M11-F DMatrix: Water Units: ug/L Prep Date: 5/17/2007 Prep Batch: 7137175Weight: 30 Volume: 30 Percent Moisture: NA

Element	WL/ Mass	MS Conc	Q	MSD Conc	Q	% RPD	MS DF	MSD DF	Instr	MS Anal Date	MS Anal Time	MSD Anal Date	MSD Anal Time
Mercury	253.7	1.2		1.2		0.9	1	1	CVAA	5/17/2007	15:45	5/17/2007	15:47

Comments: Lot #: F7E150126 Sample #: 1

Version 4.75.1

U Result is less than the IDL  
 B Result is between MDL and RL  
 N Spike recovery failed  
 NC Percent recovery was not calculated  
 \* Duplicate analysis RPD was not within limits

Form 6 Equivalent

## STL-ST. LOUIS

## Metals Data Reporting Form

## Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: JW0G7DMatrix Spike Sample ID: JW0G7S Client ID: M11-F DMatrix: Water Units: ug/L Prep Date: 5/15/2007 Prep Batch: 7135271Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	MS Conc	Q	MSD Conc	Q	% RPD	MS DF	MSD DF	Instr	MS Anal Date	MS Anal Time	MSD Anal Date	MSD Anal Time
Aluminum	27	979	B	1000	B	2.4	50	50	ICPMS	5/24/2007	18:18	5/24/2007	18:24
Antimony	123	240		252		4.7	50	50	ICPMS	5/24/2007	18:18	5/24/2007	18:24
Arsenic	75	1300		1280		1.8	50	50	ICPMS	5/24/2007	18:18	5/24/2007	18:24
Barium	135	946		977		3.2	50	50	ICPMS	5/25/2007	15:09	5/25/2007	15:13
Beryllium	9	23.7	B	21.7	B	9.0	50	50	ICPMS	5/24/2007	18:18	5/24/2007	18:24
Boron	10	11100		10700	N *	56.4	50	50	ICPMS	5/24/2007	18:18	5/24/2007	18:24
Cadmium	111	26.8		26.1		2.4	50	50	ICPMS	5/24/2007	18:18	5/24/2007	18:24
Calcium	44	72400		72200		0.5	50	50	ICPMS	5/24/2007	18:18	5/24/2007	18:24
Chromium	52	2390	N	2390	N	1.7	50	50	ICPMS	5/24/2007	18:18	5/24/2007	18:24
Cobalt	59	245		248		1.2	50	50	ICPMS	5/24/2007	18:18	5/24/2007	18:24
Copper	65	125		124		0.6	50	50	ICPMS	5/24/2007	18:18	5/24/2007	18:24
Iron	57	470	UN	470	UN	11.9	50	50	ICPMS	5/24/2007	18:18	5/24/2007	18:24
Lead	208	246		248		0.6	50	50	ICPMS	5/24/2007	18:18	5/24/2007	18:24
Magnesium	24	61400		61600		1.0	50	50	ICPMS	5/24/2007	18:18	5/24/2007	18:24
Manganese	55	254		253		0.5	50	50	ICPMS	5/24/2007	18:18	5/24/2007	18:24
Molybdenum	97	507		522		3.0	50	50	ICPMS	5/24/2007	18:18	5/24/2007	18:24
Nickel	60	238	B	242	B	1.5	50	50	ICPMS	5/24/2007	18:18	5/24/2007	18:24
Platinum	194	999		995		0.3	50	50	ICPMS	5/24/2007	18:18	5/24/2007	18:24
Potassium	39	43300		43400		0.5	50	50	ICPMS	5/24/2007	18:18	5/24/2007	18:24
Selenium	82	905		870		4.0	50	50	ICPMS	5/24/2007	18:18	5/24/2007	18:24
Silver	107	28.2	B	28.7	B	1.6	50	50	ICPMS	5/24/2007	18:18	5/24/2007	18:24
Sodium	23	943000	N	935000	*	27.4	50	50	ICPMS	5/24/2007	18:18	5/24/2007	18:24
Strontium	88	1700		1710		2.6	50	50	ICPMS	5/24/2007	18:18	5/24/2007	18:24
Thallium	205	952		988		3.8	50	50	ICPMS	5/25/2007	15:09	5/25/2007	15:13
Tin	118	988		1010		2.4	50	50	ICPMS	5/24/2007	18:18	5/24/2007	18:24
Titanium	47	964		979		1.5	50	50	ICPMS	5/24/2007	18:18	5/24/2007	18:24
Tungsten	182	1000		1010		0.9	50	50	ICPMS	5/24/2007	18:18	5/24/2007	18:24
Uranium	238	1010		1030		2.3	50	50	ICPMS	5/24/2007	18:18	5/24/2007	18:24
Vanadium	51	304	B	360	B *	24.7	50	50	ICPMS	5/25/2007	15:09	5/25/2007	15:13
Zinc	66	258	B	271	B	5.1	50	50	ICPMS	5/25/2007	15:09	5/25/2007	15:13

Comments: Lot #: F7E150126 Sample #: 1

Version 4.75.1

U Result is less than the IDL  
 B Result is between MDL and RL  
 N Spike recovery failed  
 NC Percent recovery was not calculated  
 \* Duplicate analysis RPD was not within limits

Form 6 Equivalent

## STL-ST. LOUIS

## Metals Data Reporting Form

## Laboratory Control Sample Results

Lab Sample ID: JW057CMatrix: Water Units: ug/L Prep Date: 5/15/2007 Prep Batch: 7135271Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Aluminum	27	500	489	97.7		85-115	1	ICPMS	5/24/2007	18:05
Antimony	123	500	437	87.4		85-115	1	ICPMS	5/24/2007	18:05
Arsenic	75	500	482	96.4		85-115	1	ICPMS	5/24/2007	18:05
Barium	135	500	491	98.2		85-115	1	ICPMS	5/25/2007	15:00
Beryllium	9	500	448	89.7		85-115	1	ICPMS	5/24/2007	18:05
Boron	10	1000	929	92.8		85-115	1	ICPMS	5/24/2007	18:05
Cadmium	111	500	453	90.6		85-115	1	ICPMS	5/24/2007	18:05
Calcium	44	10000	9720	97.2		85-115	1	ICPMS	5/24/2007	18:05
Chromium	52	500	445	89.0		85-115	1	ICPMS	5/24/2007	18:05
Cobalt	59	500	438	87.5		85-115	1	ICPMS	5/24/2007	18:05
Copper	65	500	427	85.4		85-115	1	ICPMS	5/24/2007	18:05
Iron	57	500	482	96.4		85-115	1	ICPMS	5/24/2007	18:05
Lead	208	500	464	92.7		85-115	1	ICPMS	5/24/2007	18:05
Magnesium	24	10000	9810	98.1		85-115	1	ICPMS	5/24/2007	18:05
Manganese	55	500	455	91.1		85-115	1	ICPMS	5/24/2007	18:05
Molybdenum	97	500	476	95.3		85-115	1	ICPMS	5/24/2007	18:05
Nickel	60	500	431	86.2		85-115	1	ICPMS	5/24/2007	18:05
Platinum	194	1000	861	86.1		85-115	1	ICPMS	5/24/2007	18:05
Potassium	39	10000	9560	95.6		85-115	1	ICPMS	5/24/2007	18:05
Selenium	82	500	452	90.4		85-115	1	ICPMS	5/24/2007	18:05
Silver	107	125	121	96.8		85-115	1	ICPMS	5/24/2007	18:05
Sodium	23	10000	9880	98.8		85-115	1	ICPMS	5/24/2007	18:05
Strontium	88	500	461	92.1		85-115	1	ICPMS	5/24/2007	18:05
Thallium	205	500	502	100.4		85-115	1	ICPMS	5/25/2007	15:00
Tin	118	1000	881	88.1		85-115	1	ICPMS	5/24/2007	18:05
Titanium	47	1000	905	90.5		85-115	1	ICPMS	5/24/2007	18:05
Tungsten	182	1000	912	91.2		85-115	1	ICPMS	5/24/2007	18:05
Uranium	238	1000	947	94.6		85-115	1	ICPMS	5/24/2007	18:05
Vanadium	51	500	511	102.3		85-115	1	ICPMS	5/25/2007	15:00
Zinc	66	500	461	92.2		85-115	1	ICPMS	5/25/2007	15:00

Comments: Lot #: F7E150126Version 4.75.1  
SDG# ENSR051207U Result is less than the IDL  
B Result is between MDL and RL

Form 7 Equipment 600



## STL-ST. LOUIS

## Metals Data Reporting Form

## Laboratory Control Sample Results

Lab Sample ID: JW5N5CMatrix: Water Units: ug/L Prep Date: 5/17/2007 Prep Batch: 7137175Weight: 30 Volume: 30 Percent Moisture: NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Mercury	253.7	1.0	1.0	102.0		80-120	1	CVAA	5/17/2007	15:39

Comments: Lot #: F7E150126

## STL-ST. LOUIS

### Metals Data Reporting Form

#### Serial Dilution RPD Report

 Serial Dilution Sample ID: JW0G7V

 Original Sample ID: JW0G7 Client ID: M11-F

 Matrix: Water Units: ug/L Prep Date: 5/15/2007 Prep Batch: 7135271

 Weight: 50 Volume: 50 Percent Moisture: NA

Element	WL/ Mass	OS Conc	Q	Serial Dilution Conc	Q	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Aluminum	27	393	U	1970	U		50	250	ICPMS	5/24/2007	18:12	5/24/2007	18:30
Antimony	123	25.0	U	125	U		50	250	ICPMS	5/24/2007	18:12	5/24/2007	18:30
Arsenic	75	250		500	U		50	250	ICPMS	5/24/2007	18:12	5/24/2007	18:30
Barium	135	12.4	U	61.9	U		50	250	ICPMS	5/25/2007	15:05	5/25/2007	15:18
Beryllium	9	4.4	U	22.0	U		50	250	ICPMS	5/24/2007	18:12	5/24/2007	18:30
Boron	10	10200	N*	11900	B		50	250	ICPMS	5/24/2007	18:12	5/24/2007	18:30
Cadmium	111	2.9	U	14.4	U		50	250	ICPMS	5/24/2007	18:12	5/24/2007	18:30
Calcium	44	45600		42800			50	250	ICPMS	5/24/2007	18:12	5/24/2007	18:30
Chromium	52	2200	N	2160	B		50	250	ICPMS	5/24/2007	18:12	5/24/2007	18:30
Cobalt	59	15.7	U	78.3	U		50	250	ICPMS	5/24/2007	18:12	5/24/2007	18:30
Copper	65	12.5	U	62.5	U		50	250	ICPMS	5/24/2007	18:12	5/24/2007	18:30
Iron	57	470	UN	2350	U		50	250	ICPMS	5/24/2007	18:12	5/24/2007	18:30
Lead	208	24.6	U	123	U		50	250	ICPMS	5/24/2007	18:12	5/24/2007	18:30
Magnesium	24	36300		39200		7.8	50	250	ICPMS	5/24/2007	18:12	5/24/2007	18:30
Manganese	55	17.1	U	85.5	U		50	250	ICPMS	5/24/2007	18:12	5/24/2007	18:30
Molybdenum	97	27.0	B	125	U		50	250	ICPMS	5/24/2007	18:12	5/24/2007	18:30
Nickel	60	25.8	U	129	U		50	250	ICPMS	5/24/2007	18:12	5/24/2007	18:30
Platinum	194	5.0	U	25.0	U		50	250	ICPMS	5/24/2007	18:12	5/24/2007	18:30
Potassium	39	18600		17900	B		50	250	ICPMS	5/24/2007	18:12	5/24/2007	18:30
Selenium	82	50.0	U	250	U		50	250	ICPMS	5/24/2007	18:12	5/24/2007	18:30
Silver	107	10.1	U	50.7	U		50	250	ICPMS	5/24/2007	18:12	5/24/2007	18:30
Sodium	23	910000	N*	934000		2.6	50	250	ICPMS	5/24/2007	18:12	5/24/2007	18:30
Strontium	88	1200		1270			50	250	ICPMS	5/24/2007	18:12	5/24/2007	18:30
Thallium	205	22.2	B	80.0	U		50	250	ICPMS	5/25/2007	15:05	5/25/2007	15:18
Tin	118	10.0	U	50.0	U		50	250	ICPMS	5/24/2007	18:12	5/24/2007	18:30
Titanium	47	19.6	U	97.8	U		50	250	ICPMS	5/24/2007	18:12	5/24/2007	18:30
Tungsten	182	27.7	B	125	U		50	250	ICPMS	5/24/2007	18:12	5/24/2007	18:30
Uranium	238	14.5	B	52.4	U		50	250	ICPMS	5/24/2007	18:12	5/24/2007	18:30
Vanadium	51	107	B*	400	U		50	250	ICPMS	5/25/2007	15:05	5/25/2007	15:18
Zinc	66	50.0	U	250	U		50	250	ICPMS	5/25/2007	15:05	5/25/2007	15:18

 Comments: 250X

Version 4.75.1

U Result is less than the IDL

Form 9 Equivalent

B Result is between MDL and RL

E Serial dilution percent difference not within limits

**Form 9  
STL St. Louis**

**Serial Dilution RPD Report**

<b>Serial Dilution Sample ID:</b>	<u>                    </u>	<b>JW0G7V</b>	<u>                    </u>
<b>Original Sample ID</b>	<u>                    </u>	<b>JW0G7</b>	<u>                    </u>
<b>Matrix</b>	<u>          </u>	<b>Water</b>	<u>                    </u>
<b>Client ID</b>	<u>                    </u>	<b>M11-F</b>	<u>                    </u>
<b>Weight</b>	<u>                    </u>	<b>50</b>	<u>                    </u>
<b>Prep Date</b>	<u>                    </u>	<b>5/15/2007</b>	<u>                    </u>
<b>Units</b>	<u>          </u>	<b>ug/L</b>	<u>                    </u>
<b>Prep Batch</b>	<u>                    </u>	<b>7135271</b>	<u>                    </u>
<b>Volume</b>	<u>                    </u>	<b>50</b>	<u>                    </u>

<b>Element</b>	<b>Initial Sample</b>	<b>Q</b>	<b>Serial Dilution</b>	<b>Q</b>	<b>% Difference</b>	<b>Q</b>
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium	45600		42800		6.1	
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Lithium						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium	1200		1270		5.8	
Thallium						
Uranium						
Vanadium						
Zinc						

U Result is less than the MDL  
 B Result is between the MDL and RL  
 E Serial Dilution Percent Difference not within limits

## STL-ST. LOUIS

## Metals Data Reporting Form

## Serial Dilution RPD Report

Serial Dilution Sample ID: JW0G7VOriginal Sample ID: JW0G7 Client ID: M11-FMatrix: Water Units: ug/L Prep Date: 5/17/2007 Prep Batch: 7137175Weight: 30 Volume: 30 Percent Moisture: NA

Element	WL/ Mass	OS Conc	Q	Serial Dilution Conc	Q	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Mercury	253.7	0.14	B	0.46	U		1	5	CVAA	5/17/2007	15:42	5/17/2007	15:49

Comments: \_\_\_\_\_

Version 4.75.1

U Result is less than the IDL

Form 9 Equivalent

B Result is between MDL and RL

E Serial dilution percent difference not within limits

SDG# ENSR051207

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# STL-ST. LOUIS

## Metals Data Reporting Form

### Instrument Detection Limits

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Instrument: CVAA

Units: ug/L

Element	Wavelength /Mass	Reporting Limit	MDL	Date of MDL
Mercury	253.70	0.2	0.093	8/25/2005

## STL-ST. LOUIS

## Metals Data Reporting Form

Instrument Detection LimitsInstrument: ICPMSUnits: ppb

Element	Wavelength /Mass	Reporting Limit	MDL	Date of MDL
Aluminum	27.00	25	7.9	12/23/2005
Antimony	123.00	1	0.50	12/23/2005
Arsenic	75.00	5	2.0	12/23/2005
Barium	135.00	2	0.25	12/23/2005
Beryllium	9.00	0.5	0.088	12/23/2005
Boron	10.00	50	6.7	12/23/2005
Cadmium	111.00	0.5	0.057	12/23/2005
Calcium	44.00	100	21.0	12/23/2005
Chromium	52.00	10	2.8	12/23/2005
Cobalt	59.00	2	0.31	12/23/2005
Copper	65.00	1	0.25	12/23/2005
Iron	57.00	20	9.4	12/23/2005
Lead	208.00	3	0.49	12/23/2005
Magnesium	24.00	50	6.4	12/23/2005
Manganese	55.00	2	0.34	12/23/2005
Molybdenum	97.00	5	0.50	12/23/2005
Nickel	60.00	5	0.52	12/23/2005
Platinum	194.00	1	0.10	12/23/2005
Potassium	39.00	100	10.0	12/23/2005
Selenium	82.00	5	1.0	12/23/2005
Silver	107.00	2	0.20	12/23/2005
Sodium	23.00	50	11.0	12/23/2005
Strontium	88.00	5	0.53	12/23/2005
Thallium	205.00	2	0.32	12/23/2005
Tin	118.00	2	0.20	12/23/2005
Titanium	47.00	2	0.39	12/23/2005
Tungsten	182.00	5	0.50	12/23/2005
Uranium	238.00	1	0.21	12/23/2005
Vanadium	51.00	10	1.6	12/23/2005
Zinc	66.00	10	1.0	12/23/2005

**STL-ST. LOUIS**  
Metals Data Reporting Form

Linear Dynamic Ranges

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Instrument: CVAAUnits: ug/L

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Mercury	253.70	10	1/3/2006

**STL-ST. LOUIS**  
Metals Data Reporting Form

Linear Dynamic Ranges

Instrument: ICPMS

Units: ppb

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Aluminum	27.00	100000	2/1/2006
Antimony	123.00	20000	1/16/2006
Arsenic	75.00	20000	1/16/2006
Barium	135.00	4000	1/16/2006
Beryllium	9.00	10000	1/16/2006
Boron	10.00	10000	1/16/2006
Cadmium	111.00	10000	1/16/2006
Calcium	44.00	500000	1/16/2006
Chromium	52.00	20000	1/16/2006
Cobalt	59.00	20000	1/16/2006
Copper	65.00	10000	1/16/2006
Iron	57.00	500000	1/16/2006
Lead	208.00	20000	1/16/2006
Magnesium	24.00	100000	1/16/2006
Manganese	55.00	20000	1/16/2006
Molybdenum	97.00	10000	1/16/2006
Nickel	60.00	20000	1/16/2006
Platinum	194.00	50000	1/16/2006
Potassium	39.00	100000	2/1/2006
Selenium	82.00	20000	1/16/2006
Silver	107.00	400	1/16/2006
Sodium	23.00	100000	1/16/2006
Strontium	88.00	20000	1/16/2006
Thallium	205.00	20000	1/16/2006
Tin	118.00	10000	1/16/2006
Titanium	47.00	4000	1/16/2006
Tungsten	182.00	50000	1/16/2006
Uranium	238.00	20000	1/16/2006
Vanadium	51.00	20000	1/16/2006
Zinc	66.00	20000	1/16/2006



## STL-ST. LOUIS

## Metals Data Reporting Form

## Preparation Log

Preparation Batch: 7135271 Instrument: ICP Matrix: Water

Sample ID	Prep Date	Weight (g)	Volume (ml)	% Moisture
JW057B	5/15/2007	50	50	NA
JW057C	5/15/2007	50	50	NA
JW0G7	5/15/2007	50	50	NA
JW0G7D	5/15/2007	50	50	NA
JW0G7S	5/15/2007	50	50	NA
JW0G9	5/15/2007	50	50	NA
JW0HA	5/15/2007	50	50	NA
JW0HC	5/15/2007	50	50	NA
JW0HD	5/15/2007	50	50	NA
JW0HE	5/15/2007	50	50	NA
JW0HF	5/15/2007	50	50	NA
JW0HJ	5/15/2007	50	50	NA
JW0HK	5/15/2007	50	50	NA
JW0HL	5/15/2007	50	50	NA
JW0HN	5/15/2007	50	50	NA
JW0HP	5/15/2007	50	50	NA

## STL-ST. LOUIS

## Metals Data Reporting Form

## Preparation Log

Preparation Batch: 7137175 Instrument: CVAA Matrix: Water

Sample ID	Prep Date	Weight (g)	Volume (ml)	% Moisture
JW5N5B	5/17/2007	30	30	NA
JW5N5C	5/17/2007	30	30	NA
JW0G7	5/17/2007	30	30	NA
JW0G7D	5/17/2007	30	30	NA
JW0G7S	5/17/2007	30	30	NA
JW0G9	5/17/2007	30	30	NA
JW0HA	5/17/2007	30	30	NA
JW0HC	5/17/2007	30	30	NA
JW0HD	5/17/2007	30	30	NA
JW0HE	5/17/2007	30	30	NA
JW0HF	5/17/2007	30	30	NA
JW0HJ	5/17/2007	30	30	NA
JW0HK	5/17/2007	30	30	NA
JW0HL	5/17/2007	30	30	NA
JW0HN	5/17/2007	30	30	NA
JW0HP	5/17/2007	30	30	NA

## STL-ST. LOUIS

## Metals Data Reporting Form

## Instrument Runlog

Instrument: CVAAChart Number: AA0517E.PRN

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
Std01Rep1		5/17/2007	14:35
Std02Rep1		5/17/2007	14:38
Std03Rep1		5/17/2007	14:41
Std04Rep1		5/17/2007	14:43
Std05Rep1		5/17/2007	14:45
Std06Rep1		5/17/2007	14:47
ICV		5/17/2007	14:49
ICB		5/17/2007	14:52
CRA		5/17/2007	14:54
CCV		5/17/2007	14:56
CCB		5/17/2007	14:58
ZZZZZZ		5/17/2007	15:00
ZZZZZZ		5/17/2007	15:03
ZZZZZZ		5/17/2007	15:05
ZZZZZZ		5/17/2007	15:07
ZZZZZZ		5/17/2007	15:10
ZZZZZZ		5/17/2007	15:12
ZZZZZZ		5/17/2007	15:15
ZZZZZZ		5/17/2007	15:17
ZZZZZZ		5/17/2007	15:20
ZZZZZZ		5/17/2007	15:22
CCV		5/17/2007	15:24
CCB		5/17/2007	15:26
ZZZZZZ		5/17/2007	15:29
ZZZZZZ		5/17/2007	15:31
ZZZZZZ		5/17/2007	15:33
JW5N5B		5/17/2007	15:35
JW5N5C		5/17/2007	15:39
JW0G7	M11-F	5/17/2007	15:42
JW0G7S	M11-F S	5/17/2007	15:45
JW0G7D	M11-F D	5/17/2007	15:47
JW0G7V	M11-F	5/17/2007	15:49
JW0G9	M11-Z	5/17/2007	15:51
CCV		5/17/2007	15:53
CCB		5/17/2007	15:55
JW0HA	M89-L	5/17/2007	15:58
JW0HC	M89-F	5/17/2007	16:00
JW0HD	M89-Z	5/17/2007	16:02
JW0HE	M97-L	5/17/2007	16:04

## STL-ST. LOUIS

## Metals Data Reporting Form

## Instrument Runlog

Instrument: CVAAChart Number: AA0517E.PRN

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
JWOHF	M97-F	5/17/2007	16:06
JWOHJ	M97-Z	5/17/2007	16:09
JWOHK	M12A-L	5/17/2007	16:11
JWOHL	M12A-F	5/17/2007	16:13
JWOHN	M12A-Z	5/17/2007	16:15
JWOHP	EB051107-Z	5/17/2007	16:18
CCV		5/17/2007	16:20
CCB		5/17/2007	16:22
ZZZZZZ		5/17/2007	16:24
ZZZZZZ		5/17/2007	16:27
ZZZZZZ		5/17/2007	16:29
ZZZZZZ		5/17/2007	16:32
ZZZZZZ		5/17/2007	16:34
ZZZZZZ		5/17/2007	16:36
ZZZZZZ		5/17/2007	16:39
ZZZZZZ		5/17/2007	16:41
ZZZZZZ		5/17/2007	16:43
ZZZZZZ		5/17/2007	16:45
ZZZZZZ		5/17/2007	16:47
ZZZZZZ		5/17/2007	16:49
ZZZZZZ		5/17/2007	16:51
ZZZZZZ		5/17/2007	16:53
ZZZZZZ		5/17/2007	16:56
ZZZZZZ		5/17/2007	16:58
ZZZZZZ		5/17/2007	17:01
ZZZZZZ		5/17/2007	17:03
ZZZZZZ		5/17/2007	17:05
ZZZZZZ		5/17/2007	17:07
ZZZZZZ		5/17/2007	17:09
ZZZZZZ		5/17/2007	17:11
ZZZZZZ		5/17/2007	17:13
ZZZZZZ		5/17/2007	17:15
ZZZZZZ		5/17/2007	17:18
ZZZZZZ		5/17/2007	17:21
ZZZZZZ		5/17/2007	17:23
ZZZZZZ		5/17/2007	17:25
ZZZZZZ		5/17/2007	17:27
ZZZZZZ		5/17/2007	17:29
ZZZZZZ		5/17/2007	17:32

## STL-ST. LOUIS

## Metals Data Reporting Form

## Instrument Runlog

Instrument: CVAAChart Number: AA0517E.PRN

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		5/17/2007	17:34
ZZZZZZ		5/17/2007	17:36
ZZZZZZ		5/17/2007	17:39
ZZZZZZ		5/17/2007	17:41
ZZZZZZ		5/17/2007	17:43
ZZZZZZ		5/17/2007	17:45
ZZZZZZ		5/17/2007	17:47
ZZZZZZ		5/17/2007	17:50
ZZZZZZ		5/17/2007	17:52
ZZZZZZ		5/17/2007	17:54
ZZZZZZ		5/17/2007	17:56
ZZZZZZ		5/17/2007	17:59
ZZZZZZ		5/17/2007	18:01
ZZZZZZ		5/17/2007	18:03
ZZZZZZ		5/17/2007	18:05
ZZZZZZ		5/17/2007	18:08
ZZZZZZ		5/17/2007	18:10
ZZZZZZ		5/17/2007	18:12
ZZZZZZ		5/17/2007	18:14
ZZZZZZ		5/17/2007	18:17
ZZZZZZ		5/17/2007	18:19
ZZZZZZ		5/17/2007	18:21
ZZZZZZ		5/17/2007	18:23
ZZZZZZ		5/17/2007	18:25
ZZZZZZ		5/17/2007	18:28
ZZZZZZ		5/17/2007	18:31
ZZZZZZ		5/17/2007	18:33
ZZZZZZ		5/17/2007	18:35
ZZZZZZ		5/17/2007	18:38
ZZZZZZ		5/17/2007	18:40
ZZZZZZ		5/17/2007	18:42
ZZZZZZ		5/17/2007	18:44
ZZZZZZ		5/17/2007	18:46

## STL-ST. LOUIS

## Metals Data Reporting Form

## Instrument Runlog

Instrument: ICPMSChart Number: 052407M3.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
CALBLK		5/24/2007	12:33
CAL1		5/24/2007	12:39
CAL2		5/24/2007	12:45
CAL3		5/24/2007	12:50
CAL4		5/24/2007	12:56
CAL5		5/24/2007	13:01
ICV		5/24/2007	13:10
ICB		5/24/2007	13:17
CRI		5/24/2007	13:23
ICSA		5/24/2007	13:30
ICSAB		5/24/2007	13:37
CCV		5/24/2007	13:45
CCB		5/24/2007	13:52
ZZZZZZ		5/24/2007	13:58
ZZZZZZ		5/24/2007	14:04
ZZZZZZ		5/24/2007	14:10
ZZZZZZ		5/24/2007	14:17
ZZZZZZ		5/24/2007	14:23
ZZZZZZ		5/24/2007	14:29
ZZZZZZ		5/24/2007	14:35
ZZZZZZ		5/24/2007	14:41
ZZZZZZ		5/24/2007	14:47
ZZZZZZ		5/24/2007	14:53
CCV		5/24/2007	14:59
CCB		5/24/2007	15:06
ZZZZZZ		5/24/2007	15:12
ZZZZZZ		5/24/2007	15:19
ZZZZZZ		5/24/2007	15:25
ZZZZZZ		5/24/2007	15:31
ZZZZZZ		5/24/2007	15:37
ZZZZZZ		5/24/2007	15:43
ZZZZZZ		5/24/2007	15:49
ZZZZZZ		5/24/2007	15:55
ZZZZZZ		5/24/2007	16:01
ZZZZZZ		5/24/2007	16:08
CCV		5/24/2007	16:14
CCB		5/24/2007	16:20
ZZZZZZ		5/24/2007	16:27
ZZZZZZ		5/24/2007	16:33

## STL-ST. LOUIS

## Metals Data Reporting Form

## Instrument Runlog

Instrument: ICPMSChart Number: 052407M3.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		5/24/2007	16:39
ZZZZZZ		5/24/2007	16:45
ZZZZZZ		5/24/2007	16:51
ZZZZZZ		5/24/2007	16:57
ZZZZZZ		5/24/2007	17:03
ZZZZZZ		5/24/2007	17:10
ZZZZZZ		5/24/2007	17:16
ZZZZZZ		5/24/2007	17:22
CCV		5/24/2007	17:28
CCB		5/24/2007	17:35
ZZZZZZ		5/24/2007	17:41
ZZZZZZ		5/24/2007	17:47
ZZZZZZ		5/24/2007	17:53
JW057B		5/24/2007	17:59
JW057C		5/24/2007	18:05
JW0G7	M11-F	5/24/2007	18:12
JW0G7S	M11-F S	5/24/2007	18:18
JW0G7D	M11-F D	5/24/2007	18:24
JW0G7V	M11-F	5/24/2007	18:30
JW0G9	M11-Z	5/24/2007	18:36
CCV		5/24/2007	18:42
CCB		5/24/2007	18:49
JW0HA	M89-L	5/24/2007	18:55
JW0HC	M89-F	5/24/2007	19:01
JW0HD	M89-Z	5/24/2007	19:07
JW0HE	M97-L	5/24/2007	19:14
JW0HF	M97-F	5/24/2007	19:20
JW0HJ	M97-Z	5/24/2007	19:26
JW0HK	M12A-L	5/24/2007	19:32
JW0HL	M12A-F	5/24/2007	19:38
JW0HN	M12A-Z	5/24/2007	19:44
JW0HP	EB051107-Z	5/24/2007	19:50
CCV		5/24/2007	19:56
CCB		5/24/2007	20:03
ZZZZZZ		5/24/2007	20:09
ZZZZZZ		5/24/2007	20:15
ZZZZZZ		5/24/2007	20:22
ZZZZZZ		5/24/2007	20:28
ZZZZZZ		5/24/2007	20:34

## STL-ST. LOUIS

## Metals Data Reporting Form

## Instrument Runlog

Instrument: ICPMSChart Number: 052407M3.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		5/24/2007	20:40
ZZZZZZ		5/24/2007	20:46
ZZZZZZ		5/24/2007	20:52
ZZZZZZ		5/24/2007	20:58
ZZZZZZ		5/24/2007	21:04
ZZZZZZ		5/24/2007	21:10
ZZZZZZ		5/24/2007	21:17
ZZZZZZ		5/24/2007	21:24
ZZZZZZ		5/24/2007	21:30
ZZZZZZ		5/24/2007	21:36
ZZZZZZ		5/24/2007	21:42
ZZZZZZ		5/24/2007	21:48
ZZZZZZ		5/24/2007	21:54
ZZZZZZ		5/24/2007	22:00
ZZZZZZ		5/24/2007	22:06
ZZZZZZ		5/24/2007	22:12
ZZZZZZ		5/24/2007	22:18
ZZZZZZ		5/24/2007	22:24
ZZZZZZ		5/24/2007	22:31
ZZZZZZ		5/24/2007	22:37
ZZZZZZ		5/24/2007	22:44
ZZZZZZ		5/24/2007	22:50
ZZZZZZ		5/24/2007	22:56
ZZZZZZ		5/24/2007	23:02
ZZZZZZ		5/24/2007	23:08
ZZZZZZ		5/24/2007	23:14
ZZZZZZ		5/24/2007	23:20
ZZZZZZ		5/24/2007	23:27



## STL-ST. LOUIS

## Metals Data Reporting Form

## Instrument Runlog

Instrument: ICPMSChart Number: 052507M1.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
CALBLK		5/25/2007	10:59
CAL1		5/25/2007	11:02
CAL2		5/25/2007	11:06
CAL3		5/25/2007	11:10
CAL4		5/25/2007	11:14
CAL5		5/25/2007	11:18
ICV		5/25/2007	11:25
ICB		5/25/2007	11:30
CRI		5/25/2007	11:35
ICSA		5/25/2007	11:40
ICSAB		5/25/2007	11:45
CCV		5/25/2007	11:52
CCB		5/25/2007	11:56
ZZZZZZ		5/25/2007	12:01
ZZZZZZ		5/25/2007	12:06
ZZZZZZ		5/25/2007	12:10
ZZZZZZ		5/25/2007	12:14
ZZZZZZ		5/25/2007	12:19
ZZZZZZ		5/25/2007	12:23
ZZZZZZ		5/25/2007	12:28
ZZZZZZ		5/25/2007	12:32
ZZZZZZ		5/25/2007	12:36
ZZZZZZ		5/25/2007	12:41
CCV		5/25/2007	12:45
CCB		5/25/2007	12:50
ZZZZZZ		5/25/2007	12:55
ZZZZZZ		5/25/2007	12:59
ZZZZZZ		5/25/2007	13:04
ZZZZZZ		5/25/2007	13:08
ZZZZZZ		5/25/2007	13:13
ZZZZZZ		5/25/2007	13:17
ZZZZZZ		5/25/2007	13:22
ZZZZZZ		5/25/2007	13:26
ZZZZZZ		5/25/2007	13:30
ZZZZZZ		5/25/2007	13:35
CCV		5/25/2007	13:39
CCB		5/25/2007	13:44
ZZZZZZ		5/25/2007	13:49
ZZZZZZ		5/25/2007	13:53

## STL-ST. LOUIS

## Metals Data Reporting Form

## Instrument Runlog

Instrument: ICPMSChart Number: 052507M1.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		5/25/2007	13:58
ZZZZZZ		5/25/2007	14:02
ZZZZZZ		5/25/2007	14:06
ZZZZZZ		5/25/2007	14:11
ZZZZZZ		5/25/2007	14:15
ZZZZZZ		5/25/2007	14:20
ZZZZZZ		5/25/2007	14:24
ZZZZZZ		5/25/2007	14:29
CCV		5/25/2007	14:33
CCB		5/25/2007	14:38
ZZZZZZ		5/25/2007	14:43
ZZZZZZ		5/25/2007	14:47
ZZZZZZ		5/25/2007	14:51
JW057B		5/25/2007	14:56
JW057C		5/25/2007	15:00
JW0G7	M11-F	5/25/2007	15:05
JW0G7S	M11-F S	5/25/2007	15:09
JW0G7D	M11-F D	5/25/2007	15:13
JW0G7V	M11-F	5/25/2007	15:18
JW0G9	M11-Z	5/25/2007	15:22
CCV		5/25/2007	15:26
CCB		5/25/2007	15:31
JW0HA	M89-L	5/25/2007	15:36
JW0HC	M89-F	5/25/2007	15:41
JW0HD	M89-Z	5/25/2007	15:45
JW0HE	M97-L	5/25/2007	15:49
JW0HF	M97-F	5/25/2007	15:54
JW0HJ	M97-Z	5/25/2007	15:58
JW0HK	M12A-L	5/25/2007	16:03
JW0HL	M12A-F	5/25/2007	16:07
JW0HN	M12A-Z	5/25/2007	16:12
JW0HP	EB051107-Z	5/25/2007	16:16
CCV		5/25/2007	16:20
CCB		5/25/2007	16:25
ZZZZZZ		5/25/2007	16:30
ZZZZZZ		5/25/2007	16:34
ZZZZZZ		5/25/2007	16:39
ZZZZZZ		5/25/2007	16:43
ZZZZZZ		5/25/2007	16:47

## STL-ST. LOUIS

## Metals Data Reporting Form

## Instrument Runlog

Instrument: ICPMSChart Number: 052507M1.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		5/25/2007	16:52
ZZZZZZ		5/25/2007	16:56
ZZZZZZ		5/25/2007	17:01
ZZZZZZ		5/25/2007	17:05
ZZZZZZ		5/25/2007	17:09
ZZZZZZ		5/25/2007	17:14
ZZZZZZ		5/25/2007	17:19
ZZZZZZ		5/25/2007	17:36
ZZZZZZ		5/25/2007	17:40
ZZZZZZ		5/25/2007	17:44
ZZZZZZ		5/25/2007	17:49
ZZZZZZ		5/25/2007	17:53
ZZZZZZ		5/25/2007	17:57
ZZZZZZ		5/25/2007	18:02
ZZZZZZ		5/25/2007	18:06
ZZZZZZ		5/25/2007	18:10
ZZZZZZ		5/25/2007	18:15
ZZZZZZ		5/25/2007	18:19
ZZZZZZ		5/25/2007	18:24
ZZZZZZ		5/25/2007	18:29
ZZZZZZ		5/25/2007	18:33
ZZZZZZ		5/25/2007	18:38
ZZZZZZ		5/25/2007	18:42
ZZZZZZ		5/25/2007	18:47
ZZZZZZ		5/25/2007	18:51
ZZZZZZ		5/25/2007	18:55
ZZZZZZ		5/25/2007	19:00
ZZZZZZ		5/25/2007	19:04
ZZZZZZ		5/25/2007	19:09
ZZZZZZ		5/25/2007	19:13
ZZZZZZ		5/25/2007	19:17
ZZZZZZ		5/25/2007	19:21
ZZZZZZ		5/25/2007	19:25
ZZZZZZ		5/25/2007	19:29
ZZZZZZ		5/25/2007	19:36
ZZZZZZ		5/25/2007	19:41
ZZZZZZ		5/25/2007	19:46
ZZZZZZ		5/25/2007	19:51
ZZZZZZ		5/25/2007	19:55

## STL-ST. LOUIS

## Metals Data Reporting Form

## Instrument Runlog

Instrument: ICPMSChart Number: 052507M1.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		5/25/2007	20:02
ZZZZZZ		5/25/2007	20:07
ZZZZZZ		5/25/2007	20:12
ZZZZZZ		5/25/2007	20:17
ZZZZZZ		5/25/2007	20:21
ZZZZZZ		5/25/2007	20:26
ZZZZZZ		5/25/2007	20:31
ZZZZZZ		5/25/2007	20:35
ZZZZZZ		5/25/2007	20:39
ZZZZZZ		5/25/2007	20:44
ZZZZZZ		5/25/2007	20:48
ZZZZZZ		5/25/2007	20:53
ZZZZZZ		5/25/2007	20:57
ZZZZZZ		5/25/2007	21:01
ZZZZZZ		5/25/2007	21:06
ZZZZZZ		5/25/2007	21:10
ZZZZZZ		5/25/2007	21:15
ZZZZZZ		5/25/2007	21:20
ZZZZZZ		5/25/2007	21:24
ZZZZZZ		5/25/2007	21:29
ZZZZZZ		5/25/2007	21:33
ZZZZZZ		5/25/2007	21:38
ZZZZZZ		5/25/2007	21:42
ZZZZZZ		5/25/2007	21:47
ZZZZZZ		5/25/2007	21:51
ZZZZZZ		5/25/2007	21:55
ZZZZZZ		5/25/2007	22:00
ZZZZZZ		5/25/2007	22:04
ZZZZZZ		5/25/2007	22:09
ZZZZZZ		5/25/2007	22:14
ZZZZZZ		5/25/2007	22:18
ZZZZZZ		5/25/2007	22:23
ZZZZZZ		5/25/2007	22:27
ZZZZZZ		5/25/2007	22:31
ZZZZZZ		5/25/2007	22:36
ZZZZZZ		5/25/2007	22:40
ZZZZZZ		5/25/2007	22:45
ZZZZZZ		5/25/2007	22:49
ZZZZZZ		5/25/2007	22:54

## STL-ST. LOUIS

## Metals Data Reporting Form

## Instrument Runlog

Instrument: ICPMSChart Number: 052507M1.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		5/25/2007	22:58
ZZZZZZ		5/25/2007	23:03
ZZZZZZ		5/25/2007	23:08
ZZZZZZ		5/25/2007	23:12
ZZZZZZ		5/25/2007	23:16
ZZZZZZ		5/25/2007	23:21
ZZZZZZ		5/25/2007	23:25
ZZZZZZ		5/25/2007	23:30
ZZZZZZ		5/25/2007	23:34
ZZZZZZ		5/25/2007	23:38
ZZZZZZ		5/25/2007	23:43
ZZZZZZ		5/25/2007	23:47
ZZZZZZ		5/25/2007	23:51
ZZZZZZ		5/25/2007	23:56
ZZZZZZ		5/26/2007	0:01
ZZZZZZ		5/26/2007	0:06
ZZZZZZ		5/26/2007	0:10
ZZZZZZ		5/26/2007	0:15
ZZZZZZ		5/26/2007	0:19
ZZZZZZ		5/26/2007	0:23
ZZZZZZ		5/26/2007	0:28
ZZZZZZ		5/26/2007	0:32
ZZZZZZ		5/26/2007	0:36
ZZZZZZ		5/26/2007	0:41
ZZZZZZ		5/26/2007	0:45
ZZZZZZ		5/26/2007	0:50
ZZZZZZ		5/26/2007	0:55
ZZZZZZ		5/26/2007	0:59
ZZZZZZ		5/26/2007	1:04
ZZZZZZ		5/26/2007	1:08
ZZZZZZ		5/26/2007	1:12
ZZZZZZ		5/26/2007	1:17
ZZZZZZ		5/26/2007	1:21
ZZZZZZ		5/26/2007	1:25
ZZZZZZ		5/26/2007	1:30
ZZZZZZ		5/26/2007	1:34
ZZZZZZ		5/26/2007	1:39
ZZZZZZ		5/26/2007	1:43
ZZZZZZ		5/26/2007	1:48

## STL-ST. LOUIS

## Metals Data Reporting Form

## Instrument Runlog

Instrument: ICPMSChart Number: 052507M1.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		5/26/2007	1:53
ZZZZZZ		5/26/2007	1:57
ZZZZZZ		5/26/2007	2:01
ZZZZZZ		5/26/2007	2:06
ZZZZZZ		5/26/2007	2:10
ZZZZZZ		5/26/2007	2:15
ZZZZZZ		5/26/2007	2:19
ZZZZZZ		5/26/2007	2:23
ZZZZZZ		5/26/2007	2:28
ZZZZZZ		5/26/2007	2:33

## STL St. Louis

**Form 15**  
**ICP-MS Internal Standards Relative Intensity Summary**

Lot No.: F7E150126

SDG No.: \_\_\_\_\_

Laboratory Sample ID	Analysis Date/Time	Element Sc	Q	Element In	Q	Element Ho	Q	Element Ge	Q
F7E150000-271B	5/24/07 17:59	101.937		101.951		103.155	Q	100.163	
F7E150000-271C	5/24/07 18:05	102.858		102.417		102.422		95.898	
F7E150126-001	5/24/07 18:12	98.759		97.047		99.769		95.895	
F7E150126-001S	5/24/07 18:18	93.615		93.400		94.653		91.163	
F7E150126-001D	5/24/07 18:24	96.276		93.700		96.001		93.054	
F7E150126-001V	5/24/07 18:30	95.723		97.106		97.084		93.519	
F7E150126-002	5/24/07 18:36	96.584		95.999		97.336		93.410	
CCV	5/24/07 18:42	99.589		96.669		98.885		94.679	
CCB	5/24/07 18:49	96.605		96.700		99.102		94.885	
F7E150126-003	5/24/07 18:55	96.861		96.308		96.476		94.844	
F7E150126-004	5/24/07 19:01	99.927		99.634		100.378		96.680	
F7E150126-005	5/24/07 19:07	97.774		97.501		99.230		96.033	
F7E150126-006	5/24/07 19:14	99.250		96.728		100.253		95.790	
F7E150126-007	5/24/07 19:20	99.225		97.371		100.661		96.258	
F7E150126-008	5/24/07 19:26	99.468		98.138		99.644		96.225	
F7E150126-009	5/24/07 19:32	97.349		97.414		99.270		95.321	
F7E150126-010	5/24/07 19:38	99.821		96.644		99.300		95.774	
F7E150126-011	5/24/07 19:44	98.163		96.049		98.553		95.028	
F7E150126-012	5/24/07 19:50	103.989		104.563		106.685		101.753	
CCV	5/24/07 19:56	100.853		100.493		101.341		96.859	
CCB	5/24/07 20:03	98.858		98.369		101.178		95.682	

Criteria: Samples - 30% - 150%

ICV, ICB, CCV, CCB, ICSA, ICSAB - 80% - 120%

## STL St. Louis

Form 15  
ICP-MS Internal Standards Relative Intensity SummaryLot No.: F7E150126

SDG No.: \_\_\_\_\_

Laboratory Sample ID	Analysis Date/Time	Element Sc	Q	Element In	Q	Element Ho	Q	Element Ge	Q
JW057B	5/25/07 14:56	100.13				102.81		97.55	
JW057C	5/25/07 15:00	100.86				102.25		97.15	
JW0G7	5/25/07 15:05	98.20				101.64		97.56	
JW0G7S	5/25/07 15:09	97.32				100.74		97.14	
JW0G7D	5/25/07 15:13	97.97				100.55		96.68	
JW0G7V	5/25/07 15:18	98.46				102.48		97.26	
JW0G9	5/25/07 15:22	99.87				102.53		98.38	
CCV	5/25/07 15:26	98.20				101.00		96.20	
CCB	5/25/07 15:31	96.03				98.92		94.97	
JW0HA	5/25/07 15:36	98.49				102.05		97.85	
JW0HC	5/25/07 15:41	97.36				100.41		96.25	
JW0HD	5/25/07 15:45	97.52				100.58		96.63	
JW0HE	5/25/07 15:49	99.49				101.43		96.98	
JW0HF	5/25/07 15:54	98.76				100.76		96.60	
JW0HJ	5/25/07 15:58	98.74				101.63		97.22	
JW0HK	5/25/07 16:03	97.69				100.77		97.26	
JW0HL	5/25/07 16:07	98.43				101.40		97.67	
JW0HN	5/25/07 16:12	97.55				99.81		97.24	
JW0HP	5/25/07 16:16	101.38				101.57		98.61	
CCV	5/25/07 16:20	99.63				102.02		97.06	
CCB	5/25/07 16:25	97.23				99.70		95.97	

Criteria: Samples - 30% - 150%

ICV, ICB, CCV, CCB, ICSA, ICSAB - 80% - 120%



**METALS RAW DATA**

SL25107

file: DT052407M3

# Sample/Batch Report

STL ST. LOUIS - PERKIN ELMER ELAN 6100 - METHOD 6020 / 200.8 QUANTITATIVE ANALYSIS REP

User Name: stlmetals

Computer Name: SLICP03

Sample File: D:\Elandata\Sample\SW846 TEMP.sam

Report Date/Time: Thursday, May 24, 2007 08:35:02

Method File: d:\Elandata\Method\DAIly EPA.mth

Tuning File: d:\Elandata\Tuning\EPA TUNING.tun

Optimization File: d:\Elandata\Optimize\EPA.dac

Calibration File:

Calibration Type: External Calibration

Number of Replicates: 6

Number of Readings: 1

Number of Sweeps: 60

Dual Detector Mode: Pulse

M5052107

A/S Loc.	Batch ID	Sample ID	Description	Aliquot Vol.	Diluted Vol.
24	7134307	JWXAHB			
25	7134307	JWXAHC	↓ Zn		
26	7134307	JWPA2	10X		
27	7134307	JWPA2S	10X		
28	7134307	JWPA2D	10X		
29	7134307	JWPA2V	50X		
30	7134307	JWPA3	10X		
31	7134307	JWPA3S	10X		
32	7134307	JWPA3D	10X		
33	7134307	JWPA4	10X - cov		
34	7134307	JWPA5	50X		
35	7134307	JWPA6	50X		
36	7134307	JWPA7	50X		
37	7134307	JWPA8	25X		
38	7134307	JWPA9	25X		
39	7134307	JWPCA	25X		
40	7134307	JWPCD	50X		
41	7134307	JWPCF	50X		
42	7134307	JWPCG	50X		
43	7134307	JWPCK	50X		
44	7134307	JWPCN	50X - cov		
45	7134307	JWPCP			
46	7136319	JW3MAB			
47	7136319	JW3MAC	+ Zn		
48	7136319	JWN8W	50X		
49	7136319	JWN8WS	50X		
50	7136319	JWN8WD	50X		
51	7136319	JWN8WV	250X		
52	7136319	JWN9G	50X		
53	7136319	JWN9J	50X - cov + v		
54	7136319	JWN9K	50X		
55	7136319	JWN9L	50X		
56	7136319	JWN9T	50X		
57	7135271	JW057A			
58	7135271	JW057C	+ Zn		
59	7135271	JW0G7	50X		
60	7135271	JW0G7S	50X		
61	7135271	JW0G7D	50X		
62	7135271	JW0G7V	250X		
63	7135271	JW0G9	50X - cov + v		
64	7135271	JW0HA	100X		

cov + TI

All except Zn, TI

All except Zn

All except Zn, V

All except Zn, V

All except Zn, V, Ba, TI

65	7135271	JWOHC	100X
66	7135271	JWOHD	100X
67	7135271	JWOHE	25X
68	7135271	JWOHF	25X
69	7135271	JWOHJ	25X
70	7135271	JWOHK	100X
71	7135271	JWOHL	100X
72	7135271	JWOHN	100X
73	7135271		
74	7136320	JW3MLB	
75	7136320	JW3MLC	+Zn
76	7136320	JWRGX	20X
77	7136320	JWRGXS	20X
78	7136320	JWRGXD	20X
79	7136320	JWRGXV	100X
80	7136320	JWRG3	20X
81	7136320	JWRG3S	20X
82	7136320	JWRG3D	20X
83	7136320	JWRG5	20X
84	7136320	JWRG7	100X
85	7136320	JWRG8	100X
86	7136320	JWRHC	100X
87	7136320	JWRHD	50X
88	7136320	JWRHH	50X
89	7136320	JWRHL	50X
90	7136320	JWRHR	50X
91	7136320	JWRHW	50X
92	7136320	JWRHX	50X
93	7136320	JWRH0	50X
94	7136320	JWRH1	50X
95	7136320	JWRH2	50X
96	7136320	JWRH3	50X
97	7136320	JWRH5	50X
98	7136320	JWRH6	50X
99	7136320	JWRH8	50X
100	7136320	JWRH9	

All except  
Zn, V, Ba  
TI

- cov + V, Ba, TI

All except  
V, Ba, TI  
Zn

- cov + V

All except  
V, Zn

- cov + V

- cov + V

## Quantitative Analysis Calibration Report

File Name: 052407M3.cal  
 File Path: D:\Elandata\System  
 Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Be	9.012	Linear Thru Zero	0.000327	0.00	0.999993
B	10.013	Linear Thru Zero	0.000074	0.00	0.999901
Na	22.990	Linear Thru Zero	0.010049	0.00	0.999998
Mg	23.985	Linear Thru Zero	0.006831	0.00	0.999995
Al	26.982	Linear Thru Zero	0.009809	0.00	0.999992
K	38.964	Linear Thru Zero	0.014645	0.00	0.999996
Ca	43.956	Linear Thru Zero	0.000495	0.00	0.999869
Sc-1	44.956	Linear Thru Zero	0.000000	0.00	0.000000
V	50.944	Linear Thru Zero	0.017453	0.00	0.999994
Cr	51.941	Linear Thru Zero	0.014448	0.00	0.999916
Mn	54.938	Linear Thru Zero	0.022015	0.00	0.999984
Fe	56.935	Linear Thru Zero	0.000397	0.00	0.999781
Co	58.933	Linear Thru Zero	0.015546	0.00	0.999959
Ni	59.933	Linear Thru Zero	0.003384	0.00	0.999983
Cu	64.928	Linear Thru Zero	0.004038	0.00	0.999996
Zn	65.926	Linear Thru Zero	0.002349	0.00	0.999996
Ge-1	71.922	Linear Thru Zero	0.000000	0.00	0.000000
As	74.922	Linear Thru Zero	0.002348	0.00	0.999992
Se	81.917	Linear Thru Zero	0.000253	0.00	1.000000
Mo	96.906	Linear Thru Zero	0.001827	0.00	0.999996
Ag	106.905	Linear Thru Zero	0.007948	0.00	0.999987
Cd	110.904	Linear Thru Zero	0.001765	0.00	0.999998
In-1	114.904	Linear Thru Zero	0.000000	0.00	0.000000
Sb	122.904	Linear Thru Zero	0.004593	0.00	0.999980
Ba	134.906	Linear Thru Zero	0.001286	0.00	0.999974
Ho-1	164.930	Linear Thru Zero	0.000000	0.00	0.000000
Tl	204.975	Linear Thru Zero	0.014321	0.00	0.999987
Pb	207.977	Linear Thru Zero	0.019394	0.00	0.999942
U	238.050	Linear Thru Zero	0.012460	0.00	0.999958
Sc-2	44.956	Linear Thru Zero	0.000000	0.00	0.000000
Cr	52.941	Linear Thru Zero	0.001408	0.00	0.994514
Fe	53.940	Linear Thru Zero	0.001035	0.00	0.999874
Ni	60.931	Linear Thru Zero	0.000153	0.00	0.999999
Cu	62.930	Linear Thru Zero	0.007936	0.00	0.999983
Zn	66.927	Linear Thru Zero	0.000417	0.00	0.999949
Ge	71.922	Linear Thru Zero	0.000000	0.00	0.000000
Se	76.920	Linear Thru Zero	0.000183	0.00	0.999816
Mo	97.906	Linear Thru Zero	0.004698	0.00	0.999982
Ag	108.905	Linear Thru Zero	0.007980	0.00	0.999993
In-2	114.904	Linear Thru Zero	0.000000	0.00	0.000000

Cd	113.904	Linear Thru Zero	0.003933	0.00	0.999943
Sb	120.904	Linear Thru Zero	0.005951	0.00	0.999962
Ba	136.905	Linear Thru Zero	0.002171	0.00	0.999938
Ho-2	164.930	Linear Thru Zero	0.000000	0.00	0.000000
W	181.948	Linear Thru Zero	0.004532	0.00	0.999969
W	182.950	Linear Thru Zero	0.002492	0.00	0.999997
Pt	193.963	Linear Thru Zero	0.003574	0.00	0.999997
Pt	194.965	Linear Thru Zero	0.003664	0.00	0.999988
Tl	202.972	Linear Thru Zero	0.006023	0.00	0.999976
Pb	205.975	Linear Thru Zero	0.005025	0.00	0.999975
Pb	206.976	Linear Thru Zero	0.004201	0.00	0.999974
Sc	44.956	Linear Thru Zero	0.000000	0.00	0.000000
Ti	46.952	Linear Thru Zero	0.001379	0.00	0.999996
Sr	85.909	Linear Thru Zero	0.004689	0.00	1.000000
Sr	87.906	Linear Thru Zero	0.040248	0.00	0.999994
In	114.904	Linear Thru Zero	0.000000	0.00	0.000000
Sn	117.902	Linear Thru Zero	0.005140	0.00	0.999987
Sn	119.902	Linear Thru Zero	0.006931	0.00	0.999964

# Instrument Tuning Report

File Name: EPA TUNING.tun  
 File Path: d:\Elandata\Tuning  
 Sample ID: Sample  
 Sample Date/Time: Thursday, May 24, 2007 07:56:18

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.027	602	2081	0.635	
Mg	23.985	23.979	5684	2074	0.638	
Rh	102.905	102.829	24918	2051	0.710	
Ce	139.905	139.929	33943	2105	0.646	
Pb	207.977	207.977	50420	2289	0.655	

## Replicates: 6

Meas. Intens.	RSD	Mass
0.401		2.000
0.679		3.000
9.824		4.000
29.814		5.000
20.510		22.000
0.847		23.000
0.815		24.000
2.287		25.000
0.940		26.000
3.132		102.000
1.070		103.000
23.135		104.000
5.692		139.000
0.672		140.000
12.689		141.000
0.932		206.000
0.719		207.000
0.649		208.000
27.303		209.000

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Report Date/Time: Thursday, May 24, 2007 08:01:16

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## Daily Performance Report

## Sample ID: Sample

Sample Date/Time: Thursday, May 24, 2007 08:12:31

Sample Description:

Method File: d:\Elandata\Method\DAILY EPA.mth

Dataset File: d:\Elandata\Dataset\DAILY PERFORMANCE EPA\Sample.701

Tuning File: d:\Elandata\Tuning\EPA TUNING.tun

Optimization File: d:\Elandata\Optimize\EPA.dac

Dual Detector Mode: Pulse

Acq. Dead Time(ns): 35

Current Dead Time (ns): 35

## Summary

Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
Mg	24.0	57433.4	57433.450	520.633	0.9
Rh	102.9	264783.8	264783.818	1828.481	0.7
Pb	208.0	217961.5	217961.484	1223.317	0.6
[> Ba	137.9	277158.9	277158.937	870.567	0.3
[ Ba++	69.0	4415.4	0.016	0.000	1.7
[> Ce	139.9	325581.9	325581.949	1567.992	0.5
[ CeO	155.9	8353.2	0.026	0.000	0.6
Bkgd	220.0	5.6	5.611	1.512	26.9

## Current Optimization File Data

Current Value	Description
0.86	Nebulizer Gas Flow
6.00	Lens Voltage
1150.00	ICP RF Power
-2187.50	Analog Stage Voltage
1200.00	Pulse Stage Voltage
70.00	Discriminator Threshold
-13.00	AC Rod Offset
60.00	Service DAC 1
0.00	Quadrupole Rod Offset

## Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	25	8.3	2465.2
Mg	24	25	7.8	60116.2
Co	59	25	8.8	116054.5
Rh	103	25	9.8	300791.7
In	115	25	10.0	355826.9
Ba	138	25	10.0	283051.6
Ce	140	25	10.0	344633.5
Pb	208	25	10.0	167192.7

Sample ID: Sample

Report Date/Time: Thursday, May 24, 2007 08:15:23

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## QUANTITATIVE ANALYSIS REPORT

Sample ID: Blank

Sample Date/Time: Thursday, May 24, 2007 12:33:56

Autosampler Position: 1

Dataset File: D:\Elandata\Dataset\052407m1\Blank.042

## Sample Result Summary

Mass Analyte	Conc.	Mean	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be					3.000	ug/L	
10 B					90.668	ug/L	
23 Na					24909.622	ug/L	
24 Mg					6273.773	ug/L	
27 Al					15227.265	ug/L	
39 K					707925.205	ug/L	
44 Ca					48369.900	ug/L	
> 45 Sc-1					467697.114	ug/L	
51 V					-17188.401	ug/L	
52 Cr					43700.177	ug/L	
55 Mn					3939.583	ug/L	
57 Fe					6563.304	ug/L	
59 Co					70.668	ug/L	
60 Ni					205.004	ug/L	
65 Cu					201.670	ug/L	
66 Zn					3569.482	ug/L	
> 72 Ge-1					592936.498	ug/L	
75 As					-502.888	ug/L	
82 Se					-70.642	ug/L	
97 Mo					69.001	ug/L	
107 Ag					109.002	ug/L	
111 Cd					35.667	ug/L	
> 115 In-1					994304.053	ug/L	
123 Sb					235.401	ug/L	
135 Ba					183.670	ug/L	
> 165 Ho-1					1276105.159	ug/L	
205 Tl					1936.818	ug/L	
208 Pb					3500.871	ug/L	
238 U					35.667	ug/L	
> 45 Sc-2					467697.114	ug/L	
53 Cr					319041.768	ug/L	
54 Fe					42890.999	ug/L	
61 Ni					1069.051	ug/L	
63 Cu					321.674	ug/L	
67 Zn					21519.078	ug/L	
> 72 Ge					592936.498	ug/L	
77 Se					13366.987	ug/L	
98 Mo					95.062	ug/L	
109 Ag					120.002	ug/L	
> 115 In-2					994304.053	ug/L	
114 Cd					53.748	ug/L	
121 Sb					329.340	ug/L	
137 Ba					281.339	ug/L	
> 165 Ho-2					1276105.159	ug/L	
182 W					457.679	ug/L	
183 W					253.338	ug/L	
194 Pt					76.668	ug/L	
195 Pt					48.001	ug/L	
203 Tl					780.029	ug/L	
206 Pb					888.037	ug/L	
207 Pb					745.027	ug/L	
> 45 Sc					467697.114	ug/L	
47 Ti					647.355	ug/L	
86 Sr					151.307	ug/L	
88 Sr					1301.072	ug/L	
> 115 In					994304.053	ug/L	
118 Sn					357.341	ug/L	



[ 120 Sn 488.632 ug/L

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45		
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
[ Zn	66		
> Ge-1	72		
As	75		
[ Se	82		
[ Mo	97		
Ag	107		
Cd	111		
> In-1	115		
[ Sb	123		
[ Ba	135		
> Ho-1	165		
Tl	205		
Pb	208		
[ U	238		
> Sc-2	45		
Cr	53		
Fe	54		
Ni	61		
Cu	63		
[ Zn	67		
> Ge	72		
[ Se	77		
[ Mo	98		
Ag	109		
> In-2	115		
Cd	114		
[ Sb	121		
[ Ba	137		
> Ho-2	165		
W	182		
W	183		
Pt	194		
Pt	196		
Tl	203		
Pb	206		
[ Pb	207		
> Sc	45		
Ti	47		
Sr	86		
[ Sr	88		
> In	115		
[ Sn	118		
[ Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: Standard 1

Sample Date/Time: Thursday, May 24, 2007 12:39:31

Autosampler Position: 2

Dataset File: D:\Elandata\Dataset\052407m1\Standard 1.043

## Sample Result Summary

	Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	9	Be	20.000000	1.925	3176.718	ug/L	3.000	
	10	B	20.000000	1.905	782.363	ug/L	90.668	
	23	Na			35042.613	ug/L	24909.622	
	24	Mg			8007.657	ug/L	6273.773	
	27	Al			15557.957	ug/L	15227.265	
	39	K			726997.302	ug/L	707925.205	
	44	Ca			50371.154	ug/L	48369.900	
>	45	Sc-1			481957.568	ug/L	467697.114	
	51	V	20.000000	1.583	148624.641	ug/L	-17188.401	
	52	Cr	20.000000	2.684	198185.706	ug/L	43700.177	
	55	Mn	20.000000	0.885	226814.683	ug/L	3939.583	
	57	Fe			8326.438	ug/L	6563.304	
	59	Co	20.000000	1.088	157035.715	ug/L	70.668	
	60	Ni	20.000000	0.850	34639.291	ug/L	205.004	
	65	Cu	20.000000	1.693	40021.730	ug/L	201.670	
	66	Zn	20.000000	1.868	26573.292	ug/L	3569.482	
>	72	Ge-1			600774.401	ug/L	592936.498	
	75	As	20.000000	0.866	27936.881	ug/L	-502.888	
	82	Se	20.000000	3.329	2960.592	ug/L	-70.642	
[	97	Mo	20.000000	1.649	38041.972	ug/L	69.001	
	107	Ag	4.000000	1.618	33379.293	ug/L	109.002	
	111	Cd	20.000000	0.907	36423.072	ug/L	35.667	
>	115	In-1			1011256.692	ug/L	994304.053	
	123	Sb	20.000000	0.545	95744.103	ug/L	235.401	
[	135	Ba	20.000000	1.091	34349.590	ug/L	183.670	
>	165	Ho-1			1292218.135	ug/L	1276105.159	
	205	Tl	20.000000	2.702	378144.759	ug/L	1936.818	
	208	Pb	20.000000	1.308	524367.393	ug/L	3500.871	
	238	U	20.000000	1.418	332923.808	ug/L	35.667	
>	45	Sc-2			481957.568	ug/L	467697.114	
	53	Cr	20.000000	40.595	334075.413	ug/L	319041.768	
	54	Fe			48818.503	ug/L	42890.999	
	61	Ni	20.000000	2.336	2598.929	ug/L	1069.051	
	63	Cu	20.000000	1.443	79545.661	ug/L	321.674	
	67	Zn	20.000000	11.934	25836.935	ug/L	21519.078	
>	72	Ge			600774.401	ug/L	592936.498	
	77	Se	20.000000	6.654	15617.613	ug/L	13366.987	
[	98	Mo	20.000000	1.464	98289.939	ug/L	95.062	
	109	Ag	4.000000	0.759	33234.948	ug/L	120.002	
>	115	In-2			1011256.692	ug/L	994304.053	
	114	Cd	20.000000	0.262	84384.728	ug/L	53.748	
	121	Sb	20.000000	1.419	125685.450	ug/L	329.340	
[	137	Ba	20.000000	0.721	58626.976	ug/L	281.339	
>	165	Ho-2			1292218.135	ug/L	1276105.159	
	182	W	20.000000	0.395	120392.075	ug/L	457.679	
	183	W	20.000000	0.466	65190.395	ug/L	253.338	
	194	Pt	20.000000	1.625	93798.879	ug/L	76.668	
	195	Pt	20.000000	0.970	96350.461	ug/L	48.001	
	203	Tl	20.000000	2.935	158925.508	ug/L	780.029	
	206	Pb	20.000000	1.227	135251.594	ug/L	888.037	
	207	Pb	20.000000	0.935	110841.112	ug/L	745.027	
>	45	Sc			481957.568	ug/L	467697.114	
	47	Ti	20.000000	2.683	13973.305	ug/L	647.355	
	86	Sr	20.000000	2.107	45537.428	ug/L	151.307	
	88	Sr	20.000000	1.727	398454.634	ug/L	1301.072	
>	115	In			1011256.692	ug/L	994304.053	
	118	Sn	20.000000	1.391	107503.421	ug/L	357.341	

[ 120 Sn 20.000000 0.716 147627.093 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte Mass	Int Std % Recovery	QC Std % Recovery
[ Be 9		
B 10		
Na 23		
Mg 24		
Al 27		
K 39		
Ca 44		
[> Sc-1 45		
V 51		
Cr 52		
Mn 55		
Fe 57		
Co 59		
Ni 60		
Cu 65		
[ Zn 66		
[> Ge-1 72		
As 75		
Se 82		
[ Mo 97		
Ag 107		
Cd 111		
[> In-1 115		
Sb 123		
[ Ba 135		
[> Ho-1 165		
Tl 205		
Pb 208		
[ U 238		
[> Sc-2 45		
Cr 53		
Fe 54		
Ni 61		
Cu 63		
[ Zn 67		
[> Ge 72		
Se 77		
[ Mo 98		
Ag 109		
[> In-2 115		
Cd 114		
Sb 121		
[ Ba 137		
[> Ho-2 165		
W 182		
W 183		
Pt 194		
Pt 195		
Tl 203		
Pb 206		
[ Pb 207		
[> Sc 45		
Ti 47		
Sr 86		
[ Sr 88		
[> In 115		
Sn 118		
[ Sn 120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: Standard 2

Sample Date/Time: Thursday, May 24, 2007 12:45:06

Autosampler Position: 3

Dataset File: D:\Elandata\Dataset\052407m1\Standard 2.044

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
9 Be	49.846780	1.452	7757.184	ug/L	3.000
10 B	49.874333	1.960	1782.796	ug/L	90.668
23 Na			33153.758	ug/L	24909.622
24 Mg			7204.222	ug/L	6273.773
27 Al			11249.207	ug/L	15227.265
39 K			733898.513	ug/L	707925.205
44 Ca			51551.028	ug/L	48369.900
> 45 Sc-1			481518.486	ug/L	467697.114
51 V	49.991904	2.747	397174.448	ug/L	-17188.401
52 Cr	49.560640	1.595	404419.418	ug/L	43700.177
55 Mn	49.741881	0.928	540232.682	ug/L	3939.583
57 Fe			6695.523	ug/L	6563.304
59 Co	49.888055	3.180	385713.682	ug/L	70.668
60 Ni	49.673953	2.430	82278.088	ug/L	205.004
65 Cu	49.895364	1.622	98146.316	ug/L	201.670
66 Zn	49.844807	2.182	59590.960	ug/L	3569.482
> 72 Ge-1			596406.522	ug/L	592936.498
75 As	50.050653	1.990	70618.989	ug/L	-502.888
82 Se	50.007384	1.649	7461.809	ug/L	-70.642
97 Mo	49.843647	1.883	92863.819	ug/L	69.001
107 Ag	9.973553	0.485	81693.075	ug/L	109.002
111 Cd	49.874104	1.230	89349.474	ug/L	35.667
> 115 In-1			1011023.774	ug/L	994304.053
123 Sb	49.963683	0.555	237888.625	ug/L	235.401
135 Ba	49.991017	1.029	83860.926	ug/L	183.670
> 165 Ho-1			1267719.484	ug/L	1276105.159
205 Tl	50.023529	1.087	927592.951	ug/L	1936.818
208 Pb	50.006654	1.664	1281998.171	ug/L	3500.871
238 U	50.001516	1.634	816598.115	ug/L	35.667
> 45 Sc-2			481518.486	ug/L	467697.114
53 Cr	52.938291	20.259	350652.923	ug/L	319041.768
54 Fe			44944.928	ug/L	42890.999
61 Ni	49.901024	2.480	4786.183	ug/L	1069.051
63 Cu	49.884944	2.230	194894.737	ug/L	321.674
67 Zn	50.489482	6.850	31992.437	ug/L	21519.078
> 72 Ge			596406.522	ug/L	592936.498
77 Se	49.879830	9.136	18502.090	ug/L	13366.987
98 Mo	49.908526	0.435	242306.871	ug/L	95.062
109 Ag	9.979580	1.279	81671.951	ug/L	120.002
> 115 In-2			1011023.774	ug/L	994304.053
114 Cd	49.838416	0.773	205926.088	ug/L	53.748
121 Sb	49.926654	0.733	310331.906	ug/L	329.340
137 Ba	50.010572	2.416	143564.948	ug/L	281.339
> 165 Ho-2			1267719.484	ug/L	1276105.159
182 W	50.040362	0.623	296309.215	ug/L	457.679
183 W	50.007639	2.548	159655.921	ug/L	253.338
194 Pt	49.954886	2.200	228420.723	ug/L	76.668
195 Pt	50.006949	1.192	236468.131	ug/L	48.001
203 Tl	50.074955	1.922	392793.351	ug/L	780.029
206 Pb	49.935231	1.245	327319.751	ug/L	888.037
207 Pb	50.096352	0.873	274554.673	ug/L	745.027
> 45 Sc			481518.486	ug/L	467697.114
47 Ti	50.073778	2.192	34260.047	ug/L	647.355
86 Sr	49.989939	2.371	113344.740	ug/L	151.307
88 Sr	49.764998	1.725	960301.973	ug/L	1301.072
> 115 In			1011023.774	ug/L	994304.053
118 Sn	49.900103	1.571	264312.559	ug/L	357.341

[ 120 Sn 49.853821 0.246 360589.211 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
[> Sc-1	45		
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
[ Zn	66		
[> Ge-1	72		
As	75		
[ Se	82		
[ Mo	97		
Ag	107		
Cd	111		
[> In-1	115		
[ Sb	123		
[ Ba	135		
[> Ho-1	165		
Tl	205		
Pb	208		
[ U	238		
[> Sc-2	45		
Cr	53		
Fe	54		
Ni	61		
Cu	63		
[ Zn	67		
[> Ge	72		
[ Se	77		
[ Mo	98		
Ag	109		
[> In-2	115		
[ Cd	114		
[ Sb	121		
[ Ba	137		
[> Ho-2	165		
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
[ Pb	207		
[> Sc	45		
Tl	47		
Sr	86		
[ Sr	88		
[> In	115		
Sn	118		
[ Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: Standard 3

Sample Date/Time: Thursday, May 24, 2007 12:50:43

Autosampler Position: 4

Dataset File: D:\Elandata\Dataset\052407m1\Standard 3.045

## Sample Result Summary

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[	9 Be	200.170091	3.251	30839.572	ug/L	3.000
	10 B	200.751550	2.850	7113.176	ug/L	90.668
	23 Na	500.000000	2.678	2484765.678	ug/L	24909.622
	24 Mg	250.000000	2.420	831670.992	ug/L	6273.773
	27 Al	500.000000	1.127	2412527.107	ug/L	15227.265
	39 K	500.000000	0.062	4341990.266	ug/L	707925.205
	44 Ca	250.000000	0.751	124196.177	ug/L	48369.900
>	45 Sc-1			471420.654	ug/L	467697.114
	51 V	200.178913	1.940	1629783.319	ug/L	-17188.401
	52 Cr	199.381890	0.467	1402034.580	ug/L	43700.177
	55 Mn	199.754468	0.364	2077150.447	ug/L	3939.583
	57 Fe	500.000000	0.858	109000.074	ug/L	6563.304
	59 Co	199.520871	0.418	1462228.622	ug/L	70.668
	60 Ni	199.793074	0.690	318889.071	ug/L	205.004
	65 Cu	199.859044	0.740	380636.203	ug/L	201.670
	66 Zn	200.116382	1.370	225190.942	ug/L	3569.482
>	72 Ge-1			585778.502	ug/L	592936.498
	75 As	199.786880	1.518	274289.601	ug/L	-502.888
	82 Se	200.037854	1.784	29600.796	ug/L	-70.642
	97 Mo	199.883909	1.950	365952.601	ug/L	69.001
	107 Ag	39.947934	1.973	318238.779	ug/L	109.002
	111 Cd	199.950189	3.629	353613.605	ug/L	35.667
>	115 In-1			1002210.942	ug/L	994304.053
	123 Sb	199.660491	1.675	919150.319	ug/L	235.401
	135 Ba	199.612233	0.739	328633.167	ug/L	183.670
>	165 Ho-1			1279479.385	ug/L	1276105.159
	205 Tl	199.720916	2.768	3660826.939	ug/L	1936.818
	208 Pb	199.419719	1.963	4951351.827	ug/L	3500.871
	238 U	199.506702	1.366	3180287.809	ug/L	35.667
>	45 Sc-2			471420.654	ug/L	467697.114
	53 Cr	205.518795	8.027	457912.764	ug/L	319041.768
	54 Fe	500.000000	3.199	311614.248	ug/L	42890.999
	61 Ni	199.963908	0.823	15503.897	ug/L	1069.051
	63 Cu	199.697522	1.484	747394.352	ug/L	321.674
	67 Zn	200.429300	0.993	61116.401	ug/L	21519.078
>	72 Ge			585778.502	ug/L	592936.498
	77 Se	201.030966	3.506	34758.565	ug/L	13366.987
	98 Mo	199.685882	2.706	940133.805	ug/L	95.062
	109 Ag	39.962769	2.886	319638.840	ug/L	120.002
>	115 In-2			1002210.942	ug/L	994304.053
	114 Cd	199.437311	2.162	786042.738	ug/L	53.748
	121 Sb	199.536394	2.204	1190121.701	ug/L	329.340
	137 Ba	199.400732	1.763	554014.277	ug/L	281.339
>	165 Ho-2			1279479.385	ug/L	1276105.159
	182 W	199.579616	1.726	1157683.223	ug/L	457.679
	183 W	199.866389	0.752	637459.482	ug/L	253.338
	194 Pt	199.867956	0.893	913916.366	ug/L	76.668
	195 Pt	199.741303	1.040	936407.916	ug/L	48.001
	203 Tl	199.631570	1.659	1538870.490	ug/L	780.029
	206 Pb	199.618565	1.726	1284120.446	ug/L	888.037
	207 Pb	199.619222	2.329	1073638.641	ug/L	745.027
>	45 Sc			471420.654	ug/L	467697.114
	47 Ti	199.849186	0.970	130596.688	ug/L	647.355
	86 Sr	199.956030	2.485	442030.206	ug/L	151.307
	88 Sr	200.080006	1.163	3797581.470	ug/L	1301.072
>	115 In			1002210.942	ug/L	994304.053
	118 Sn	199.739989	2.030	1029078.388	ug/L	357.341

[ 120 Sn 199.554794 1.929 1386401.885 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45		
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
Zn	66		
> Ge-1	72		
As	75		
Se	82		
Mo	97		
Ag	107		
Cd	111		
> In-1	115		
Sb	123		
Ba	135		
> Ho-1	165		
Tl	205		
Pb	208		
U	238		
> Sc-2	45		
Cr	53		
Fe	54		
Ni	61		
Cu	63		
Zn	67		
> Ge	72		
Se	77		
Mo	98		
Ag	109		
> In-2	115		
Cd	114		
Sb	121		
Ba	137		
> Ho-2	165		
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
Pb	207		
> Sc	45		
Ti	47		
Sr	86		
Sr	88		
> In	115		
Sn	118		
Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: Standard 4

Sample Date/Time: Thursday, May 24, 2007 12:56:20

Autosampler Position: 5

Dataset File: D:\Elandata\Dataset\052407m1\Standard 4.046

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.019539	31.765		6.000	ug/L	3.000	
10 B	3.139938	34.019		199.670	ug/L	90.668	
23 Na	1996.182652	1.337		9492786.847	ug/L	24909.622	
24 Mg	999.375639	0.920		3252291.163	ug/L	6273.773	
27 Al	1997.863056	1.669		9373021.649	ug/L	15227.265	
39 K	1994.911064	2.028		14531205.219	ug/L	707925.205	
44 Ca	985.525640	0.729		288337.284	ug/L	48369.900	
> 45 Sc-1				468364.218	ug/L	467697.114	
51 V	1.871883	27.693		-1878.349	ug/L	-17188.401	
52 Cr	-0.834821	5.424		38111.820	ug/L	43700.177	
55 Mn	0.075683	23.524		4724.162	ug/L	3939.583	
57 Fe	2000.703951	1.231		415898.440	ug/L	6563.304	
59 Co	0.060423	20.649		510.014	ug/L	70.668	
60 Ni	0.213250	4.620		543.349	ug/L	205.004	
65 Cu	0.050540	27.583		297.339	ug/L	201.670	
66 Zn	-0.098448	22.294		3466.122	ug/L	3569.482	
> 72 Ge-1				595627.339	ug/L	592936.498	
75 As	0.546984	94.113		268.850	ug/L	-502.888	
82 Se	0.009696	1077.101		-69.296	ug/L	-70.642	
97 Mo	0.183289	37.598		411.344	ug/L	69.001	
107 Ag	0.010981	13.296		200.337	ug/L	109.002	
111 Cd	0.037402	22.611		103.668	ug/L	35.667	
> 115 In-1				1017445.010	ug/L	994304.053	
123 Sb	0.078921	34.479		609.773	ug/L	235.401	
135 Ba	0.079472	33.854		318.340	ug/L	183.670	
> 165 Ho-1				1293223.753	ug/L	1276105.159	
205 Tl	0.691302	53.209		14782.890	ug/L	1936.818	
208 Pb	0.041630	29.708		4593.003	ug/L	3500.871	
238 U	0.026029	41.816		456.013	ug/L	35.667	
> 45 Sc-2				468364.218	ug/L	467697.114	
53 Cr	-58.046593	2.236		281219.721	ug/L	319041.768	
54 Fe	1997.213636	1.771		1084848.523	ug/L	42890.999	
61 Ni	-0.989504	55.537		999.712	ug/L	1069.051	
63 Cu	0.067886	25.730		574.017	ug/L	321.674	
67 Zn	0.534003	64.549		21653.616	ug/L	21519.078	
> 72 Ge				595627.339	ug/L	592936.498	
77 Se	-45.163455	4.278		8507.303	ug/L	13366.987	
98 Mo	0.183356	35.168		973.923	ug/L	95.062	
109 Ag	0.021781	31.445		299.673	ug/L	120.002	
> 115 In-2				1017445.010	ug/L	994304.053	
114 Cd	0.039129	32.605		211.622	ug/L	53.748	
121 Sb	0.072000	31.600		773.029	ug/L	329.340	
137 Ba	0.080915	17.032		512.348	ug/L	281.339	
> 165 Ho-2				1293223.753	ug/L	1276105.159	
182 W	0.418067	30.784		2916.340	ug/L	457.679	
183 W	0.412908	33.039		1588.776	ug/L	253.338	
194 Pt	0.017354	42.859		158.002	ug/L	76.668	
195 Pt	0.022698	36.637		156.336	ug/L	48.001	
203 Tl	0.716760	55.013		6380.712	ug/L	780.029	
206 Pb	0.042340	30.479		1175.394	ug/L	888.037	
207 Pb	0.042706	38.310		987.378	ug/L	745.027	
> 45 Sc				468364.218	ug/L	467697.114	
47 Ti	0.171006	46.555		758.361	ug/L	647.355	
86 Sr	0.113592	22.483		401.311	ug/L	151.307	
88 Sr	0.128105	10.511		3715.855	ug/L	1301.072	
> 115 In				1017445.010	ug/L	994304.053	
118 Sn	0.072976	27.975		747.361	ug/L	357.341	



[ 120 Sn 0.076770 22.556 1041.456 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
[> Sc-1	45		
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
Zn	66		
[> Ge-1	72		
As	75		
Se	82		
Mo	97		
Ag	107		
Cd	111		
[> In-1	115		
Sb	123		
Ba	135		
[> Ho-1	165		
Tl	205		
Pb	208		
U	238		
[> Sc-2	45		
Cr	53		
Fe	54		
Ni	61		
Cu	63		
Zn	67		
[> Ge	72		
Se	77		
Mo	98		
Ag	109		
[> In-2	115		
Cd	114		
Sb	121		
Ba	137		
[> Ho-2	165		
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
Pb	207		
[> Sc	45		
Ti	47		
Sr	86		
Sr	88		
[> In	115		
Sn	118		
Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: Standard 5

Sample Date/Time: Thursday, May 24, 2007 13:01:59

Autosampler Position: 6

Dataset File: D:\Elandata\Dataset\052407m1\Standard 5.047

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.011936	53.185		5.000	ug/L	3.000	
10 B	0.836076	31.312		124.002	ug/L	90.668	
23 Na	9996.747341	1.631		48717761.202	ug/L	24909.622	
24 Mg	4996.789165	1.229		16552053.649	ug/L	6273.773	
27 Al	9991.742071	1.054		47521958.457	ug/L	15227.265	
39 K	9995.752956	0.793		71694115.312	ug/L	707925.205	
44 Ca	4989.171966	1.089		1246047.983	ug/L	48369.900	
> 45 Sc-1				484725.343	ug/L	467697.114	
51 V	0.991052	37.608		-9435.163	ug/L	-17188.401	
52 Cr	-0.918808	27.378		38850.535	ug/L	43700.177	
55 Mn	0.342678	2.791		7739.507	ug/L	3939.583	
57 Fe	9956.815284	0.621		1920594.982	ug/L	6563.304	
59 Co	0.218697	1.736		1721.121	ug/L	70.668	
60 Ni	0.386811	7.522		846.700	ug/L	205.004	
65 Cu	0.090747	6.599		386.676	ug/L	201.670	
66 Zn	0.890704	4.738		4713.825	ug/L	3569.482	
> 72 Ge-1				597028.070	ug/L	592936.498	
75 As	0.058934	1121.667		-430.525	ug/L	-502.888	
82 Se	0.055768	245.925		-62.760	ug/L	-70.642	
97 Mo	0.083843	14.912		220.337	ug/L	69.001	
107 Ag	0.014756	13.381		224.671	ug/L	109.002	
111 Cd	0.018783	17.900		68.334	ug/L	35.667	
> 115 In-1				990153.443	ug/L	994304.053	
123 Sb	0.065907	6.431		534.171	ug/L	235.401	
135 Ba	0.126836	5.143		399.676	ug/L	183.670	
> 165 Ho-1				1301337.497	ug/L	1276105.159	
205 Tl	0.162585	33.173		5016.960	ug/L	1936.818	
208 Pb	0.057445	6.159		5019.059	ug/L	3500.871	
238 U	0.005226	20.341		121.335	ug/L	35.667	
> 45 Sc-2				484725.343	ug/L	467697.114	
53 Cr	-40.627686	8.525		302928.272	ug/L	319041.768	
54 Fe	9967.420433	0.215		5043179.895	ug/L	42890.999	
61 Ni	0.579191	134.924		1150.725	ug/L	1069.051	
63 Cu	0.165873	8.694		971.376	ug/L	321.674	
67 Zn	4.533289	29.767		23220.425	ug/L	21519.078	
> 72 Ge				597028.070	ug/L	592936.498	
77 Se	-34.155255	5.915		9727.737	ug/L	13366.987	
98 Mo	0.085373	8.472		491.928	ug/L	95.062	
109 Ag	0.041447	116.876		448.015	ug/L	120.002	
> 115 In-2				990153.443	ug/L	994304.053	
114 Cd	0.023317	32.682		144.370	ug/L	53.748	
121 Sb	0.060469	8.188		684.357	ug/L	329.340	
137 Ba	0.138366	5.323		678.023	ug/L	281.339	
> 165 Ho-2				1301337.497	ug/L	1276105.159	
182 W	0.136466	17.792		1273.070	ug/L	457.679	
183 W	0.123866	14.357		660.689	ug/L	253.338	
194 Pt	-0.000181	1388.520		77.334	ug/L	76.668	
195 Pt	0.002467	101.246		60.667	ug/L	48.001	
203 Tl	0.164020	29.316		2085.177	ug/L	780.029	
206 Pb	0.056378	12.311		1273.736	ug/L	888.037	
207 Pb	0.066301	5.702		1122.389	ug/L	745.027	
> 45 Sc				484725.343	ug/L	467697.114	
47 Tl	0.896428	9.619		1270.403	ug/L	647.355	
86 Sr	0.534566	8.095		1372.113	ug/L	151.307	
88 Sr	0.537348	2.286		11832.686	ug/L	1301.072	
> 115 In				990153.443	ug/L	994304.053	
118 Sn	0.051893	8.433		620.020	ug/L	357.341	

[ 120 Sn 0.052334 5.250 845.784 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
[> Sc-1	45		
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
Zn	66		
[> Ge-1	72		
As	75		
Se	82		
Mo	97		
Ag	107		
Cd	111		
[> In-1	115		
Sb	123		
Ba	135		
[> Ho-1	165		
Tl	205		
Pb	208		
U	238		
[> Sc-2	45		
Cr	53		
Fe	54		
Ni	61		
Cu	63		
Zn	67		
[> Ge	72		
Se	77		
Mo	98		
Ag	109		
[> In-2	115		
Cd	114		
Sb	121		
Ba	137		
[> Ho-2	165		
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
Pb	207		
[> Sc	45		
Ti	47		
Sr	86		
Sr	88		
[> In	115		
Sn	118		
Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message  
 Cr 53 Q

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 1

Sample Date/Time: Thursday, May 24, 2007 13:10:38

Autosampler Position: 7

Dataset File: D:\Elandata\Dataset\052407m1\QC Std 1.048

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	192.509656		0.443	29764.273		ug/L	3.000
10 B	186.584752		1.438	6639.943		ug/L	90.668
23 Na	1924.663130		3.690	9171448.729		ug/L	24909.622
24 Mg	984.843074		2.134	3188214.505		ug/L	6273.773
27 Al	1953.808993		2.876	9078949.150		ug/L	15227.265
39 K	1953.506117		1.087	14247153.213		ug/L	707925.205
44 Ca	1063.344199		0.826	297631.157		ug/L	48389.900
> 45 Sc-1				472988.634		ug/L	467697.114
51 V	189.132617		2.427	1543769.996		ug/L	-17188.401
52 Cr	192.527130		1.830	1359728.052		ug/L	43700.177
55 Mn	184.877374		1.708	1928928.253		ug/L	3939.583
57 Fe	2105.338710		0.697	401487.083		ug/L	6563.304
59 Co	190.253487		1.438	1398902.157		ug/L	70.668
60 Ni	188.545163		1.614	301937.920		ug/L	205.004
65 Cu	190.367823		0.968	363794.346		ug/L	201.670
66 Zn	188.861414		1.396	213449.435		ug/L	3569.482
> 72 Ge-1				581127.683		ug/L	592936.498
75 As	197.101481		1.328	268462.431		ug/L	-502.888
82 Se	191.846785		1.834	28160.765		ug/L	-70.642
97 Mo	192.601465		0.657	349516.813		ug/L	68.001
107 Ag	48.904934		1.481	386125.785		ug/L	109.002
111 Cd	191.708056		0.642	336115.121		ug/L	35.667
> 115 In-1				993169.701		ug/L	994304.053
123 Sb	187.791508		0.553	856911.434		ug/L	235.401
135 Ba	184.772186		0.537	304516.024		ug/L	183.670
> 165 Ho-1				1280706.472		ug/L	1276105.159
205 Tl	182.044618		2.575	3341185.897		ug/L	1936.818
208 Pb	188.888837		1.273	4694906.475		ug/L	3500.871
238 U	194.031987		1.601	3096149.338		ug/L	35.667
> 45 Sc-2				472988.634		ug/L	467697.114
53 Cr	149.767809		4.379	422373.401		ug/L	319041.768
54 Fe	2062.349728		0.935	1052577.720		ug/L	42890.999
61 Ni	189.429580		2.539	14791.803		ug/L	1069.051
63 Cu	190.929731		1.134	717024.845		ug/L	321.674
67 Zn	178.599466		1.984	57010.773		ug/L	21519.078
> 72 Ge				581127.683		ug/L	592936.498
77 Se	175.354159		3.770	31748.231		ug/L	13366.987
98 Mo	191.688833		2.023	894544.186		ug/L	95.062
109 Ag	47.610444		0.434	377483.221		ug/L	120.002
> 115 In-2				993169.701		ug/L	994304.053
114 Cd	192.842781		0.486	753394.612		ug/L	53.748
121 Sb	192.483887		0.255	1138027.573		ug/L	329.340
137 Ba	187.516737		1.104	521572.299		ug/L	281.339
> 165 Ho-2				1280706.472		ug/L	1276105.159
182 W	188.471149		1.045	1094467.869		ug/L	457.679
183 W	188.091179		1.175	600523.092		ug/L	253.338
194 Pt	188.070937		1.764	860811.359		ug/L	76.668
195 Pt	190.583894		1.337	894358.013		ug/L	48.001
203 Tl	180.987587		1.264	1396868.223		ug/L	780.029
206 Pb	190.848168		0.558	1229069.746		ug/L	888.037
207 Pb	187.651274		2.775	1010302.460		ug/L	745.027
> 45 Sc				472988.634		ug/L	467697.114
47 Ti	195.162122		0.711	127969.978		ug/L	647.355
86 Sr	189.910225		1.803	421276.003		ug/L	151.307
88 Sr	189.889859		2.735	3815759.041		ug/L	1301.072
> 115 In				993169.701		ug/L	994304.053
118 Sn	190.839592		1.178	974534.752		ug/L	357.341

[ 120 Sn 190.355213 0.580 1310896.712 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		96.255
[ B	10		93.282
[ Na	23		96.233
[ Mg	24		98.484
[ Al	27		97.890
[ K	39		97.875
[ Ca	44		106.334
[> Sc-1	45	101.131	
[ V	51		94.566
[ Cr	52		96.264
[ Mn	55		92.439
[ Fe	57		105.267
[ Co	58		95.127
[ Ni	60		94.273
[ Cu	65		95.184
[ Zn	66		94.431
[> Ge-1	72	98.008	
[ As	76		98.551
[ Se	82		95.823
[ Mo	97		96.301
[ Ag	107		97.810
[ Cd	111		95.854
[> In-1	115	99.886	
[ Sb	123		93.896
[ Ba	135		92.386
[> Ho-1	165	100.381	
[ Tl	205		91.022
[ Pb	208		94.444
[ U	238		97.016
[> Sc-2	45	101.131	
[ Cr	53		74.884
[ Fe	54		103.117
[ Ni	61		94.715
[ Cu	63		95.465
[ Zn	67		89.300
[> Ga	72	98.008	
[ Se	77		87.677
[ Mo	98		95.844
[ Ag	109		95.221
[> In-2	115	99.886	
[ Cd	114		96.421
[ Sb	121		96.242
[ Ba	137		93.758
[> Ho-2	165	100.381	
[ W	182		94.236
[ W	183		94.046
[ Pt	194		94.035
[ Pt	195		95.292
[ Tl	203		90.494
[ Pb	206		95.424
[ Pb	207		93.828
[> Sc	45	101.131	
[ Ti	47		97.581
[ Sr	86		94.955
[ Sr	88		94.945
[> In	115	99.886	
[ Sn	118		95.420
[ Sn	120		95.178

**QC Out Of Limits**

Analyte	Mass	Out of Limits Message
Cr	53	Q
Zn	67	Q
Se	77	Q

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 2

Sample Date/Time: Thursday, May 24, 2007 13:17:15

Autosampler Position: 1

Dataset File: D:\Elandata\Dataset\052407m1\QC Std 2.049

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.016423	20.861		5.667		ug/L	3.000
10 B	1.518217	37.780		147.336		ug/L	90.668
23 Na	-0.403279	42.629		23651.142		ug/L	24909.622
24 Mg	-0.017704	61.646		6390.159		ug/L	6273.773
27 Al	0.017906	299.861		15734.485		ug/L	15227.265
39 K	-2.891301	58.528		707242.946		ug/L	707925.205
44 Ca	-12.856998	101.984		46651.716		ug/L	48369.900
> 45 Sc-1				480720.393		ug/L	467697.114
51 V	1.620061	9.292		-4078.118		ug/L	-17188.401
52 Cr	-1.667054	4.224		33336.519		ug/L	43700.177
55 Mn	-0.054307	3.241		3474.457		ug/L	3939.583
57 Fe	-2.156338	25.307		6335.206		ug/L	6563.304
59 Co	0.007679	24.837		130.002		ug/L	70.668
60 Ni	0.009433	83.896		226.004		ug/L	205.004
65 Cu	0.014075	113.115		234.671		ug/L	201.670
66 Zn	-0.172478	32.675		3473.790		ug/L	3569.482
> 72 Ge-1				597157.865		ug/L	592936.498
75 As	0.758801	82.859		557.859		ug/L	-502.888
82 Se	0.166637	238.461		-45.746		ug/L	-70.642
97 Mo	0.101833	27.585		259.338		ug/L	69.001
107 Ag	0.004971	11.640		151.336		ug/L	109.002
111 Cd	0.019679	37.617		71.668		ug/L	35.667
> 115 In-1				1014714.852		ug/L	994304.053
123 Sb	0.037222	16.168		413.794		ug/L	235.401
135 Ba	0.008826	88.215		203.337		ug/L	183.670
> 165 Ho-1				1309612.109		ug/L	1276105.159
205 Tl	0.319043	37.643		7965.414		ug/L	1936.818
208 Pb	0.010066	35.859		3848.241		ug/L	3500.871
238 U	0.010042	29.220		200.337		ug/L	35.667
> 45 Sc-2				480720.393		ug/L	467697.114
53 Cr	-90.876042	6.811		266403.590		ug/L	319041.768
54 Fe	-5.018200	71.462		41593.449		ug/L	42890.999
61 Ni	-0.778739	54.399		1041.382		ug/L	1069.051
63 Cu	0.018727	42.892		402.010		ug/L	321.674
67 Zn	-6.594434	8.072		20794.999		ug/L	21519.078
> 72 Ge				597157.865		ug/L	592936.498
77 Se	-55.199784	3.864		7429.365		ug/L	13366.987
98 Mo	0.099977	31.793		574.042		ug/L	95.062
109 Ag	0.013110	11.351		228.671		ug/L	120.002
> 115 In-2				1014714.852		ug/L	994304.053
114 Cd	0.022663	32.467		145.411		ug/L	53.748
121 Sb	0.035340	27.872		549.683		ug/L	329.340
137 Ba	0.007832	56.006		311.006		ug/L	281.339
> 165 Ho-2				1309612.109		ug/L	1276105.159
182 W	0.239891	22.580		1892.813		ug/L	457.679
183 W	0.233476	28.139		1021.381		ug/L	253.338
194 Pt	0.008268	45.425		117.335		ug/L	76.668
195 Pt	0.007389	55.731		84.668		ug/L	48.001
203 Tl	0.320796	39.894		3328.111		ug/L	780.029
206 Pb	0.014596	19.388		1007.379		ug/L	888.037
207 Pb	0.009307	96.809		815.698		ug/L	745.027
> 45 Sc				480720.393		ug/L	467697.114
47 Ti	-0.027309	212.344		647.355		ug/L	647.355
86 Sr	0.016366	116.998		192.519		ug/L	151.307
88 Sr	0.005257	59.483		1439.087		ug/L	1301.072
> 115 In				1014714.852		ug/L	994304.053
118 Sn	0.036742	26.057		556.350		ug/L	357.341

120 Sn 0.034691 7.583 742.722 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		1.842
B	10		151.822
Na	23		-0.403
Mg	24		-0.018
Al	27		0.018
K	39		-2.891
Ca	44		-12.857
> Sc-1	45	102.785	
V	51		162.006
Cr	52		-168.705
Mn	55		-5.431
Fe	57		-2.156
Co	58		0.788
Ni	60		0.943
Cu	65		1.407
Zn	66		-17.248
[> Ge-1	72	100.712	
As	75		75.880
Se	82		16.864
Mo	97		10.183
Ag	107		0.497
Cd	111		1.988
> In-1	115	102.053	
Sb	123		3.722
Ba	135		0.883
> Ho-1	165	102.626	
Tl	205		31.904
Pb	208		1.007
U	238		1.004
[> Sc-2	45	102.785	
Cr	53		-9087.804
Fe	54		-5.018
Ni	61		-77.874
Cu	63		1.873
Zn	67		-659.443
> Ge	72	100.712	
Se	77		-5519.978
Mo	98		9.896
Ag	109		1.311
> In-2	115	102.053	
Cd	114		2.286
Sb	121		3.534
Ba	137		0.783
> Ho-2	165	102.626	
W	182		23.988
W	183		23.348
Pt	194		0.827
Pt	195		0.739
Tl	203		32.080
Pb	206		1.460
Pb	207		0.931
[> Sc	45	102.785	
Ti	47		-2.731
Sr	86		1.837
Sr	88		0.526
[> In	115	102.053	
Sn	118		3.674
Sn	120		3.469

**QC Out Of Limits**

Analyte	Mass	Out of Limits Message
B	10	Q
V	51	Q
Cr	52	Q
Cr	53	Q
Zn	67	Q
Se	77	Q

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 3

Sample Date/Time: Thursday, May 24, 2007 13:23:51

Autosampler Position: 160

Dataset File: D:\Elandata\Dataset\052407m1\QC Std 3.050

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
9 Be	4.664652	1.675	744.027	ug/L	3.000
10 B	46.746574	2.078	1779.795	ug/L	90.668
23 Na	4840.195461	1.376	23663424.191	ug/L	24909.622
24 Mg	4877.219659	2.431	16197544.080	ug/L	6273.773
27 Al	202.273134	2.288	980016.507	ug/L	15227.265
39 K	4978.337005	2.496	36167958.885	ug/L	707925.205
44 Ca	4907.374228	0.657	1229595.872	ug/L	48369.900
> 45 Sc-1			485976.773	ug/L	467697.114
51 V	49.997581	0.795	406191.869	ug/L	-17188.401
52 Cr	8.325729	3.838	103850.845	ug/L	43700.177
55 Mn	14.984854	1.040	164404.230	ug/L	3939.583
57 Fe	91.469346	2.632	24444.910	ug/L	6563.304
59 Co	50.115351	1.171	378669.396	ug/L	70.668
60 Ni	38.358647	2.191	63281.161	ug/L	205.004
65 Cu	23.898141	1.677	47099.990	ug/L	201.670
66 Zn	18.957794	2.408	25350.733	ug/L	3569.482
> 72 Ge-1			601150.644	ug/L	592936.498
75 As	10.706892	8.207	14602.802	ug/L	-502.888
82 Se	5.286034	3.962	733.075	ug/L	-70.642
97 Mo	40.189166	1.346	74637.234	ug/L	69.001
107 Ag	9.778779	0.657	79046.891	ug/L	109.002
111 Cd	4.910374	1.084	8839.155	ug/L	35.667
> 115 In-1			1015624.213	ug/L	994304.053
123 Sb	54.651634	2.703	255201.795	ug/L	235.401
135 Ba	191.280019	0.532	318792.962	ug/L	183.670
> 165 Ho-1			1295131.464	ug/L	1276105.159
205 Tl	9.668153	3.970	181274.713	ug/L	1936.818
208 Pb	3.046564	0.640	80076.271	ug/L	3500.871
238 U	20.679697	0.508	333750.400	ug/L	35.667
> 45 Sc-2			485976.773	ug/L	467697.114
53 Cr	-108.135659	5.236	257498.976	ug/L	319041.768
54 Fe	116.122385	7.680	102930.874	ug/L	42890.999
61 Ni	37.713495	4.958	3914.909	ug/L	1069.051
63 Cu	23.863059	1.376	92362.877	ug/L	321.674
67 Zn	7.163194	36.694	23810.401	ug/L	21519.078
> 72 Ge			601150.644	ug/L	592936.498
77 Se	-51.832777	1.408	7849.938	ug/L	13366.987
98 Mo	40.378239	0.429	192776.988	ug/L	95.062
109 Ag	9.337665	1.110	75805.703	ug/L	120.002
> 115 In-2			1015624.213	ug/L	994304.053
114 Cd	4.940417	3.215	19792.484	ug/L	53.748
121 Sb	55.635236	2.672	336627.268	ug/L	329.340
137 Ba	193.560471	0.535	544472.933	ug/L	281.339
> 165 Ho-2			1295131.464	ug/L	1276105.159
182 W	21.903131	1.396	129036.140	ug/L	457.679
183 W	21.445618	1.519	69468.539	ug/L	253.338
194 Pt	20.809632	0.927	96394.762	ug/L	76.668
195 Pt	21.147781	0.788	100407.629	ug/L	48.001
203 Tl	9.555880	3.044	75325.254	ug/L	780.029
206 Pb	3.088127	1.563	20997.965	ug/L	888.037
207 Pb	3.014586	1.391	17159.138	ug/L	745.027
> 45 Sc			485976.773	ug/L	467697.114
47 Ti	49.368732	0.746	33762.191	ug/L	647.355
86 Sr	48.039022	2.377	109598.773	ug/L	151.307
88 Sr	47.988716	0.876	939949.065	ug/L	1301.072
> 115 In			1015624.213	ug/L	994304.053
118 Sn	86.851424	1.694	453735.060	ug/L	357.341



[ 120 Sn 88.026646 1.623 620137.181 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		93.293
[ B	10		93.493
[ Na	23		96.804
[ Mg	24		97.544
[ Al	27		101.137
[ K	39		99.567
[ Ca	44		98.147
[> Sc-1	45	103.908	
[ V	51		99.985
[ Cr	52		83.257
[ Mn	55		96.899
[ Fe	57		91.459
[ Co	59		100.231
[ Ni	60		95.897
[ Cu	65		95.593
[ Zn	66		94.789
[> Ge-1	72	101.385	
[ As	75		107.067
[ Se	82		105.721
[ Mo	97		100.473
[ Ag	107		97.788
[ Cd	111		96.207
[> In-1	115	102.144	
[ Sb	123		91.086
[ Ba	135		96.640
[> Ho-1	165	101.491	
[ Tl	205		96.682
[ Pb	208		101.552
[ U	238		103.398
[> Sc-2	45	103.908	
[ Cr	53		-1081.357
[ Fe	54		116.122
[ Ni	61		94.284
[ Cu	63		95.452
[ Zn	67		35.816
[> Ge	72	101.385	
[ Se	77		-1036.656
[ Mo	98		100.846
[ Ag	109		93.377
[> In-2	115	102.144	
[ Cd	114		96.808
[ Sb	121		92.725
[ Ba	137		96.780
[> Ho-2	165	101.491	
[ W	182		109.516
[ W	183		107.228
[ Pt	194		104.048
[ Pt	195		105.739
[ Tl	203		95.559
[ Pb	206		102.938
[ Pb	207		100.486
[> Sc	45	103.908	
[ Ti	47		98.737
[ Sr	86		96.078
[ Sr	88		95.977
[> In	115	102.144	
[ Sn	118		86.851
[ Sn	120		88.027

**QC Out Of Limits**

Analyte	Mass	Out of Limits	Message
Cr	53	Q	
Zn	67	Q	
Se	77	Q	

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 4

Sample Date/Time: Thursday, May 24, 2007 13:30:27

Autosampler Position: 158

Dataset File: D:\Elandata\Dataset\052407m1\QC Std 4.051

## Sample Result Summary

Mass	Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9	Be	-0.002320	157.237				2.667	ug/L	3.000
10	B	0.486862	52.004				108.335	ug/L	90.668
23	Na	0.535511	34.108				27622.310	ug/L	24909.622
24	Mg	49638.404275	2.548			159706923.917		ug/L	6273.773
27	Al	50160.817146	2.312			231742001.142		ug/L	15227.265
39	K	-6.084229	18.944			670932.622		ug/L	707925.205
44	Ca	49406.455291	0.806			11556435.374		ug/L	48369.900
>	45	Sc-1				471007.971		ug/L	467697.114
	51	V	1.142699	20.050		-7909.318		ug/L	-17188.401
	52	Cr	-2.019013	3.126		30269.675		ug/L	43700.177
	55	Mn	0.584086	10.932		10025.962		ug/L	3939.583
	57	Fe	20440.124648	0.456		3824078.008		ug/L	6563.304
	59	Co	0.114581	3.408		910.038		ug/L	70.668
	60	Ni	1.068505	3.437		1909.147		ug/L	205.004
	65	Cu	0.098952	6.156		391.343		ug/L	201.670
	66	Zn	-0.045426	146.051		3544.809		ug/L	3569.482
>	72	Ge-1				577703.612		ug/L	592936.498
	75	As	0.407010	92.491		64.118		ug/L	-502.888
	82	Se	-0.314165	107.899		-114.857		ug/L	-70.642
	97	Mo	0.046264	12.177		149.669		ug/L	69.001
	107	Ag	0.018369	9.995		248.671		ug/L	109.002
	111	Cd	0.005687	108.918		44.667		ug/L	35.667
>	115	In-1				972619.883		ug/L	994304.053
	123	Sb	0.256673	28.280		1376.564		ug/L	235.401
	135	Ba	0.080149	16.903		317.340		ug/L	183.670
>	165	Ho-1				1284516.556		ug/L	1276105.159
	205	Tl	0.110849	43.571		3990.616		ug/L	1936.818
	208	Pb	0.036534	13.044		4434.312		ug/L	3500.871
	238	U	0.001525	36.332		60.334		ug/L	35.667
>	45	Sc-2				471007.971		ug/L	467697.114
	53	Cr	-86.980722	5.588		263603.134		ug/L	319041.768
	54	Fe	19765.173047	1.199		9674672.925		ug/L	42890.999
	61	Ni	10.862504	13.622		1859.473		ug/L	1069.051
	63	Cu	0.029351	17.712		433.678		ug/L	321.674
	67	Zn	-8.059940	11.799		20086.646		ug/L	21519.078
>	72	Ge				577703.612		ug/L	592936.498
	77	Se	-30.794895	3.052		9767.188		ug/L	13366.987
	98	Mo	0.042047	16.241		285.071		ug/L	95.062
	109	Ag	0.010734	14.815		200.670		ug/L	120.002
>	115	In-2				972619.883		ug/L	994304.053
	114	Cd	0.009048	42.888		87.141		ug/L	53.748
	121	Sb	0.257693	31.229		1813.138		ug/L	329.340
	137	Ba	0.084937	6.661		520.015		ug/L	281.339
>	165	Ho-2				1284516.556		ug/L	1276105.159
	182	W	0.057515	27.641		795.697		ug/L	457.679
	183	W	0.055471	30.112		432.678		ug/L	253.338
	194	Pt	0.000544	90.495		79.668		ug/L	76.668
	195	Pt	0.000854	42.183		52.334		ug/L	48.001
	203	Tl	0.109505	42.732		1633.113		ug/L	780.029
	206	Pb	0.038906	20.460		1145.057		ug/L	888.037
	207	Pb	0.040896	17.294		970.709		ug/L	745.027
>	45	Sc				471007.971		ug/L	467697.114
	47	Ti	0.206323	10.982		786.029		ug/L	647.355
	86	Sr	0.763710	7.874		1839.172		ug/L	151.307
	88	Sr	0.581648	0.790		12337.115		ug/L	1301.072
>	115	In				972619.883		ug/L	994304.053
	118	Sn	0.033426	13.801		516.681		ug/L	357.341

120 Sn 0.031078 25.577 687.318 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		-0.232
[ B	10		48.886
[ Na	23		0.536
[ Mg	24		99.277
[ Al	27		100.322
[ K	39		-6.084
[ Ca	44		98.813
> Sc-1	45	100.708	
[ V	51		114.270
[ Cr	52		-201.901
[ Mn	55		58.409
[ Fe	57		102.201
[ Co	59		11.458
[ Ni	60		108.851
[ Cu	65		9.895
[ Zn	66		-4.543
> Ge-1	72	97.431	
[ As	75		40.701
[ Se	82		-31.417
[ Mo	97		4.628
[ Ag	107		1.837
[ Cd	111		0.569
> In-1	115	97.819	
[ Sb	123		25.667
[ Ba	135		8.015
> Ho-1	165	100.659	
[ Tl	205		11.085
[ Pb	208		3.653
[ U	238		0.153
> Sc-2	45	100.708	
[ Cr	53		-8698.072
[ Fe	54		98.826
[ Ni	61		1086.250
[ Cu	63		2.935
[ Zn	67		-805.994
> Ge	72	97.431	
[ Se	77		-3079.489
[ Mo	98		4.205
[ Ag	109		1.073
> In-2	115	97.819	
[ Cd	114		0.905
[ Sb	121		25.769
[ Ba	137		8.494
> Ho-2	165	100.659	
[ W	182		5.752
[ W	183		5.547
[ Pt	194		0.054
[ Pt	195		6.085
[ Tl	203		10.951
[ Pb	206		3.891
[ Pb	207		4.090
> Sc	45	100.708	
[ Ti	47		20.632
[ Sr	86		76.371
[ Sr	88		58.165
> In	115	97.819	
[ Sn	118		3.343
[ Sn	120		3.106

**QC Out Of Limits**

Analyte	Mass	Out of Limits Message
V	51	Q
Cr	52	Q
Ni	60	Q
Cr	53	Q
Ni	61	Q
Zn	67	Q
Se	77	Q

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 5

Sample Date/Time: Thursday, May 24, 2007 13:37:03

Autosampler Position: 159

Dataset File: D:\Elandata\Dataset\052407m1\QC Std 5.052

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	48.117722	2.380	7601.765	ug/L	3.000		
10 B	98.763667	1.723	3634.832	ug/L	90.668		
23 Na	1902.308297	1.734	9262207.523	ug/L	24909.622		
24 Mg	48749.517893	2.122	160920349.653	ug/L	6273.773		
27 Al	49282.431944	3.317	233589035.560	ug/L	15227.265		
39 K	1973.414924	1.688	14695599.493	ug/L	707925.205		
44 Ca	49279.828589	2.187	11825673.316	ug/L	48369.900		
> 45 Sc-1			483178.441	ug/L	467697.114		
51 V	46.656127	1.238	375693.202	ug/L	-17188.401		
52 Cr	46.152220	0.451	367327.975	ug/L	43700.177		
55 Mn	47.961115	0.642	514241.101	ug/L	3939.583		
57 Fe	20229.599495	0.976	3882699.902	ug/L	6563.304		
59 Co	46.290138	1.016	347765.599	ug/L	70.668		
60 Ni	89.279711	0.223	146177.531	ug/L	205.004		
65 Cu	43.485428	0.412	85049.276	ug/L	201.670		
66 Zn	87.612872	0.273	103132.636	ug/L	3569.482		
> 72 Ge-1			589808.636	ug/L	592936.498		
75 As	97.103585	3.183	133975.388	ug/L	-502.888		
82 Se	92.455836	2.943	13737.120	ug/L	-70.642		
97 Mo	99.063832	1.245	178277.309	ug/L	69.001		
107 Ag	88.004985	1.917	688822.924	ug/L	109.002		
111 Cd	93.283802	1.295	162175.283	ug/L	35.667		
> 115 In-1			984809.538	ug/L	994304.053		
123 Sb	95.516436	1.556	432225.184	ug/L	235.401		
135 Ba	46.399486	1.661	77827.896	ug/L	183.670		
> 165 Ho-1			1301111.558	ug/L	1276105.159		
205 Tl	87.758523	1.866	1637216.263	ug/L	1936.818		
208 Pb	92.590608	0.935	2340025.407	ug/L	3500.871		
238 U	94.921874	1.084	1538859.680	ug/L	35.667		
> 45 Sc-2			483178.441	ug/L	467697.114		
53 Cr	-36.322985	9.519	304888.594	ug/L	319041.768		
54 Fe	19460.471798	2.234	9773120.881	ug/L	42890.999		
61 Ni	97.594411	3.342	8321.174	ug/L	1069.051		
63 Cu	43.769480	0.993	168170.089	ug/L	321.674		
67 Zn	70.929539	2.259	36532.687	ug/L	21519.078		
> 72 Ge			589808.636	ug/L	592936.498		
77 Se	71.596790	4.926	21024.650	ug/L	13366.987		
98 Mo	98.834777	0.733	457383.233	ug/L	95.062		
109 Ag	82.814519	2.083	650848.642	ug/L	120.002		
> 115 In-2			984809.538	ug/L	994304.053		
114 Cd	94.965659	1.527	367862.973	ug/L	53.748		
121 Sb	96.910772	1.586	568220.015	ug/L	329.340		
137 Ba	47.120148	0.109	133373.369	ug/L	281.339		
> 165 Ho-2			1301111.558	ug/L	1276105.159		
182 W	47.274657	1.743	279262.882	ug/L	457.679		
183 W	46.922714	1.160	152399.208	ug/L	253.338		
194 Pt	48.259537	1.596	224485.968	ug/L	76.668		
195 Pt	47.964484	0.586	228722.059	ug/L	48.001		
203 Tl	88.626470	1.929	696292.112	ug/L	780.029		
206 Pb	92.567252	1.001	606114.757	ug/L	888.037		
207 Pb	93.982514	1.508	514514.885	ug/L	745.027		
> 45 Sc			483178.441	ug/L	467697.114		
47 Ti	47.288912	0.889	32182.201	ug/L	647.355		
86 Sr	93.538976	1.526	212051.400	ug/L	151.307		
88 Sr	90.860021	1.797	1764333.064	ug/L	1301.072		
> 115 In			984809.538	ug/L	994304.053		
118 Sn	94.854668	0.210	480486.945	ug/L	357.341		

[ 120 Sn 96.551913 1.889 659428.138 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		96.235
B	10		98.764
Na	23		95.115
Mg	24		97.499
Al	27		98.566
K	39		98.871
Ca	44		98.560
> Sc-1	45	103.310	
V	51		93.312
Cr	52		92.304
Mn	55		95.922
Fe	57		101.148
Co	59		92.580
Ni	60		89.280
Cu	65		88.971
Zn	66		87.813
> Ge-1	72	99.472	
As	75		97.104
Se	82		92.456
Mo	97		99.064
Ag	107		88.005
Cd	111		93.284
> In-1	115	99.045	
Sb	123		95.516
Ba	135		92.789
> Ho-1	165	101.960	
Tl	205		87.759
Pb	208		92.591
U	238		94.922
> Sc-2	45	103.310	
Cr	53		-72.648
Fe	54		97.302
Ni	51		97.594
Cu	63		87.539
Zn	67		70.930
> Ge	72	99.472	
Se	77		71.597
Mo	98		98.835
Ag	109		82.815
> In-2	115	99.045	
Cd	114		94.966
Sb	121		96.911
Ba	137		94.240
> Ho-2	165	101.960	
W	182		94.549
W	183		93.845
Pt	194		96.519
Pt	195		95.929
Tl	203		88.826
Pb	206		92.587
Pb	207		93.983
> Sc	45	103.310	
Tl	47		94.578
Sr	86		93.539
Sr	88		99.680
> In	115	99.045	
Sn	118		94.855
Sn	120		96.552

**QC Out Of Limits**

Analyte	Mass	Out of Limits	Message
Cr	53	Q	
Zn	67	Q	
Se	77	Q	

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6

Sample Date/Time: Thursday, May 24, 2007 13:45:41

Autosampler Position: 7

Dataset File: D:\Elandata\Dataset\052407m1\QC Std 6.053

## Sample Result Summary

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[	9 Be	183.539889	1.182	29173.052	ug/L	3.000
	10 B	179.433868	2.617	6567.575	ug/L	90.668
	23 Na	1866.276213	3.222	9143428.065	ug/L	24909.622
	24 Mg	961.390221	3.636	3199247.987	ug/L	6273.773
	27 Al	1910.307196	3.114	9125658.998	ug/L	15227.265
	39 K	1926.732326	2.157	14454581.370	ug/L	707925.205
	44 Ca	1034.864082	2.110	299103.480	ug/L	48369.900
>	45 Sc-1			486260.038	ug/L	467697.114
	51 V	188.668337	1.834	1583102.346	ug/L	-17188.401
	52 Cr	189.596264	1.462	1377277.035	ug/L	43700.177
	55 Mn	185.583153	1.013	1990634.892	ug/L	3939.583
	57 Fe	2085.842738	0.602	409005.034	ug/L	6563.304
	59 Co	189.130661	0.561	1429708.025	ug/L	70.668
	60 Ni	185.437644	0.645	305309.754	ug/L	205.004
	65 Cu	184.168280	1.209	361804.828	ug/L	201.670
	66 Zn	185.065579	2.455	215070.847	ug/L	3569.482
>	72 Ge-1			595690.278	ug/L	592936.498
	75 As	196.602361	0.639	274486.782	ug/L	-502.888
	82 Se	190.969286	2.585	28731.673	ug/L	-70.642
	97 Mo	192.177463	1.071	353306.867	ug/L	69.001
	107 Ag	48.476795	1.067	387770.923	ug/L	109.002
	111 Cd	192.065965	0.882	341159.707	ug/L	35.667
>	115 In-1			1006155.176	ug/L	994304.053
	123 Sb	188.784030	1.339	672665.376	ug/L	235.401
	135 Ba	182.833890	1.162	307166.046	ug/L	183.670
>	165 Ho-1			1305523.381	ug/L	1276105.159
	205 Tl	178.674350	2.079	3342554.919	ug/L	1936.818
	208 Pb	184.301819	0.683	4670068.306	ug/L	3500.871
	238 U	190.891654	1.771	3105280.994	ug/L	35.667
>	45 Sc-2			486260.038	ug/L	467697.114
	53 Cr	124.957741	2.971	417238.321	ug/L	319041.768
	54 Fe	2044.467664	0.924	1073106.296	ug/L	42890.999
	61 Ni	184.131868	1.809	14813.826	ug/L	1069.051
	63 Cu	187.834161	0.665	725177.924	ug/L	321.674
	67 Zn	168.317548	3.933	56516.481	ug/L	21519.078
>	72 Ge			595690.278	ug/L	592936.498
	77 Se	172.447116	5.450	32221.589	ug/L	13366.987
	98 Mo	191.573240	1.214	905702.331	ug/L	95.062
	109 Ag	47.312323	1.748	380028.376	ug/L	120.002
>	115 In-2			1006155.176	ug/L	994304.053
	114 Cd	192.241260	1.124	760875.425	ug/L	53.748
	121 Sb	189.038356	0.923	1132248.738	ug/L	329.340
	137 Ba	186.247134	0.712	528110.629	ug/L	281.339
>	165 Ho-2			1305523.381	ug/L	1276105.159
	182 W	185.843925	1.049	1100174.693	ug/L	457.679
	183 W	183.872601	1.994	598468.632	ug/L	253.338
	194 Pt	182.405563	0.433	851133.119	ug/L	76.668
	195 Pt	186.469189	0.744	892084.469	ug/L	48.001
	203 Tl	178.739521	1.090	1406181.171	ug/L	780.029
	206 Pb	189.116868	0.220	1241538.863	ug/L	888.037
	207 Pb	184.678862	0.573	1013724.962	ug/L	745.027
>	45 Sc			486260.038	ug/L	467697.114
	47 Ti	191.651165	1.381	129190.849	ug/L	647.355
	86 Sr	184.662943	1.057	421126.618	ug/L	151.307
	88 Sr	186.743512	1.534	3655770.394	ug/L	1301.072
>	115 In			1006155.176	ug/L	994304.053
	118 Sn	187.980584	0.516	972520.387	ug/L	357.341

[ 120 Sn 186.875335 1.075 1303726.233 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		91.770
B	10		89.717
Na	23		93.314
Mg	24		96.139
Al	27		95.515
K	39		95.337
Ca	44		103.486
[> Sc-1	45	103.969	
V	51		94.334
Cr	52		94.798
Mn	55		92.792
Fe	57		104.292
Co	59		94.565
Ni	60		92.719
Cu	65		92.084
Zn	66		92.533
[> Ge-1	72	100.464	
As	75		98.301
Se	82		95.485
Mo	97		96.089
Ag	107		96.954
Cd	111		96.033
[> In-1	115	101.192	
Sb	123		94.392
Ba	135		91.417
[> Ho-1	165	102.305	
Tl	205		89.337
Pb	208		92.151
U	238		95.446
[> Sc-2	45	103.969	
Cr	53		62.479
Fe	54		102.223
Ni	61		92.066
Cu	63		93.917
Zn	67		84.159
[> Ge	72	100.464	
Se	77		86.224
Mo	98		95.787
Ag	109		94.625
[> In-2	115	101.192	
Cd	114		98.121
Sb	121		94.519
Ba	137		93.124
[> Ho-2	165	102.305	
W	182		92.922
W	183		91.936
Pt	194		91.203
Pt	195		93.235
Tl	203		89.370
Pb	206		94.558
Pb	207		92.339
[> Sc	45	103.969	
Tl	47		95.826
Sr	86		92.331
Sr	88		93.372
[> In	115	101.192	
Sn	118		93.990
Sn	120		93.438

**QC Out Of Limits**

Analyte	Mass	Out of Limits Message
B	10	Q
Tl	205	Q
Cr	53	Q
Zn	67	Q
Se	77	Q
Tl	203	Q

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 7

Sample Date/Time: Thursday, May 24, 2007 13:52:18

Autosampler Position: 1

Dataset File: D:\Elandata\Dataset\052407m1\QC Std 7.054

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.014821	69.232		5.333	ug/L	3.000	
10 B	1.849528	42.657		157.002	ug/L	90.668	
23 Na	-0.442644	13.122		23176.352	ug/L	24909.622	
24 Mg	0.088196	33.092		6655.283	ug/L	6273.773	
27 Al	0.171831	26.714		16257.742	ug/L	15227.265	
39 K	-4.364580	22.757		688338.385	ug/L	707925.205	
44 Ca	-14.434723	10.023		45715.827	ug/L	48369.900	
> 45 Sc-1				474821.781	ug/L	467697.114	
51 V	1.358234	24.630		-6217.645	ug/L	-17188.401	
52 Cr	-2.152469	2.336		29601.944	ug/L	43700.177	
55 Mn	-0.057907	5.637		3394.104	ug/L	3939.583	
57 Fe	-2.659095	7.549		6162.346	ug/L	6563.304	
59 Co	0.009207	74.519		139.335	ug/L	70.668	
60 Ni	0.023596	10.203		246.005	ug/L	205.004	
65 Cu	0.014403	23.391		232.338	ug/L	201.670	
66 Zn	-0.186988	30.719		3415.776	ug/L	3569.482	
> 72 Ge-1				597821.912	ug/L	592936.498	
75 As	0.835566	39.196		666.567	ug/L	-502.888	
82 Se	0.171643	313.381		-45.284	ug/L	-70.642	
97 Mo	0.101038	23.850		258.672	ug/L	69.001	
107 Ag	0.005611	41.835		157.002	ug/L	109.002	
111 Cd	0.018634	19.612		70.001	ug/L	35.667	
> 115 In-1				1017426.037	ug/L	994304.053	
123 Sb	0.058989	17.212		516.804	ug/L	235.401	
135 Ba	0.009019	115.008		202.337	ug/L	183.670	
> 165 Ho-1				1299780.700	ug/L	1276105.159	
205 Tl	0.344292	36.501		8367.985	ug/L	1936.818	
208 Pb	0.012186	73.466		3871.246	ug/L	3500.871	
238 U	0.012551	36.336		239.338	ug/L	35.667	
> 45 Sc-2				474821.781	ug/L	467697.114	
53 Cr	-89.444692	2.817		264116.991	ug/L	319041.768	
54 Fe	-4.593427	102.933		41269.913	ug/L	42890.999	
61 Ni	-0.955843	62.975		1015.713	ug/L	1069.051	
63 Cu	0.023337	44.829		414.344	ug/L	321.674	
67 Zn	-8.632301	12.994		20134.714	ug/L	21519.078	
> 72 Ge				597821.912	ug/L	592936.498	
77 Se	-51.738410	5.556		7816.469	ug/L	13366.987	
98 Mo	0.112876	26.677		637.710	ug/L	95.062	
109 Ag	0.014371	27.581		239.671	ug/L	120.002	
> 115 In-2				1017426.037	ug/L	994304.053	
114 Cd	0.021445	18.238		140.910	ug/L	53.748	
121 Sb	0.050494	19.910		643.021	ug/L	329.340	
137 Ba	0.006041	49.933		303.673	ug/L	281.339	
> 165 Ho-2				1299780.700	ug/L	1276105.159	
182 W	0.235157	29.837		1849.475	ug/L	457.679	
183 W	0.235787	30.901		1020.715	ug/L	253.338	
194 Pt	0.009307	25.904		121.335	ug/L	76.668	
195 Pt	0.011118	67.854		101.668	ug/L	48.001	
203 Tl	0.350442	35.548		3532.159	ug/L	780.029	
206 Pb	0.009244	117.336		964.042	ug/L	888.037	
207 Pb	0.014556	46.518		838.366	ug/L	745.027	
> 45 Sc				474821.781	ug/L	467697.114	
47 Tl	-0.038428	25.704		632.020	ug/L	647.355	
86 Sr	0.024782	18.164		208.697	ug/L	151.307	
88 Sr	0.007432	73.074		1462.090	ug/L	1301.072	
> 115 In				1017426.037	ug/L	994304.053	
118 Sn	0.039931	43.655		575.018	ug/L	357.341	



[ 120 Sn 0.038576 24.029 772.426 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		1.482
[ B	10		184.953
[ Na	23		-0.443
[ Mg	24		0.088
[ Al	27		0.172
[ K	39		-4.365
[ Ca	44		-14.435
> Sc-1	45	101.523	
[ V	51		135.823
[ Cr	52		-215.247
[ Mn	55		-5.791
[ Fe	57		-2.859
[ Co	59		0.821
[ Ni	60		2.360
[ Cu	65		1.440
[ Zn	66		-18.699
> Ge-1	72	100.824	
[ As	75		83.557
[ Se	82		17.164
[ Mo	97		10.104
[ Ag	107		0.561
[ Cd	111		1.863
> In-1	115	102.325	
[ Sb	123		5.899
[ Ba	135		0.902
> Ho-1	165	101.855	
[ Tl	205		34.429
[ Pb	208		1.219
[ U	238		1.255
> Sc-2	45	101.523	
[ Cr	53		-8944.469
[ Fe	54		-4.593
[ Ni	61		-95.584
[ Cu	63		2.334
[ Zn	67		-863.230
> Ge	72	100.824	
[ Se	77		-5173.841
[ Mo	98		11.288
[ Ag	109		1.437
> In-2	115	102.325	
[ Cd	114		2.144
[ Sb	121		5.049
[ Ba	137		0.604
> Ho-2	165	101.855	
[ W	182		23.518
[ W	183		23.579
[ Pt	194		0.931
[ Pt	195		1.112
[ Tl	203		35.044
[ Pb	206		0.924
[ Pb	207		1.458
> Sc	45	101.523	
[ Tl	47		-3.843
[ Sr	86		2.478
[ Sr	88		0.743
> In	115	102.325	
[ Sn	118		3.993
[ Sn	120		3.858

**QC Out Of Limits**

Analyte	Mass	Out of Limits	Message
B	10	Q	
V	51	Q	
Cr	52	Q	
Cr	53	Q	
Zn	67	Q	
Se	77	Q	

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWXAHB

Sample Date/Time: Thursday, May 24, 2007 13:58:51

Autosampler Position: 24

Dataset File: D:\Elandata\Dataset\052407m1\JWXAHB.055

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	-0.003709	190.275			2.667	ug/L	3.000
10 B	1.102438	30.655			141.669	ug/L	90.668
23 Na	1.713904	8.121			36223.564	ug/L	24909.622
24 Mg	-0.553113	6.571			4951.908	ug/L	6273.773
27 Al	-0.181097	20.838			15821.916	ug/L	15227.265
39 K	-10.008848	12.780			702648.084	ug/L	707925.205
44 Ca	-20.501716	21.950			47940.125	ug/L	48369.900
> 45 Sc-1					514018.444	ug/L	467697.114
51 V	-0.150484	432.273			-20204.231	ug/L	-17188.401
52 Cr	-0.182873	87.343			46662.566	ug/L	43700.177
55 Mn	0.165553	8.044			6202.075	ug/L	3939.583
57 Fe	-1.817490	51.964			6841.389	ug/L	6563.304
59 Co	0.007179	15.811			135.002	ug/L	70.668
60 Ni	0.072619	15.862			351.675	ug/L	205.004
65 Cu	0.169903	5.359			574.351	ug/L	201.670
66 Zn	-0.267576	15.247			3599.489	ug/L	3569.482
> 72 Ge-1					628812.167	ug/L	592936.498
75 As	0.075082	530.562			-426.038	ug/L	-502.888
82 Se	0.279147	82.574			-30.201	ug/L	-70.642
97 Mo	0.049649	27.883			169.669	ug/L	69.001
107 Ag	0.009885	61.319			199.337	ug/L	109.002
111 Cd	0.005855	51.678			49.001	ug/L	35.667
> 115 In-1					1061132.623	ug/L	994304.053
123 Sb	0.054671	20.171			517.374	ug/L	235.401
135 Ba	0.053231	10.486			291.339	ug/L	183.670
> 165 Ho-1					1371924.274	ug/L	1276105.159
205 Tl	0.152207	36.347			5063.305	ug/L	1936.818
208 Pb	0.079071	1.354			5867.863	ug/L	3500.871
238 U	0.001697	20.293			67.334	ug/L	35.667
> 45 Sc-2					514018.444	ug/L	467697.114
53 Cr	63.340040	41.431			396440.913	ug/L	319041.768
54 Fe	72.028663	7.257			85437.213	ug/L	42890.999
61 Ni	-0.662769	90.890			1122.389	ug/L	1069.051
63 Cu	0.177996	3.577			1079.718	ug/L	321.674
67 Zn	39.734107	21.244			32169.908	ug/L	21519.078
> 72 Ge					628812.167	ug/L	592936.498
77 Se	-15.987328	13.983			12337.154	ug/L	13366.987
98 Mo	0.044470	31.817			322.638	ug/L	95.062
109 Ag	0.021533	28.070			310.007	ug/L	120.002
> 115 In-2					1061132.623	ug/L	994304.053
114 Cd	0.009621	35.806			97.406	ug/L	53.748
121 Sb	0.052325	14.699			681.690	ug/L	329.340
137 Ba	0.061218	15.600			484.680	ug/L	281.339
> 165 Ho-2					1371924.274	ug/L	1276105.159
182 W	0.124429	26.757			1264.069	ug/L	457.679
183 W	0.115537	21.455			666.689	ug/L	253.338
194 Pt	0.006783	17.139			115.668	ug/L	76.668
195 Pt	0.004594	27.204			74.668	ug/L	48.001
203 Tl	0.151066	36.523			2082.844	ug/L	780.029
206 Pb	0.079860	4.427			1505.428	ug/L	888.037
207 Pb	0.080583	3.626			1265.402	ug/L	745.027
> 45 Sc					514018.444	ug/L	467697.114
47 Ti	0.106946	25.202			787.363	ug/L	647.355
86 Sr	0.014453	190.362			201.589	ug/L	151.307
88 Sr	-0.004422	62.251			1338.076	ug/L	1301.072
> 115 In					1061132.623	ug/L	994304.053
118 Sn	0.168800	1.987			1302.072	ug/L	357.341

[ 120 Sn 0.171838 5.105 1785.113 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
[> Sc-1	45	109.904	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
Zn	66		
[> Ge-1	72	106.051	
As	75		
Se	82		
Mo	97		
Ag	107		
Cd	111		
[> In-1	115	106.721	
Sb	123		
Ba	135		
[> Ho-1	165	107.509	
Tl	205		
Pb	208		
U	238		
[> Sc-2	45	109.904	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
Zn	67		
[> Ge	72	106.051	
Se	77		
Mo	98		
Ag	109		
[> In-2	115	106.721	
Cd	114		
Sb	121		
Ba	137		
[> Ho-2	165	107.509	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
Pb	207		
[> Sc	45	109.904	
Tl	47		
Sr	86		
Sr	88		
[> In	115	106.721	
Sn	118		
Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWXAHC

Sample Date/Time: Thursday, May 24, 2007 14:04:55

Autosampler Position: 25

Dataset File: D:\Elandata\Dataset\052407m1\JWXAHC.056

## Sample Result Summary

Mass	Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9	Be	470.158845	1.467	78649.387	ug/L	3.000			
10	B	959.627401	2.449	36537.369	ug/L	90.668			
23	Na	9742.296789	1.976	50125810.128	ug/L	24909.622			
24	Mg	9771.580363	1.956	34169291.854	ug/L	6273.773			
27	Al	488.126243	2.100	2468920.051	ug/L	15227.265			
39	K	9821.701658	1.704	74384183.707	ug/L	707925.205			
44	Ca	10051.874740	1.577	2596868.166	ug/L	48369.900			
>	45 Sc-1			511800.365	ug/L	467697.114			
	51 V	459.023335	2.229	4080874.328	ug/L	-17188.401			
	52 Cr	468.086635	1.434	3508654.678	ug/L	43700.177			
	55 Mn	470.258861	2.044	5302321.110	ug/L	3939.583			
	57 Fe	487.885244	0.936	106188.267	ug/L	6563.304			
	59 Co	457.152578	0.418	3637344.461	ug/L	70.668			
	60 Ni	447.437594	1.091	775021.382	ug/L	205.004			
	65 Cu	438.209366	1.267	905721.902	ug/L	201.670			
	66 Zn	416.064539	1.116	504096.627	ug/L	3569.482			
>	72 Ge-1			610837.269	ug/L	592936.498			
	75 As	479.912768	0.521	687845.356	ug/L	-502.888			
	82 Se	445.350733	0.238	68816.040	ug/L	-70.642			
	97 Mo	485.474181	1.744	949250.894	ug/L	69.001			
	107 Ag	119.687019	1.331	1018212.835	ug/L	109.002			
	111 Cd	456.209027	2.688	861763.935	ug/L	35.667			
>	115 In-1			1070441.666	ug/L	994304.053			
	123 Sb	443.601262	2.183	2180697.697	ug/L	235.401			
	135 Ba	441.014067	0.445	773031.598	ug/L	183.670			
>	165 Ho-1			1362592.447	ug/L	1276105.159			
	205 Tl	462.941990	2.471	9034737.629	ug/L	1936.818			
	208 Pb	466.635692	0.901	12334475.544	ug/L	3500.871			
	238 U	963.447649	1.568	16355201.276	ug/L	35.667			
>	45 Sc-2			511800.365	ug/L	467697.114			
	53 Cr	597.918955	1.667	779935.069	ug/L	319041.768			
	54 Fe	593.387217	0.426	361143.101	ug/L	42890.999			
	61 Ni	453.199428	1.985	36665.031	ug/L	1069.051			
	63 Cu	428.688283	0.700	1741544.402	ug/L	321.674			
	67 Zn	452.988423	1.580	120286.190	ug/L	21519.078			
>	72 Ge			610837.269	ug/L	592936.498			
	77 Se	417.189305	0.924	60406.306	ug/L	13366.987			
	98 Mo	475.780015	1.023	2392700.304	ug/L	95.062			
	109 Ag	122.293901	2.085	1044565.278	ug/L	120.002			
>	115 In-2			1070441.666	ug/L	994304.053			
	114 Cd	454.065901	1.516	1911984.365	ug/L	53.748			
	121 Sb	457.081322	2.121	2911370.704	ug/L	329.340			
	137 Ba	445.002001	1.322	1318500.734	ug/L	281.339			
>	165 Ho-2			1362592.447	ug/L	1276105.159			
	182 W	932.123740	3.079	5756707.245	ug/L	457.679			
	183 W	921.769299	1.594	3130167.158	ug/L	253.338			
	194 Pt	889.364096	1.005	4331041.544	ug/L	76.668			
	195 Pt	895.257133	1.220	4469541.449	ug/L	48.001			
	203 Tl	444.398922	1.489	3647397.810	ug/L	780.029			
	206 Pb	461.498121	1.228	3160490.974	ug/L	888.037			
	207 Pb	473.514803	0.872	2711402.314	ug/L	745.027			
>	45 Sc			511800.365	ug/L	467697.114			
	47 Ti	935.074509	1.340	660671.605	ug/L	647.355			
	86 Sr	454.170499	2.150	1089892.049	ug/L	151.307			
	88 Sr	467.268611	1.098	9625958.945	ug/L	1301.072			
>	115 In			1070441.666	ug/L	994304.053			
	118 Sn	916.745502	1.718	5043229.974	ug/L	357.341			

[ 120 Sn 936.423893 1.639 6946920.349 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	108.430	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
Zn	66		
> Ge-1	72	103.019	
As	75		
Se	82		
[ Mo	97		
Ag	107		
Cd	111		
> In-1	115	107.657	
Sb	123		
[ Ba	135		
> Ho-1	165	106.777	
Tl	205		
Pb	208		
[ U	238		
> Sc-2	45	109.430	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
Zn	67		
> Ge	72	103.019	
[ Se	77		
[ Mo	98		
Ag	109		
> In-2	115	107.657	
Cd	114		
[ Sb	121		
[ Ba	137		
> Ho-2	165	106.777	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
[ Pb	207		
> Sc	45	109.430	
Tl	47		
Sr	86		
[ Sr	86		
> In	115	107.657	
[ Sn	118		
[ Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPA2

Sample Date/Time: Thursday, May 24, 2007 14:10:58

Autosampler Position: 26

Dataset File: D:\Elandata\Dataset\052407m1\JWPA2.057

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.029749	72.854		8.000	ug/L	3.000	
10 B	251.735583	1.195		9371.501	ug/L	90.668	
23 Na	29913.418512	0.983		149286303.177	ug/L	24909.622	
24 Mg	5729.883517	0.779		19440988.666	ug/L	6273.773	
27 Al	10.827202	0.534		68895.421	ug/L	15227.265	
39 K	682.546236	1.526		5714312.920	ug/L	707925.205	
44 Ca	13481.464328	1.765		3361239.323	ug/L	48369.900	
> 45 Sc-1				496509.855	ug/L	467697.114	
51 V	18.495460	2.289		142019.034	ug/L	-17188.401	
52 Cr	22.665324	1.806		208975.302	ug/L	43700.177	
55 Mn	2.793260	2.402		34711.808	ug/L	3939.583	
57 Fe	-22.781631	4.086		2482.815	ug/L	6563.304	
59 Co	0.128200	3.192		1064.384	ug/L	70.668	
60 Ni	0.436319	6.922		950.374	ug/L	205.004	
65 Cu	0.444925	0.820		1106.054	ug/L	201.670	
66 Zn	3.023390	36.880		7319.990	ug/L	3569.482	
> 72 Ge-1				602740.865	ug/L	592936.498	
75 As	9.286207	4.761		12629.529	ug/L	-502.888	
82 Se	0.475825	40.662		0.778	ug/L	-70.642	
97 Mo	1.129817	5.136		2204.859	ug/L	69.001	
107 Ag	0.007465	12.631		174.669	ug/L	109.002	
111 Cd	0.064076	10.420		154.002	ug/L	35.667	
> 115 In-1				1033905.747	ug/L	994304.053	
123 Sb	0.094906	9.327		695.362	ug/L	235.401	
135 Ba	2.550225	3.603		4492.085	ug/L	183.670	
> 165 Ho-1				1312211.462	ug/L	1276105.159	
205 Tl	0.701568	39.554		15162.804	ug/L	1936.818	
208 Pb	0.067176	8.876		5308.102	ug/L	3500.871	
238 U	2.505058	3.340		40985.151	ug/L	35.667	
> 45 Sc-2				496509.855	ug/L	467697.114	
53 Cr	-65.060682	19.102		293237.922	ug/L	319041.768	
54 Fe	12.446445	20.224		51920.830	ug/L	42890.999	
61 Ni	1.636647	17.791		1259.401	ug/L	1069.051	
63 Cu	0.500615	5.269		2313.544	ug/L	321.674	
67 Zn	-0.374123	671.059		22768.366	ug/L	21519.078	
> 72 Ge				602740.865	ug/L	592936.498	
77 Se	-63.555516	14.361		6581.069	ug/L	13366.987	
98 Mo	1.145467	4.926		5661.798	ug/L	95.062	
109 Ag	0.026432	22.772		342.674	ug/L	120.002	
> 115 In-2				1033905.747	ug/L	994304.053	
114 Cd	0.065088	18.283		320.557	ug/L	53.748	
121 Sb	0.075998	19.722		809.365	ug/L	329.340	
137 Ba	2.601120	3.986		7696.484	ug/L	281.339	
> 165 Ho-2				1312211.462	ug/L	1276105.159	
182 W	0.864046	14.382		5607.168	ug/L	457.679	
183 W	0.867538	16.262		3095.704	ug/L	253.338	
194 Pt	0.048047	8.636		304.006	ug/L	76.668	
195 Pt	0.053965	4.731		308.673	ug/L	48.001	
203 Tl	0.711162	39.254		6415.613	ug/L	780.029	
206 Pb	0.070298	9.593		1376.080	ug/L	888.037	
207 Pb	0.071034	13.892		1157.725	ug/L	745.027	
> 45 Sc				496509.855	ug/L	467697.114	
47 Ti	1.015785	1.979		1382.747	ug/L	647.355	
86 Sr	422.409690	2.177		983368.992	ug/L	151.307	
88 Sr	431.604601	1.908		8625530.766	ug/L	1301.072	
> 115 In				1033905.747	ug/L	994304.053	
118 Sn	0.124957	4.158		1035.715	ug/L	357.341	

[ 120 Sn 0.127516 16.252 1421.012 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
[ B	10		
[ Na	23		
[ Mg	24		
[ Al	27		
[ K	39		
[ Ca	44		
> Sc-1	45	106.161	
[ V	51		
[ Cr	52		
[ Mn	55		
[ Fe	57		
[ Co	59		
[ Ni	60		
[ Cu	65		
[ Zn	66		
> Ge-1	72	101.654	
[ As	75		
[ Se	82		
[ Mo	97		
[ Ag	107		
[ Cd	111		
> In-1	115	103.983	
[ Sb	123		
[ Ba	135		
> Ho-1	165	102.829	
[ Tl	205		
[ Pb	208		
[ U	238		
> Sc-2	45	106.161	
[ Cr	53		
[ Fe	54		
[ Ni	61		
[ Cu	63		
[ Zn	67		
> Ge	72	101.654	
[ Se	77		
[ Mo	98		
[ Ag	109		
> In-2	115	103.983	
[ Cd	114		
[ Sb	121		
[ Ba	137		
> Ho-2	165	102.829	
[ W	182		
[ W	183		
[ Pt	194		
[ Pt	195		
[ Tl	203		
[ Pb	206		
[ Pb	207		
> Sc	45	106.161	
[ Tl	47		
[ Sr	86		
[ Sr	88		
> In	115	103.983	
[ Sn	118		
[ Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPA2S

Sample Date/Time: Thursday, May 24, 2007 14:17:02

Autosampler Position: 27

Dataset File: D:\Elandata\Dataset\052407m1\JWPA2S.058

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
9 Be	2.288491	6.720	366.008	ug/L	3.000
10 B	334.202411	4.623	12126.272	ug/L	90.668
23 Na	31639.887115	3.458	154299866.147	ug/L	24909.622
24 Mg	7919.977759	3.191	26257958.718	ug/L	6273.773
27 Al	105.040421	3.632	515712.961	ug/L	15227.265
39 K	3110.151073	4.398	22835046.162	ug/L	707925.205
44 Ca	15482.664019	2.947	3765204.834	ug/L	48369.900
> 45 Sc-1			485220.233	ug/L	467697.114
51 V	39.414125	5.930	315917.481	ug/L	-17188.401
52 Cr	31.937902	5.218	269212.336	ug/L	43700.177
55 Mn	25.586287	4.135	277390.208	ug/L	3939.583
57 Fe	20.644059	3.961	10781.293	ug/L	6563.304
58 Co	23.266822	3.838	175566.228	ug/L	70.668
60 Ni	22.222238	3.049	36696.126	ug/L	205.004
65 Cu	11.477385	2.900	22694.914	ug/L	201.670
66 Zn	22.904228	4.522	29808.393	ug/L	3569.482
> 72 Ge-1			589220.231	ug/L	592936.498
75 As	107.961495	2.583	148905.917	ug/L	-502.888
82 Se	85.890341	1.987	12746.994	ug/L	-70.642
97 Mo	49.155129	3.890	90222.549	ug/L	69.001
107 Ag	2.727598	3.675	21873.634	ug/L	109.002
111 Cd	2.571335	4.464	4592.785	ug/L	35.667
> 115 In-1			1003884.092	ug/L	994304.053
123 Sb	24.000034	3.333	110907.171	ug/L	235.401
135 Ba	93.080408	5.043	155658.492	ug/L	183.670
> 165 Ho-1			1298657.189	ug/L	1276105.159
205 Tl	88.592264	1.581	1649643.318	ug/L	1936.818
208 Pb	23.348948	3.039	591663.696	ug/L	3500.871
238 U	93.086640	2.974	1506319.028	ug/L	35.667
> 45 Sc-2			485220.233	ug/L	467697.114
53 Cr	-17.672253	20.095	318925.038	ug/L	319041.768
54 Fe	62.191428	13.568	75711.355	ug/L	42890.999
61 Ni	23.773623	6.598	2874.318	ug/L	1069.051
63 Cu	11.512347	3.551	44663.874	ug/L	321.674
67 Zn	22.434849	3.817	26867.845	ug/L	21519.078
> 72 Ge			589220.231	ug/L	592936.498
77 Se	62.315310	10.900	19996.332	ug/L	13366.987
98 Mo	49.369435	2.744	232963.972	ug/L	95.062
109 Ag	3.542242	5.385	28501.747	ug/L	120.002
> 115 In-2			1003884.092	ug/L	994304.053
114 Cd	2.535573	1.561	10066.560	ug/L	53.748
121 Sb	24.258476	2.037	145264.171	ug/L	329.340
137 Ba	94.761526	3.852	267436.994	ug/L	281.339
> 165 Ho-2			1298657.189	ug/L	1276105.159
182 W	91.926955	3.021	541590.126	ug/L	457.679
183 W	90.549355	3.460	293304.172	ug/L	253.338
194 Pt	92.639651	4.002	430057.809	ug/L	76.668
195 Pt	93.847363	4.262	446658.435	ug/L	48.001
203 Tl	90.612561	2.795	709535.840	ug/L	780.029
206 Pb	23.215306	3.452	152403.491	ug/L	888.037
207 Pb	23.472122	3.421	128831.068	ug/L	745.027
> 45 Sc			485220.233	ug/L	467697.114
47 Ti	92.446950	5.216	62532.406	ug/L	647.355
86 Sr	459.506490	3.703	1045462.404	ug/L	151.307
88 Sr	471.697797	3.893	9212806.597	ug/L	1301.072
> 115 In			1003884.092	ug/L	994304.053
118 Sn	94.797234	5.545	489544.252	ug/L	357.341



[ 120 Sn 95.801867 4.516 667155.637 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte Mass	Int Std % Recovery	QC Std % Recovery
[ Be 9		
[ B 10		
[ Na 23		
[ Mg 24		
[ Al 27		
[ K 39		
[ Ca 44		
[> Sc-1 45	103.747	
[ V 51		
[ Cr 52		
[ Mn 55		
[ Fe 57		
[ Co 59		
[ Ni 60		
[ Cu 65		
[ Zn 66		
[> Ge-1 72	99.373	
[ As 75		
[ Se 82		
[ Mo 97		
[ Ag 107		
[ Cd 111		
[> In-1 115	100.963	
[ Sb 123		
[ Ba 135		
[> Ho-1 165	101.767	
[ Tl 205		
[ Pb 208		
[ U 238		
[> Sc-2 45	103.747	
[ Cr 53		
[ Fe 54		
[ Ni 61		
[ Cu 63		
[ Zn 67		
[> Ge 72	99.373	
[ Se 77		
[ Mo 98		
[ Ag 109		
[> In-2 115	100.963	
[ Cd 114		
[ Sb 121		
[ Ba 137		
[> Ho-2 165	101.767	
[ W 182		
[ W 183		
[ Pt 194		
[ Pt 195		
[ Tl 203		
[ Pb 206		
[ Pb 207		
[> Sc 45	103.747	
[ Tl 47		
[ Sr 86		
[ Sr 88		
[> In 115	100.963	
[ Sn 118		
[ Sn 120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPA2D

Sample Date/Time: Thursday, May 24, 2007 14:23:07

Autosampler Position: 28

Dataset File: D:\Elandata\Dataset\052407m1\JWPA2D.059

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be		2.426486	3.837		387.009	ug/L	3.000
10 B		342.331580	1.182		12388.827	ug/L	90.668
23 Na	31437.689899		1.793	152951504.786		ug/L	24909.622
24 Mg	7978.452615		1.424	26386098.840		ug/L	6273.773
27 Al	106.113432		1.176	519524.931		ug/L	15227.265
39 K	3131.358986		2.408	22926180.174		ug/L	707925.205
44 Ca	15302.593246		1.424	3712553.382		ug/L	48369.900
> 45 Sc-1				484023.918		ug/L	467697.114
51 V	38.513745		0.925	307580.451		ug/L	-17188.401
52 Cr	31.834749		1.242	267863.944		ug/L	43700.177
55 Mn	25.544422		2.513	276228.115		ug/L	3939.583
57 Fe	20.729517		4.320	10769.729		ug/L	6563.304
59 Co	23.234634		1.430	174883.350		ug/L	70.668
60 Ni	21.881704		1.526	36047.454		ug/L	205.004
65 Cu	11.468432		0.985	22623.797		ug/L	201.670
66 Zn	22.986618		2.152	29826.403		ug/L	3569.482
> 72 Ge-1				593486.088		ug/L	592936.498
75 As	105.575387		1.835	146636.841		ug/L	-502.888
82 Se	81.645195		1.683	12199.176		ug/L	-70.642
97 Mo	49.048301		1.164	91066.252		ug/L	69.001
107 Ag	2.734247		0.587	22180.761		ug/L	109.002
111 Cd	2.533059		1.103	4577.112		ug/L	35.667
> 115 In-1				1015561.155		ug/L	994304.053
123 Sb	22.726135		1.750	106242.707		ug/L	235.401
135 Ba	92.188649		0.791	154427.755		ug/L	183.670
> 165 Ho-1				1300946.136		ug/L	1276105.159
205 Tl	88.854733		2.350	1657187.079		ug/L	1936.818
208 Pb	23.626830		0.525	599679.491		ug/L	3500.871
238 U	94.803435		0.834	1536710.566		ug/L	35.667
> 45 Sc-2				484023.918		ug/L	467697.114
53 Cr	-8.642649		56.388	324275.560		ug/L	319041.768
54 Fe	62.899761		10.033	75873.209		ug/L	42890.999
61 Ni	24.239477		2.577	2901.657		ug/L	1069.051
63 Cu	11.522051		0.273	44592.940		ug/L	321.674
67 Zn	21.980251		15.342	26705.543		ug/L	21519.078
> 72 Ge				593486.088		ug/L	592936.498
77 Se	67.165592		8.063	20669.264		ug/L	13366.987
98 Mo	48.775805		1.077	232831.860		ug/L	95.062
109 Ag	3.476118		1.272	28294.611		ug/L	120.002
> 115 In-2				1015561.155		ug/L	994304.053
114 Cd	2.532716		4.255	10170.815		ug/L	53.748
121 Sb	23.250583		0.975	140856.106		ug/L	329.340
137 Ba	94.675751		0.709	267646.295		ug/L	281.339
> 165 Ho-2				1300946.136		ug/L	1276105.159
182 W	93.077938		0.792	549278.291		ug/L	457.679
183 W	92.227133		2.225	299215.863		ug/L	253.338
194 Pt	95.707799		1.621	445019.632		ug/L	76.668
195 Pt	95.968167		2.135	457476.965		ug/L	48.001
203 Tl	90.750747		1.949	711758.814		ug/L	780.029
206 Pb	23.331966		1.046	153420.961		ug/L	888.037
207 Pb	23.506070		0.868	129232.861		ug/L	745.027
> 45 Sc				484023.918		ug/L	467697.114
47 Ti	91.757987		1.298	61917.175		ug/L	647.355
86 Sr	455.341365		1.950	1033345.336		ug/L	151.307
88 Sr	472.969952		1.331	9214673.408		ug/L	1301.072
> 115 In				1015561.155		ug/L	994304.053
118 Sn	93.919816		1.349	490598.385		ug/L	357.341

[ 120 Sn 94.696196 0.187 667082.639 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte Mass	Int Std % Recovery	QC Std % Recovery
[ Be 9		
B 10		
Na 23		
Mg 24		
Al 27		
K 39		
Ca 44		
> Sc-1 45	103.491	
V 51		
Cr 52		
Mn 55		
Fe 57		
Co 59		
Ni 60		
Cu 65		
Zn 66		
> Ge-1 72	100.093	
As 75		
Se 82		
Mo 97		
Ag 107		
Cd 111		
> In-1 115	102.138	
Sb 123		
Ba 135		
> Ho-1 165	101.947	
Tl 205		
Pb 208		
U 238		
> Sc-2 45	103.491	
Cr 53		
Fe 54		
Ni 61		
Cu 63		
Zn 67		
> Ge 72	100.093	
Se 77		
Mo 96		
Ag 109		
> In-2 115	102.138	
Cd 114		
Sb 121		
Ba 137		
> Ho-2 165	101.947	
W 182		
W 183		
Pt 194		
Pt 195		
Tl 203		
Pb 206		
Pb 207		
> Sc 45	103.491	
Tl 47		
Sr 86		
Sr 88		
> In 115	102.138	
Sn 118		
Sn 120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPA2V

Sample Date/Time: Thursday, May 24, 2007 14:29:12

Autosampler Position: 29

Dataset File: D:\Elandata\Dataset\052407m1\JWPA2V.060

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	-0.002517	150.981		2.667		ug/L	3.000
10 B	56.054551	0.794		2078.172		ug/L	90.668
23 Na	5915.335855	2.909		28399536.251		ug/L	24909.622
24 Mg	1155.912868	1.893		3775621.253		ug/L	6273.773
27 Al	1.172958	4.710		21032.682		ug/L	15227.265
39 K	122.971149	1.303		1582162.735		ug/L	707925.205
44 Ca	2704.824447	0.413		687873.994		ug/L	48369.900
> 45 Sc-1				477352.501		ug/L	467697.114
51 V	4.500299	14.652		19959.552		ug/L	-17188.401
52 Cr	4.645464	3.269		76639.146		ug/L	43700.177
55 Mn	0.494430	1.200		9217.065		ug/L	3939.583
57 Fe	-5.788671	7.580		5602.753		ug/L	6563.304
59 Co	0.020161	9.895		221.671		ug/L	70.668
60 Ni	0.098706	13.207		368.675		ug/L	205.004
65 Cu	0.053316	16.474		308.673		ug/L	201.670
66 Zn	-0.401395	6.346		3193.055		ug/L	3569.482
> 72 Ge-1				595696.758		ug/L	592936.498
75 As	1.437360	20.597		1507.886		ug/L	-502.888
82 Se	0.261456	40.429		-31.633		ug/L	-70.642
97 Mo	0.219791	8.435		473.679		ug/L	69.001
107 Ag	0.004925	19.171		149.669		ug/L	109.002
111 Cd	0.005034	127.579		45.001		ug/L	35.667
> 115 In-1				1006028.807		ug/L	994304.053
123 Sb	0.027911	22.620		367.071		ug/L	235.401
135 Ba	0.530596	2.553		1074.718		ug/L	183.670
> 165 Ho-1				1300751.553		ug/L	1276105.159
205 Tl	0.349792	41.941		8477.765		ug/L	1936.818
208 Pb	-0.006190	91.680		3411.525		ug/L	3500.871
238 U	0.506688	1.206		8247.798		ug/L	35.667
> 45 Sc-2				477352.501		ug/L	467697.114
53 Cr	-23.541687	37.311		309790.905		ug/L	319041.768
54 Fe	4.125879	143.568		45808.854		ug/L	42890.999
61 Ni	0.379256	219.585		1118.722		ug/L	1069.051
63 Cu	0.066964	1.847		582.018		ug/L	321.674
67 Zn	-4.769750	29.114		21011.985		ug/L	21519.078
> 72 Ge				595696.758		ug/L	592936.498
77 Se	-7.798091	27.431		12578.293		ug/L	13366.987
98 Mo	0.235570	4.612		1209.610		ug/L	95.062
109 Ag	0.007793	33.471		184.003		ug/L	120.002
> 115 In-2				1006028.807		ug/L	994304.053
114 Cd	0.005722	53.729		77.013		ug/L	53.748
121 Sb	0.017612	6.507		438.678		ug/L	329.340
137 Ba	0.537563	2.124		1804.465		ug/L	281.339
> 165 Ho-2				1300751.553		ug/L	1276105.159
182 W	0.276481	18.041		2095.510		ug/L	457.679
183 W	0.268693	19.610		1128.390		ug/L	253.338
194 Pt	0.002534	133.718		90.001		ug/L	76.668
195 Pt	0.005557	52.198		75.334		ug/L	48.001
203 Tl	0.355256	42.187		3572.846		ug/L	780.029
206 Pb	-0.001213	483.818		897.037		ug/L	888.037
207 Pb	-0.003409	84.527		740.893		ug/L	745.027
> 45 Sc				477352.501		ug/L	467697.114
47 Ti	0.131745	30.983		747.360		ug/L	647.355
86 Sr	88.764988	1.263		198816.562		ug/L	151.307
88 Sr	85.509768	0.892		1644155.210		ug/L	1301.072
> 115 In				1006028.807		ug/L	994304.053
118 Sn	0.028525	26.014		509.014		ug/L	357.341

[ 120 Sn 0.029495 23.642 699.977 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
[> Sc-1	45	102.064	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
[ Zn	66		
[> Ge-1	72	100.466	
As	75		
Se	82		
[ Mo	97		
Ag	107		
Cd	111		
[> In-1	115	101.179	
[ Sb	123		
[ Ba	135		
[> Ho-1	165	101.931	
Tl	205		
Pb	208		
[ U	238		
[> Sc-2	45	102.064	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
[ Zn	67		
[> Ge	72	100.466	
Se	77		
[ Mo	98		
Ag	109		
[> In-2	115	101.179	
Cd	114		
[ Sb	121		
[ Ba	137		
[> Ho-2	165	101.931	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
[ Pb	207		
[> Sc	45	102.064	
Ti	47		
Sr	86		
[ Sr	88		
[> In	115	101.179	
Sn	118		
[ Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPA3

Sample Date/Time: Thursday, May 24, 2007 14:35:18

Autosampler Position: 30

Dataset File: D:\Elandata\Dataset\052407m1\JWPA3.061

## Sample Result Summary

Mass	Analyte	Conc.	Mean	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9	Be	0.012789	87.990		5.000		ug/L	3.000
10	B	257.273202	1.511		9103.658		ug/L	90.668
23	Na	30856.548507	0.541		146405896.786		ug/L	24909.622
24	Mg	5873.437161	2.159		18947849.745		ug/L	6273.773
27	Al	-0.746603	11.219		11911.086		ug/L	15227.265
39	K	705.856434	1.901		5594413.143		ug/L	707925.205
44	Ca	13864.844365	1.494		3285408.313		ug/L	48369.900
>	45	Sc-1			472059.088		ug/L	467697.114
	51	V	18.099412	5.127	131779.796		ug/L	-17188.401
	52	Cr	24.629973	0.942	212081.123		ug/L	43700.177
	55	Mn	2.534083	0.785	30310.424		ug/L	3939.583
	57	Fe	-28.983088	8.038	1202.043		ug/L	6563.304
	59	Co	0.103047	8.103	827.366		ug/L	70.668
	60	Ni	0.428106	6.759	891.037		ug/L	205.004
	65	Cu	0.300599	6.849	776.696		ug/L	201.670
	66	Zn	0.941108	6.132	4646.135		ug/L	3569.482
>	72	Ge-1			586055.937		ug/L	592936.498
	75	As	8.359433	0.868	11007.411		ug/L	-502.888
	82	Se	0.161115	241.729	-46.146		ug/L	-70.642
	97	Mo	1.027518	0.540	1964.821		ug/L	69.001
	107	Ag	0.001460	197.303	122.335		ug/L	109.002
	111	Cd	0.009237	6.595	52.667		ug/L	35.667
>	115	In-1			1009396.248		ug/L	994304.053
	123	Sb	0.053463	6.414	486.854		ug/L	235.401
	135	Ba	2.376300	2.507	4187.656		ug/L	183.670
>	165	Ho-1			1308473.530		ug/L	1276105.159
	205	Tl	0.133254	34.651	4487.102		ug/L	1936.818
	208	Pb	0.005039	52.592	3717.225		ug/L	3500.871
	238	U	2.501954	1.544	40823.992		ug/L	35.667
>	45	Sc-2			472059.088		ug/L	467697.114
	53	Cr	0.024209	9521.453	322023.608		ug/L	319041.768
	54	Fe	7.750915	110.756	47050.250		ug/L	42890.999
	61	Ni	2.461388	24.941	1257.068		ug/L	1089.051
	63	Cu	0.312437	2.218	1495.093		ug/L	321.674
	67	Zn	-1.136216	132.591	21495.711		ug/L	21519.078
>	72	Ge			586055.937		ug/L	592936.498
	77	Se	-11.128331	30.127	12015.817		ug/L	13366.987
	98	Mo	1.026905	3.005	4966.272		ug/L	95.062
	109	Ag	0.004375	57.546	157.002		ug/L	120.002
>	115	In-2			1009396.248		ug/L	994304.053
	114	Cd	0.015136	16.401	114.653		ug/L	53.748
	121	Sb	0.033401	6.189	535.015		ug/L	329.340
	137	Ba	2.449449	1.106	7245.910		ug/L	281.339
>	165	Ho-2			1308473.530		ug/L	1276105.159
	182	W	0.427750	4.635	3006.680		ug/L	457.679
	183	W	0.407565	3.208	1588.771		ug/L	253.338
	194	Pt	0.005359	20.390	103.668		ug/L	76.668
	195	Pt	0.001892	113.259	58.334		ug/L	48.001
	203	Tl	0.136689	28.584	1878.478		ug/L	780.029
	206	Pb	0.006908	122.997	955.708		ug/L	888.037
	207	Pb	0.008747	56.568	812.031		ug/L	745.027
>	45	Sc			472059.088		ug/L	467697.114
	47	Ti	0.002529	516.940	655.022		ug/L	647.355
	86	Sr	443.780120	0.890	982299.936		ug/L	151.307
	88	Sr	450.023946	1.033	8551118.117		ug/L	1301.072
>	115	In			1009396.248		ug/L	994304.053
	118	Sn	0.018815	13.233	460.345		ug/L	357.341

[ 120 Sn 0.017346 27.239 617.298 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte Mass	Int Std % Recovery	QC Std % Recovery
[ Be 9		
B 10		
Na 23		
Mg 24		
Al 27		
K 39		
Ca 44		
> Sc-1 45 100.933		
V 51		
Cr 52		
Mn 55		
Fe 57		
Co 59		
Ni 60		
Cu 65		
Zn 66		
> Ge-1 72 98.840		
As 75		
Se 82		
Mo 97		
Ag 107		
Cd 111		
> In-1 115 101.518		
Sb 123		
Ba 135		
> Ho-1 165 102.536		
Tl 205		
Pb 208		
U 238		
> Sc-2 45 100.933		
Cr 53		
Fe 54		
Ni 61		
Cu 63		
Zn 67		
> Ge 72 98.840		
Se 77		
Mo 98		
Ag 109		
> In-2 115 101.518		
Cd 114		
Sb 121		
Ba 137		
> Ho-2 165 102.536		
W 182		
W 183		
Pt 194		
Pt 195		
Tl 203		
Pb 206		
Pb 207		
> Sc 45 100.933		
Ti 47		
Sr 86		
Sr 88		
> In 115 101.518		
Sn 118		
Sn 120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPA3S

Sample Date/Time: Thursday, May 24, 2007 14:41:24

Autosampler Position: 31

Dataset File: D:\Elandata\Dataset\052407m1\JWPA3S.062

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	2.380807	5.950	375.009	ug/L	3.000		
10 B	357.358542	1.325	12770.835	ug/L	90.668		
23 Na	33810.071859	2.030	162447218.851	ug/L	24909.622		
24 Mg	8493.144227	1.127	27742653.081	ug/L	6273.773		
27 Al	101.844185	1.196	493135.317	ug/L	15227.285		
39 K	3256.277350	0.798	23521539.257	ug/L	707925.205		
44 Ca	16509.848286	0.698	3952651.020	ug/L	48369.900		
> 45 Sc-1			478075.025	ug/L	467697.114		
51 V	41.546078	2.499	329084.773	ug/L	-17188.401		
52 Cr	34.808611	0.838	285097.017	ug/L	43700.177		
55 Mn	27.145070	1.664	289708.163	ug/L	3939.583		
57 Fe	16.736071	12.571	9880.025	ug/L	6563.304		
59 Co	24.871882	1.161	184924.564	ug/L	70.668		
60 Ni	23.667282	0.460	38495.517	ug/L	205.004		
65 Cu	12.274927	1.427	23900.216	ug/L	201.670		
66 Zn	24.689226	0.623	31375.397	ug/L	3569.482		
> 72 Ge-1			589871.927	ug/L	592936.498		
75 As	111.329004	1.101	153706.842	ug/L	-502.888		
82 Se	85.925452	3.202	12763.611	ug/L	-70.642		
97 Mo	51.632909	2.941	95081.130	ug/L	69.001		
107 Ag	2.811370	1.467	22618.788	ug/L	109.002		
111 Cd	2.672468	1.300	4787.850	ug/L	35.667		
> 115 In-1			1007305.037	ug/L	994304.053		
123 Sb	23.239798	1.207	107761.397	ug/L	235.401		
135 Ba	98.026704	1.648	164267.249	ug/L	183.670		
> 165 Ho-1			1301788.203	ug/L	1276105.159		
205 Tl	91.885493	3.028	1714620.005	ug/L	1936.818		
208 Pb	24.582592	1.431	624171.617	ug/L	3500.871		
238 U	100.663817	2.134	1632569.701	ug/L	35.667		
> 45 Sc-2			478075.025	ug/L	467697.114		
53 Cr	12.720095	30.505	334675.947	ug/L	319041.768		
54 Fe	60.096357	6.142	73573.283	ug/L	42890.999		
61 Ni	27.202134	3.696	3083.364	ug/L	1089.051		
63 Cu	12.318016	0.338	47065.207	ug/L	321.674		
67 Zn	24.756222	11.973	26932.971	ug/L	21519.078		
> 72 Ge			589871.927	ug/L	592936.498		
77 Se	73.688869	4.149	21251.262	ug/L	13366.987		
98 Mo	51.948067	0.929	245955.885	ug/L	95.062		
109 Ag	3.454164	1.530	27889.147	ug/L	120.002		
> 115 In-2			1007305.037	ug/L	994304.053		
114 Cd	2.620894	4.003	10439.244	ug/L	53.748		
121 Sb	23.359747	0.484	140388.999	ug/L	329.340		
137 Ba	99.466810	1.538	281337.085	ug/L	281.339		
> 165 Ho-2			1301788.203	ug/L	1276105.159		
182 W	98.380281	0.917	580908.686	ug/L	457.679		
183 W	98.618731	0.175	320175.246	ug/L	253.338		
194 Pt	98.388492	0.770	457797.666	ug/L	76.668		
195 Pt	98.523136	0.835	469984.184	ug/L	48.001		
203 Tl	93.306187	1.754	732243.965	ug/L	780.029		
206 Pb	24.453326	1.540	160848.080	ug/L	888.037		
207 Pb	24.775101	2.258	136247.433	ug/L	745.027		
> 45 Sc			478075.025	ug/L	467697.114		
47 Tl	98.306268	0.441	65480.724	ug/L	647.355		
86 Sr	493.211305	0.781	1105644.769	ug/L	151.307		
88 Sr	511.822821	1.566	9849076.609	ug/L	1301.072		
> 115 In			1007305.037	ug/L	994304.053		
118 Sn	101.121587	0.116	523919.036	ug/L	357.341		



[ 120 Sn 101.117982 1.186 706495.010 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	102.219	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
Zn	66		
> Ge-1	72	99.483	
As	75		
Se	82		
Mo	97		
Ag	107		
Cd	111		
> In-1	115	101.308	
Sb	123		
Ba	135		
> Ho-1	165	102.013	
Tl	205		
Pb	208		
U	238		
> Sc-2	45	102.219	
Cr	53		
Fe	54		
Ni	61		
Cu	68		
Zn	67		
> Ge	72	99.483	
Se	77		
Mo	98		
Ag	109		
> In-2	115	101.308	
Cd	114		
Sb	121		
Ba	137		
> Ho-2	165	102.013	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
Pb	207		
> Sc	45	102.219	
Ti	47		
Sr	86		
Sr	88		
> In	115	101.308	
Sn	118		
Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPA3D

Sample Date/Time: Thursday, May 24, 2007 14:47:31

Autosampler Position: 32

Dataset File: D:\Elandata\Dataset\052407m1\JWPA3D.063

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	2.616469		7.227		417.010	ug/L	3.000
10 B	355.780211		2.325		12870.592	ug/L	90.668
23 Na	33198.202251		3.619	161477777.261		ug/L	24909.622
24 Mg	8383.995578		2.243	27724498.137		ug/L	6273.773
27 Al	100.075826		1.600	490834.347		ug/L	15227.265
39 K	3229.934034		1.569	23625167.785		ug/L	707925.205
44 Ca	16317.639360		1.590	3955390.458		ug/L	48369.900
> 45 Sc-1				483964.995		ug/L	467697.114
51 V	40.473390	0.344		324083.568		ug/L	-17188.401
52 Cr	34.032378	0.101		283181.982		ug/L	43700.177
55 Mn	26.457226	1.447		285964.597		ug/L	3939.583
57 Fe	12.549142	7.053		9199.802		ug/L	6563.304
59 Co	24.360056	1.811		183344.739		ug/L	70.668
60 Ni	23.296852	1.115		38362.493		ug/L	205.004
65 Cu	12.184266	1.587		24018.751		ug/L	201.670
66 Zn	24.332193	1.610		31356.359		ug/L	3569.482
> 72 Ge-1				588977.527		ug/L	592936.498
75 As	113.153344	1.175		155992.398		ug/L	-502.888
82 Se	87.878299	0.394		13037.031		ug/L	-70.642
97 Mo	51.088010	1.293		94064.956		ug/L	69.001
107 Ag	2.808514	1.070		22591.074		ug/L	109.002
111 Cd	2.620113	2.080		4693.818		ug/L	35.667
> 115 In-1				1007156.788		ug/L	994304.053
123 Sb	24.661834	0.218		114324.074		ug/L	235.401
135 Ba	98.748363	1.693		165509.243		ug/L	183.670
> 165 Ho-1				1301931.942		ug/L	1276105.159
205 Tl	92.963174	3.364		1734736.710		ug/L	1936.818
208 Pb	24.915300	1.526		632604.562		ug/L	3500.871
238 U	101.763185	2.590		1650505.444		ug/L	35.667
> 45 Sc-2				483964.995		ug/L	467697.114
53 Cr	13.306482	41.606		339204.128		ug/L	319041.768
54 Fe	58.152401	10.509		73503.411		ug/L	42890.999
61 Ni	26.670943	2.781		3081.697		ug/L	1069.051
63 Cu	12.250595	0.885		47385.936		ug/L	321.674
67 Zn	23.181044	3.994		26948.998		ug/L	21519.078
> 72 Ge				588977.527		ug/L	592936.498
77 Se	93.185768	4.680		23320.986		ug/L	13366.987
98 Mo	51.779999	0.443		245117.263		ug/L	95.062
109 Ag	3.720265	1.801		30021.482		ug/L	120.002
> 115 In-2				1007156.788		ug/L	994304.053
114 Cd	2.612137	2.371		10401.699		ug/L	53.748
121 Sb	25.143997	1.056		151036.407		ug/L	329.340
137 Ba	100.383711	1.609		283950.029		ug/L	281.339
> 165 Ho-2				1301931.942		ug/L	1276105.159
182 W	101.090907	2.205		596887.920		ug/L	457.679
183 W	100.758382	2.007		327107.525		ug/L	253.338
194 Pt	99.294105	2.447		461985.185		ug/L	76.668
195 Pt	99.210062	2.783		473224.650		ug/L	48.001
203 Tl	95.041571	2.247		745871.999		ug/L	780.029
206 Pb	24.607647	1.301		161880.031		ug/L	888.037
207 Pb	25.066037	1.082		137860.404		ug/L	745.027
> 45 Sc				483964.995		ug/L	467697.114
47 Ti	96.649766	0.976		65180.686		ug/L	647.355
86 Sr	485.577242	0.852		1101967.980		ug/L	151.307
88 Sr	501.616284	1.351		9772147.613		ug/L	1301.072
> 115 In				1007156.788		ug/L	994304.053
118 Sn	99.887549	0.522		517464.343		ug/L	357.341

[ 120 Sn 99.887286 0.677 697782.859 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
[> Sc-1	45	103.478	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
[ Zn	66		
[> Ge-1	72	89.332	
As	75		
[ Se	82		
[ Mo	97		
Ag	107		
Cd	111		
[> In-1	115	101.293	
[ Sb	123		
[ Ba	135		
[> Ho-1	165	102.024	
Tl	205		
Pb	208		
[ U	238		
[> Sc-2	45	103.478	
Cr	53		
Fe	54		
Ni	51		
Cu	63		
[ Zn	87		
[> Ge	72	89.332	
[ Se	77		
[ Mo	98		
Ag	109		
[> In-2	115	101.293	
Cd	114		
[ Sb	121		
[ Ba	137		
[> Ho-2	165	102.024	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
[ Pb	207		
[> Sc	45	103.478	
Tl	47		
Sr	88		
[ Sr	88		
[> In	115	101.293	
Sn	118		
[ Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPA4

Sample Date/Time: Thursday, May 24, 2007 14:53:38

Autosampler Position: 33

Dataset File: D:\Elandata\Dataset\052407m1\JWPA4.064

## Sample Result Summary

Mass	Analyte Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9	Be	0.012609	135.824		5.000	ug/L	3.000
10	B	258.212042	0.772		9191.381	ug/L	90.668
23	Na	29999.629830	2.261	1431945	13.216	ug/L	24909.622
24	Mg	5693.486711	0.580	1847687	6.743	ug/L	6273.773
27	Al	1.893712	3.141		24282.530	ug/L	15227.265
39	K	678.242368	1.705	5435857	1.155	ug/L	707925.205
44	Ca	13290.342305	1.503	3170387	7.80	ug/L	48369.900
>	45	Sc-1		474892	2.270	ug/L	467697.114
	51	V	16.295958	2.653	117611.109	ug/L	-17188.401
	52	Cr	23.726053	1.063	207159.329	ug/L	43700.177
	55	Mn	2.438552	0.772	29494.712	ug/L	3939.583
	57	Fe	-33.975088	4.370	266.158	ug/L	6563.304
	59	Co	0.096125	5.178	781.363	ug/L	70.668
	60	Ni	0.373139	7.222	807.698	ug/L	205.004
	65	Cu	0.302770	2.682	785.363	ug/L	201.670
	66	Zn	0.883805	7.523	4610.457	ug/L	3569.482
>	72	Ge-1		579880	5.17	ug/L	592936.498
	75	As	7.958259	8.609	10343.558	ug/L	-502.888
	82	Se	0.303777	71.529	-24.568	ug/L	-70.642
	97	Mo	1.003797	2.554	1903.146	ug/L	69.001
	107	Ag	0.001646	89.712	122.668	ug/L	109.002
	111	Cd	0.012736	30.188	58.334	ug/L	35.667
>	115	In-1		999892	9.24	ug/L	994304.053
	123	Sb	0.058812	19.529	506.903	ug/L	235.401
	135	Ba	2.359674	1.785	4098.296	ug/L	183.670
>	165	Ho-1		1289336	7.08	ug/L	1276105.159
	205	Tl	0.339841	41.794	8226.607	ug/L	1936.818
	208	Pb	0.007752	31.524	3730.896	ug/L	3500.871
	238	U	2.508391	1.539	40331.928	ug/L	35.667
>	45	Sc-2		474892	2.270	ug/L	467697.114
	53	Cr	36.795767	27.737	348562.842	ug/L	319041.768
	54	Fe	9.337092	69.946	48133.948	ug/L	42890.999
	61	Ni	2.456208	21.756	1264.069	ug/L	1069.051
	63	Cu	0.310572	8.431	1497.094	ug/L	321.674
	67	Zn	-1.195503	98.935	21613.556	ug/L	21519.078
>	72	Ge		579880	5.17	ug/L	592936.498
	77	Se	26.167547	34.780	15851.250	ug/L	13366.987
	98	Mo	1.026334	0.596	4917.217	ug/L	95.062
	109	Ag	0.008431	25.059	188.003	ug/L	120.002
>	115	In-2		999892	9.24	ug/L	994304.053
	114	Cd	0.014820	20.403	112.310	ug/L	53.748
	121	Sb	0.040367	7.095	571.350	ug/L	329.340
	137	Ba	2.443773	3.382	7123.848	ug/L	281.339
>	165	Ho-2		1289336	7.08	ug/L	1276105.159
	182	W	0.544780	9.232	3645.503	ug/L	457.679
	183	W	0.545369	12.131	2007.829	ug/L	253.338
	194	Pt	0.005538	37.452	103.001	ug/L	76.668
	195	Pt	0.009071	29.403	91.335	ug/L	48.001
	203	Tl	0.346331	42.795	3475.154	ug/L	780.029
	206	Pb	0.008307	80.473	951.041	ug/L	888.037
	207	Pb	0.006392	89.859	787.363	ug/L	745.027
>	45	Sc		474892	2.270	ug/L	467697.114
	47	Tl	0.612765	12.986	1058.717	ug/L	647.355
	86	Sr	428.617563	0.781	954481.915	ug/L	151.307
	88	Sr	440.081309	2.175	8412815.284	ug/L	1301.072
>	115	In		999892	9.24	ug/L	994304.053
	118	Sn	0.036633	13.834	547.683	ug/L	357.341

120 Sn 0.038151 33.595 756.013 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
[ B	10		
[ Na	23		
[ Mg	24		
[ Al	27		
[ K	39		
] Ca	44		
> Sc-1	45	101.538	
] V	51		
] Cr	52		
] Mn	55		
] Fe	57		
] Co	59		
] Ni	60		
] Cu	65		
] Zn	66		
> Ge-1	72	97.798	
] As	75		
] Se	82		
] Mo	97		
] Ag	107		
] Cd	111		
> In-1	115	100.562	
] Sb	123		
] Ba	135		
> Ho-1	165	101.037	
] Tl	205		
] Pb	208		
] U	238		
> Sc-2	45	101.538	
] Cr	53		
] Fe	54		
] Ni	61		
] Cu	63		
] Zn	67		
> Ge	72	97.798	
] Se	77		
] Mo	98		
] Ag	109		
> In-2	115	100.562	
] Cd	114		
] Sb	121		
] Ba	137		
> Ho-2	165	101.037	
] W	182		
] W	183		
] Pt	194		
] Pt	195		
] Tl	203		
] Pb	206		
] Pb	207		
> Sc	45	101.538	
] Tl	47		
] Sr	86		
] Sr	88		
> In	115	100.562	
] Sn	118		
] Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6

Sample Date/Time: Thursday, May 24, 2007 14:59:46

Autosampler Position: 7

Dataset File: D:\Elandata\Dataset\052407m1\QC Std 6.065

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	193.648225	1.905	29222.157	ug/L	3.000		
10 B	197.079837	1.092	6840.372	ug/L	90.668		
23 Na	1934.448208	1.641	8998423.983	ug/L	24909.622		
24 Mg	985.511918	2.380	3113981.766	ug/L	6273.773		
27 Al	1928.052375	1.839	8745930.700	ug/L	15227.265		
39 K	1907.269447	0.338	13593094.111	ug/L	707925.205		
44 Ca	1052.824780	0.974	288106.431	ug/L	48369.900		
> 45 Sc-1			461639.006	ug/L	467697.114		
51 V	185.139019	2.026	1474612.704	ug/L	-17188.401		
52 Cr	189.184844	0.470	1304913.270	ug/L	43700.177		
55 Mn	181.065575	1.023	1844003.984	ug/L	3939.583		
57 Fe	2046.828429	1.411	381143.538	ug/L	6563.304		
59 Co	183.520216	1.742	1317131.664	ug/L	70.668		
60 Ni	182.407015	0.772	285122.730	ug/L	205.004		
65 Cu	182.851733	1.191	341023.186	ug/L	201.670		
66 Zn	183.842169	1.035	202881.845	ug/L	3569.482		
> 72 Ge-1			574829.151	ug/L	592936.498		
75 As	189.692762	1.353	255526.743	ug/L	-502.888		
82 Se	186.606092	0.401	27094.648	ug/L	-70.642		
97 Mo	186.244971	1.313	332223.259	ug/L	69.001		
107 Ag	47.473570	1.546	368458.888	ug/L	109.002		
111 Cd	189.339139	2.376	326274.047	ug/L	35.667		
> 115 In-1			976327.493	ug/L	994304.053		
123 Sb	187.102953	1.661	839172.006	ug/L	235.401		
135 Ba	180.988929	1.663	296175.867	ug/L	183.670		
> 165 Ho-1			1271737.335	ug/L	1276105.159		
205 Tl	181.736739	1.486	3311862.699	ug/L	1936.818		
208 Pb	187.628118	1.719	4630646.824	ug/L	3500.871		
238 U	192.927978	0.746	3056971.043	ug/L	35.667		
> 45 Sc-2			461639.006	ug/L	467697.114		
53 Cr	177.320315	5.952	430154.978	ug/L	319041.768		
54 Fe	2002.383118	1.061	998684.005	ug/L	42890.999		
61 Ni	184.963219	1.162	14122.786	ug/L	1069.051		
63 Cu	183.337905	1.667	671973.152	ug/L	321.674		
67 Zn	175.925881	1.655	55128.384	ug/L	21519.078		
> 72 Ge			574829.151	ug/L	592936.498		
77 Se	203.969494	3.086	34419.651	ug/L	13366.987		
98 Mo	187.148356	1.283	858522.686	ug/L	95.062		
109 Ag	46.105250	0.285	359356.509	ug/L	120.002		
> 115 In-2			976327.493	ug/L	994304.053		
114 Cd	191.794846	1.047	736528.639	ug/L	53.748		
121 Sb	188.288440	0.715	1094284.812	ug/L	329.340		
137 Ba	183.569659	1.091	507029.221	ug/L	281.339		
> 165 Ho-2			1271737.335	ug/L	1276105.159		
182 W	185.392871	0.655	1069049.616	ug/L	457.679		
183 W	186.093243	0.905	589983.036	ug/L	253.338		
194 Pt	187.005977	0.328	850029.450	ug/L	76.668		
195 Pt	186.501616	1.663	869120.889	ug/L	48.001		
203 Tl	180.146701	0.395	1380579.920	ug/L	780.029		
206 Pb	192.195886	2.030	1228965.451	ug/L	888.037		
207 Pb	187.359566	1.528	1001719.669	ug/L	745.027		
> 45 Sc			461639.006	ug/L	467697.114		
47 Ti	191.488805	0.878	122551.642	ug/L	647.355		
86 Sr	188.953583	2.173	409085.180	ug/L	151.307		
88 Sr	187.554373	1.273	3486102.240	ug/L	1301.072		
> 115 In			976327.493	ug/L	994304.053		
118 Sn	189.168376	1.498	949547.256	ug/L	357.341		

[ 120 Sn 188.889479 0.423 1278705.360 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		96.824
B	10		98.540
Na	23		96.722
Mg	24		98.551
Al	27		96.403
K	39		95.363
Ca	44		105.282
> Sc-1	45	98.705	
V	51		92.570
Cr	52		94.592
Mn	55		90.533
Fe	57		102.341
Co	59		91.760
Ni	60		91.204
Cu	65		91.428
[ Zn	66		91.921
> Ge-1	72	96.946	
As	75		94.848
[ Se	82		93.303
Mo	97		93.122
Ag	107		94.947
Cd	111		94.970
> In-1	115	98.192	
[ Sb	123		93.551
[ Ba	135		90.494
> Ho-1	165	99.658	
Tl	205		90.868
Pb	208		93.814
[ U	238		96.464
> Sc-2	45	98.705	
Cr	53		88.860
Fe	54		100.119
Ni	61		92.482
Cu	63		91.689
[ Zn	67		87.963
> Ge	72	96.946	
[ Se	77		101.985
Mo	98		93.574
Ag	109		92.211
> In-2	115	98.192	
Cd	114		95.897
[ Sb	121		94.144
[ Ba	137		91.785
> Ho-2	165	99.658	
W	182		92.896
W	183		93.047
Pt	194		93.503
Pt	195		93.251
Tl	203		90.073
Pb	206		96.098
[ Pb	207		93.680
> Sc	45	98.705	
Ti	47		95.744
Sr	86		94.477
[ Sr	88		93.777
> In	115	98.192	
Sn	118		94.584
[ Sn	120		94.445

**QC Out Of Limits**

Analyte	Mass	Out of Limits	Message
Cr	53	Q	
Zn	67	Q	

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 7

Sample Date/Time: Thursday, May 24, 2007 15:06:23

Autosampler Position: 1

Dataset File: D:\Elandata\Dataset\052407m1\QC Std 7.066

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.013512	128.744		5.000		ug/L	3.000
10 B	7.284558	13.845		338.341		ug/L	90.668
23 Na	0.480854	11.585		26765.317		ug/L	24909.622
24 Mg	0.112541	6.156		6534.893		ug/L	6273.773
27 Al	0.068083	104.424		15298.341		ug/L	15227.265
39 K	-1.823641	59.246		685101.659		ug/L	707925.205
44 Ca	-8.518355	22.428		45711.145		ug/L	48369.900
> 45 Sc-1				460764.287		ug/L	467697.114
51 V	1.348623	31.408		-6108.609		ug/L	-17188.401
52 Cr	-0.706031	8.316		38352.804		ug/L	43700.177
55 Mn	-0.078737	10.769		3082.030		ug/L	3939.583
57 Fe	-2.405794	10.313		6026.211		ug/L	6563.304
59 Co	0.009734	46.936		139.335		ug/L	70.668
60 Ni	0.003938	272.346		208.004		ug/L	205.004
65 Cu	0.016349	64.486		229.004		ug/L	201.670
66 Zn	-0.201785	59.801		3297.414		ug/L	3569.482
> 72 Ge-1				573920.823		ug/L	592936.498
75 As	0.142711	242.787		-295.246		ug/L	-502.888
82 Se	-0.084128	295.258		-80.552		ug/L	-70.642
97 Mo	0.088504	36.870		226.004		ug/L	69.001
107 Ag	0.004762	35.531		144.336		ug/L	109.002
111 Cd	0.015792	67.946		62.334		ug/L	35.667
> 115 In-1				978534.227		ug/L	994304.053
123 Sb	0.040022	25.772		411.449		ug/L	235.401
135 Ba	0.012674	35.329		203.337		ug/L	183.670
> 165 Ho-1				1268800.859		ug/L	1276105.159
205 Tl	0.357292	35.470		8410.680		ug/L	1936.818
208 Pb	0.001112	773.414		3506.871		ug/L	3500.871
238 U	0.012998	29.593		240.671		ug/L	35.667
> 45 Sc-2				460764.287		ug/L	467697.114
53 Cr	-48.046013	11.414		283132.931		ug/L	319041.768
54 Fe	-0.297124	1839.117		42102.519		ug/L	42890.999
61 Ni	-0.483871	185.178		1018.713		ug/L	1069.051
63 Cu	0.012896	26.462		364.008		ug/L	321.674
67 Zn	-3.596866	51.056		20506.580		ug/L	21519.078
> 72 Ge				573920.823		ug/L	592936.498
77 Se	-22.970523	15.727		10525.848		ug/L	13366.987
98 Mo	0.099637	33.867		551.228		ug/L	95.062
109 Ag	0.017333	21.312		253.338		ug/L	120.002
> 115 In-2				978534.227		ug/L	994304.053
114 Cd	0.018767	21.040		125.062		ug/L	53.748
121 Sb	0.035721	25.254		532.015		ug/L	329.340
137 Ba	0.006527	172.304		297.673		ug/L	281.339
> 165 Ho-2				1268800.859		ug/L	1276105.159
182 W	0.275261	24.610		2036.836		ug/L	457.679
183 W	0.265018	24.726		1089.053		ug/L	253.338
194 Pt	0.007252	43.673		109.002		ug/L	76.668
195 Pt	0.013399	15.728		110.002		ug/L	48.001
203 Tl	0.353013	33.475		3469.808		ug/L	780.029
206 Pb	0.003124	266.791		902.704		ug/L	888.037
207 Pb	0.000591	1007.916		743.693		ug/L	745.027
> 45 Sc				460764.287		ug/L	467697.114
47 Ti	-0.050959	15.984		605.352		ug/L	647.355
86 Sr	-0.026149	115.242		92.760		ug/L	151.307
88 Sr	0.011043	33.848		1486.426		ug/L	1301.072
> 115 In				978534.227		ug/L	994304.053
118 Sn	0.043328	26.376		569.350		ug/L	357.341



[ 120 Sn 0.045849 17.152 791.653 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		1.351
[ B	10		728.456
[ Na	23		0.481
[ Mg	24		0.113
[ Al	27		0.066
[ K	39		-1.824
[ Ca	44		-8.518
> Sc-1	45	98.518	
[ V	51		134.862
[ Cr	52		-70.603
[ Mn	55		-7.874
[ Fe	57		-2.406
[ Co	59		0.973
[ Ni	60		0.394
[ Cu	65		1.635
[ Zn	68		-20.179
> Ge-1	72	96.793	
[ As	75		14.271
[ Se	82		-8.413
[ Mo	97		8.850
[ Ag	107		0.476
[ Cd	111		1.579
> In-1	115	98.414	
[ Sb	123		4.002
[ Ba	135		1.267
> Ho-1	165	99.428	
[ Tl	205		35.729
[ Pb	208		0.111
[ U	238		1.300
> Sc-2	45	98.518	
[ Cr	53		-4894.601
[ Fe	54		-0.297
[ Ni	61		-46.387
[ Cu	63		1.290
[ Zn	67		-359.687
> Ge	72	96.793	
[ Se	77		-2297.052
[ Mo	98		9.964
[ Ag	109		1.733
> In-2	115	98.414	
[ Cd	114		1.877
[ Sb	121		3.572
[ Ba	137		0.653
> Ho-2	165	99.428	
[ W	182		27.526
[ W	183		26.502
[ Pt	194		0.725
[ Pt	195		1.340
[ Tl	203		35.301
[ Pb	206		0.312
[ Pb	207		0.059
> Sc	45	98.518	
[ Tl	47		-5.098
[ Sr	86		-2.615
[ Sr	88		1.104
> In	115	98.414	
[ Sn	118		4.333
[ Sn	120		4.585

**QC Out Of Limits**

Analyte	Mass	Out of Limits Message
B	10	Q
V	51	Q
Cr	53	Q
Zn	67	Q
Se	77	Q

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPA5

Sample Date/Time: Thursday, May 24, 2007 15:12:59

Autosampler Position: 34

Dataset File: D:\Elandata\Dataset\052407m1\JWPA5.067

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.018124	56.341		5.667	ug/L	3.000	
10 B	68.290928	0.378		2417.229	ug/L	90.668	
23 Na	34240.478819	2.140		158117559.859	ug/L	24909.622	
24 Mg	8266.354456	2.254		25952069.036	ug/L	6273.773	
27 Al	48.606967	0.423		234006.674	ug/L	15227.265	
39 K	715.578823	1.939		5510340.160	ug/L	707925.205	
44 Ca	15557.096540	0.484		3582085.127	ug/L	48369.900	
> 45 Sc-1				459430.395	ug/L	467697.114	
51 V	-5.859774	10.278		-63855.901	ug/L	-17188.401	
52 Cr	389.737392	0.446		2629914.043	ug/L	43700.177	
55 Mn	0.669854	3.507		10645.072	ug/L	3939.583	
57 Fe	-2.731903	61.535		5949.736	ug/L	6563.304	
59 Co	0.044562	9.978		387.676	ug/L	70.668	
60 Ni	0.397755	1.185		819.698	ug/L	205.004	
65 Cu	0.160939	4.443		496.680	ug/L	201.670	
66 Zn	1.030812	9.078		4619.126	ug/L	3569.482	
> 72 Ge-1				574497.765	ug/L	592936.498	
75 As	2.039870	22.558		2265.911	ug/L	-502.888	
82 Se	0.113200	213.251		-51.915	ug/L	-70.642	
97 Mo	0.354421	6.662		699.357	ug/L	69.001	
107 Ag	0.013403	36.548		210.670	ug/L	109.002	
111 Cd	0.015109	15.857		61.001	ug/L	35.667	
> 115 In-1				975724.675	ug/L	994304.053	
123 Sb	0.040190	13.208		411.002	ug/L	235.401	
135 Ba	1.416046	1.404		2520.914	ug/L	183.670	
> 165 Ho-1				1282760.050	ug/L	1276105.159	
205 Tl	0.144496	35.981		4597.472	ug/L	1936.818	
208 Pb	0.006241	66.866		3673.886	ug/L	3500.871	
238 U	0.414223	0.383		6656.284	ug/L	35.667	
> 45 Sc-2				459430.395	ug/L	467697.114	
53 Cr	410.894230	3.882		579164.449	ug/L	319041.768	
54 Fe	47.516541	15.180		64707.978	ug/L	42890.999	
61 Ni	3.347523	18.522		1285.404	ug/L	1069.051	
63 Cu	0.304113	4.899		1424.752	ug/L	321.674	
67 Zn	-3.918317	22.448		20387.074	ug/L	21519.078	
> 72 Ge				574497.765	ug/L	592936.498	
77 Se	-42.363867	25.331		8497.032	ug/L	13366.987	
98 Mo	0.338016	1.071		1642.983	ug/L	95.062	
109 Ag	0.018093	36.924		258.338	ug/L	120.002	
> 115 In-2				975724.675	ug/L	994304.053	
114 Cd	0.015983	8.883		114.122	ug/L	53.748	
121 Sb	0.017209	17.034		423.010	ug/L	329.340	
137 Ba	1.467973	0.634		4370.379	ug/L	281.339	
> 165 Ho-2				1282760.050	ug/L	1276105.159	
182 W	0.129174	10.148		1210.730	ug/L	457.679	
183 W	0.126101	8.000		657.688	ug/L	253.338	
194 Pt	-0.001689	35.721		69.334	ug/L	76.668	
195 Pt	0.000584	155.233		51.001	ug/L	48.001	
203 Tl	0.150147	39.236		1942.156	ug/L	780.029	
206 Pb	0.008316	91.985		946.041	ug/L	888.037	
207 Pb	0.011734	47.319		812.031	ug/L	745.027	
> 45 Sc				459430.395	ug/L	467697.114	
47 Ti	1.736704	3.116		1736.456	ug/L	647.355	
86 Sr	393.430527	0.294		847609.711	ug/L	151.307	
88 Sr	397.122431	1.505		7344816.224	ug/L	1301.072	
> 115 In				975724.675	ug/L	994304.053	
118 Sn	0.013441	23.151		418.010	ug/L	357.341	

120 Sn 0.011840 26.410 559.452 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte Mass	int Std % Recovery	QC Std % Recovery
[ Be 9		
B 10		
Na 23		
Mg 24		
Al 27		
K 39		
Ca 44		
> Sc-1 45 98.232		
V 51		
Cr 52		
Mn 55		
Fe 57		
Co 59		
Ni 60		
Cu 65		
Zn 66		
> Ge-1 72 96.890		
As 75		
Se 82		
Mo 97		
Ag 107		
Cd 111		
> In-1 115 98.131		
Sb 123		
Ba 135		
> Ho-1 165 100.522		
Tl 205		
Pb 208		
U 238		
> Sc-2 45 98.232		
Cr 53		
Fe 54		
Ni 61		
Cu 63		
Zn 67		
> Ge 72 96.890		
Se 77		
Mo 98		
Ag 109		
> In-2 115 98.131		
Cd 114		
Sb 121		
Ba 137		
> Ho-2 165 100.522		
W 182		
W 183		
Pt 194		
Pt 196		
Tl 203		
Pb 206		
Pb 207		
> Sc 45 98.232		
Ti 47		
Sr 86		
Sr 88		
> In 115 98.131		
Sn 118		
Sn 120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPA6

Sample Date/Time: Thursday, May 24, 2007 15:19:07

Autosampler Position: 35

Dataset File: D:\Elandata\Dataset\052407m1\JWPA6.068

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
9 Be	0.014103	127.594	5.000	ug/L	3.000
10 B	68.462682	1.121	2398.559	ug/L	90.668
23 Na	33284.131092	3.864	152050415.086	ug/L	24909.622
24 Mg	8042.688605	3.560	24979301.849	ug/L	6273.773
27 Al	-0.742599	10.165	11490.402	ug/L	15227.265
39 K	711.647827	4.754	5424869.159	ug/L	707925.205
44 Ca	15033.844506	1.702	3427205.164	ug/L	48369.900
> 45 Sc-1			454744.859	ug/L	467697.114
51 V	-3.934747	15.656	-48004.046	ug/L	-17188.401
52 Cr	373.629623	2.465	2496491.706	ug/L	43700.177
55 Mn	-0.082729	7.658	3001.679	ug/L	3939.583
57 Fe	-32.752928	5.640	479.725	ug/L	6563.304
59 Co	0.030108	4.311	281.672	ug/L	70.668
60 Ni	0.348876	2.055	736.026	ug/L	205.004
65 Cu	0.111236	14.265	400.010	ug/L	201.670
66 Zn	0.789571	9.415	4313.694	ug/L	3569.482
> 72 Ge-1			564904.085	ug/L	592936.498
75 As	1.751401	18.953	1846.684	ug/L	-502.888
82 Se	-0.178507	117.042	-93.035	ug/L	-70.642
97 Mo	0.313649	4.094	618.020	ug/L	69.001
107 Ag	0.004368	56.065	139.002	ug/L	109.002
111 Cd	0.006608	64.265	45.667	ug/L	35.667
> 115 In-1			962027.894	ug/L	994304.053
123 Sb	0.029436	3.350	357.830	ug/L	235.401
135 Ba	0.936360	1.503	1663.780	ug/L	183.670
> 165 Ho-1			1234119.255	ug/L	1276105.159
205 Tl	0.082927	35.273	3341.098	ug/L	1936.818
208 Pb	-0.015663	12.014	3010.489	ug/L	3500.871
238 U	0.392877	1.438	6075.019	ug/L	35.667
> 45 Sc-2			454744.859	ug/L	467697.114
53 Cr	394.880150	5.793	562857.227	ug/L	319041.768
54 Fe	13.938040	66.024	48313.169	ug/L	42890.999
61 Ni	3.134227	22.105	1257.401	ug/L	1089.051
63 Cu	0.273659	5.529	1300.072	ug/L	321.674
67 Zn	-2.562914	119.318	20429.803	ug/L	21519.078
> 72 Ge			564904.085	ug/L	592936.498
77 Se	-52.400174	4.062	7319.242	ug/L	13386.987
98 Mo	0.312434	5.553	1503.714	ug/L	95.062
109 Ag	0.006158	23.070	163.336	ug/L	120.002
> 115 In-2			962027.894	ug/L	994304.053
114 Cd	0.011100	23.028	93.924	ug/L	53.748
121 Sb	0.009443	24.922	372.675	ug/L	329.340
137 Ba	0.938681	2.803	2786.300	ug/L	281.339
> 165 Ho-2			1234119.255	ug/L	1276105.159
182 W	0.072054	4.611	845.700	ug/L	457.679
183 W	0.076441	10.377	480.013	ug/L	253.338
194 Pt	-0.000728	244.818	71.001	ug/L	76.668
195 Pt	0.000429	306.919	48.334	ug/L	48.001
203 Tl	0.083217	32.310	1373.414	ug/L	780.029
206 Pb	-0.012928	52.529	778.362	ug/L	888.037
207 Pb	-0.018212	17.535	626.020	ug/L	745.027
> 45 Sc			454744.859	ug/L	467697.114
47 Ti	0.067580	33.515	671.689	ug/L	647.355
86 Sr	378.171274	2.672	806196.038	ug/L	151.307
88 Sr	389.471966	2.875	7127236.447	ug/L	1301.072
> 115 In			962027.894	ug/L	994304.053
118 Sn	0.006072	33.899	375.675	ug/L	357.341

[ 120 Sn 0.007487 15.527 522.765 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	97.231	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
Zn	66		
> Ge-1	72	95.272	
As	75		
Se	82		
Mo	97		
Ag	107		
Cd	111		
> In-1	115	96.754	
Sb	123		
Ba	135		
> Ho-1	165	96.710	
Tl	205		
Pb	208		
U	238		
> Sc-2	45	97.231	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
Zn	67		
> Ge	72	95.272	
Se	77		
Mo	98		
Ag	109		
> In-2	115	96.754	
Cd	114		
Sb	121		
Ba	137		
> Ho-2	165	96.710	
W	182		
W	183		
Pt	184		
Pt	195		
Tl	203		
Pb	206		
Pb	207		
> Sc	45	97.231	
Tl	47		
Sr	86		
Sr	88		
> In	115	96.754	
Sn	118		
Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPA7

Sample Date/Time: Thursday, May 24, 2007 15:25:16

Autosampler Position: 36

Dataset File: D:\Elandata\Dataset\052407m1\JWPA7.069

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.011062	65.346		4.667	ug/L	3.000	
10 B	64.157638	1.424		2301.208	ug/L	90.668	
23 Na	32382.836177	1.208		151162033.061	ug/L	24909.622	
24 Mg	7710.475105	2.124		24468430.193	ug/L	6273.773	
27 Al	2.381918	3.106		25972.181	ug/L	15227.265	
39 K	681.539261	0.884		5338788.873	ug/L	707925.205	
44 Ca	14255.094421	1.169		3322265.126	ug/L	48369.900	
> 45 Sc-1				464478.274	ug/L	467697.114	
51 V	-4.596576	17.960		-54313.717	ug/L	-17188.401	
52 Cr	361.333997	0.635		2468100.061	ug/L	43700.177	
55 Mn	-0.039012	26.994		3512.800	ug/L	3939.583	
57 Fe	-27.630158	4.807		1429.923	ug/L	6563.304	
59 Co	0.028211	8.271		274.005	ug/L	70.668	
60 Ni	0.361369	4.770		771.362	ug/L	205.004	
65 Cu	0.117464	10.273		420.677	ug/L	201.670	
66 Zn	0.753528	12.701		4366.378	ug/L	3569.482	
> 72 Ge-1				567067.234	ug/L	592936.498	
75 As	1.540639	18.449		1571.868	ug/L	-502.888	
82 Se	0.156124	252.637		-45.355	ug/L	-70.642	
97 Mo	0.297557	7.627		604.019	ug/L	69.001	
107 Ag	0.000847	219.717		114.668	ug/L	109.002	
111 Cd	0.005162	110.307		44.334	ug/L	35.867	
> 115 In-1				985182.426	ug/L	994304.053	
123 Sb	0.028353	13.762		361.582	ug/L	235.401	
135 Ba	0.929703	2.813		1707.119	ug/L	183.870	
> 165 Ho-1				1274441.904	ug/L	1276105.159	
205 Tl	0.039088	34.844		2648.607	ug/L	1936.818	
208 Pb	-0.023729	16.728		2909.145	ug/L	3500.871	
238 U	0.379771	1.538		6065.682	ug/L	35.667	
> 45 Sc-2				464478.274	ug/L	467697.114	
53 Cr	375.331029	1.916		562272.035	ug/L	319041.788	
54 Fe	14.401169	58.616		49499.803	ug/L	42890.999	
61 Ni	3.006238	22.317		1275.070	ug/L	1069.051	
63 Cu	0.237518	0.780		1195.062	ug/L	321.674	
67 Zn	-6.209062	27.377		20166.093	ug/L	21519.078	
> 72 Ge				567067.234	ug/L	592936.498	
77 Se	-51.507762	3.229		7437.835	ug/L	13366.987	
98 Mo	0.289698	2.631		1435.077	ug/L	95.062	
109 Ag	0.003954	40.967		150.002	ug/L	120.002	
> 115 In-2				985182.426	ug/L	994304.053	
114 Cd	0.009647	26.837		90.653	ug/L	53.748	
121 Sb	0.008711	40.687		377.342	ug/L	329.340	
137 Ba	0.943722	1.391		2891.988	ug/L	281.339	
> 165 Ho-2				1274441.904	ug/L	1276105.159	
182 W	0.044217	9.588		712.692	ug/L	457.679	
183 W	0.035724	23.499		366.675	ug/L	253.338	
194 Pt	-0.001470	252.179		70.001	ug/L	76.668	
195 Pt	0.000101	2157.478		48.334	ug/L	48.001	
203 Tl	0.039289	40.182		1081.052	ug/L	780.029	
206 Pb	-0.023888	16.769		733.693	ug/L	888.037	
207 Pb	-0.020500	31.810		634.020	ug/L	745.027	
> 45 Sc				464478.274	ug/L	467697.114	
47 Ti	0.140008	42.556		732.693	ug/L	647.355	
86 Sr	365.063499	0.765		795110.706	ug/L	151.307	
88 Sr	371.279346	0.814		6941907.283	ug/L	1301.072	
> 115 In				985182.426	ug/L	994304.053	
118 Sn	0.003822	178.281		373.342	ug/L	357.341	

[ 120 Sn -0.000594 182.366 480.106 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
B	10		
[ Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
[> Sc-1	45	99.312	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	58		
Ni	60		
[ Cu	65		
[ Zn	66		
[> Ge-1	72	95.637	
As	75		
[ Se	82		
[ Mo	97		
Ag	107		
Cd	111		
[> In-1	115	99.083	
[ Sb	123		
[ Ba	135		
[> Ho-1	165	99.870	
Tl	205		
Pb	208		
[ U	238		
[> Sc-2	45	99.312	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
[ Zn	67		
[> Ge	72	95.637	
[ Se	77		
[ Mo	98		
Ag	109		
[> In-2	115	99.083	
Cd	114		
[ Sb	121		
[ Ba	137		
[> Ho-2	165	99.870	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
[ Pb	207		
[> Sc	45	99.312	
Ti	47		
Sr	86		
[ Sr	86		
[> In	115	99.083	
Sn	118		
[ Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPA8

Sample Date/Time: Thursday, May 24, 2007 15:31:25

Autosampler Position: 37

Dataset File: D:\Elandata\Dataset\052407m1\JWPA8.070

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
9 Be	0.007195	161.870	4.000	ug/L	3.000
10 B	109.782622	1.105	3807.879	ug/L	90.668
23 Na	24683.155720	2.937	113269285.772	ug/L	24909.622
24 Mg	3871.613611	2.261	12081121.823	ug/L	6273.773
27 Al	-0.247529	10.323	13756.425	ug/L	15227.265
39 K	557.013462	2.231	4415467.533	ug/L	707925.205
44 Ca	9771.325254	1.796	2253433.481	ug/L	48369.900
> 45 Sc-1			456568.045	ug/L	467697.114
51 V	0.457593	152.874	-13119.501	ug/L	-17188.401
52 Cr	10.264983	1.326	110370.154	ug/L	43700.177
55 Mn	219.718741	1.306	2212266.537	ug/L	3939.583
57 Fe	612.558700	0.745	117306.411	ug/L	6563.304
58 Co	0.143120	3.599	1084.719	ug/L	70.668
60 Ni	0.342935	7.773	730.026	ug/L	205.004
65 Cu	0.211807	5.505	587.351	ug/L	201.670
66 Zn	0.972003	10.845	4526.763	ug/L	3569.482
> 72 Ge-1			564556.116	ug/L	592936.498
75 As	1.925513	13.940	2073.103	ug/L	-502.888
82 Se	0.166187	131.983	-43.553	ug/L	-70.642
97 Mo	1.168298	2.890	2119.845	ug/L	69.001
107 Ag	-0.000364	198.355	102.668	ug/L	109.002
111 Cd	0.009306	32.974	50.334	ug/L	35.667
> 115 In-1			962122.690	ug/L	994304.053
123 Sb	0.015513	10.246	296.385	ug/L	235.401
135 Ba	0.578976	0.107	1111.388	ug/L	183.670
> 165 Ho-1			1250792.013	ug/L	1276105.159
205 Tl	0.025896	45.082	2362.553	ug/L	1936.818
208 Pb	-0.001493	417.328	3394.857	ug/L	3500.871
238 U	0.854804	1.730	13356.041	ug/L	35.667
> 45 Sc-2			456568.045	ug/L	467697.114
53 Cr	-31.218907	15.376	291375.505	ug/L	319041.768
54 Fe	629.122466	1.380	339053.774	ug/L	42890.999
61 Ni	2.894318	23.188	1245.733	ug/L	1069.051
63 Cu	0.220701	0.826	1113.721	ug/L	321.674
67 Zn	-2.601222	52.575	20511.254	ug/L	21519.078
> 72 Ge			564556.116	ug/L	592936.498
77 Se	-42.559639	4.115	8329.751	ug/L	13366.987
98 Mo	1.190635	1.953	5473.609	ug/L	95.062
109 Ag	0.000242	292.492	118.002	ug/L	120.002
> 115 In-2			962122.690	ug/L	994304.053
114 Cd	0.011672	10.286	96.169	ug/L	53.748
121 Sb	-0.000334	1035.219	316.673	ug/L	329.340
137 Ba	0.595830	1.161	1893.478	ug/L	281.339
> 165 Ho-2			1250792.013	ug/L	1276105.159
182 W	0.038288	3.715	665.689	ug/L	457.679
183 W	0.028877	14.470	338.341	ug/L	253.338
194 Pt	-0.000626	431.706	72.334	ug/L	76.668
195 Pt	0.001739	165.363	55.001	ug/L	48.001
203 Tl	0.031167	42.897	999.712	ug/L	780.029
206 Pb	0.000143	8008.618	871.035	ug/L	888.037
207 Pb	0.004093	101.143	751.694	ug/L	745.027
> 45 Sc			456568.045	ug/L	467697.114
47 Ti	0.113408	29.443	703.358	ug/L	647.355
86 Sr	225.862499	0.193	483637.792	ug/L	151.307
88 Sr	227.678895	0.724	4185049.970	ug/L	1301.072
> 115 In			962122.690	ug/L	994304.053
118 Sn	-0.000811	347.761	341.674	ug/L	357.341



[ 120 Sn 0.003129 153.858 493.525 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	97.620	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
Zn	66		
> Ge-1	72	95.214	
As	75		
Se	82		
Mo	97		
Ag	107		
Cd	111		
> In-1	115	96.763	
Sb	123		
Ba	135		
> Ho-1	165	98.016	
Tl	205		
Pb	208		
U	238		
> Sc-2	45	97.620	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
Zn	67		
> Ge	72	95.214	
Se	77		
Mo	98		
Ag	109		
> In-2	115	96.763	
Cd	114		
Sb	121		
Ba	137		
> Ho-2	165	98.016	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
Pb	207		
> Sc	45	97.620	
Tl	47		
Sr	86		
Sr	88		
> In	115	96.763	
Sn	118		
Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPA9

Sample Date/Time: Thursday, May 24, 2007 15:37:34

Autosampler Position: 38

Dataset File: D:\Elandata\Dataset\052407m1\JWPA9.071

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.020614		1.560		6.000	ug/L	3.000
10 B	106.932704		2.261		3708.852	ug/L	90.668
23 Na	25329.570955		1.709	116155083.299		ug/L	24909.622
24 Mg	3936.229861		2.548	12273585.990		ug/L	6273.773
27 Al	-0.771960		8.972	11397.326		ug/L	15227.265
39 K	549.701628		1.176	4363494.688		ug/L	707925.205
44 Ca	8061.709327		0.828	1865952.867		ug/L	48369.900
> 45 Sc-1				456218.018		ug/L	467697.114
51 V	0.369318	121.686		-13809.166		ug/L	-17188.401
52 Cr	1.522503	13.912		52658.431		ug/L	43700.177
55 Mn	40.892665	0.473		414554.900		ug/L	3939.583
57 Fe	-3.547870	33.949		5761.530		ug/L	6563.304
59 Co	0.040391	3.748		355.341		ug/L	70.668
60 Ni	0.221051	7.762		541.349		ug/L	205.004
65 Cu	0.237968	10.361		635.021		ug/L	201.670
66 Zn	0.935503	2.323		4484.415		ug/L	3569.482
> 72 Ge-1				576206.843		ug/L	592936.498
75 As	1.202165	23.665		1134.117		ug/L	-502.888
82 Se	0.256844	120.623		-30.725		ug/L	-70.642
97 Mo	1.336557	1.053		2436.232		ug/L	69.001
107 Ag	0.000384	93.322		109.335		ug/L	109.002
111 Cd	0.010242	44.950		52.334		ug/L	35.667
> 115 In-1				970217.555		ug/L	994304.053
123 Sb	0.019172	19.601		315.137		ug/L	235.401
135 Ba	0.392860	6.826		817.032		ug/L	183.670
> 165 Ho-1				1258720.971		ug/L	1276105.159
205 Tl	0.018750	57.043		2249.534		ug/L	1936.818
208 Pb	-0.021433	14.291		2930.150		ug/L	3500.871
238 U	0.982309	0.629		15441.496		ug/L	35.667
> 45 Sc-2				456218.018		ug/L	467697.114
53 Cr	-36.132795	24.359		287992.432		ug/L	319041.768
54 Fe	19.289368	42.899		50935.852		ug/L	42890.999
61 Ni	1.716182	43.718		1162.392		ug/L	1069.051
63 Cu	0.243055	1.737		1193.728		ug/L	321.674
67 Zn	-1.352980	67.810		20732.574		ug/L	21519.078
> 72 Ge				576206.843		ug/L	592936.498
77 Se	-37.212714	8.374		9063.604		ug/L	13366.987
98 Mo	1.362152	0.874		6301.998		ug/L	95.062
109 Ag	-0.000995	156.677		109.335		ug/L	120.002
> 115 In-2				970217.555		ug/L	994304.053
114 Cd	0.006696	36.504		77.966		ug/L	53.748
121 Sb	0.004405	96.967		346.674		ug/L	329.340
137 Ba	0.410690	3.503		1399.416		ug/L	281.339
> 165 Ho-2				1258720.971		ug/L	1276105.159
182 W	0.035271	26.725		653.022		ug/L	457.679
183 W	0.027435	13.987		336.007		ug/L	253.338
194 Pt	-0.001841	28.637		67.334		ug/L	76.668
195 Pt	-0.000291	591.563		48.001		ug/L	48.001
203 Tl	0.022332	47.936		939.040		ug/L	780.029
206 Pb	-0.021686	32.505		739.027		ug/L	888.037
207 Pb	-0.025679	28.445		599.352		ug/L	745.027
> 45 Sc				456218.018		ug/L	467697.114
47 Ti	0.123451	47.009		709.025		ug/L	647.355
86 Sr	198.651234	0.966		425038.554		ug/L	151.307
88 Sr	199.962486	0.118		3672961.420		ug/L	1301.072
> 115 In				970217.555		ug/L	994304.053
118 Sn	0.002599	88.395		361.675		ug/L	357.341

L 120 Sn -0.000767 381.633 471.533 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	97.546	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
L Zn	66		
[> Ge-1	72	97.179	
As	75		
L Se	82		
[ Mo	97		
Ag	107		
Cd	111		
> In-1	115	97.578	
L Sb	123		
[ Ba	135		
> Ho-1	165	98.638	
Tl	205		
Pb	208		
L U	238		
[> Sc-2	45	97.546	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
L Zn	67		
[> Ge	72	97.179	
L Se	77		
[ Mo	98		
Ag	109		
> In-2	115	97.578	
Cd	114		
L Sb	121		
[ Ba	137		
> Ho-2	165	98.638	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
L Pb	207		
[> Sc	45	97.546	
Ti	47		
Sr	86		
L Sr	88		
[> In	115	97.578	
Sn	118		
L Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPCA

Sample Date/Time: Thursday, May 24, 2007 15:43:44

Autosampler Position: 39

Dataset File: D:\Elandata\Dataset\052407m1\JWPCA.072

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.011117	150.072		4.667	ug/L	3.000	
10 B	107.161952	3.121		3780.538	ug/L	90.668	
23 Na	24536.289830	1.743		114462074.382	ug/L	24909.622	
24 Mg	3786.572206	1.041		12009023.213	ug/L	6273.773	
27 Al	-0.481699	11.457		12913.630	ug/L	15227.265	
39 K	539.892068	1.077		4371477.991	ug/L	707925.205	
44 Ca	8162.470083	1.388		1920954.051	ug/L	48369.900	
> 45 Sc-1				464072.623	ug/L	467697.114	
51 V	1.078344	56.134		-8372.195	ug/L	-17188.401	
52 Cr	11.694870	5.382		121727.085	ug/L	43700.177	
55 Mn	63.212690	1.814		649595.465	ug/L	3939.583	
57 Fe	174.767514	1.740		38669.998	ug/L	6563.304	
59 Co	0.054757	5.744		465.012	ug/L	70.668	
60 Ni	0.232529	4.789		568.350	ug/L	205.004	
65 Cu	0.205625	5.944		585.685	ug/L	201.670	
66 Zn	0.808101	10.442		4421.728	ug/L	3569.482	
> 72 Ge-1				571940.159	ug/L	592936.498	
75 As	2.062634	21.796		2280.723	ug/L	-502.888	
82 Se	0.175315	303.609		-43.212	ug/L	-70.642	
97 Mo	1.299762	3.346		2369.887	ug/L	69.001	
107 Ag	0.000132	1507.965		107.335	ug/L	109.002	
111 Cd	0.008693	33.409		49.667	ug/L	35.667	
> 115 In-1				969681.317	ug/L	994304.053	
123 Sb	0.018139	20.593		310.355	ug/L	235.401	
135 Ba	0.427026	9.158		869.035	ug/L	183.670	
> 165 Ho-1				1254172.608	ug/L	1276105.159	
205 Tl	0.009755	176.383		2079.841	ug/L	1936.818	
208 Pb	-0.017045	15.346		3026.154	ug/L	3500.871	
238 U	0.950993	0.517		14895.911	ug/L	35.667	
> 45 Sc-2				464072.623	ug/L	467697.114	
53 Cr	-21.705193	25.864		302357.867	ug/L	319041.768	
54 Fe	194.250014	5.751		135775.500	ug/L	42890.999	
61 Ni	1.305763	85.688		1153.725	ug/L	1069.051	
63 Cu	0.217260	5.150		1119.055	ug/L	321.674	
67 Zn	-3.613364	47.291		20649.120	ug/L	21519.078	
> 72 Ge				571940.159	ug/L	592936.498	
77 Se	-24.480056	3.606		10332.978	ug/L	13366.987	
98 Mo	1.278337	1.464		5916.719	ug/L	95.062	
109 Ag	-0.000218	785.037		115.335	ug/L	120.002	
> 115 In-2				969681.317	ug/L	994304.053	
114 Cd	0.012477	7.632		100.002	ug/L	53.748	
121 Sb	-0.001706	146.708		311.340	ug/L	329.340	
137 Ba	0.432070	4.412		1452.755	ug/L	281.339	
> 165 Ho-2				1254172.608	ug/L	1276105.159	
182 W	0.018386	21.515		554.350	ug/L	457.679	
183 W	0.018637	52.549		307.340	ug/L	253.338	
194 Pt	-0.002169	101.589		65.667	ug/L	76.668	
195 Pt	0.000689	88.041		50.334	ug/L	48.001	
203 Tl	0.013863	87.694		871.702	ug/L	780.029	
206 Pb	-0.014404	10.305		782.029	ug/L	888.037	
207 Pb	-0.012507	47.358		666.356	ug/L	745.027	
> 45 Sc				464072.623	ug/L	467697.114	
47 Ti	0.130666	38.824		725.692	ug/L	647.355	
86 Sr	197.387790	1.861		429551.200	ug/L	151.307	
88 Sr	200.107919	1.679		3738583.696	ug/L	1301.072	
> 115 In				969681.317	ug/L	994304.053	
118 Sn	0.002383	285.567		360.342	ug/L	357.341	

120 Sn -0.002920 82.043 456.924 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	99.225	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
Zn	66		
> Ge-1	72	96.459	
As	75		
Se	82		
Mo	97		
Ag	107		
Cd	111		
> In-1	115	97.524	
Sb	123		
Ba	135		
> Ho-1	165	98.281	
Ti	205		
Pb	208		
U	238		
> Sc-2	45	99.225	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
Zn	67		
> Ge	72	96.459	
Se	77		
Mo	98		
Ag	109		
> In-2	115	97.524	
Cd	114		
Sb	121		
Ba	137		
> Ho-2	165	98.281	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
Pb	207		
> Sc	45	99.225	
Ti	47		
Sr	86		
Sr	88		
> In	115	97.524	
Sn	118		
Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPCD

Sample Date/Time: Thursday, May 24, 2007 15:49:51

Autosampler Position: 40

Dataset File: D:\Elandata\Dataset\052407m1\JWPCD.073

## Sample Result Summary

Mass	Analyte	Conc.	Mean	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9	Be	0.011144	90.611			4.667	ug/L	3.000
10	B	76.556394	1.500			2725.954	ug/L	90.668
23	Na	20622.261484	2.519			96191710.553	ug/L	24909.622
24	Mg	1583.683063	1.945			5026451.977	ug/L	6273.773
27	Al	7.843490	2.016			50810.053	ug/L	15227.265
39	K	344.380861	1.809			3042790.159	ug/L	707925.205
44	Ca	2505.001854	0.416			622836.838	ug/L	48369.900
>	45	Sc-1				464036.105	ug/L	467697.114
	51	V	0.786575	52.982		-10672.444	ug/L	-17188.401
	52	Cr	51.033301	1.224		385514.128	ug/L	43700.177
	55	Mn	0.466270	3.295		8672.052	ug/L	3939.583
	57	Fe	-2.016572	41.358		6140.390	ug/L	6563.304
	59	Co	0.014827	22.144		177.003	ug/L	70.668
	60	Ni	0.112695	1.372		380.342	ug/L	205.004
	65	Cu	0.082329	2.803		354.341	ug/L	201.670
	66	Zn	9.821463	1.479		14247.912	ug/L	3569.482
>	72	Ge-1				579861.471	ug/L	592936.498
	75	As	2.016519	12.925		2255.636	ug/L	-502.888
	82	Se	0.132833	246.687		-49.808	ug/L	-70.642
	97	Mo	0.598992	1.654		1126.056	ug/L	69.001
	107	Ag	-0.000015	11699.700		106.001	ug/L	109.002
	111	Cd	0.005221	70.128		43.667	ug/L	35.667
>	115	In-1				967568.834	ug/L	994304.053
	123	Sb	0.013801	25.333		290.402	ug/L	235.401
	135	Ba	0.515069	2.489		1021.713	ug/L	183.670
>	165	Ho-1				1267087.233	ug/L	1276105.159
	205	Tl	0.006912	131.339		2049.168	ug/L	1936.818
	208	Pb	-0.009538	10.405		3241.844	ug/L	3500.871
	238	U	0.236076	0.893		3762.533	ug/L	35.667
>	45	Sc-2				464036.105	ug/L	467697.114
	53	Cr	35.293869	10.821		339598.824	ug/L	319041.768
	54	Fe	8.115871	63.240		46445.283	ug/L	42890.999
	61	Ni	0.919051	54.743		1126.056	ug/L	1069.051
	63	Cu	0.178886	7.696		978.043	ug/L	321.674
	67	Zn	5.028230	31.819		22323.319	ug/L	21519.078
>	72	Ge				579861.471	ug/L	592936.498
	77	Se	-19.086163	13.005		11047.532	ug/L	13366.987
	98	Mo	0.605328	1.730		2844.668	ug/L	95.062
	109	Ag	0.000450	477.419		120.335	ug/L	120.002
>	115	In-2				967568.834	ug/L	994304.053
	114	Cd	0.009654	40.423		89.044	ug/L	53.748
	121	Sb	0.004315	15.606		345.341	ug/L	329.340
	137	Ba	0.534649	3.615		1750.125	ug/L	281.339
>	165	Ho-2				1267087.233	ug/L	1276105.159
	182	W	0.012234	8.836		524.682	ug/L	457.679
	183	W	0.004480	173.605		265.672	ug/L	253.338
	194	Pt	-0.001576	98.276		69.001	ug/L	76.668
	195	Pt	-0.000072	3874.187		47.334	ug/L	48.001
	203	Tl	0.011403	108.583		861.701	ug/L	780.029
	206	Pb	-0.008546	19.271		827.366	ug/L	888.037
	207	Pb	-0.008798	53.667		693.024	ug/L	745.027
>	45	Sc				464036.105	ug/L	467697.114
	47	Ti	0.300884	24.614		834.699	ug/L	647.355
	86	Sr	67.203659	2.375		146353.180	ug/L	151.307
	88	Sr	86.349467	1.259		1240476.490	ug/L	1301.072
>	115	In				967568.834	ug/L	994304.053
	118	Sn	-0.000251	1724.720		346.341	ug/L	357.341

[ 120 Sn -0.004541 44.645 444.964 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
[> Sc-1	45	99.217	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
[ Zn	66		
[> Ge-1	72	97.795	
As	75		
Se	82		
[ Mo	97		
Ag	107		
Cd	111		
[> In-1	115	97.311	
Sb	123		
[ Ba	135		
[> Ho-1	165	99.293	
Tl	205		
Pb	208		
[ U	238		
[> Sc-2	45	99.217	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
[ Zn	67		
[> Ge	72	97.795	
Se	77		
[ Mo	98		
Ag	109		
[> In-2	115	97.311	
Cd	114		
[ Sb	121		
[ Ba	137		
[> Ho-2	165	99.293	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
[ Pb	207		
[> Sc	45	99.217	
Ti	47		
Sr	88		
[ Sr	88		
[> In	115	97.311	
Sn	118		
[ Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPCF

Sample Date/Time: Thursday, May 24, 2007 15:55:53

Autosampler Position: 41

Dataset File: D:\Elandata\Dataset\052407m1\JWPCF.074

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.000055	11663.194			3.000	ug/L	3.000
10 B	73.035406	2.951			2613.265	ug/L	90.668
23 Na	20313.184339	1.635		95069776.860		ug/L	24909.622
24 Mg	1539.896128	2.300		4903774.170		ug/L	6273.773
27 Al	-0.766977	1.749		11657.538		ug/L	15227.265
39 K	340.509231	3.716		3026447.967		ug/L	707925.205
44 Ca	2457.316109	0.950		613990.588		ug/L	48369.900
> 45 Sc-1				465662.998		ug/L	467697.114
51 V	0.540073	53.596		-12733.502		ug/L	-17188.401
52 Cr	50.198942	1.339		381196.037		ug/L	43700.177
55 Mn	-0.045232	16.466		3458.120		ug/L	3939.583
57 Fe	-6.718489	20.785		5292.213		ug/L	6563.304
59 Co	0.008914	17.944		135.002		ug/L	70.668
60 Ni	0.089221	3.713		344.674		ug/L	205.004
65 Cu	0.077875	19.692		347.008		ug/L	201.670
66 Zn	0.885307	10.526		4521.427		ug/L	3569.482
> 72 Ge-1				584697.468		ug/L	592936.498
75 As	3.021807	9.561		3655.790		ug/L	-502.888
82 Se	0.094527	322.687		-55.580		ug/L	-70.642
97 Mo	0.589983	0.597		1108.054		ug/L	69.001
107 Ag	0.000752	18.474		111.668		ug/L	109.002
111 Cd	0.006850	9.412		46.334		ug/L	35.667
> 115 In-1				965886.027		ug/L	994304.053
123 Sb	0.016065	42.487		299.863		ug/L	235.401
135 Ba	0.427270	3.526		867.035		ug/L	183.670
> 165 Ho-1				1250423.660		ug/L	1276105.159
205 Tl	0.008025	200.714		2038.501		ug/L	1936.818
208 Pb	-0.024714	20.258		2829.804		ug/L	3500.871
238 U	0.227403	4.389		3576.817		ug/L	35.667
> 45 Sc-2				465662.998		ug/L	467697.114
53 Cr	38.508953	26.117		342839.539		ug/L	319041.768
54 Fe	3.224200	197.417		44241.763		ug/L	42890.999
61 Ni	0.182831	380.554		1077.051		ug/L	1069.051
63 Cu	0.156438	2.246		898.371		ug/L	321.674
67 Zn	-0.510613	403.395		21322.447		ug/L	21519.078
> 72 Ge				584697.468		ug/L	592936.498
77 Se	-17.331924	7.266		11325.721		ug/L	13366.987
98 Mo	0.604099	0.661		2833.927		ug/L	95.062
109 Ag	-0.001851	45.660		102.335		ug/L	120.002
> 115 In-2				965886.027		ug/L	994304.053
114 Cd	0.006496	44.211		76.878		ug/L	53.748
121 Sb	0.005896	87.797		353.675		ug/L	329.340
137 Ba	0.448458	1.574		1492.760		ug/L	281.339
> 165 Ho-2				1250423.660		ug/L	1276105.159
182 W	0.009622	89.190		502.681		ug/L	457.679
183 W	0.000437	536.535		249.671		ug/L	253.338
194 Pt	-0.000684	472.738		72.001		ug/L	76.668
195 Pt	-0.000142	735.978		46.334		ug/L	48.001
203 Tl	0.014210	87.007		870.369		ug/L	780.029
206 Pb	-0.026140	6.849		706.025		ug/L	888.037
207 Pb	-0.017680	47.285		636.687		ug/L	745.027
> 45 Sc				465662.998		ug/L	467697.114
47 Ti	0.064097	126.938		685.690		ug/L	647.355
86 Sr	65.467064	1.059		143071.963		ug/L	151.307
88 Sr	65.011422	2.406		1219478.288		ug/L	1301.072
> 115 In				965886.027		ug/L	994304.053
118 Sn	-0.003921	19.058		327.674		ug/L	357.341



[ 120 Sn -0.004742 46.986 442.977 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	99.565	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
Zn	66		
> Ge-1	72	98.610	
As	75		
Se	82		
Mo	97		
Ag	107		
Cd	111		
> In-1	115	97.142	
Sb	123		
Ba	135		
> Ho-1	165	97.988	
Tl	205		
Pb	208		
U	238		
> Sc-2	45	99.565	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
Zn	67		
> Ge	72	98.610	
Se	77		
Mo	98		
Ag	109		
> In-2	115	97.142	
Cd	114		
Sb	121		
Ba	137		
> Ho-2	165	97.988	
W	182		
W	183		
Pt	184		
Pt	195		
Tl	203		
Pb	206		
Pb	207		
> Sc	45	99.565	
Ti	47		
Sr	86		
Sr	88		
> In	115	97.142	
Sn	118		
Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPCG

Sample Date/Time: Thursday, May 24, 2007 16:01:57

Autosampler Position: 42

Dataset File: D:\Elandata\Dataset\052407m1\JWPCG.075

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	-0.000066	26478.009		3.000		ug/L	3.000
10 B	71.375151	3.410		2588.927		ug/L	90.668
23 Na	19563.280106	1.992		92741191.640		ug/L	24909.622
24 Mg	1491.100940	1.890		4810354.058		ug/L	6273.773
27 Al	1.653776	1.694		23006.743		ug/L	15227.265
39 K	337.107506	2.810		3042013.946		ug/L	707925.205
44 Ca	2390.335441	1.465		606253.805		ug/L	48369.900
> 45 Sc-1				471636.330		ug/L	467697.114
51 V	0.617736	63.945		-12238.008		ug/L	-17188.401
52 Cr	47.581581	2.130		368258.487		ug/L	43700.177
55 Mn	0.049641	17.036		4488.083		ug/L	3939.583
57 Fe	-4.854248	9.647		5710.489		ug/L	6563.304
59 Co	0.009726	25.067		142.669		ug/L	70.668
60 Ni	0.088294	8.247		347.674		ug/L	205.004
65 Cu	0.062126	1.029		321.674		ug/L	201.670
66 Zn	0.849064	9.232		4540.100		ug/L	3569.482
> 72 Ge-1				578684.560		ug/L	592936.498
75 As	1.930160	25.923		2129.517		ug/L	-502.888
82 Se	0.260334	279.742		-30.854		ug/L	-70.642
97 Mo	0.588704	3.327		1114.055		ug/L	69.001
107 Ag	0.001466	46.544		118.002		ug/L	109.002
111 Cd	0.002581	73.398		39.334		ug/L	35.667
> 115 In-1				973001.638		ug/L	994304.053
123 Sb	0.006005	92.596		257.153		ug/L	235.401
135 Ba	0.469346	5.327		941.707		ug/L	183.670
> 165 Ho-1				1259574.622		ug/L	1276105.159
205 Tl	-0.001893	620.782		1876.810		ug/L	1936.818
208 Pb	-0.023236	6.298		2887.808		ug/L	3500.871
238 U	0.225000	1.708		3566.481		ug/L	35.667
> 45 Sc-2				471636.330		ug/L	467697.114
53 Cr	37.422521	9.363		346566.866		ug/L	319041.768
54 Fe	2.502364	177.041		44473.703		ug/L	42890.999
61 Ni	0.486568	61.994		1113.054		ug/L	1069.051
63 Cu	0.140716	1.937		851.034		ug/L	321.674
67 Zn	-1.624221	28.521		21380.201		ug/L	21519.078
> 72 Ge				578684.560		ug/L	592936.498
77 Se	-14.963893	11.118		11460.691		ug/L	13366.987
98 Mo	0.573190	2.655		2713.494		ug/L	95.062
109 Ag	-0.001728	42.235		104.001		ug/L	120.002
> 115 In-2				973001.638		ug/L	994304.053
114 Cd	0.008992	9.654		87.000		ug/L	53.748
121 Sb	0.001510	104.567		331.007		ug/L	329.340
137 Ba	0.456063	4.144		1524.763		ug/L	281.339
> 165 Ho-2				1259574.622		ug/L	1276105.159
182 W	0.001059	710.971		457.679		ug/L	457.679
183 W	0.000100	4425.419		250.338		ug/L	253.338
194 Pt	-0.003564	49.188		59.667		ug/L	76.668
195 Pt	0.000419	503.125		49.334		ug/L	48.001
203 Tl	-0.000036	25557.485		769.362		ug/L	780.029
206 Pb	-0.020755	35.126		745.027		ug/L	888.037
207 Pb	-0.017632	12.766		642.021		ug/L	745.027
> 45 Sc				471636.330		ug/L	467697.114
47 Ti	0.148949	17.885		749.694		ug/L	647.355
86 Sr	64.063042	0.326		141811.279		ug/L	151.307
88 Sr	63.290314	0.536		1202688.995		ug/L	1301.072
> 115 In				973001.638		ug/L	994304.053
118 Sn	-0.007809	43.237		310.673		ug/L	357.341

[ 120 Sn -0.006995 15.763 430.972 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	100.842	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
[ Zn	66		
> Ge-1	72	97.586	
As	75		
[ Se	82		
[ Mo	97		
Ag	107		
Cd	111		
> In-1	115	97.858	
[ Sb	123		
[ Ba	135		
> Ho-1	165	98.705	
Tl	205		
Pb	208		
[ U	238		
> Sc-2	45	100.842	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
[ Zn	67		
> Ge	72	97.586	
[ Se	77		
[ Mo	98		
Ag	109		
> In-2	115	97.858	
Cd	114		
[ Sb	121		
[ Ba	137		
> Ho-2	165	98.705	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
[ Pb	207		
> Sc	45	100.842	
Tl	47		
Sr	66		
[ Sr	88		
> In	115	97.858	
Sn	118		
[ Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPKK

Sample Date/Time: Thursday, May 24, 2007 16:08:01

Autosampler Position: 43

Dataset File: D:\Elandata\Dataset\052407m1\JWPKK.076

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.009341	181.774		4.333		ug/L	3.000
10 B	135.811987	2.344		4713.825		ug/L	90.668
23 Na	32960.124375	0.933		152038092.492		ug/L	24909.622
24 Mg	5391.047684	2.116		16909304.272		ug/L	6273.773
27 Al	-0.290873	21.313		13631.638		ug/L	15227.265
39 K	468.091699	0.974		3840911.778		ug/L	707925.205
44 Ca	12012.164694	1.470		2773687.563		ug/L	48369.900
> 45 Sc-1				458935.649		ug/L	467697.114
51 V	-3.221523	33.083		-42680.560		ug/L	-17188.401
52 Cr	240.867893	0.447		1639963.166		ug/L	43700.177
55 Mn	1.978072	0.636		23850.799		ug/L	3939.583
57 Fe	-25.331435	7.219		1831.332		ug/L	6563.304
59 Co	0.027839	4.478		268.005		ug/L	70.668
60 Ni	0.322566	6.057		702.024		ug/L	205.004
65 Cu	0.128685	3.475		436.344		ug/L	201.670
66 Zn	1.021309	2.605		4603.788		ug/L	3569.482
> 72 Ge-1				575985.395		ug/L	592936.498
75 As	1.831375	14.545		1987.134		ug/L	-502.888
82 Se	0.111839	147.475		-52.207		ug/L	-70.642
97 Mo	0.236369	3.679		479.346		ug/L	69.001
107 Ag	0.000813	179.993		111.002		ug/L	109.002
111 Cd	0.005355	58.781		43.334		ug/L	35.667
> 115 In-1				956572.118		ug/L	994304.053
123 Sb	0.017573	15.479		303.591		ug/L	235.401
135 Ba	0.691452	1.946		1279.737		ug/L	183.670
> 165 Ho-1				1238756.950		ug/L	1276105.159
205 Tl	-0.002378	646.465		1836.471		ug/L	1936.818
208 Pb	-0.025068	15.604		2795.467		ug/L	3500.871
238 U	0.551476	2.270		8545.641		ug/L	35.667
> 45 Sc-2				458935.649		ug/L	467697.114
53 Cr	264.489560	4.577		483936.197		ug/L	319041.768
54 Fe	11.294630	47.145		47440.908		ug/L	42890.999
61 Ni	2.574445	29.384		1230.065		ug/L	1069.051
63 Cu	0.262420	1.522		1271.403		ug/L	321.674
67 Zn	-0.909068	206.204		20940.213		ug/L	21519.078
> 72 Ge				575985.395		ug/L	592936.498
77 Se	-28.790092	20.022		9952.626		ug/L	13366.987
98 Mo	0.227881	4.066		1115.372		ug/L	95.062
109 Ag	-0.001979	4.971		100.335		ug/L	120.002
> 115 In-2				956572.118		ug/L	994304.053
114 Cd	0.004371	55.579		68.128		ug/L	53.748
121 Sb	0.005064	2.731		345.674		ug/L	329.340
137 Ba	0.708702	2.402		2178.521		ug/L	281.339
> 165 Ho-2				1238756.950		ug/L	1276105.159
182 W	0.004012	80.109		466.679		ug/L	457.679
183 W	0.000150	1590.928		246.338		ug/L	253.338
194 Pt	-0.000096	1631.901		74.001		ug/L	76.668
195 Pt	0.007434	7.781		80.334		ug/L	48.001
203 Tl	0.001265	1144.717		766.028		ug/L	780.029
206 Pb	-0.023538	16.912		715.358		ug/L	888.037
207 Pb	-0.020434	24.544		616.686		ug/L	745.027
> 45 Sc				458935.649		ug/L	467697.114
47 Ti	0.131838	47.587		718.692		ug/L	647.355
86 Sr	283.822261	0.885		610832.115		ug/L	151.307
88 Sr	289.472723	1.357		5347900.379		ug/L	1301.072
> 115 In				956572.118		ug/L	994304.053
118 Sn	-0.005195	58.808		318.340		ug/L	357.341

[ 120 Sn -0.007680 86.820 418.842 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte Mass	Int Std % Recovery	QC Std % Recovery
[ Be 9		
[ B 10		
[ Na 23		
[ Mg 24		
[ Al 27		
[ K 39		
[ Ca 44		
> Sc-1 45	98.127	
[ V 51		
[ Cr 52		
[ Mn 55		
[ Fe 57		
[ Co 59		
[ Ni 60		
[ Cu 65		
[ Zn 66		
> Ge-1 72	97.141	
[ As 75		
[ Se 82		
[ Mo 97		
[ Ag 107		
[ Cd 111		
> In-1 115	96.205	
[ Sb 123		
[ Ba 135		
> Ho-1 165	97.073	
[ Tl 205		
[ Pb 208		
[ U 238		
> Sc-2 45	98.127	
[ Cr 53		
[ Fe 54		
[ Ni 61		
[ Cu 63		
[ Zn 67		
> Ge 72	97.141	
[ Se 77		
[ Mo 98		
[ Ag 109		
> in-2 115	96.205	
[ Cd 114		
[ Sb 121		
[ Ba 137		
> Ho-2 165	97.073	
[ W 182		
[ W 183		
[ Pt 194		
[ Pt 195		
[ Tl 203		
[ Pb 206		
[ Pb 207		
> Sc 45	98.127	
[ Tl 47		
[ Sr 86		
[ Sr 88		
> in 115	96.205	
[ Sn 118		
[ Sn 120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6

Sample Date/Time: Thursday, May 24, 2007 16:14:08

Autosampler Position: 7

Dataset File: D:\Elandata\Dataset\052407m1\QC Std 6.077

## Sample Result Summary

Mass	Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9	Be	192.954787	0.450	29057.480	ug/L	3.000			
10	B	189.643373	2.733	6572.578	ug/L	90.668			
23	Na	1982.774141	1.882	9203684.226	ug/L	24909.622			
24	Mg	1018.598506	2.647	3211848.256	ug/L	6273.773			
27	Al	1994.930912	2.262	9030019.039	ug/L	15227.265			
39	K	1968.272899	0.841	13976684.924	ug/L	707925.205			
44	Ca	1081.520685	0.553	294034.056	ug/L	48369.900			
>	45 Sc-1			460682.029	ug/L	467697.114			
51	V	188.677927	1.128	1500102.793	ug/L	-17188.401			
52	Cr	193.963581	0.653	1334022.768	ug/L	43700.177			
55	Mn	188.562469	1.168	1916255.739	ug/L	3939.583			
57	Fe	2113.627163	1.235	392560.248	ug/L	6563.304			
59	Co	191.617494	0.994	1372354.117	ug/L	70.668			
60	Ni	186.949400	0.852	291616.297	ug/L	205.004			
65	Cu	188.793698	1.429	351385.055	ug/L	201.670			
66	Zn	189.801869	1.464	208916.441	ug/L	3569.482			
>	72 Ge-1			566387.472	ug/L	592936.498			
75	As	198.091104	1.891	262955.016	ug/L	-502.888			
82	Se	193.662985	2.023	27707.166	ug/L	-70.642			
97	Mo	195.210219	2.340	342991.207	ug/L	69.001			
107	Ag	49.434395	3.413	377851.575	ug/L	109.002			
111	Cd	194.619107	2.348	330347.661	ug/L	35.667			
>	115 In-1			961730.558	ug/L	994304.053			
123	Sb	194.243603	1.101	858188.259	ug/L	235.401			
135	Ba	189.113381	2.132	305762.798	ug/L	183.670			
>	165 Ho-1			1256627.708	ug/L	1276105.159			
205	Tl	186.832104	2.670	3363550.375	ug/L	1936.818			
208	Pb	192.170601	2.507	4686079.253	ug/L	3500.871			
238	U	198.712559	4.019	3110612.485	ug/L	35.667			
>	45 Sc-2			460682.029	ug/L	467697.114			
53	Cr	169.943402	4.862	424482.219	ug/L	319041.768			
54	Fe	2102.894405	1.914	1044519.992	ug/L	42890.999			
61	Ni	186.665432	1.109	14213.543	ug/L	1069.051			
63	Cu	188.558217	0.609	689709.594	ug/L	321.674			
67	Zn	181.398570	1.340	56068.379	ug/L	21519.078			
>	72 Ge			566387.472	ug/L	592936.498			
77	Se	188.970746	2.204	32355.558	ug/L	13366.987			
98	Mo	196.126537	1.695	886174.779	ug/L	95.062			
109	Ag	48.588907	2.577	372948.209	ug/L	120.002			
>	115 In-2			961730.558	ug/L	994304.053			
114	Cd	198.676542	2.548	751479.840	ug/L	53.748			
121	Sb	195.528852	1.700	1119293.905	ug/L	329.340			
137	Ba	191.346713	1.708	522174.377	ug/L	281.339			
>	165 Ho-2			1256627.708	ug/L	1276105.159			
182	W	189.392752	2.518	1078999.165	ug/L	457.679			
183	W	190.822457	2.459	597711.744	ug/L	253.338			
194	Pt	192.338633	2.482	863764.432	ug/L	76.668			
195	Pt	191.072027	1.941	879745.274	ug/L	48.001			
203	Tl	185.781313	3.838	1406403.049	ug/L	780.029			
206	Pb	195.751801	1.735	1236762.981	ug/L	888.037			
207	Pb	190.770723	1.974	1007788.096	ug/L	745.027			
>	45 Sc			460682.029	ug/L	467697.114			
47	Ti	198.344660	1.761	126662.121	ug/L	647.355			
86	Sr	192.691210	0.657	416344.984	ug/L	151.307			
88	Sr	193.255372	1.407	3584658.345	ug/L	1301.072			
>	115 In			961730.558	ug/L	994304.053			
118	Sn	194.764007	1.931	962947.610	ug/L	357.341			

[ 120 Sn 194.799730 1.699 1298805.298 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte Mass	Int Std % Recovery	QC Std % Recovery
[ Be 9		96.477
B 10		94.822
Na 23		99.139
Mg 24		101.880
Al 27		99.747
K 39		98.414
Ca 44		108.152
> Sc-1 45	98.500	
V 51		94.339
Cr 52		96.982
Mn 55		94.281
Fe 57		105.681
Co 58		95.809
Ni 60		93.475
Cu 65		94.387
Zn 68		94.901
> Ge-1 72	95.522	
As 75		99.046
Se 82		96.831
Mo 97		97.805
Ag 107		98.869
Cd 111		97.310
> In-1 115	96.724	
Sb 123		97.122
Ba 135		94.557
> Ho-1 165	98.474	
Tl 205		93.416
Pb 208		96.085
U 238		99.356
> Sc-2 45	98.500	
Cr 53		94.972
Fe 54		105.145
Ni 61		93.333
Cu 63		94.279
Zn 67		90.699
> Ge 72	95.522	
Se 77		94.485
Mo 98		98.063
Ag 109		97.178
> In-2 115	96.724	
Cd 114		99.338
Sb 121		97.764
Ba 137		95.673
> Ho-2 165	98.474	
W 182		94.696
W 183		95.411
Pt 194		96.169
Pt 195		95.536
Tl 203		92.891
Pb 206		97.876
Pb 207		95.385
> Sc 45	98.500	
Ti 47		99.172
Sr 86		96.346
Sr 88		96.628
> In 115	96.724	
Sn 118		97.382
Sn 120		97.400

**QC Out Of Limits**

Analyte Mass Out of Limits Message  
 Cr 53 Q

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 7

Sample Date/Time: Thursday, May 24, 2007 16:20:45

Autosampler Position: 1

Dataset File: D:\Elandata\Dataset\052407m1\QC Std 7.078

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.019735	87.399		6.000	ug/L	3.000	
10 B	3.421180	33.860		208.670	ug/L	90.668	
23 Na	0.264717	7.623		26055.000	ug/L	24909.622	
24 Mg	-0.028796	32.063		6158.389	ug/L	6273.773	
27 Al	-0.511786	7.784		12831.223	ug/L	15227.265	
39 K	-2.667406	49.289		687054.665	ug/L	707925.205	
44 Ca	-16.725189	1.852		44333.127	ug/L	48369.900	
> 45 Sc-1				465928.248	ug/L	467697.114	
51 V	0.849149	80.242		-10230.146	ug/L	-17188.401	
52 Cr	-1.194336	5.230		35494.733	ug/L	43700.177	
55 Mn	-0.110374	6.191		2792.301	ug/L	3939.583	
57 Fe	-2.681182	24.999		6043.141	ug/L	6563.304	
59 Co	0.005563	19.852		110.668	ug/L	70.668	
60 Ni	0.008252	232.118		217.337	ug/L	205.004	
65 Cu	-0.005947	130.353		189.670	ug/L	201.670	
66 Zn	-0.436391	10.020		3078.362	ug/L	3569.482	
> 72 Ge-1				585859.156	ug/L	592936.498	
75 As	0.189007	148.082		-236.244	ug/L	-502.888	
82 Se	0.114920	261.357		-52.761	ug/L	-70.642	
97 Mo	0.084870	35.248		223.337	ug/L	69.001	
107 Ag	0.007496	37.464		168.336	ug/L	109.002	
111 Cd	0.009470	89.044		52.334	ug/L	35.667	
> 115 In-1				994541.169	ug/L	994304.053	
123 Sb	0.035395	24.975		397.254	ug/L	235.401	
135 Ba	-0.004848	57.340		176.670	ug/L	183.670	
> 165 Ho-1				1282966.416	ug/L	1276105.159	
205 Tl	0.291220	39.673		7318.732	ug/L	1936.818	
208 Pb	-0.008597	58.033		3306.851	ug/L	3500.871	
238 U	0.009685	25.168		191.003	ug/L	35.667	
> 45 Sc-2				465928.248	ug/L	467697.114	
53 Cr	-67.432185	4.567		273596.557	ug/L	319041.768	
54 Fe	-3.792697	117.840		40895.319	ug/L	42890.999	
61 Ni	-0.232475	305.639		1048.382	ug/L	1069.051	
63 Cu	-0.000841	375.468		317.340	ug/L	321.674	
67 Zn	-4.428691	26.201		20576.348	ug/L	21519.078	
> 72 Ge				585859.156	ug/L	592936.498	
77 Se	-41.343097	2.710		8774.702	ug/L	13366.987	
98 Mo	0.090502	36.129		518.375	ug/L	95.062	
109 Ag	0.021362	21.459		289.673	ug/L	120.002	
> 115 In-2				994541.169	ug/L	994304.053	
114 Cd	0.016867	27.056		119.781	ug/L	53.748	
121 Sb	0.030455	22.216		509.681	ug/L	329.340	
137 Ba	-0.002318	430.453		276.672	ug/L	281.339	
> 165 Ho-2				1282966.416	ug/L	1276105.159	
182 W	0.233884	24.603		1823.138	ug/L	457.679	
183 W	0.233268	27.369		1002.380	ug/L	253.338	
194 Pt	0.008100	34.989		114.335	ug/L	76.668	
195 Pt	0.010199	27.159		96.335	ug/L	48.001	
203 Tl	0.301752	41.299		3125.064	ug/L	780.029	
206 Pb	-0.005578	50.191		857.034	ug/L	888.037	
207 Pb	-0.011667	39.805		686.357	ug/L	745.027	
> 45 Sc				465928.248	ug/L	467697.114	
47 Ti	-0.077545	35.945		595.018	ug/L	647.355	
86 Sr	0.022696	89.264		200.167	ug/L	151.307	
88 Sr	0.002951	42.510		1351.411	ug/L	1301.072	
> 115 In				994541.169	ug/L	994304.053	
118 Sn	0.031319	29.136		517.681	ug/L	357.341	



[ 120 Sn 0.035829 18.005 735.735 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		1.974
[ B	10		342.118
[ Na	23		0.285
[ Mg	24		-0.029
[ Al	27		-0.512
[ K	39		-2.887
[ Ca	44		-16.725
> Sc-1	45	99.622	
[ V	51		84.915
[ Cr	52		-119.434
[ Mn	55		-11.037
[ Fe	57		-2.681
[ Co	59		0.656
[ Ni	60		0.825
[ Cu	65		-0.595
[ Zn	66		-43.638
> Ge-1	72	98.806	
[ As	75		18.901
[ Se	82		11.492
[ Mo	97		8.487
[ Ag	107		0.750
[ Cd	111		0.947
> In-1	115	100.024	
[ Sb	123		3.540
[ Ba	135		-0.485
> Ho-1	165	100.538	
[ Tl	205		29.122
[ Pb	208		-0.860
[ U	238		0.989
> Sc-2	45	99.622	
[ Cr	53		-6743.219
[ Fe	54		-3.793
[ Ni	61		-23.248
[ Cu	63		-0.064
[ Zn	67		-442.869
> Ge	72	98.806	
[ Se	77		-4134.310
[ Mo	98		9.050
[ Ag	109		2.136
> In-2	115	100.024	
[ Cd	114		1.687
[ Sb	121		3.045
[ Ba	137		-0.232
> Ho-2	165	100.538	
[ W	182		23.388
[ W	183		23.327
[ Pt	194		0.810
[ Pt	196		1.020
[ Tl	203		30.175
[ Pb	206		-0.558
[ Pb	207		-1.167
> Sc	45	99.622	
[ Tl	47		-7.754
[ Sr	86		2.270
[ Sr	88		0.296
> In	115	100.024	
[ Sn	118		3.132
[ Sn	120		3.583

**QC Out Of Limits**

Analyte	Mass	Out of Limits Message
B	10	Q
Cr	52	Q
Cr	53	Q
Zn	67	Q
Se	77	Q

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPCN

Sample Date/Time: Thursday, May 24, 2007 16:27:19

Autosampler Position: 44

Dataset File: D:\Elandata\Dataset\052407m1\JWPCN.079

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.008959	87.742		4.333		ug/L	3.000
10 B	138.994223	3.696		4882.217		ug/L	90.668
23 Na	33061.705015	0.867		154433874.359		ug/L	24909.622
24 Mg	5500.241083	1.079		17469699.605		ug/L	6273.773
27 Al	15.200297	0.354		84425.602		ug/L	15227.265
39 K	471.820913	1.041		3914973.291		ug/L	707925.205
44 Ca	12333.918173	1.632		2882627.100		ug/L	48369.900
> 45 Sc-1				464746.134		ug/L	467697.114
51 V	-3.335732	43.754		-44048.151		ug/L	-17188.401
52 Cr	245.467598	0.563		1691608.671		ug/L	43700.177
55 Mn	2.547171	1.939		29972.376		ug/L	3939.583
57 Fe	-19.060872	5.858		3008.899		ug/L	6563.304
59 Co	0.032550	2.981		305.340		ug/L	70.668
60 Ni	0.315930	5.807		700.358		ug/L	205.004
65 Cu	0.126203	7.577		437.344		ug/L	201.670
66 Zn	0.817759	5.607		4440.068		ug/L	3589.482
> 72 Ge-1				579481.660		ug/L	592936.498
75 As	2.535296	8.278		2957.380		ug/L	-502.888
82 Se	0.168054	204.980		-44.463		ug/L	-70.642
97 Mo	0.284496	5.836		568.350		ug/L	69.001
107 Ag	0.005815	61.030		150.336		ug/L	109.002
111 Cd	0.009824	3.291		51.334		ug/L	35.667
> 115 In-1				964706.884		ug/L	994304.053
123 Sb	0.027649	26.482		350.884		ug/L	235.401
135 Ba	0.848934	4.455		1550.100		ug/L	183.670
> 165 Ho-1				1253956.642		ug/L	1276105.159
205 Tl	0.072852	34.603		3215.066		ug/L	1936.818
208 Pb	-0.011028	45.296		3171.502		ug/L	3500.871
238 U	0.577252	0.769		9053.625		ug/L	35.667
> 45 Sc-2				464746.134		ug/L	467697.114
53 Cr	230.467506	4.696		467783.764		ug/L	319041.768
54 Fe	21.091944	32.948		52738.611		ug/L	42890.999
61 Ni	2.522560	29.261		1241.733		ug/L	1069.051
63 Cu	0.264051	7.485		1293.072		ug/L	321.674
67 Zn	-4.654615	23.235		20479.875		ug/L	21519.078
> 72 Ge				579481.660		ug/L	592936.498
77 Se	-50.725780	16.272		7684.218		ug/L	13366.987
98 Mo	0.272595	3.498		1327.766		ug/L	95.062
109 Ag	0.009168	22.801		187.003		ug/L	120.002
> 115 In-2				964706.884		ug/L	994304.053
114 Cd	0.012561	12.632		99.816		ug/L	53.748
121 Sb	0.011810	15.974		387.342		ug/L	329.340
137 Ba	0.893277	2.043		2707.950		ug/L	281.339
> 165 Ho-2				1253956.642		ug/L	1276105.159
182 W	0.083522	14.541		925.039		ug/L	457.679
183 W	0.075854	11.863		486.013		ug/L	253.338
194 Pt	0.003578	36.773		91.335		ug/L	76.668
195 Pt	0.014504	153.849		114.002		ug/L	48.001
203 Tl	0.083738	38.066		1400.751		ug/L	780.029
206 Pb	-0.007711	125.897		824.032		ug/L	888.037
207 Pb	-0.009597	42.293		681.690		ug/L	745.027
> 45 Sc				464746.134		ug/L	467697.114
47 Ti	0.671562	10.466		1074.051		ug/L	647.355
86 Sr	290.874781	1.844		633871.183		ug/L	151.307
88 Sr	295.900469	1.844		5535428.339		ug/L	1301.072
> 115 In				964706.884		ug/L	994304.053
118 Sn	0.006650	29.734		379.676		ug/L	357.341

[ 120 Sn 0.011279 15.689 549.510 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
[> Sc-1	45	99.369	
V	51		
Cr	52		
Mn	56		
Fe	57		
Co	59		
Ni	60		
Cu	65		
[ Zn	66		
[> Ga-1	72	97.731	
As	75		
Se	82		
[ Mo	97		
Ag	107		
Cd	111		
[> In-1	115	97.023	
Sb	123		
[ Ba	136		
[> Ho-1	165	98.264	
Tl	206		
Pb	208		
[ U	238		
[> Sc-2	45	99.369	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
[ Zn	67		
[> Ge	72	97.731	
Se	77		
[ Mo	98		
Ag	109		
[> In-2	115	97.023	
Cd	114		
Sb	121		
[ Ba	137		
[> Ho-2	165	98.264	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
[ Pb	207		
[> Sc	45	99.369	
Ti	47		
Sr	86		
[ Sr	88		
[> In	115	97.023	
Sn	118		
[ Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPCP

Sample Date/Time: Thursday, May 24, 2007 16:33:24

Autosampler Position: 45

Dataset File: D:\Elandata\Dataset\052407m1\JWPCP.080

## Sample Result Summary

Mass	Analyte	Conc.	Mean	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9	Be	-0.005257	171.985			2.333	ug/L	3.000
10	B	4.180595	13.364			248.338	ug/L	90.688
23	Na	478.872202	3.264			2394178.365	ug/L	24909.622
24	Mg	127.047858	2.333			433716.440	ug/L	6273.773
27	Al	67.693487	3.033			342759.270	ug/L	15227.265
39	K	79.919013	6.915			1320897.159	ug/L	707925.205
44	Ca	571.139604	4.093			189876.844	ug/L	48369.900
>	45	Sc-1				492334.758	ug/L	467697.114
	51	V	-0.090441	925.035		-18817.741	ug/L	-17188.401
	52	Cr	2.508415	14.845		63818.650	ug/L	43700.177
	55	Mn	89.781515	3.342		976672.334	ug/L	3939.583
	57	Fe	70.104927	6.171		20579.500	ug/L	6563.304
	59	Co	1.281083	4.864		9870.508	ug/L	70.668
	60	Ni	1.082520	4.826		2018.163	ug/L	205.004
	65	Cu	0.881044	4.043		1962.488	ug/L	201.670
	66	Zn	12.078519	3.575		17717.824	ug/L	3569.482
>	72	Ge-1				612118.379	ug/L	592936.498
	75	As	-0.041261	1084.866		-578.808	ug/L	-502.888
	82	Se	0.108634	220.882		-56.075	ug/L	-70.642
	97	Mo	0.078333	10.113		220.337	ug/L	69.001
	107	Ag	0.008124	15.210		180.670	ug/L	109.002
	111	Cd	0.045339	15.702		120.002	ug/L	35.667
>	115	In-1				1036532.658	ug/L	994304.053
	123	Sb	0.135622	8.406		890.761	ug/L	235.401
	135	Ba	5.320554	2.463		9461.894	ug/L	183.670
>	165	Ho-1				1354570.544	ug/L	1276105.159
	205	Tl	0.067285	30.226		3359.432	ug/L	1936.818
	208	Pb	0.302586	3.115		11662.319	ug/L	3500.871
	238	U	0.015668	15.908		302.340	ug/L	35.667
>	45	Sc-2				492334.758	ug/L	467697.114
	53	Cr	87.632585	35.006		396361.307	ug/L	319041.768
	54	Fe	146.916101	5.147		119925.021	ug/L	42890.999
	61	Ni	2.112017	16.727		1284.071	ug/L	1069.051
	63	Cu	0.876056	4.495		3759.532	ug/L	321.674
	67	Zn	52.615653	18.887		33449.534	ug/L	21519.078
>	72	Ge				612118.379	ug/L	592936.498
	77	Se	-8.956018	99.011		12796.517	ug/L	13366.987
	98	Mo	0.075612	1.391		467.382	ug/L	95.062
	109	Ag	0.013884	6.297		240.004	ug/L	120.002
>	115	In-2				1036532.658	ug/L	994304.053
	114	Cd	0.048481	5.374		253.589	ug/L	53.748
	121	Sb	0.126080	6.884		1120.722	ug/L	329.340
	137	Ba	5.506489	1.946		16488.344	ug/L	281.339
>	165	Ho-2				1354570.544	ug/L	1276105.159
	182	W	0.124568	5.825		1250.401	ug/L	457.679
	183	W	0.124611	12.892		689.024	ug/L	253.338
	194	Pt	0.002320	43.043		92.668	ug/L	76.668
	195	Pt	0.001281	94.349		57.334	ug/L	48.001
	203	Tl	0.069314	30.129		1392.416	ug/L	780.029
	206	Pb	0.301968	1.704		2997.678	ug/L	888.037
	207	Pb	0.296386	6.219		2476.239	ug/L	745.027
>	45	Sc				492334.758	ug/L	467697.114
	47	Ti	2.727395	0.582		2533.250	ug/L	647.355
	86	Sr	4.374213	1.059		10254.584	ug/L	151.307
	88	Sr	4.349598	3.779		87512.862	ug/L	1301.072
>	115	In				1036532.658	ug/L	994304.053
	118	Sn	0.157023	9.531		1208.397	ug/L	357.341

[ 120 Sn 0.159724 3.728 1656.696 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte Mass	Int Std % Recovery	QC Std % Recovery
[ Be 9		
B 10		
Na 23		
Mg 24		
Al 27		
K 39		
Ca 44		
> Sc-1 45	105.268	
V 51		
Cr 52		
Mn 55		
Fe 57		
Co 59		
Ni 60		
Cu 65		
[ Zn 66		
> Ge-1 72	103.235	
As 75		
[ Se 82		
[ Mo 97		
Ag 107		
Cd 111		
> In-1 115	104.247	
[ Sb 123		
[ Ba 135		
> Ho-1 165	106.149	
Tl 205		
Pb 208		
[ U 238		
> Sc-2 45	105.268	
Cr 53		
Fe 54		
Ni 61		
Cu 63		
[ Zn 67		
> Ge 72	103.235	
[ Se 77		
[ Mo 98		
Ag 109		
> In-2 115	104.247	
Cd 114		
[ Sb 121		
[ Ba 137		
> Ho-2 165	106.149	
W 182		
W 183		
Pt 194		
Pt 195		
Tl 203		
Pb 206		
[ Pb 207		
> Sc 45	105.268	
Tl 47		
Sr 86		
[ Sr 88		
> In 115	104.247	
Sn 118		
[ Sn 120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW3MAB

Sample Date/Time: Thursday, May 24, 2007 16:39:29

Autosampler Position: 46

Dataset File: D:\Elandata\Dataset\052407m1\JW3MAB.081

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.010746	54.852		5.000	ug/L	3.000	
10 B	1.019746	37.556		135.669	ug/L	90.668	
23 Na	2.616149	5.309		40038.778	ug/L	24909.622	
24 Mg	-0.365288	2.900		5495.445	ug/L	6273.773	
27 Al	5.251241	2.497		42310.661	ug/L	15227.265	
39 K	-5.605911	23.936		720465.630	ug/L	707925.205	
44 Ca	-20.814840	19.260		46867.901	ug/L	48369.900	
> 45 Sc-1				503308.184	ug/L	467697.114	
51 V	-0.748016	82.066		-25076.307	ug/L	-17188.401	
52 Cr	1.692944	15.051		59330.593	ug/L	43700.177	
55 Mn	0.064390	30.838		4952.576	ug/L	3939.583	
57 Fe	-1.035723	19.838		6856.484	ug/L	6563.304	
59 Co	0.004048	39.648		107.668	ug/L	70.668	
60 Ni	0.047941	28.658		302.340	ug/L	205.004	
65 Cu	0.097121	7.325		414.343	ug/L	201.670	
66 Zn	1.368003	2.108		5458.764	ug/L	3569.482	
> 72 Ge-1				620754.522	ug/L	592936.498	
75 As	-0.997434	19.684		-1981.019	ug/L	-502.888	
82 Se	0.167738	117.431		-47.478	ug/L	-70.642	
97 Mo	0.010553	71.076		95.335	ug/L	69.001	
107 Ag	0.003328	107.985		146.002	ug/L	109.002	
111 Cd	0.002562	198.411		43.334	ug/L	35.667	
> 115 In-1				1074291.390	ug/L	994304.053	
123 Sb	0.011828	19.066		312.779	ug/L	235.401	
135 Ba	0.049490	19.797		286.672	ug/L	183.670	
> 165 Ho-1				1381257.685	ug/L	1276105.159	
205 Tl	0.042109	43.989		2928.666	ug/L	1936.818	
208 Pb	-0.012548	10.325		3453.198	ug/L	3500.871	
238 U	-0.000210	150.657		35.000	ug/L	35.667	
> 45 Sc-2				503308.184	ug/L	467697.114	
53 Cr	100.378100	27.120		414387.908	ug/L	319041.768	
54 Fe	72.086207	2.946		83697.570	ug/L	42890.999	
61 Ni	0.215601	49.365		1167.059	ug/L	1069.051	
63 Cu	0.107618	1.644		776.029	ug/L	321.674	
67 Zn	43.958628	19.300		32382.710	ug/L	21519.078	
> 72 Ge				620754.522	ug/L	592936.498	
77 Se	3.795277	297.606		14431.182	ug/L	13366.987	
98 Mo	0.009803	33.902		152.078	ug/L	95.062	
109 Ag	0.005713	11.104		178.670	ug/L	120.002	
> 115 In-2				1074291.390	ug/L	994304.053	
114 Cd	0.007976	21.910		91.827	ug/L	53.748	
121 Sb	0.009979	27.613		419.677	ug/L	329.340	
137 Ba	0.045739	3.970		441.678	ug/L	281.339	
> 165 Ho-2				1381257.685	ug/L	1276105.159	
182 W	0.024813	33.117		650.688	ug/L	457.879	
183 W	0.020201	44.653		343.674	ug/L	253.338	
194 Pt	0.001358	120.695		89.668	ug/L	76.668	
195 Pt	0.000865	140.387		56.334	ug/L	48.001	
203 Tl	0.043140	43.523		1203.063	ug/L	780.029	
206 Pb	-0.009382	34.947		896.037	ug/L	888.037	
207 Pb	-0.013632	27.810		727.359	ug/L	745.027	
> 45 Sc				503308.184	ug/L	467697.114	
47 Ti	0.080998	107.727		752.694	ug/L	647.355	
86 Sr	0.018310	103.327		206.068	ug/L	151.307	
88 Sr	-0.000718	281.144		1385.748	ug/L	1301.072	
> 115 In				1074291.390	ug/L	994304.053	
118 Sn	0.122600	7.529		1062.717	ug/L	357.341	

120 Sn 0.109973 5.258 1346.700 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
[ B	10		
[ Na	23		
[ Mg	24		
[ Al	27		
[ K	39		
[ Ca	44		
> Sc-1	45	107.614	
[ V	51		
[ Cr	52		
[ Mn	55		
[ Fe	57		
[ Co	59		
[ Ni	80		
[ Cu	65		
[ Zn	86		
> Ge-1	72	104.692	
[ As	75		
[ Se	82		
[ Mo	97		
[ Ag	107		
[ Cd	111		
> In-1	115	108.045	
[ Sb	123		
[ Ba	135		
> Ho-1	165	108.240	
[ Tl	205		
[ Pb	208		
[ U	238		
> Sc-2	45	107.614	
[ Cr	53		
[ Fe	54		
[ Ni	61		
[ Cu	63		
[ Zn	67		
> Ge	72	104.692	
[ Se	77		
[ Mo	98		
[ Ag	109		
> In-2	115	108.045	
[ Cd	114		
[ Sb	121		
[ Ba	137		
> Ho-2	165	108.240	
[ W	182		
[ W	183		
[ Pt	194		
[ Pt	195		
[ Tl	203		
[ Pb	206		
[ Pb	207		
> Sc	45	107.614	
[ Tl	47		
[ Sr	86		
[ Sr	88		
> In	115	108.045	
[ Sn	118		
[ Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW3MAC

Sample Date/Time: Thursday, May 24, 2007 16:45:35

Autosampler Position: 47

Dataset File: D:\Elandata\Dataset\052407m1\JW3MAC.082

## Sample Result Summary

Mass Analyte	Conc.	MeanConc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	469.458067		1.485		75752.744	ug/L	3.000
10 B	942.122554		2.979		34600.867	ug/L	90.668
23 Na	9918.212040		3.063		49218174.050	ug/L	24909.622
24 Mg	9926.592231		4.250		33470326.543	ug/L	6273.773
27 Al	500.911017		4.918		2440768.719	ug/L	15227.265
39 K	9615.446488		4.164		70243048.832	ug/L	707925.205
44 Ca	9914.877445		2.754		2471208.881	ug/L	48369.900
> 45 Sc-1					493759.051	ug/L	467697.114
51 V	453.192009		3.378		3885740.688	ug/L	-17188.401
52 Cr	465.522050		2.397		3365990.007	ug/L	43700.177
55 Mn	472.587784		3.217		5139133.593	ug/L	3939.583
57 Fe	492.473584		2.248		103321.362	ug/L	6563.304
59 Co	452.119303		2.344		3469479.148	ug/L	70.668
60 Ni	440.746885		2.317		736370.307	ug/L	205.004
65 Cu	435.848069		2.388		868903.175	ug/L	201.670
66 Zn	416.905503		2.608		487174.494	ug/L	3569.482
> 72 Ge-1					588380.615	ug/L	592936.498
75 As	495.244150		2.195		683516.845	ug/L	-502.888
82 Se	451.948121		3.332		67235.408	ug/L	-70.642
97 Mo	486.983367		3.135		925188.492	ug/L	69.001
107 Ag	119.026607		2.022		983964.943	ug/L	109.002
111 Cd	463.541362		1.321		850999.997	ug/L	35.667
> 115 In-1					1040110.920	ug/L	994304.053
123 Sb	446.287440		1.416		2132110.570	ug/L	235.401
135 Ba	443.978072		2.008		752004.655	ug/L	183.670
> 165 Ho-1					1316999.426	ug/L	1276105.159
205 Tl	470.593553		4.405		8872971.507	ug/L	1936.818
208 Pb	469.979315		3.247		12003927.511	ug/L	3500.871
238 U	980.870051		2.565		16092218.591	ug/L	35.667
> 45 Sc-2					493759.051	ug/L	467697.114
53 Cr	605.270942		3.642		757410.607	ug/L	319041.768
54 Fe	589.026703		1.329		346173.020	ug/L	42890.999
61 Ni	449.389608		2.805		35078.040	ug/L	1069.051
63 Cu	429.611287		3.329		1683165.089	ug/L	321.674
67 Zn	454.119326		2.913		116248.896	ug/L	21519.078
> 72 Ge					588380.615	ug/L	592936.498
77 Se	419.992459		1.349		58496.263	ug/L	13366.987
98 Mo	476.309881		2.198		2327363.157	ug/L	95.062
109 Ag	123.537327		0.628		1025520.868	ug/L	120.002
> 115 In-2					1040110.920	ug/L	994304.053
114 Cd	456.570381		1.219		1867813.273	ug/L	53.748
121 Sb	460.746791		2.319		2851850.725	ug/L	329.340
137 Ba	449.645521		0.747		1285661.715	ug/L	281.339
> 165 Ho-2					1316999.426	ug/L	1276105.159
182 W	931.182671		3.788		5556360.244	ug/L	457.679
183 W	921.553405		2.488		3023773.121	ug/L	253.338
194 Pt	884.431077		2.789		4161572.889	ug/L	76.668
195 Pt	890.419361		3.841		4295667.218	ug/L	48.001
203 Tl	453.950061		4.022		3599834.460	ug/L	780.029
206 Pb	466.993697		2.966		3090443.451	ug/L	888.037
207 Pb	472.579437		2.638		2614819.394	ug/L	745.027
> 45 Sc					493759.051	ug/L	467697.114
47 Ti	933.289803		2.731		636025.002	ug/L	647.355
86 Sr	455.591133		1.444		1054652.486	ug/L	151.307
88 Sr	468.534840		2.581		9310260.897	ug/L	1301.072
> 115 In					1040110.920	ug/L	994304.053
118 Sn	914.621783		0.683		4889802.305	ug/L	357.341



[ 120 Sn 929.364177 1.856 6699670.348 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte Mass	Int Std % Recovery	QC Std % Recovery
[ Be 9		
B 10		
Na 23		
Mg 24		
Al 27		
K 39		
Ca 44		
> Sc-1 45	105.572	
V 51		
Cr 52		
Mn 55		
Fe 57		
Co 59		
Ni 60		
Cu 65		
Zn 66		
> Ge-1 72	99.232	
As 75		
Se 82		
Mo 97		
Ag 107		
Cd 111		
> In-1 115	104.607	
Sb 123		
Ba 135		
> Ho-1 165	103.205	
Tl 205		
Pb 208		
U 238		
> Sc-2 45	106.572	
Cr 53		
Fe 54		
Ni 61		
Cu 63		
Zn 67		
> Ge 72	99.232	
Se 77		
Mo 98		
Ag 109		
> In-2 115	104.607	
Cd 114		
Sb 121		
Ba 137		
> Ho-2 165	103.205	
W 182		
W 183		
Pt 194		
Pt 195		
Tl 203		
Pb 206		
Pb 207		
> Sc 45	105.572	
Tl 47		
Sr 86		
Sr 88		
> In 115	104.607	
Sn 118		
Sn 120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWN8W

Sample Date/Time: Thursday, May 24, 2007 16:51:42

Autosampler Position: 48

Dataset File: D:\Elandata\Dataset\052407m1\JWN8W.083

## Sample Result Summary

Mass	Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9	Be	0.028876	66.693				7.333	ug/L	3.000
10	B	97.419697	3.397				3437.781	ug/L	90.668
23	Na	29971.984336	2.957			139563583.823		ug/L	24909.622
24	Mg	8417.095385	2.855			26644279.020		ug/L	6273.773
27	Al	98.806695	1.164			464058.403		ug/L	15227.265
39	K	502.489906	1.230			4110194.882		ug/L	707925.205
44	Ca	12771.888140	2.031			2973606.767		ug/L	48369.900
>	45 Sc-1					463220.838		ug/L	467697.114
51	V	1.872202	32.230			-1914.271		ug/L	-17188.401
52	Cr	-1.588306	5.795			32653.951		ug/L	43700.177
55	Mn	1.281427	2.994			16967.575		ug/L	3939.583
57	Fe	48.271261	3.762			15366.860		ug/L	6563.304
59	Co	0.071206	18.931			582.351		ug/L	70.668
60	Ni	0.371765	7.135			785.696		ug/L	205.004
65	Cu	0.336300	4.265			828.699		ug/L	201.670
66	Zn	1.647909	5.751			5328.047		ug/L	3569.482
>	72 Ge-1					572389.068		ug/L	592936.498
75	As	2.361216	15.184			2690.311		ug/L	-502.888
82	Se	0.290089	20.421			-26.181		ug/L	-70.642
97	Mo	0.692199	9.908			1289.738		ug/L	69.001
107	Ag	0.011500	34.090			194.337		ug/L	109.002
111	Cd	0.063459	12.283			143.002		ug/L	35.667
>	115 In-1					967706.813		ug/L	994304.053
123	Sb	0.061868	30.869			503.339		ug/L	235.401
135	Ba	1.512770	3.070			2667.943		ug/L	183.670
>	165 Ho-1					1276910.583		ug/L	1276105.159
205	Tl	0.668808	47.515			14187.325		ug/L	1936.818
208	Pb	0.080399	20.176			5495.469		ug/L	3500.871
238	U	1.011800	3.180			16135.276		ug/L	35.667
>	45 Sc-2					463220.838		ug/L	467697.114
53	Cr	-90.725855	4.569			256815.994		ug/L	319041.768
54	Fe	75.237258	12.793			78512.350		ug/L	42890.999
61	Ni	2.277847	33.742			1220.064		ug/L	1069.051
63	Cu	0.459126	6.514			2005.828		ug/L	321.674
67	Zn	-1.357119	160.223			21048.373		ug/L	21519.078
>	72 Ge					572389.068		ug/L	592936.498
77	Se	-65.144363	4.200			6082.314		ug/L	13366.987
98	Mo	0.706870	9.311			3303.590		ug/L	95.062
109	Ag	0.030044	27.672			348.341		ug/L	120.002
>	115 In-2					967706.813		ug/L	994304.053
114	Cd	0.061507	17.266			286.213		ug/L	53.748
121	Sb	0.044211	19.649			574.684		ug/L	329.340
137	Ba	1.560673	0.989			4607.456		ug/L	281.339
>	165 Ho-2					1276910.583		ug/L	1276105.159
182	W	0.507845	30.009			3400.124		ug/L	457.679
183	W	0.517982	32.165			1903.486		ug/L	253.338
194	Pt	0.041934	40.619			288.339		ug/L	76.668
195	Pt	0.043315	47.864			251.005		ug/L	48.001
203	Tl	0.670849	45.870			5947.432		ug/L	780.029
206	Pb	0.079820	24.700			1401.083		ug/L	888.037
207	Pb	0.084787	23.732			1200.729		ug/L	745.027
>	45 Sc					463220.838		ug/L	467697.114
47	Ti	3.834560	1.907			3090.699		ug/L	647.355
86	Sr	354.269559	0.996			769570.946		ug/L	151.307
88	Sr	358.983013	0.926			6693765.683		ug/L	1301.072
>	115 In					967706.813		ug/L	994304.053
118	Sn	0.111101	19.808			899.371		ug/L	357.341

[ 120 Sn 0.108879 30.597 1203.832 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	99.043	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
Zn	65		
> Ge-1	72	96.535	
As	75		
Se	82		
[ Mo	97		
Ag	107		
Cd	111		
> In-1	115	97.325	
[ Sb	123		
[ Ba	135		
> Ho-1	165	100.063	
Tl	205		
Pb	208		
[ U	238		
> Sc-2	45	99.043	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
[ Zn	67		
> Ge	72	96.535	
[ Se	77		
[ Mo	98		
Ag	109		
> In-2	115	97.325	
Cd	114		
[ Sb	121		
[ Ba	137		
> Ho-2	165	100.063	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	208		
[ Pb	207		
> Sc	45	99.043	
Ti	47		
Sr	86		
[ Sr	88		
> In	115	97.325	
Sn	118		
[ Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWN8WS

Sample Date/Time: Thursday, May 24, 2007 16:57:48

Autosampler Position: 49

Dataset File: D:\Elandata\Dataset\052407m1\JWN8WS.084

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
9 Be	0.449752	23.779	71.001	ug/L	3.000
10 B	108.259711	4.238	3811.214	ug/L	90.668
23 Na	30229.566440	1.808	140752329.081	ug/L	24909.622
24 Mg	9025.414894	1.752	28568914.098	ug/L	6273.773
27 Al	138.243194	1.460	643271.174	ug/L	15227.265
39 K	1022.995068	1.025	7641402.086	ug/L	707925.205
44 Ca	13028.123382	1.182	3032550.554	ug/L	48369.900
> 45 Sc-1			463231.680	ug/L	467697.114
51 V	6.255104	11.280	33538.499	ug/L	-17188.401
52 Cr	0.982999	8.434	49861.705	ug/L	43700.177
55 Mn	6.424518	1.155	69417.613	ug/L	3939.583
57 Fe	53.356789	4.726	16299.598	ug/L	6563.304
59 Co	5.264600	2.682	37978.814	ug/L	70.668
60 Ni	5.262955	2.024	8452.251	ug/L	205.004
65 Cu	2.685130	1.394	5222.340	ug/L	201.670
66 Zn	5.858896	2.187	9910.536	ug/L	3569.482
> 72 Ge-1			581176.137	ug/L	592936.498
75 As	23.394093	1.480	31436.325	ug/L	-502.888
82 Se	18.005410	2.858	2580.602	ug/L	-70.642
97 Mo	10.959283	2.306	19778.884	ug/L	69.001
107 Ag	0.595064	0.454	4764.175	ug/L	109.002
111 Cd	0.555126	2.242	1000.045	ug/L	35.667
> 115 In-1			984518.429	ug/L	994304.053
123 Sb	5.017276	0.692	22921.052	ug/L	235.401
135 Ba	21.084462	1.608	34863.176	ug/L	183.670
> 165 Ho-1			1278959.692	ug/L	1276105.159
205 Tl	19.455654	4.402	358173.945	ug/L	1936.818
208 Pb	5.137323	1.055	130928.434	ug/L	3500.871
238 U	22.269082	1.169	354877.958	ug/L	35.667
> 45 Sc-2			463231.680	ug/L	467697.114
53 Cr	-74.079615	6.896	267690.942	ug/L	319041.768
54 Fe	81.779608	8.302	81663.096	ug/L	42890.999
61 Ni	7.560536	12.976	1595.105	ug/L	1069.051
63 Cu	2.849647	1.068	10794.518	ug/L	321.674
67 Zn	-0.044019	1565.664	21305.089	ug/L	21519.078
> 72 Ge			581176.137	ug/L	592936.498
77 Se	-32.670978	12.222	9625.568	ug/L	13366.987
98 Mo	11.038293	0.635	51152.940	ug/L	95.062
109 Ag	0.679012	1.429	5453.762	ug/L	120.002
> 115 In-2			984518.429	ug/L	994304.053
114 Cd	0.523888	4.256	2081.870	ug/L	53.748
121 Sb	5.067703	0.937	30017.805	ug/L	329.340
137 Ba	21.634943	0.696	60344.789	ug/L	281.339
> 165 Ho-2			1278959.692	ug/L	1276105.159
182 W	16.354867	0.772	95260.845	ug/L	457.679
183 W	16.065215	3.307	51442.665	ug/L	253.338
194 Pt	20.322284	1.247	92960.766	ug/L	76.668
195 Pt	20.656324	0.712	96848.150	ug/L	48.001
203 Tl	19.418236	4.371	150305.624	ug/L	780.029
206 Pb	5.053273	1.223	33362.913	ug/L	888.037
207 Pb	5.171263	2.326	28529.413	ug/L	745.027
> 45 Sc			463231.680	ug/L	467697.114
47 Ti	23.838362	1.017	15870.302	ug/L	647.355
86 Sr	365.203178	0.326	793326.386	ug/L	151.307
88 Sr	368.144417	0.942	6865151.497	ug/L	1301.072
> 115 In			984518.429	ug/L	994304.053
118 Sn	20.770244	1.632	105458.269	ug/L	357.341

[ 120 Sn 20.987352 0.761 143700.972 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
[> Sc-1	45	99.045	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
Zn	66		
[> Ge-1	72	98.017	
As	75		
Se	82		
Mo	97		
Ag	107		
Cd	111		
[> In-1	115	99.016	
Sb	123		
Ba	135		
[> Ho-1	165	100.224	
Tl	205		
Pb	208		
U	238		
[> Sc-2	45	99.045	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
Zn	67		
[> Ge	72	98.017	
Se	77		
Mo	98		
Ag	109		
[> In-2	115	99.016	
Cd	114		
Sb	121		
Ba	137		
[> Ho-2	165	100.224	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
Pb	207		
[> Sc	45	99.045	
Tl	47		
Sr	86		
Sr	88		
[> In	115	99.016	
Sn	118		
Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWN8WD

Sample Date/Time: Thursday, May 24, 2007 17:03:56

Autosampler Position: 50

Dataset File: D:\Elandata\Dataset\052407m1\JWN8WD.085

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
9 Be	0.507713	8.261	83.334	ug/L	3.000
10 B	103.883304	3.196	3818.215	ug/L	90.668
23 Na	29817.139627	2.420	144803767.001	ug/L	24909.622
24 Mg	8880.281406	2.533	29317911.056	ug/L	6273.773
27 Al	125.477715	0.398	610485.994	ug/L	15227.265
39 K	983.681490	1.863	7692703.048	ug/L	707925.205
44 Ca	12681.932216	1.215	3080393.035	ug/L	48369.900
> 45 Sc-1			483230.771	ug/L	467697.114
51 V	5.512343	8.667	28736.732	ug/L	-17188.401
52 Cr	0.802408	8.401	50750.159	ug/L	43700.177
55 Mn	6.080806	2.145	68750.080	ug/L	3939.583
57 Fe	42.407759	4.827	14904.273	ug/L	6563.304
59 Co	5.000141	2.634	37628.545	ug/L	70.668
60 Ni	5.019927	3.205	8417.898	ug/L	205.004
65 Cu	2.539773	4.972	5162.318	ug/L	201.670
66 Zn	5.556957	2.447	9994.929	ug/L	3569.482
> 72 Ge-1			583330.725	ug/L	592936.498
75 As	22.770476	2.155	30696.363	ug/L	-502.888
82 Se	18.156330	3.693	2612.043	ug/L	-70.642
97 Mo	10.656071	1.597	19681.719	ug/L	69.001
107 Ag	0.566953	0.727	4645.468	ug/L	109.002
111 Cd	0.542081	2.233	999.045	ug/L	35.667
> 115 In-1			1006437.109	ug/L	994304.053
123 Sb	4.872921	1.916	22765.077	ug/L	235.401
135 Ba	20.674999	2.203	34768.275	ug/L	183.670
> 165 Ho-1			1300826.499	ug/L	1276105.159
205 Tl	19.221801	3.103	359937.368	ug/L	1936.818
208 Pb	5.015607	1.882	130084.648	ug/L	3500.871
238 U	21.777746	1.975	352930.225	ug/L	35.667
> 45 Sc-2			483230.771	ug/L	467697.114
53 Cr	-75.027697	12.171	278558.168	ug/L	319041.768
54 Fe	69.059104	7.130	78839.023	ug/L	42890.999
61 Ni	7.894664	12.188	1688.117	ug/L	1069.051
63 Cu	2.733902	3.041	10814.868	ug/L	321.674
67 Zn	-4.847013	42.999	21254.013	ug/L	21519.078
> 72 Ge			583330.725	ug/L	592936.498
77 Se	-21.123466	29.002	10891.369	ug/L	13366.987
98 Mo	10.760582	2.054	50975.573	ug/L	95.062
109 Ag	0.655241	1.204	5384.068	ug/L	120.002
> 115 In-2			1006437.109	ug/L	994304.053
114 Cd	0.544954	4.238	2211.467	ug/L	53.748
121 Sb	4.930781	0.522	29866.153	ug/L	329.340
137 Ba	21.019053	1.325	59632.472	ug/L	281.339
> 165 Ho-2			1300826.499	ug/L	1276105.159
182 W	16.080062	1.705	95265.270	ug/L	457.679
183 W	15.685443	1.438	51096.398	ug/L	253.338
194 Pt	20.175952	2.349	93856.639	ug/L	76.668
195 Pt	20.507701	1.123	97787.530	ug/L	48.001
203 Tl	19.063402	4.419	150081.230	ug/L	780.029
206 Pb	4.948954	2.407	33247.315	ug/L	888.037
207 Pb	4.975438	2.130	27947.261	ug/L	745.027
> 45 Sc			483230.771	ug/L	467697.114
47 Ti	22.654858	1.887	15767.190	ug/L	647.355
86 Sr	348.879253	0.832	790561.682	ug/L	151.307
88 Sr	353.861673	2.152	6882722.620	ug/L	1301.072
> 115 In			1006437.109	ug/L	994304.053
118 Sn	20.350121	1.373	105636.592	ug/L	357.341

120 Sn 20.676158 0.769 144734.584 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	103.321	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
Zn	66		
> Ge-1	72	98.380	
As	75		
Se	82		
Mo	97		
Ag	107		
Cd	111		
> In-1	115	101.220	
Sb	123		
Ba	135		
> Ho-1	165	101.937	
Tl	205		
Pb	208		
U	238		
> Sc-2	45	103.321	
Cr	53		
Fe	54		
Ni	51		
Cu	63		
Zn	67		
> Ge	72	98.380	
Se	77		
Mo	98		
Ag	109		
> In-2	115	101.220	
Cd	114		
Sb	121		
Ba	137		
> Ho-2	165	101.937	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
Pb	207		
> Sc	45	103.321	
Tl	47		
Sr	86		
Sr	88		
> In	115	101.220	
Sn	118		
Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWN8WV

Sample Date/Time: Thursday, May 24, 2007 17:10:03

Autosampler Position: 51

Dataset File: D:\Elandata\Dataset\052407m1\JWN8WV.086

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.010417	139.942		4.667	ug/L	3.000	
10 B	21.814604	2.572		856.701	ug/L	90.668	
23 Na	5970.637723	3.041		28373543.279	ug/L	24909.622	
24 Mg	1725.192321	3.317		5574293.219	ug/L	6273.773	
27 Al	19.423457	3.805		105394.795	ug/L	15227.265	
39 K	90.871965	4.335		1344045.460	ug/L	707925.205	
44 Ca	2566.492084	0.806		648685.645	ug/L	48369.900	
> 45 Sc-1				472629.333	ug/L	467697.114	
51 V	0.848509	70.741		-10315.758	ug/L	-17188.401	
52 Cr	-0.981868	9.315		37449.062	ug/L	43700.177	
55 Mn	0.146836	3.117		5508.450	ug/L	3939.583	
57 Fe	7.360703	2.752		8011.960	ug/L	6563.304	
59 Co	0.009912	10.989		144.336	ug/L	70.668	
60 Ni	0.053537	10.830		292.673	ug/L	205.004	
65 Cu	0.012846	41.306		228.337	ug/L	201.670	
66 Zn	-0.563480	6.404		2981.341	ug/L	3569.482	
> 72 Ge-1				587706.411	ug/L	592936.498	
75 As	0.143563	478.437		-293.055	ug/L	-502.888	
82 Se	-0.017661	882.455		-72.648	ug/L	-70.642	
97 Mo	0.126796	3.479		298.006	ug/L	69.001	
107 Ag	0.001080	238.704		117.002	ug/L	109.002	
111 Cd	0.002576	82.079		40.000	ug/L	35.667	
> 115 In-1				990047.540	ug/L	994304.053	
123 Sb	0.010406	66.027		281.857	ug/L	235.401	
135 Ba	0.284624	7.388		653.688	ug/L	183.670	
> 165 Ho-1				1281662.136	ug/L	1276105.159	
205 Tl	0.174342	43.370		5151.361	ug/L	1936.818	
208 Pb	-0.015180	24.884		3139.166	ug/L	3500.871	
238 U	0.189994	1.592		3069.694	ug/L	35.667	
> 45 Sc-2				472629.333	ug/L	467697.114	
53 Cr	-50.854314	28.152		288449.611	ug/L	319041.768	
54 Fe	13.712724	40.982		50070.408	ug/L	42890.999	
61 Ni	1.917561	19.552		1218.731	ug/L	1069.051	
63 Cu	0.044287	9.485		491.013	ug/L	321.674	
67 Zn	-8.907330	25.381		19983.834	ug/L	21519.078	
> 72 Ge				587706.411	ug/L	592936.498	
77 Se	-27.460241	13.657		10292.941	ug/L	13366.987	
98 Mo	0.129900	0.577		698.899	ug/L	95.062	
109 Ag	0.004384	78.818		154.002	ug/L	120.002	
> 115 In-2				990047.540	ug/L	994304.053	
114 Cd	0.003382	57.264		66.712	ug/L	53.748	
121 Sb	0.002936	283.396		345.008	ug/L	329.340	
137 Ba	0.281742	1.259		1066.384	ug/L	281.339	
> 165 Ho-2				1281662.136	ug/L	1276105.159	
182 W	0.090111	24.627		983.711	ug/L	457.679	
183 W	0.080641	30.987		512.348	ug/L	253.338	
194 Pt	-0.001094	205.667		72.001	ug/L	76.668	
195 Pt	0.000310	343.824		49.667	ug/L	48.001	
203 Tl	0.180262	37.790		2177.195	ug/L	780.029	
206 Pb	-0.013203	45.517		807.031	ug/L	888.037	
207 Pb	-0.013195	44.711		677.356	ug/L	745.027	
> 45 Sc				472629.333	ug/L	467697.114	
47 Ti	0.562265	7.185		1020.380	ug/L	647.355	
86 Sr	72.761208	0.818		161379.371	ug/L	151.307	
88 Sr	71.296646	0.406		1357504.490	ug/L	1301.072	
> 115 In				990047.540	ug/L	994304.053	
118 Sn	0.017660	21.852		445.678	ug/L	357.341	



[ 120 Sn 0.013061 53.218 575.947 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	101.055	
V	51		
Cr	52		
Mn	55		
Fa	57		
Co	59		
NI	60		
Cu	65		
Zn	66		
> Ge-1	72	99.118	
As	75		
Se	82		
Mo	97		
Ag	107		
Cd	111		
> In-1	115	99.572	
Sb	123		
Ba	135		
> Ho-1	165	100.435	
Tl	205		
Pb	208		
U	238		
> Sc-2	45	101.055	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
Zn	67		
> Ge	72	99.118	
Se	77		
Mo	98		
Ag	109		
> In-2	115	99.572	
Cd	114		
Sb	121		
Ba	137		
> Ho-2	165	100.435	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
Pb	207		
> Sc	45	101.055	
Tl	47		
Sr	86		
Sr	86		
> In	115	99.572	
Sn	118		
Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWN9G

Sample Date/Time: Thursday, May 24, 2007 17:16:12

Autosampler Position: 52

Dataset File: D:\Elandata\Dataset\052407m1\JWN9G.087

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	-0.006337	181.218		2.000	ug/L	3.000	
10 B	85.161698	5.496		2996.011	ug/L	90.668	
23 Na	29659.785849	0.494		137140076.119	ug/L	24909.622	
24 Mg	8356.608052	1.508		26268725.021	ug/L	6273.773	
27 Al	-0.966192	1.658		10617.717	ug/L	15227.265	
39 K	465.837990	1.206		3834860.659	ug/L	707925.205	
44 Ca	12398.143429	0.911		2868212.151	ug/L	48369.900	
> 45 Sc-1				460034.650	ug/L	467697.114	
51 V	0.068492	241.753		-16355.804	ug/L	-17188.401	
52 Cr	-0.946483	5.249		36692.763	ug/L	43700.177	
55 Mn	-0.040756	209.254		3460.471	ug/L	3939.583	
57 Fe	-24.503182	5.486		1986.394	ug/L	6563.304	
59 Co	0.027614	15.296		267.005	ug/L	70.668	
60 Ni	0.323577	7.484		705.358	ug/L	205.004	
65 Cu	0.141534	13.614		461.345	ug/L	201.670	
66 Zn	0.697652	6.661		4265.013	ug/L	3569.482	
> 72 Ge-1				572965.830	ug/L	592936.498	
75 As	1.711078	24.363		1813.286	ug/L	-502.888	
82 Se	0.176392	287.183		-42.606	ug/L	-70.642	
97 Mo	0.549560	5.789		1029.714	ug/L	69.001	
107 Ag	0.001509	44.348		116.668	ug/L	109.002	
111 Cd	0.006651	54.829		45.667	ug/L	35.667	
> 115 In-1				959414.201	ug/L	994304.053	
123 Sb	0.022883	4.451		327.993	ug/L	235.401	
135 Ba	0.708206	2.941		1342.410	ug/L	183.670	
> 165 Ho-1				1272546.457	ug/L	1276105.159	
205 Tl	0.062141	38.478		3064.030	ug/L	1936.818	
208 Pb	-0.027744	5.416		2806.135	ug/L	3500.871	
238 U	0.926151	0.651		14720.061	ug/L	35.667	
> 45 Sc-2				460034.650	ug/L	467697.114	
53 Cr	-38.470164	14.506		288903.337	ug/L	319041.768	
54 Fe	0.999865	821.508		42656.123	ug/L	42890.999	
61 Ni	3.421553	9.002		1292.405	ug/L	1069.051	
63 Cu	0.250452	4.633		1230.732	ug/L	321.674	
67 Zn	-5.802418	27.228		20053.268	ug/L	21519.078	
> 72 Ge				572965.830	ug/L	592936.498	
77 Se	-25.689046	9.964		10221.891	ug/L	13366.987	
98 Mo	0.540553	4.085		2528.609	ug/L	95.062	
109 Ag	0.001813	85.870		129.669	ug/L	120.002	
> 115 In-2				959414.201	ug/L	994304.053	
114 Cd	0.013019	50.993		100.930	ug/L	53.748	
121 Sb	0.007574	82.776		361.008	ug/L	329.340	
137 Ba	0.719385	2.728		2268.203	ug/L	281.339	
> 165 Ho-2				1272546.457	ug/L	1276105.159	
182 W	0.046386	20.493		724.026	ug/L	457.679	
183 W	0.043952	26.430		392.009	ug/L	253.338	
194 Pt	-0.002221	22.672		66.334	ug/L	76.668	
195 Pt	-0.000324	325.271		46.334	ug/L	48.001	
203 Tl	0.062975	27.393		1260.402	ug/L	780.029	
206 Pb	-0.023943	9.435		732.359	ug/L	888.037	
207 Pb	-0.025278	10.767		607.686	ug/L	745.027	
> 45 Sc				460034.650	ug/L	467697.114	
47 Ti	-0.045813	25.689		607.686	ug/L	647.355	
86 Sr	350.793701	0.759		756771.677	ug/L	151.307	
88 Sr	352.226463	0.593		6522947.612	ug/L	1301.072	
> 115 In				959414.201	ug/L	994304.053	
118 Sn	0.003699	75.265		363.008	ug/L	357.341	

[ 120 Sn 0.001551 285.857 481.746 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	98.362	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	58		
Ni	60		
Cu	65		
Zn	66		
> Ge-1	72	96.632	
As	75		
Se	82		
Mo	97		
Ag	107		
Cd	111		
> In-1	115	96.491	
Sb	123		
Ba	135		
> Ho-1	165	99.721	
Tl	205		
Pb	208		
U	238		
> Sc-2	45	98.362	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
Zn	67		
> Ge	72	96.632	
Se	77		
Mo	98		
Ag	109		
> In-2	115	96.491	
Cd	114		
Sb	121		
Ba	137		
> Ho-2	165	99.721	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
Pb	207		
> Sc	45	98.362	
Ti	47		
Sr	86		
Sr	88		
> In	115	96.491	
Sn	118		
Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWN9J

Sample Date/Time: Thursday, May 24, 2007 17:22:20

Autosampler Position: 53

Dataset File: D:\Elandata\Dataset\052407m1\JWN9J.088

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
9 Be	-0.004456	166.693	2.333	ug/L	3.000
10 B	82.452290	1.174	2962.003	ug/L	90.668
23 Na	28644.759161	1.591	135081625.268	ug/L	24909.622
24 Mg	8162.356007	1.737	26166761.794	ug/L	6273.773
27 Al	4.181795	2.075	34523.348	ug/L	15227.265
39 K	449.361176	2.123	3797723.487	ug/L	707925.205
44 Ca	11825.258975	0.736	2792413.041	ug/L	48369.900
> 45 Sc-1			469218.715	ug/L	467697.114
51 V	0.615771	35.706	-12206.877	ug/L	-17188.401
52 Cr	-1.109478	1.530	36320.812	ug/L	43700.177
55 Mn	0.027895	45.549	4241.006	ug/L	3939.583
57 Fe	-23.071647	5.327	2293.403	ug/L	6563.304
59 Co	0.028767	7.390	280.672	ug/L	70.668
60 Ni	0.288884	8.651	664.355	ug/L	205.004
65 Cu	0.112424	24.157	415.010	ug/L	201.670
66 Zn	0.584914	23.196	4225.001	ug/L	3569.482
> 72 Ge-1			575055.291	ug/L	592936.498
75 As	1.428104	8.493	1441.877	ug/L	-502.888
82 Se	0.201237	36.225	-39.137	ug/L	-70.642
97 Mo	0.472345	3.467	917.372	ug/L	69.001
107 Ag	0.002234	24.625	125.335	ug/L	109.002
111 Cd	0.005028	73.653	44.001	ug/L	35.667
> 115 In-1			983809.155	ug/L	994304.053
123 Sb	0.013648	29.084	294.658	ug/L	235.401
135 Ba	0.720802	2.456	1370.746	ug/L	183.670
> 165 Ho-1			1279792.675	ug/L	1276105.159
205 Tl	0.030961	46.774	2509.580	ug/L	1936.818
208 Pb	-0.025197	7.540	2885.809	ug/L	3500.871
238 U	0.897046	1.544	14339.003	ug/L	35.667
> 45 Sc-2			469218.715	ug/L	467697.114
53 Cr	-37.278575	26.145	295413.442	ug/L	319041.768
54 Fe	2.990871	244.351	44498.700	ug/L	42890.999
61 Ni	3.580270	13.554	1329.742	ug/L	1069.051
63 Cu	0.222115	2.326	1149.724	ug/L	321.674
67 Zn	-8.451856	23.081	19931.762	ug/L	21519.078
> 72 Ge			575055.291	ug/L	592936.498
77 Se	-21.807593	13.986	10666.523	ug/L	13366.987
98 Mo	0.510852	0.655	2455.335	ug/L	95.062
109 Ag	0.000934	181.562	126.002	ug/L	120.002
> 115 In-2			983809.155	ug/L	994304.053
114 Cd	0.007553	7.413	82.415	ug/L	53.748
121 Sb	0.002587	77.995	341.007	ug/L	329.340
137 Ba	0.750118	1.996	2366.220	ug/L	281.339
> 165 Ho-2			1279792.675	ug/L	1276105.159
182 W	0.032083	10.315	645.021	ug/L	457.679
183 W	0.021651	31.505	323.007	ug/L	253.338
194 Pt	-0.002524	56.941	65.334	ug/L	76.668
195 Pt	0.001244	100.394	54.001	ug/L	48.001
203 Tl	0.035844	44.727	1058.383	ug/L	780.029
206 Pb	-0.024017	25.132	736.026	ug/L	888.037
207 Pb	-0.021407	18.386	632.020	ug/L	745.027
> 45 Sc			469218.715	ug/L	467697.114
47 Ti	0.076244	47.292	698.691	ug/L	647.355
86 Sr	341.448955	1.668	751243.445	ug/L	151.307
88 Sr	338.805656	1.564	6399367.572	ug/L	1301.072
> 115 In			983809.155	ug/L	994304.053
118 Sn	0.000762	587.442	357.341	ug/L	357.341

[ 120 Sn 0.001866 180.111 496.080 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte Mass	Int Std % Recovery	QC Std % Recovery
[ Be 9		
[ B 10		
[ Na 23		
[ Mg 24		
[ Al 27		
[ K 39		
[ Ca 44		
> Sc-1 45	100.325	
[ V 51		
[ Cr 52		
[ Mn 55		
[ Fe 57		
[ Co 59		
[ Ni 60		
[ Cu 65		
[ Zn 66		
> Ge-1 72	96.984	
[ As 75		
[ Se 82		
[ Mo 97		
[ Ag 107		
[ Cd 111		
> In-1 115	98.944	
[ Sb 123		
[ Ba 135		
> Ho-1 165	100.289	
[ Tl 205		
[ Pb 208		
[ U 238		
> Sc-2 45	100.325	
[ Cr 53		
[ Fe 54		
[ Ni 61		
[ Cu 63		
[ Zn 67		
> Ge 72	96.984	
[ Se 77		
[ Mo 98		
[ Ag 109		
> In-2 115	98.944	
[ Cd 114		
[ Sb 121		
[ Ba 137		
> Ho-2 165	100.289	
[ W 182		
[ W 183		
[ Pt 194		
[ Pt 195		
[ Tl 203		
[ Pb 206		
[ Pb 207		
> Sc 45	100.325	
[ Ti 47		
[ Sr 86		
[ Sr 88		
> In 115	98.944	
[ Sn 118		
[ Sn 120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6

Sample Date/Time: Thursday, May 24, 2007 17:28:30

Autosampler Position: 7

Dataset File: D:\Elandata\Dataset\052407m1\QC Std 6.089

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	183.375897	2.067	28366.094	ug/L	3.000		
10 B	182.525771	0.463	6500.877	ug/L	90.668		
23 Na	1943.792311	1.018	9268251.491	ug/L	24909.622		
24 Mg	998.351013	0.684	3233555.683	ug/L	6273.773		
27 Al	1949.788326	1.454	9065413.272	ug/L	15227.265		
39 K	1883.805125	1.186	13770875.963	ug/L	707925.205		
44 Ca	1031.500084	1.732	290319.894	ug/L	48369.900		
> 45 Sc-1			473201.528	ug/L	467697.114		
51 V	177.636209	0.604	1449674.166	ug/L	-17188.401		
52 Cr	185.710885	0.921	1313872.649	ug/L	43700.177		
55 Mn	183.852412	1.510	1919250.225	ug/L	3939.583		
57 Fe	2051.103415	0.955	391498.478	ug/L	6563.304		
59 Co	185.277978	0.802	1363017.202	ug/L	70.668		
60 Ni	183.181960	1.362	293510.079	ug/L	205.004		
65 Cu	182.032820	0.911	348021.271	ug/L	201.670		
66 Zn	182.215884	1.225	206168.625	ug/L	3569.482		
> 72 Ge-1			574440.022	ug/L	592936.498		
75 As	195.236142	1.016	262859.192	ug/L	-502.888		
82 Se	194.107222	1.864	28164.049	ug/L	-70.642		
97 Mo	190.572221	1.151	343591.702	ug/L	69.001		
107 Ag	48.484890	1.787	380324.266	ug/L	109.002		
111 Cd	193.034851	0.747	336247.821	ug/L	35.667		
> 115 In-1			986750.094	ug/L	994304.053		
123 Sb	188.069382	1.646	852555.333	ug/L	235.401		
135 Ba	181.846080	0.851	299119.092	ug/L	183.670		
> 165 Ho-1			1278247.128	ug/L	1276105.159		
205 Tl	181.873375	2.802	3330744.975	ug/L	1936.818		
208 Pb	190.567007	1.232	4727504.453	ug/L	3500.871		
238 U	190.516225	2.426	3033961.747	ug/L	35.667		
> 45 Sc-2			473201.528	ug/L	467697.114		
53 Cr	139.233843	3.139	415566.802	ug/L	319041.768		
54 Fe	2056.924618	0.887	1050427.493	ug/L	42890.999		
61 Ni	185.839631	1.298	14540.542	ug/L	1069.051		
63 Cu	183.363047	1.128	688948.643	ug/L	321.674		
67 Zn	167.944677	0.930	54934.972	ug/L	21519.078		
> 72 Ge			574440.022	ug/L	592936.498		
77 Se	188.753738	1.528	32792.674	ug/L	13366.987		
98 Mo	191.394200	1.730	887363.419	ug/L	95.062		
109 Ag	47.319743	2.094	372712.329	ug/L	120.002		
> 115 In-2			986750.094	ug/L	994304.053		
114 Cd	194.081084	0.689	753313.660	ug/L	53.748		
121 Sb	190.950806	0.637	1121633.907	ug/L	329.340		
137 Ba	185.547471	0.303	515125.801	ug/L	281.339		
> 165 Ho-2			1278247.128	ug/L	1276105.159		
182 W	185.340296	1.531	1074189.994	ug/L	457.679		
183 W	184.611591	0.909	588284.960	ug/L	253.338		
194 Pt	187.503678	1.311	856582.662	ug/L	76.668		
195 Pt	190.227481	0.627	891009.824	ug/L	48.001		
203 Tl	181.812973	2.362	1400278.852	ug/L	780.029		
206 Pb	195.550124	0.459	1256919.582	ug/L	888.037		
207 Pb	190.990191	0.583	1026429.508	ug/L	745.027		
> 45 Sc			473201.528	ug/L	467697.114		
47 Ti	188.639190	0.628	123764.714	ug/L	647.355		
86 Sr	188.496309	0.614	418358.804	ug/L	151.307		
88 Sr	186.965285	0.918	3582138.322	ug/L	1301.072		
> 115 In			986750.094	ug/L	994304.053		
118 Sn	188.160104	1.154	954636.073	ug/L	357.341		

[ 120 Sn 188.611196 0.865 1290498.899 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Ba	9		91.688
[ B	10		91.283
[ Na	23		97.180
[ Mg	24		99.835
[ Al	27		97.489
[ K	39		94.180
[ Ca	44		103.150
> Sc-1	46	101.177	
[ V	51		88.818
[ Cr	52		92.855
[ Mn	55		91.926
[ Fe	57		102.555
[ Co	59		92.839
[ Ni	60		91.591
[ Cu	65		91.016
[ Zn	66		91.108
> Ge-1	72	96.881	
[ As	75		97.618
[ Se	82		97.054
[ Mo	97		95.286
[ Ag	107		96.970
[ Cd	111		96.517
> In-1	115	99.240	
[ Sb	123		94.035
[ Ba	135		90.923
> Ho-1	165	100.168	
[ Tl	205		90.937
[ Pb	208		95.284
[ U	238		96.258
> Sc-2	45	101.177	
[ Cr	53		99.817
[ Fe	54		102.846
[ Ni	61		92.920
[ Cu	63		91.682
[ Zn	67		83.972
> Ge	72	98.881	
[ Se	77		94.377
[ Mo	98		95.697
[ Ag	109		94.639
> In-2	115	99.240	
[ Cd	114		97.041
[ Sb	121		95.475
[ Ba	137		92.774
> Ho-2	165	100.168	
[ W	182		92.870
[ W	183		92.306
[ Pt	194		93.752
[ Pt	195		95.114
[ Tl	203		90.906
[ Pb	206		97.775
[ Pb	207		95.495
> Sc	45	101.177	
[ Tl	47		94.320
[ Sr	88		94.248
[ Sr	88		93.483
> In	115	99.240	
[ Sn	118		94.080
[ Sn	120		94.306

**QC Out Of Limits**

Analyte	Mass	Out of Limits Message
V	51	Q
Cr	53	Q
Zn	67	Q

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 7

Sample Date/Time: Thursday, May 24, 2007 17:35:06

Autosampler Position: 1

Dataset File: D:\Elandata\Dataset\052407m1\QC Std 7.090

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.013183	49.383		5.000	ug/L	3.000	
10 B	3.747438	27.278		220.004	ug/L	90.668	
23 Na	0.208244	31.194		25803.876	ug/L	24909.622	
24 Mg	-0.001216	1079.708		6249.429	ug/L	6273.773	
27 Al	-0.458298	9.255		13081.785	ug/L	15227.265	
39 K	-2.878019	36.250		685968.288	ug/L	707925.205	
44 Ca	-27.128133	4.959		41958.617	ug/L	48369.900	
> 45 Sc-1				466173.273	ug/L	467697.114	
51 V	1.292733	27.731		-6611.924	ug/L	-17188.401	
52 Cr	-1.440806	9.240		33853.086	ug/L	43700.177	
55 Mn	-0.131647	4.261		2575.591	ug/L	3939.583	
57 Fe	-2.927371	24.043		6000.640	ug/L	6563.304	
59 Co	0.004495	30.025		103.001	ug/L	70.668	
60 Ni	0.001483	146.432		206.670	ug/L	205.004	
65 Cu	-0.005495	62.521		190.670	ug/L	201.670	
66 Zn	-0.362648	6.958		3160.715	ug/L	3569.482	
> 72 Ge-1				580403.247	ug/L	592936.498	
75 As	0.077553	779.163		-384.296	ug/L	-502.888	
82 Se	0.273900	144.332		-28.943	ug/L	-70.642	
97 Mo	0.088131	40.959		224.671	ug/L	69.001	
107 Ag	0.005146	23.665		147.002	ug/L	109.002	
111 Cd	0.009254	47.165		51.001	ug/L	35.667	
> 115 In-1				976990.700	ug/L	994304.053	
123 Sb	0.033777	18.834		382.756	ug/L	235.401	
135 Ba	-0.005908	390.001		173.003	ug/L	183.670	
> 165 Ho-1				1269240.839	ug/L	1276105.159	
205 Tl	0.306797	41.031		7506.839	ug/L	1936.818	
208 Pb	-0.014154	48.558		3133.833	ug/L	3500.871	
238 U	0.007659	27.129		156.669	ug/L	35.667	
> 45 Sc-2				466173.273	ug/L	467697.114	
53 Cr	-74.159220	5.185		269327.250	ug/L	319041.768	
54 Fe	-4.675417	81.816		40496.675	ug/L	42890.999	
61 Ni	0.749391	38.983		1119.055	ug/L	1069.051	
63 Cu	-0.003051	109.041		309.340	ug/L	321.674	
67 Zn	-7.480919	4.598		19997.520	ug/L	21519.078	
> 72 Ge				580403.247	ug/L	592936.498	
77 Se	-44.252387	9.030		8382.699	ug/L	13366.987	
98 Mo	0.085785	35.396		486.372	ug/L	95.062	
109 Ag	0.021416	21.191		284.672	ug/L	120.002	
> 115 In-2				976990.700	ug/L	994304.053	
114 Cd	0.015089	47.866		110.647	ug/L	53.748	
121 Sb	0.026792	38.811		479.013	ug/L	329.340	
137 Ba	-0.002832	128.961		272.005	ug/L	281.339	
> 165 Ho-2				1269240.839	ug/L	1276105.159	
182 W	0.247211	25.322		1877.812	ug/L	457.679	
183 W	0.229910	25.442		979.378	ug/L	253.338	
194 Pt	0.006918	33.202		107.668	ug/L	76.668	
195 Pt	0.006791	35.949		79.334	ug/L	48.001	
203 Tl	0.319097	37.291		3216.747	ug/L	780.029	
206 Pb	-0.011123	84.929		812.365	ug/L	888.037	
207 Pb	-0.014663	44.212		662.689	ug/L	745.027	
> 45 Sc				466173.273	ug/L	467697.114	
47 Tl	-0.155371	3.595		545.349	ug/L	647.355	
86 Sr	0.003402	81.805		158.243	ug/L	151.307	
88 Sr	0.002569	139.781		1345.077	ug/L	1301.072	
> 115 In				976990.700	ug/L	994304.053	
118 Sn	0.034232	29.169		522.682	ug/L	357.341	



120 Sn 0.035592 31.072 720.752 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Be	9		1.318
B	10		374.744
Na	23		0.208
Mg	24		-0.001
Al	27		-0.458
K	39		-2.878
Ca	44		-27.128
> Sc-1	45	99.674	
V	51		129.273
Cr	52		-144.081
Mn	55		-13.165
Fe	57		-2.927
Co	59		0.449
Ni	60		0.148
Cu	65		-0.550
Zn	66		-36.265
> Ge-1	72	97.886	
As	75		7.755
Se	82		27.390
Mo	97		8.813
Ag	107		0.515
Cd	111		0.925
> In-1	115	98.259	
Sb	123		3.378
Ba	135		-0.591
> Ho-1	165	98.462	
Tl	205		30.680
Pb	208		-1.415
U	238		0.766
> Sc-2	45	99.674	
Cr	53		-7415.922
Fe	54		-4.675
Ni	61		74.939
Cu	63		-0.305
Zn	67		-746.092
> Ge	72	97.886	
Se	77		-4425.239
Mo	98		8.578
Ag	109		2.142
> In-2	115	98.259	
Cd	114		1.508
Sb	121		2.679
Ba	137		-0.283
> Ho-2	165	98.462	
W	182		24.721
W	183		22.991
Pt	194		0.692
Pt	195		0.679
Tl	203		31.910
Pb	206		-1.112
Pb	207		-1.466
> Sc	45	99.674	
Tl	47		-15.537
Sr	86		0.340
Sr	88		0.257
> In	115	98.259	
Sn	118		3.423
Sn	120		3.559

**QC Out Of Limits**

Analyte	Mass	Out of Limits Message
B	10	Q
V	51	Q
Cr	52	Q
Cr	53	Q
Zn	67	Q
Se	77	Q

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWN9K

Sample Date/Time: Thursday, May 24, 2007 17:41:43

Autosampler Position: 54

Dataset File: D:\Elandata\Dataset\052407m1\JWN9K.091

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.002488	665.957		3.333		ug/L	3.000
10 B	194.015287	2.201		6724.650		ug/L	90.668
23 Na	35259.068094	3.333		163313266.174		ug/L	24909.622
24 Mg	6694.044458	2.628		21080422.254		ug/L	6273.773
27 Al	0.591755	6.012		17680.779		ug/L	15227.265
39 K	983.235308	3.183		7198034.572		ug/L	707925.205
44 Ca	11607.386460	1.615		2693099.420		ug/L	48369.900
> 45 Sc-1				460904.946		ug/L	467697.114
51 V	-2.657945	10.832		-38330.623		ug/L	-17188.401
52 Cr	252.850142	1.744		1726597.910		ug/L	43700.177
55 Mn	0.972467	1.271		13749.084		ug/L	3939.583
57 Fe	-25.503915	1.061		1807.041		ug/L	6563.304
59 Co	0.027092	19.080		264.005		ug/L	70.668
60 Ni	0.330986	5.399		718.025		ug/L	205.004
65 Cu	0.123007	19.241		427.344		ug/L	201.670
66 Zn	0.866191	8.097		4455.073		ug/L	3569.482
> 72 Ge-1				566393.715		ug/L	592936.498
75 As	2.387820	25.308		2694.536		ug/L	-502.888
82 Se	0.074303	298.786		-56.850		ug/L	-70.642
97 Mo	0.284666	3.719		565.684		ug/L	69.001
107 Ag	0.006869	22.091		157.669		ug/L	109.002
111 Cd	0.011162	8.671		53.334		ug/L	35.667
> 115 In-1				959770.074		ug/L	994304.053
123 Sb	0.030724	6.985		362.720		ug/L	235.401
135 Ba	0.952398	1.953		1731.122		ug/L	183.670
> 165 Ho-1				1264929.626		ug/L	1276105.159
205 Tl	0.095572	38.471		3648.512		ug/L	1936.818
208 Pb	-0.016907	7.557		3055.158		ug/L	3500.871
238 U	0.989022	0.351		15622.695		ug/L	35.667
> 45 Sc-2				460904.946		ug/L	467697.114
53 Cr	235.426840	4.387		467137.401		ug/L	319041.768
54 Fe	10.647840	63.650		47360.700		ug/L	42890.999
61 Ni	2.360413	28.839		1219.731		ug/L	1069.051
63 Cu	0.299609	2.688		1412.751		ug/L	321.674
67 Zn	-9.912870	16.022		19298.220		ug/L	21519.078
> 72 Ge				566393.715		ug/L	592936.498
77 Se	-47.567363	7.393		7838.073		ug/L	13366.987
98 Mo	0.303937	5.617		1462.301		ug/L	95.062
109 Ag	0.012588	14.411		212.337		ug/L	120.002
> 115 In-2				959770.074		ug/L	994304.053
114 Cd	0.013533	28.756		102.879		ug/L	53.748
121 Sb	0.011406	10.998		383.009		ug/L	329.340
137 Ba	0.953389	2.910		2896.656		ug/L	281.339
> 165 Ho-2				1264929.626		ug/L	1276105.159
182 W	0.093811	12.571		991.044		ug/L	457.679
183 W	0.082849	13.631		512.014		ug/L	253.338
194 Pt	0.006880	29.718		107.001		ug/L	76.668
195 Pt	0.007513	22.644		82.334		ug/L	48.001
203 Tl	0.094726	33.099		1493.761		ug/L	780.029
206 Pb	-0.011566	42.014		807.031		ug/L	888.037
207 Pb	-0.016453	4.634		651.021		ug/L	745.027
> 45 Sc				460904.946		ug/L	467697.114
47 Ti	0.031094	302.446		657.688		ug/L	647.355
86 Sr	320.579969	1.876		692815.810		ug/L	151.307
88 Sr	320.547538	1.484		5946992.935		ug/L	1301.072
> 115 In				959770.074		ug/L	994304.053
118 Sn	0.006593	58.225		377.342		ug/L	357.341

[ 120 Sn 0.007454 34.084 521.193 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	98.548	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
Zn	66		
> Ge-1	72	95.524	
As	75		
Se	82		
Mo	97		
Ag	107		
Cd	111		
> In-1	115	96.527	
Sb	123		
Ba	135		
> Ho-1	165	99.124	
Tl	205		
Pb	208		
U	238		
> Sc-2	45	98.548	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
Zn	67		
> Ge	72	95.524	
Se	77		
Mo	98		
Ag	109		
> In-2	115	96.527	
Cd	114		
Sb	121		
Ba	137		
> Ho-2	165	99.124	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
Pb	207		
> Sc	45	98.548	
Tl	47		
Sr	86		
Sr	88		
> In	115	96.527	
Sn	118		
Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWN9L

Sample Date/Time: Thursday, May 24, 2007 17:47:49

Autosampler Position: 55

Dataset File: D:\Elandata\Dataset\052407m1\JWN9L.092

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.017782	120.197		5.667		ug/L	3.000
10 B	195.706875	3.597		6842.041		ug/L	90.668
23 Na	34930.240490	1.332		163254541.311		ug/L	24909.622
24 Mg	6537.159580	1.271		20771154.908		ug/L	6273.773
27 Al	-0.671073	4.036		12078.892		ug/L	15227.265
39 K	941.108008	2.454		7112300.661		ug/L	707925.205
44 Ca	11196.042424	1.897		2622599.748		ug/L	48369.900
> 45 Sc-1				465017.170		ug/L	467697.114
51 V	-3.316793	29.539		-43992.108		ug/L	-17188.401
52 Cr	245.393382	0.617		1692059.507		ug/L	43700.177
55 Mn	0.705202	1.111		11136.451		ug/L	3939.583
57 Fe	-26.636695	8.009		1615.770		ug/L	6563.304
59 Co	0.026433	1.937		261.338		ug/L	70.668
60 Ni	0.323157	9.570		712.025		ug/L	205.004
65 Cu	0.125353	16.423		435.678		ug/L	201.670
66 Zn	0.748767	6.891		4366.711		ug/L	3569.482
> 72 Ge-1				566942.769		ug/L	592936.498
75 As	2.460509	18.613		2794.052		ug/L	-502.888
82 Se	0.373624	194.140		-13.435		ug/L	-70.642
97 Mo	0.279636	3.411		557.016		ug/L	69.001
107 Ag	0.008970	7.307		173.669		ug/L	109.002
111 Cd	0.010169	11.691		51.667		ug/L	35.667
> 115 In-1				959957.873		ug/L	994304.053
123 Sb	0.028499	14.055		352.909		ug/L	235.401
135 Ba	0.873574	0.861		1614.774		ug/L	183.670
> 165 Ho-1				1274079.694		ug/L	1276105.159
205 Tl	0.047875	30.987		2807.973		ug/L	1936.818
208 Pb	-0.024090	3.232		2900.144		ug/L	3500.871
238 U	0.976715	1.634		15539.269		ug/L	35.667
> 45 Sc-2				465017.170		ug/L	467697.114
53 Cr	226.022277	4.336		465161.891		ug/L	319041.768
54 Fe	8.441164	63.160		46700.276		ug/L	42890.999
61 Ni	2.511775	28.135		1241.400		ug/L	1069.051
63 Cu	0.288041	3.746		1382.747		ug/L	321.674
67 Zn	-10.429005	9.010		19370.985		ug/L	21519.078
> 72 Ge				566942.769		ug/L	592936.498
77 Se	-49.144905	5.253		7681.606		ug/L	13366.987
98 Mo	0.284902	2.985		1376.731		ug/L	95.062
109 Ag	0.012597	32.921		212.337		ug/L	120.002
> 115 In-2				959957.873		ug/L	994304.053
114 Cd	0.012409	6.616		98.746		ug/L	53.748
121 Sb	0.011911	39.567		386.009		ug/L	329.340
137 Ba	0.932145	0.808		2858.981		ug/L	281.339
> 165 Ho-2				1274079.694		ug/L	1276105.159
182 W	0.054831	16.700		773.695		ug/L	457.679
183 W	0.050601	9.671		413.677		ug/L	253.338
194 Pt	0.006031	29.960		104.001		ug/L	76.668
195 Pt	0.009299	3.303		91.335		ug/L	48.001
203 Tl	0.051170	37.519		1171.727		ug/L	780.029
206 Pb	-0.024065	17.914		732.693		ug/L	888.037
207 Pb	-0.020873	30.532		632.020		ug/L	745.027
> 45 Sc				465017.170		ug/L	467697.114
47 Tl	0.041346	175.498		670.356		ug/L	647.355
86 Sr	313.429629	1.414		683460.924		ug/L	151.307
88 Sr	313.667502	0.476		5871930.751		ug/L	1301.072
> 115 In				959957.873		ug/L	994304.053
118 Sn	0.000003	42061.117		345.008		ug/L	357.341

120 Sn 0.000797 274.774 477.070 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	99.427	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
Zn	66		
> Ge-1	72	95.616	
As	75		
Se	82		
Mo	97		
Ag	107		
Cd	111		
> In-1	115	96.546	
Sb	123		
Ba	135		
> Ho-1	165	99.841	
Tl	205		
Pb	208		
U	238		
> Sc-2	45	99.427	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
Zn	67		
> Ge	72	95.616	
Se	77		
Mo	98		
Ag	109		
> In-2	115	96.546	
Cd	114		
Sb	121		
Ba	137		
> Ho-2	165	99.841	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
Pb	207		
> Sc	45	99.427	
Tl	47		
Sr	86		
Sr	88		
> In	115	96.546	
Sn	118		
Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWN9T

Sample Date/Time: Thursday, May 24, 2007 17:53:51

Autosampler Position: 56

Dataset File: D:\Elandata\Dataset\052407m1\JWN9T.093

## Sample Result Summary

Mass	Analyte	Conc.	Mean	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
	9 Be	0.020344	89.317		6.000	ug/L	3.000	
	10 B	199.883297	2.188		6919.078	ug/L	90.668	
	23 Na	35624.874979	1.837		165078862.872	ug/L	24909.622	
	24 Mg	6793.571512	1.726		21401933.631	ug/L	6273.773	
	27 Al	-0.765765	6.985		11546.448	ug/L	15227.265	
	39 K	961.877816	0.871		7191257.320	ug/L	707925.205	
	44 Ca	11558.786573	0.455		2682715.871	ug/L	48369.900	
>	45 Sc-1				460995.933	ug/L	467697.114	
	51 V	-4.024123	18.308		-49368.807	ug/L	-17188.401	
	52 Cr	252.861156	2.069		1726933.747	ug/L	43700.177	
	55 Mn	0.697663	3.017		10961.981	ug/L	3939.583	
	57 Fe	-25.657475	2.936		1779.920	ug/L	6563.304	
	59 Co	0.023172	3.952		235.671	ug/L	70.668	
	60 Ni	0.367828	3.960		775.695	ug/L	205.004	
	65 Cu	0.123209	11.526		428.344	ug/L	201.670	
	66 Zn	-0.566442	17.182		2904.324	ug/L	3569.482	
>	72 Ge-1				562100.857	ug/L	592936.498	
	75 As	2.565822	28.630		2907.931	ug/L	-502.888	
	82 Se	0.352307	110.973		-16.978	ug/L	-70.642	
	97 Mo	0.266615	5.464		536.682	ug/L	69.001	
	107 Ag	0.005817	33.504		150.336	ug/L	109.002	
	111 Cd	-0.000733	1172.429		33.334	ug/L	35.667	
>	115 In-1				964595.171	ug/L	994304.053	
	123 Sb	0.018844	17.765		311.896	ug/L	235.401	
	135 Ba	0.929258	2.976		1674.448	ug/L	183.670	
>	165 Ho-1				1250644.435	ug/L	1276105.159	
	205 Tl	0.027954	65.647		2397.227	ug/L	1936.818	
	208 Pb	-0.037820	8.155		2513.445	ug/L	3500.871	
	238 U	0.981849	1.959		15333.713	ug/L	35.667	
>	45 Sc-2				460995.933	ug/L	467697.114	
	53 Cr	244.378903	4.420		473032.392	ug/L	319041.768	
	54 Fe	6.803919	84.835		45498.830	ug/L	42890.999	
	61 Ni	3.318970	26.329		1287.404	ug/L	1069.051	
	63 Cu	0.275232	3.499		1323.741	ug/L	321.674	
	67 Zn	-8.099970	19.625		19650.035	ug/L	21519.078	
>	72 Ge				562100.857	ug/L	592936.498	
	77 Se	-44.445333	0.830		8099.733	ug/L	13366.987	
	98 Mo	0.279220	6.429		1357.397	ug/L	95.062	
	109 Ag	0.006229	19.689		164.336	ug/L	120.002	
>	115 In-2				964595.171	ug/L	994304.053	
	114 Cd	0.001924	245.676		59.485	ug/L	53.748	
	121 Sb	0.003402	56.481		339.007	ug/L	329.340	
	137 Ba	0.957734	1.422		2875.651	ug/L	281.339	
>	165 Ho-2				1250644.435	ug/L	1276105.159	
	182 W	0.042928	15.587		691.690	ug/L	457.679	
	183 W	0.039044	9.620		370.008	ug/L	253.338	
	194 Pt	0.008984	90.867		115.335	ug/L	76.868	
	195 Pt	0.006322	14.939		76.001	ug/L	48.001	
	203 Tl	0.029681	59.473		987.378	ug/L	780.029	
	206 Pb	-0.034690	7.633		652.355	ug/L	888.037	
	207 Pb	-0.037061	11.745		535.349	ug/L	745.027	
>	45 Sc				460995.933	ug/L	467697.114	
	47 Ti	-0.000289	17377.248		637.687	ug/L	647.355	
	86 Sr	320.540953	2.088		692845.651	ug/L	151.307	
	88 Sr	321.123325	1.404		5958814.471	ug/L	1301.072	
>	115 In				964595.171	ug/L	994304.053	
	118 Sn	-0.008402	29.464		305.006	ug/L	357.341	

120 Sn -0.007733 25.538 422.329 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
[ B	10		
[ Na	23		
[ Mg	24		
[ Al	27		
[ K	39		
[ Ca	44		
> Sc-1	45	98.567	
[ V	51		
[ Cr	52		
[ Mn	55		
[ Fe	57		
[ Co	59		
[ Ni	60		
[ Cu	65		
[ Zn	66		
> Ge-1	72	94.800	
[ As	75		
[ Se	82		
[ Mo	97		
[ Ag	107		
[ Cd	111		
> In-1	115	97.012	
[ Sb	123		
[ Ba	135		
> Ho-1	165	98.005	
[ Tl	205		
[ Pb	208		
[ U	238		
> Sc-2	45	98.567	
[ Cr	53		
[ Fe	54		
[ Ni	61		
[ Cu	63		
[ Zn	67		
> Ge	72	94.800	
[ Se	77		
[ Mo	98		
[ Ag	109		
> In-2	115	97.012	
[ Cd	114		
[ Sb	121		
[ Ba	137		
> Ho-2	165	98.005	
[ W	182		
[ W	183		
[ Pt	194		
[ Pt	195		
[ Tl	203		
[ Pb	206		
[ Pb	207		
> Sc	45	98.567	
[ Tl	47		
[ Sr	86		
[ Sr	88		
> In	115	97.012	
[ Sn	118		
[ Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW057B

Sample Date/Time: Thursday, May 24, 2007 17:59:54

Autosampler Position: 57

Dataset File: D:\Elandata\Dataset\052407m1\JW057B.094

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.001788	748.067		3.333	ug/L	3.000	
10 B	5.743756	15.665		295.673	ug/L	90.668	
23 Na	4.703976	12.100		47931.270	ug/L	24909.622	
24 Mg	-0.368155	15.333		5196.665	ug/L	6273.773	
27 Al	-0.027150	280.026		15394.780	ug/L	15227.265	
39 K	-4.440891	17.158		690618.741	ug/L	707925.205	
44 Ca	-30.127370	5.076		42202.667	ug/L	48369.900	
> 45 Sc-1				476756.961	ug/L	467697.114	
51 V	-1.279069	45.209		-28163.044	ug/L	-17188.401	
52 Cr	0.758494	29.257		49769.759	ug/L	43700.177	
55 Mn	0.005704	79.587		4075.622	ug/L	3939.583	
57 Fe	-0.856892	56.700		6528.172	ug/L	6563.304	
59 Co	0.003953	2.475		101.335	ug/L	70.668	
60 Ni	-0.010499	66.883		192.003	ug/L	205.004	
65 Cu	0.072409	16.787		345.008	ug/L	201.670	
66 Zn	-0.513916	3.408		3063.026	ug/L	3569.482	
> 72 Ge-1				593905.884	ug/L	592936.498	
75 As	-0.541134	76.811		-1260.424	ug/L	-502.888	
82 Se	0.066682	433.935		-60.333	ug/L	-70.642	
97 Mo	0.010372	68.307		89.668	ug/L	69.001	
107 Ag	0.002501	48.674		131.335	ug/L	109.002	
111 Cd	-0.003362	168.588		30.334	ug/L	35.667	
> 115 In-1				1013702.755	ug/L	994304.053	
123 Sb	0.010104	34.555		287.177	ug/L	235.401	
135 Ba	0.138689	125.339		425.013	ug/L	183.670	
> 165 Ho-1				1316369.924	ug/L	1276105.159	
205 Tl	0.040253	38.253		2757.629	ug/L	1936.818	
208 Pb	-0.010586	18.695		3340.521	ug/L	3500.871	
238 U	0.001963	26.247		69.001	ug/L	35.667	
> 45 Sc-2				476756.961	ug/L	467697.114	
53 Cr	79.808110	29.572		378764.179	ug/L	319041.768	
54 Fe	69.668138	3.498		78089.942	ug/L	42890.999	
61 Ni	1.171136	87.029		1175.060	ug/L	1069.051	
63 Cu	0.078142	12.883		623.667	ug/L	321.674	
67 Zn	28.113719	26.980		27526.485	ug/L	21519.078	
> 72 Ge				593905.884	ug/L	592936.498	
77 Se	-1.585423	566.021		13223.083	ug/L	13366.987	
98 Mo	0.005303	54.170		122.076	ug/L	95.062	
109 Ag	0.005733	33.220		168.669	ug/L	120.002	
> 115 In-2				1013702.755	ug/L	994304.053	
114 Cd	-0.001220	177.871		49.866	ug/L	53.748	
121 Sb	0.006787	21.576		376.675	ug/L	329.340	
137 Ba	0.043475	8.219		414.343	ug/L	281.339	
> 165 Ho-2				1316369.924	ug/L	1276105.159	
182 W	0.032743	12.786		667.689	ug/L	457.679	
183 W	0.023700	45.563		339.007	ug/L	253.338	
194 Pt	0.004549	72.516		100.335	ug/L	76.668	
195 Pt	0.001821	43.405		58.334	ug/L	48.001	
203 Tl	0.046439	33.891		1173.060	ug/L	780.029	
206 Pb	-0.010341	90.559		847.034	ug/L	888.037	
207 Pb	-0.009878	28.212		714.025	ug/L	745.027	
> 45 Sc				476756.961	ug/L	467697.114	
47 Ti	0.022088	150.342		674.356	ug/L	647.355	
86 Sr	0.024767	96.145		209.738	ug/L	151.307	
88 Sr	-0.001839	73.351		1291.071	ug/L	1301.072	
> 115 In				1013702.755	ug/L	994304.053	
118 Sn	0.112276	8.084		949.374	ug/L	357.341	



[ 120 Sn 0.103277 0.290 1223.836 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
[ B	10		
[ Na	23		
[ Mg	24		
[ Al	27		
[ K	39		
[ Ca	44		
> [ Sc-1	45	101.937	
[ V	51		
[ Cr	52		
[ Mn	55		
[ Fe	57		
[ Co	59		
[ Ni	60		
[ Cu	65		
[ Zn	66		
> [ Ge-1	72	100.163	
[ As	75		
[ Se	82		
[ Mo	97		
[ Ag	107		
[ Cd	111		
> [ In-1	115	101.951	
[ Sb	123		
[ Ba	135		
> [ Ho-1	165	103.155	
[ Tl	205		
[ Pb	208		
[ U	238		
> [ Sc-2	45	101.937	
[ Cr	53		
[ Fe	54		
[ Ni	61		
[ Cu	63		
[ Zn	67		
> [ Ge	72	100.163	
[ Se	77		
[ Mo	98		
[ Ag	109		
> [ In-2	115	101.951	
[ Cd	114		
[ Sb	121		
[ Ba	137		
> [ Ho-2	165	103.155	
[ W	182		
[ W	183		
[ Pt	194		
[ Pt	195		
[ Tl	203		
[ Pb	206		
[ Pb	207		
> [ Sc	45	101.937	
[ Tl	47		
[ Sr	86		
[ Sr	88		
> [ In	115	101.951	
[ Sn	118		
[ Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW057C

Sample Date/Time: Thursday, May 24, 2007 18:05:57

Autosampler Position: 58

Dataset File: D:\Elandata\Dataset\052407m1\JW057C.095

## Sample Result Summary

Mass Analyte	Conc.	MeanConc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	448.323239	0.839	70492.557	ug/L	3.000		
10 B	928.479136	2.903	33227.268	ug/L	90.668		
23 Na	9875.186192	3.711	47745238.964	ug/L	24909.622		
24 Mg	9808.755049	4.051	32225446.313	ug/L	6273.773		
27 Al	488.684735	3.168	2320790.175	ug/L	15227.265		
39 K	9559.932424	3.223	68054563.881	ug/L	707925.205		
44 Ca	9715.285137	1.618	2360582.614	ug/L	48369.900		
> 45 Sc-1			481063.674	ug/L	467697.114		
51 V	433.023943	1.946	3617240.450	ug/L	-17188.401		
52 Cr	444.994256	2.676	3136842.012	ug/L	43700.177		
55 Mn	455.303941	2.469	4824967.318	ug/L	3939.583		
57 Fe	482.030057	0.910	98701.985	ug/L	6563.304		
59 Co	437.597310	2.007	3271877.668	ug/L	70.668		
60 Ni	430.787795	1.266	701355.534	ug/L	205.004		
65 Cu	427.058418	1.624	829593.011	ug/L	201.670		
66 Zn	406.494490	1.937	462942.893	ug/L	3569.482		
> 72 Ge-1			568613.857	ug/L	592936.498		
75 As	481.824020	0.782	642828.231	ug/L	-502.888		
82 Se	451.937745	1.021	65007.034	ug/L	-70.642		
97 Mo	476.337566	1.018	886178.584	ug/L	69.001		
107 Ag	121.054713	1.348	979798.453	ug/L	109.002		
111 Cd	453.020762	1.326	814265.201	ug/L	35.667		
> 115 In-1			1018334.559	ug/L	994304.053		
123 Sb	436.774680	0.916	2043047.708	ug/L	235.401		
135 Ba	431.002975	0.321	724668.903	ug/L	183.670		
> 165 Ho-1			1307015.782	ug/L	1276105.159		
205 Tl	460.784336	2.344	8625615.956	ug/L	1936.818		
208 Pb	463.491538	1.053	11751834.990	ug/L	3500.871		
238 U	946.490920	1.989	15411955.257	ug/L	35.667		
> 45 Sc-2			481063.674	ug/L	467697.114		
53 Cr	552.825390	3.875	702433.381	ug/L	319041.768		
54 Fe	590.643354	1.760	338057.222	ug/L	42890.999		
61 Ni	445.044933	1.192	33863.098	ug/L	1069.051		
63 Cu	421.242875	1.413	1608462.105	ug/L	321.674		
67 Zn	432.476978	4.412	108908.080	ug/L	21519.078		
> 72 Ge			568613.857	ug/L	592936.498		
77 Se	420.295372	3.798	56540.998	ug/L	13366.987		
98 Mo	457.789572	2.407	2190167.149	ug/L	95.062		
109 Ag	124.008722	1.197	1007904.627	ug/L	120.002		
> 115 In-2			1018334.559	ug/L	994304.053		
114 Cd	447.481452	0.575	1792356.860	ug/L	53.748		
121 Sb	457.068625	1.089	2770098.224	ug/L	329.340		
137 Ba	431.379369	0.215	1224208.268	ug/L	281.339		
> 165 Ho-2			1307015.782	ug/L	1276105.159		
182 W	911.670594	1.973	5400513.941	ug/L	457.679		
183 W	898.590797	2.662	2926453.901	ug/L	253.338		
194 Pt	861.004287	2.830	4021388.093	ug/L	76.668		
195 Pt	884.303472	2.402	4234763.485	ug/L	48.001		
203 Tl	452.544174	2.915	3562662.541	ug/L	780.029		
206 Pb	457.166296	1.453	3003119.050	ug/L	888.037		
207 Pb	472.099405	0.936	2593051.760	ug/L	745.027		
> 45 Sc			481063.674	ug/L	467697.114		
47 Ti	904.645327	1.541	600760.781	ug/L	647.355		
86 Sr	451.978554	1.726	1019391.830	ug/L	151.307		
88 Sr	460.652110	1.809	8918789.338	ug/L	1301.072		
> 115 In			1018334.559	ug/L	994304.053		
118 Sn	881.151447	1.093	4612328.930	ug/L	357.341		

120 Sn 908.441426 0.597 6412617.704 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	102.858	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
Zn	66		
> Ge-1	72	95.898	
As	75		
Se	82		
Mo	97		
Ag	107		
Cd	111		
> In-1	115	102.417	
Sb	123		
Ba	135		
> Ho-1	165	102.422	
Tl	205		
Pb	208		
U	238		
> Sc-2	45	102.858	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
Zn	67		
> Ge	72	95.898	
Se	77		
Mo	98		
Ag	109		
> In-2	115	102.417	
Cd	114		
Sb	121		
Ba	137		
> Ho-2	165	102.422	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
Pb	207		
> Sc	45	102.858	
Tl	47		
Sr	86		
Sr	88		
> In	115	102.417	
Sn	118		
Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW0G7

Sample Date/Time: Thursday, May 24, 2007 18:12:01

Autosampler Position: 59

Dataset File: D:\Elandata\Dataset\052407m1\JW0G7.096

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.020147	66.472		6.000		ug/L	3.000
10 B	203.254428	3.562		7056.148		ug/L	90.668
23 Na	18198.524544	1.892		84495643.263		ug/L	24909.622
24 Mg	726.352733	2.612		2298153.903		ug/L	6273.773
27 Al	0.171004	12.034		15812.905		ug/L	15227.265
39 K	372.219663	0.869		3216958.032		ug/L	707925.205
44 Ca	911.612406	0.700		255996.879		ug/L	48369.900
> 45 Sc-1				461894.962		ug/L	467697.114
51 V	3.124485	17.849		8220.525		ug/L	-17188.401
52 Cr	44.089280	1.684		337370.857		ug/L	43700.177
55 Mn	0.130498	2.630		5217.672		ug/L	3939.583
57 Fe	-6.362727	9.262		5316.369		ug/L	6563.304
59 Co	0.013022	39.289		163.336		ug/L	70.668
60 Ni	0.047930	20.916		277.339		ug/L	205.004
65 Cu	0.097521	14.420		381.009		ug/L	201.670
66 Zn	-0.208289	36.699		3299.081		ug/L	3569.482
> 72 Ge-1				568597.874		ug/L	592936.498
75 As	5.005264	3.231		6202.701		ug/L	-502.888
82 Se	0.242065	99.769		-32.613		ug/L	-70.642
97 Mo	0.540791	5.426		1020.380		ug/L	69.001
107 Ag	0.005716	70.635		149.669		ug/L	109.002
111 Cd	0.034656	37.434		93.668		ug/L	35.667
> 115 In-1				964941.911		ug/L	994304.053
123 Sb	0.033994	17.643		379.163		ug/L	235.401
135 Ba	0.203138	11.368		515.681		ug/L	183.670
> 165 Ho-1				1273158.609		ug/L	1276105.159
205 Tl	0.647731	40.858		13788.716		ug/L	1936.818
208 Pb	-0.002314	342.298		3437.530		ug/L	3500.871
238 U	0.290513	1.970		4644.802		ug/L	35.667
> 45 Sc-2				461894.962		ug/L	467697.114
53 Cr	-47.595031	6.182		284126.145		ug/L	319041.768
54 Fe	-4.240381	125.733		40335.870		ug/L	42890.999
61 Ni	-0.557350	59.002		1016.380		ug/L	1069.051
63 Cu	0.152666	8.197		877.369		ug/L	321.674
67 Zn	-7.701150	9.518		19767.531		ug/L	21519.078
> 72 Ge				568597.874		ug/L	592936.498
77 Se	-70.603286	0.833		5472.003		ug/L	13366.987
98 Mo	0.523602	7.446		2466.452		ug/L	95.062
109 Ag	0.032131	23.361		364.008		ug/L	120.002
> 115 In-2				964941.911		ug/L	994304.053
114 Cd	0.039588	28.000		202.500		ug/L	53.748
121 Sb	0.027099	40.585		475.346		ug/L	329.340
137 Ba	0.208652	3.243		857.368		ug/L	281.339
> 165 Ho-2				1273158.609		ug/L	1276105.159
182 W	0.553440	24.655		3657.855		ug/L	457.679
183 W	0.552323	20.261		2008.498		ug/L	253.338
194 Pt	0.020346	70.577		169.669		ug/L	76.668
195 Pt	0.021031	35.566		146.336		ug/L	48.001
203 Tl	0.642825	38.885		5725.632		ug/L	780.029
206 Pb	0.000831	1439.224		892.037		ug/L	888.037
207 Pb	-0.002940	321.999		728.026		ug/L	745.027
> 45 Sc				461894.962		ug/L	467697.114
47 Tl	-0.033660	258.935		618.020		ug/L	647.355
86 Sr	24.089598	0.539		52318.625		ug/L	151.307
88 Sr	24.070044	1.081		448747.073		ug/L	1301.072
> 115 In				964941.911		ug/L	994304.053
118 Sn	0.066607	34.259		677.356		ug/L	357.341

[ 120 Sn 0.066978 23.973 922.370 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	98.758	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
Zn	66		
> Ge-1	72	95.895	
As	75		
Se	82		
Mo	97		
Ag	107		
Cd	111		
> In-1	115	97.047	
Sb	123		
Ba	135		
> Ho-1	165	98.769	
Tl	205		
Pb	208		
U	238		
> Sc-2	45	98.759	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
Zn	67		
> Ge	72	95.895	
Se	77		
Mo	98		
Ag	109		
> In-2	115	97.047	
Cd	114		
Sb	121		
Ba	137		
> Ho-2	165	98.769	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
Pb	207		
> Sc	45	98.759	
Tl	47		
Sr	86		
Sr	88		
> In	115	97.047	
Sn	118		
Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW0G7S

Sample Date/Time: Thursday, May 24, 2007 18:18:05

Autosampler Position: 60

Dataset File: D:\Elandata\Dataset\052407m1\JW0G7S.097

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.474352	17.139		70.668	ug/L	3.000	
10 B	222.596304	2.334		7318.616	ug/L	90.668	
23 Na	18863.810497	2.927		82993056.935	ug/L	24909.622	
24 Mg	1227.296016	1.980		3675722.886	ug/L	6273.773	
27 Al	19.570659	2.081		98279.226	ug/L	15227.265	
39 K	866.122192	3.119		6214151.972	ug/L	707925.205	
44 Ca	1447.515293	1.086		358659.212	ug/L	48369.900	
> 45 Sc-1				437835.966	ug/L	467697.114	
51 V	7.154592	3.873		38581.261	ug/L	-17188.401	
52 Cr	47.777474	1.939		343049.285	ug/L	43700.177	
55 Mn	5.077405	1.887		52614.908	ug/L	3939.583	
57 Fe	5.749052	19.744		7140.286	ug/L	6563.304	
59 Co	4.908536	0.414		33473.850	ug/L	70.668	
60 Ni	4.760612	1.697		7244.243	ug/L	205.004	
65 Cu	2.501870	0.918		4812.458	ug/L	201.670	
66 Zn	4.177702	4.006		7636.117	ug/L	3569.482	
> 72 Ge-1				540538.034	ug/L	592936.498	
75 As	25.973405	2.858		32504.509	ug/L	-502.888	
82 Se	18.108042	3.980		2414.317	ug/L	-70.642	
97 Mo	10.138667	1.195		17264.266	ug/L	69.001	
107 Ag	0.564232	2.147		4266.013	ug/L	109.002	
111 Cd	0.535421	4.546		911.038	ug/L	35.667	
> 115 In-1				928676.587	ug/L	994304.053	
123 Sb	4.804351	1.280		20710.483	ug/L	235.401	
135 Ba	18.647472	2.713		29126.290	ug/L	183.670	
> 165 Ho-1				1207871.771	ug/L	1276105.159	
205 Tl	19.341065	3.219		336218.860	ug/L	1936.818	
208 Pb	4.922938	1.334		118608.867	ug/L	3500.871	
238 U	20.090249	2.534		302238.377	ug/L	35.667	
> 45 Sc-2				437835.966	ug/L	467697.114	
53 Cr	-19.308446	72.767		286632.578	ug/L	319041.768	
54 Fe	11.404679	52.485		45353.772	ug/L	42890.999	
61 Ni	4.902215	18.536		1330.075	ug/L	1069.051	
63 Cu	2.542867	1.616		9135.011	ug/L	321.674	
67 Zn	-0.328365	728.157		20078.301	ug/L	21519.078	
> 72 Ge				540538.034	ug/L	592936.498	
77 Se	-39.901957	6.649		8235.618	ug/L	13366.987	
98 Mo	10.210015	0.911		44634.229	ug/L	95.062	
109 Ag	0.782475	0.639		5911.616	ug/L	120.002	
> 115 In-2				928676.587	ug/L	994304.053	
114 Cd	0.520008	4.515		1948.844	ug/L	53.748	
121 Sb	4.950930	2.124		27668.721	ug/L	329.340	
137 Ba	19.216296	0.571		50645.496	ug/L	281.339	
> 165 Ho-2				1207871.771	ug/L	1276105.159	
182 W	20.068355	2.333		110247.571	ug/L	457.679	
183 W	19.432878	1.278		58716.706	ug/L	253.338	
194 Pt	19.969293	1.760		86242.438	ug/L	76.668	
195 Pt	20.052992	1.864		88763.831	ug/L	48.001	
203 Tl	19.123470	3.398		139769.992	ug/L	780.029	
206 Pb	4.897058	1.186		30562.654	ug/L	888.037	
207 Pb	4.946071	3.141		25789.182	ug/L	745.027	
> 45 Sc				437835.966	ug/L	467697.114	
47 Ti	19.287083	1.358		12250.707	ug/L	647.355	
86 Sr	33.699325	0.930		69310.807	ug/L	151.307	
88 Sr	33.911476	0.769		598742.024	ug/L	1301.072	
> 115 In				928676.587	ug/L	994304.053	
118 Sn	19.759975	0.966		94655.904	ug/L	357.341	

[ 120 Sn 19.928399 0.646 128742.915 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	93.615	
] V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
] Ni	60		
Cu	65		
Zn	66		
> Ge-1	72	91.163	
As	75		
Se	82		
Mo	97		
Ag	107		
Cd	111		
> In-1	115	93.400	
Sb	123		
Ba	135		
> Ho-1	165	94.653	
Tl	205		
Pb	208		
U	238		
> Sc-2	45	93.615	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
Zn	67		
> Ge	72	91.163	
Se	77		
Mo	98		
Ag	109		
> In-2	115	93.400	
Cd	114		
Sb	121		
Ba	137		
> Ho-2	165	94.653	
W	182		
W	183		
Pt	194		
Pt	196		
Ti	203		
Pb	206		
Pb	207		
> Sc	45	93.615	
Ti	47		
Sr	86		
Sr	88		
> In	115	93.400	
Sn	118		
Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW0G7D

Sample Date/Time: Thursday, May 24, 2007 18:24:09

Autosampler Position: 61

Dataset File: D:\Elandata\Dataset\052407m1\JW0G7D.098

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.433667	10.587		66.667	ug/L	3.000	
10 B	214.085008	0.734		7240.907	ug/L	90.668	
23 Na	18703.464741	3.147		84636968.015	ug/L	24909.622	
24 Mg	1232.267448	2.445		3795844.355	ug/L	6273.773	
27 Al	20.046047	1.882		103188.369	ug/L	15227.265	
39 K	866.744433	1.715		6409711.591	ug/L	707925.205	
44 Ca	1444.601056	1.701		368210.607	ug/L	48369.900	
> 45 Sc-1				450282.248	ug/L	467697.114	
51 V	7.560358	8.939		42902.532	ug/L	-17188.401	
52 Cr	47.839556	1.585		353265.124	ug/L	43700.177	
55 Mn	5.052761	1.997		53875.613	ug/L	3939.583	
57 Fe	5.104913	12.722		7229.666	ug/L	6563.304	
59 Co	4.966897	1.201		34833.097	ug/L	70.668	
60 Ni	4.833311	1.770		7562.411	ug/L	205.004	
65 Cu	2.488047	1.551		4717.493	ug/L	201.670	
66 Zn	4.211281	1.082		7890.924	ug/L	3569.482	
> 72 Ge-1				551751.502	ug/L	592936.498	
75 As	25.601275	1.567		32701.456	ug/L	-502.888	
82 Se	17.405226	3.920		2365.584	ug/L	-70.642	
97 Mo	10.434677	2.606		17823.293	ug/L	69.001	
107 Ag	0.573505	0.977		4348.705	ug/L	109.002	
111 Cd	0.522838	4.876		883.037	ug/L	35.667	
> 115 In-1				931663.728	ug/L	994304.053	
123 Sb	5.036260	0.883		21771.790	ug/L	235.401	
135 Ba	19.247173	1.070		30498.159	ug/L	183.670	
> 165 Ho-1				1225078.846	ug/L	1276105.159	
205 Tl	19.311266	2.871		340556.300	ug/L	1936.818	
208 Pb	4.950724	2.181		120963.210	ug/L	3500.871	
238 U	20.558831	2.611		313778.597	ug/L	35.667	
> 45 Sc-2				450282.248	ug/L	467697.114	
53 Cr	-23.385216	28.365		292306.833	ug/L	319041.768	
54 Fe	8.419908	56.912		45232.583	ug/L	42890.999	
61 Ni	4.353970	6.052		1329.409	ug/L	1069.051	
63 Cu	2.552835	1.549		9431.540	ug/L	321.674	
67 Zn	-0.842690	161.121		20557.853	ug/L	21519.078	
> 72 Ge				551751.502	ug/L	592936.498	
77 Se	-35.610893	7.405		8841.141	ug/L	13366.987	
98 Mo	10.480352	1.419		45962.991	ug/L	95.062	
109 Ag	0.769928	3.281		5837.585	ug/L	120.002	
> 115 In-2				931663.728	ug/L	994304.053	
114 Cd	0.525457	4.441		1975.760	ug/L	53.748	
121 Sb	5.115739	0.006		28673.033	ug/L	329.340	
137 Ba	19.845392	1.114		53044.850	ug/L	281.339	
> 165 Ho-2				1225078.846	ug/L	1276105.159	
182 W	20.244338	1.504		112837.725	ug/L	457.679	
183 W	19.878291	1.188		60920.564	ug/L	253.338	
194 Pt	19.904083	1.477		87205.237	ug/L	76.668	
195 Pt	20.129585	1.313		90396.348	ug/L	48.001	
203 Tl	19.258079	3.709		142779.919	ug/L	780.029	
206 Pb	4.921749	2.303		31143.557	ug/L	888.037	
207 Pb	4.947793	1.483		26177.892	ug/L	745.027	
> 45 Sc				450282.248	ug/L	467697.114	
47 Ti	19.574866	0.700		12779.175	ug/L	647.355	
86 Sr	33.979739	1.635		71876.183	ug/L	151.307	
88 Sr	34.171963	1.739		620487.956	ug/L	1301.072	
> 115 In				931663.728	ug/L	994304.053	
118 Sn	20.247850	0.458		97294.496	ug/L	357.341	



[ 120 Sn 20.570360 0.368 133293.652 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
[ B	10		
[ Na	23		
[ Mg	24		
[ Al	27		
[ K	39		
[ Ca	44		
> Sc-1	45	96.276	
[ V	51		
[ Cr	52		
[ Mn	55		
[ Fe	57		
[ Co	59		
[ Ni	60		
[ Cu	65		
[ Zn	66		
> Ge-1	72	93.054	
[ As	75		
[ Se	82		
[ Mo	97		
[ Ag	107		
[ Cd	111		
> In-1	115	93.700	
[ Sb	123		
[ Ba	135		
> Ho-1	165	98.001	
[ Tl	205		
[ Pb	208		
[ U	238		
> Sc-2	45	96.276	
[ Cr	53		
[ Fe	54		
[ Ni	61		
[ Cu	63		
[ Zn	67		
> Ge	72	93.054	
[ Se	77		
[ Mo	98		
[ Ag	109		
> In-2	115	93.700	
[ Cd	114		
[ Sb	121		
[ Ba	137		
> Ho-2	165	98.001	
[ W	182		
[ W	183		
[ Pt	194		
[ Pt	195		
[ Tl	203		
[ Pb	206		
[ Pb	207		
> Sc	45	96.276	
[ Ti	47		
[ Sr	86		
[ Sr	88		
> In	115	93.700	
[ Sn	118		
[ Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW0G7V

Sample Date/Time: Thursday, May 24, 2007 18:30:14

Autosampler Position: 62

Dataset File: D:\Elandata\Dataset\052407m1JW0G7V.099

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.003273	493.026		3.333		ug/L	3.000
10 B	47.399334	9.603		1660.447		ug/L	90.668
23 Na	3735.645444	1.141		16831258.716		ug/L	24909.622
24 Mg	156.627290	1.124		485006.940		ug/L	6273.773
27 Al	-1.047119	4.074		9976.583		ug/L	15227.265
39 K	71.665345	3.055		1147621.072		ug/L	707925.205
44 Ca	171.295127	1.607		84220.705		ug/L	48369.900
> 45 Sc-1				447692.741		ug/L	467697.114
51 V	1.132873	81.804		-7591.121		ug/L	-17188.401
52 Cr	8.638075	0.256		97702.964		ug/L	43700.177
55 Mn	-0.092227	9.271		2861.649		ug/L	3939.583
57 Fe	-3.435812	28.016		5671.654		ug/L	6563.304
59 Co	-0.000094	1958.363		67.001		ug/L	70.668
60 Ni	-0.010869	130.554		179.670		ug/L	205.004
65 Cu	-0.018488	28.470		159.669		ug/L	201.670
66 Zn	-0.991687	1.914		2373.888		ug/L	3569.482
> 72 Ge-1				554506.700		ug/L	592936.498
75 As	1.484553	34.893		1464.118		ug/L	-502.888
82 Se	0.105596	301.650		-51.176		ug/L	-70.642
97 Mo	0.098759	8.463		241.338		ug/L	69.001
107 Ag	0.000055	3013.956		106.335		ug/L	109.002
111 Cd	0.000022	6401.032		34.667		ug/L	35.667
> 115 In-1				965531.174		ug/L	994304.053
123 Sb	0.007656	55.087		262.388		ug/L	235.401
135 Ba	0.037231	25.558		237.671		ug/L	183.670
> 165 Ho-1				1238894.578		ug/L	1276105.159
205 Tl	0.160434	34.734		4723.850		ug/L	1936.818
208 Pb	-0.027828	14.874		2729.795		ug/L	3500.871
238 U	0.054166	4.261		870.702		ug/L	35.667
> 45 Sc-2				447692.741		ug/L	467697.114
53 Cr	-57.065875	3.845		269416.519		ug/L	319041.768
54 Fe	-0.977264	755.485		40579.505		ug/L	42890.999
61 Ni	-0.534890	113.860		986.711		ug/L	1069.051
63 Cu	-0.006248	85.474		285.672		ug/L	321.674
67 Zn	-7.440985	21.506		19206.428		ug/L	21519.078
> 72 Ge				554506.700		ug/L	592936.498
77 Se	-44.464738	3.293		7988.498		ug/L	13366.987
98 Mo	0.101768	7.295		553.667		ug/L	95.062
109 Ag	0.001988	101.583		132.002		ug/L	120.002
> 115 In-2				965531.174		ug/L	994304.053
114 Cd	0.003254	16.704		64.545		ug/L	53.748
121 Sb	-0.001596	546.489		310.340		ug/L	329.340
137 Ba	0.027561	34.887		347.341		ug/L	281.339
> 165 Ho-2				1238894.578		ug/L	1276105.159
182 W	0.107252	9.637		1046.382		ug/L	457.679
183 W	0.102194	10.312		561.350		ug/L	253.338
194 Pt	-0.000917	273.320		70.334		ug/L	76.668
195 Pt	0.002298	151.741		57.001		ug/L	48.001
203 Tl	0.165338	30.840		1989.828		ug/L	780.029
206 Pb	-0.024372	12.946		710.358		ug/L	888.037
207 Pb	-0.024377	15.785		596.352		ug/L	745.027
> 45 Sc				447692.741		ug/L	467697.114
47 Ti	-0.085342	89.873		567.017		ug/L	647.355
86 Sr	5.083545	1.260		10814.716		ug/L	151.307
88 Sr	5.092173	1.001		92993.954		ug/L	1301.072
> 115 In				965531.174		ug/L	994304.053
118 Sn	0.006191	127.185		377.342		ug/L	357.341

[ 120 Sn 0.007925 83.125 527.142 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	95.723	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
Zn	68		
> Ge-1	72	93.519	
As	75		
Se	82		
Mo	97		
Ag	107		
Cd	111		
> In-1	115	97.108	
Sb	123		
Ba	135		
> Ho-1	165	97.084	
Tl	205		
Pb	208		
U	238		
> Sc-2	45	95.723	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
Zn	67		
> Ge	72	93.519	
Se	77		
Mo	98		
Ag	109		
> In-2	115	97.108	
Cd	114		
Sb	121		
Ba	137		
> Ho-2	165	97.084	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
Pb	207		
> Sc	45	95.723	
Tl	47		
Sr	86		
Sr	88		
> In	115	97.106	
Sn	118		
Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW0G9

Sample Date/Time: Thursday, May 24, 2007 18:36:20

Autosampler Position: 63

Dataset File: D:\Elandata\Dataset\052407m1\JW0G9.100

## Sample Result Summary

Mass	Analyte	Conc.	Mean	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
	9 Be	0.002918	705.634			3.333	ug/L	3.000
	10 B	208.173080	1.107			7065.818	ug/L	90.668
	23 Na	19057.180285	3.172			86528293.683	ug/L	24909.622
	24 Mg	785.182206	2.942			2428909.735	ug/L	6273.773
	27 Al	0.325183	28.308			16148.622	ug/L	15227.265
	39 K	398.277810	2.808			3318383.119	ug/L	707925.205
	44 Ca	1004.503334	2.212			271091.602	ug/L	48369.900
>	45 Sc-1					451720.642	ug/L	467697.114
	51 V	3.698833	17.532			12565.851	ug/L	-17188.401
	52 Cr	62.510333	0.925			450159.766	ug/L	43700.177
	55 Mn	3.464905	0.921			38281.553	ug/L	3939.583
	57 Fe	126.231674	1.245			28949.351	ug/L	6563.304
	59 Co	0.014964	6.381			173.336	ug/L	70.668
	60 Ni	0.068479	13.703			302.673	ug/L	205.004
	65 Cu	0.084741	16.454			349.341	ug/L	201.670
	66 Zn	-0.460109	5.602			2959.336	ug/L	3589.482
>	72 Ge-1					553859.372	ug/L	592936.498
	75 As	6.557336	6.375			8058.604	ug/L	-502.888
	82 Se	0.191672	127.106			-38.910	ug/L	-70.642
	97 Mo	0.471033	3.509			887.370	ug/L	69.001
	107 Ag	0.004097	18.616			135.669	ug/L	109.002
	111 Cd	0.002496	298.212			38.334	ug/L	35.687
>	115 In-1					954521.493	ug/L	994304.053
	123 Sb	0.006924	49.191			256.371	ug/L	235.401
	135 Ba	0.263495	2.830			599.685	ug/L	183.670
>	165 Ho-1					1242112.776	ug/L	1276105.159
	205 Tl	0.075596	27.523			3229.400	ug/L	1936.818
	208 Pb	-0.030571	15.663			2670.792	ug/L	3500.871
	238 U	0.299434	1.374			4668.810	ug/L	35.667
>	45 Sc-2					451720.642	ug/L	467697.114
	53 Cr	3.860911	72.804			310592.158	ug/L	319041.768
	54 Fe	130.720343	6.207			102517.057	ug/L	42890.999
	61 Ni	-0.308637	166.675			1011.046	ug/L	1089.051
	63 Cu	0.140778	0.415			815.365	ug/L	321.674
	67 Zn	-6.680874	20.870			19523.527	ug/L	21519.078
>	72 Ge					553859.372	ug/L	592936.498
	77 Se	-49.958643	5.552			7421.671	ug/L	13366.987
	98 Mo	0.460515	4.140			2155.842	ug/L	95.062
	109 Ag	0.004256	29.095			147.669	ug/L	120.002
>	115 In-2					954521.493	ug/L	994304.053
	114 Cd	0.004210	70.268			67.478	ug/L	53.748
	121 Sb	0.004309	39.505			340.674	ug/L	329.340
	137 Ba	0.280611	3.873			1030.381	ug/L	281.339
>	165 Ho-2					1242112.776	ug/L	1276105.159
	182 W	0.126651	6.061			1158.392	ug/L	457.679
	183 W	0.126913	5.410			639.354	ug/L	253.338
	194 Pt	-0.002550	109.576			63.334	ug/L	76.668
	195 Pt	0.000943	133.650			51.001	ug/L	48.001
	203 Tl	0.079474	29.559			1353.412	ug/L	780.029
	206 Pb	-0.030428	19.794			674.356	ug/L	888.037
	207 Pb	-0.028692	20.094			575.351	ug/L	745.027
>	45 Sc					451720.642	ug/L	467697.114
	47 Ti	0.074464	38.404			671.689	ug/L	647.355
	86 Sr	25.893932	0.838			54984.990	ug/L	151.307
	88 Sr	25.927944	1.486			472625.343	ug/L	1301.072
>	115 In					954521.493	ug/L	994304.053
	118 Sn	0.002455	117.081			355.008	ug/L	357.341

[ 120 Sn -0.003010 149.555 449.365 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
[ B	10		
[ Na	23		
[ Mg	24		
[ Al	27		
[ K	39		
[ Ca	44		
> Sc-1	45	96.584	
[ V	51		
[ Cr	52		
[ Mn	55		
[ Fe	57		
[ Co	59		
[ Ni	60		
[ Cu	65		
[ Zn	66		
> Ge-1	72	93.410	
[ As	75		
[ Se	82		
[ Mo	97		
[ Ag	107		
[ Cd	111		
> In-1	115	95.999	
[ Sb	123		
[ Ba	135		
> Ho-1	165	97.336	
[ Tl	205		
[ Pb	208		
[ U	238		
> Sc-2	45	98.584	
[ Cr	53		
[ Fe	54		
[ Ni	61		
[ Cu	63		
[ Zn	67		
> Ge	72	93.410	
[ Se	77		
[ Mo	98		
[ Ag	109		
> In-2	115	95.999	
[ Cd	114		
[ Sb	121		
[ Ba	137		
> Ho-2	165	97.336	
[ W	182		
[ W	183		
[ Pt	194		
[ Pt	195		
[ Tl	203		
[ Pb	206		
[ Pb	207		
> Sc	45	96.584	
[ Tl	47		
[ Sr	86		
[ Sr	88		
> In	115	95.999	
[ Sn	118		
[ Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6

Sample Date/Time: Thursday, May 24, 2007 18:42:28

Autosampler Position: 7

Dataset File: D:\Elandata\Dataset\052407m1\QC Std 6.101

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	189.151971	1.353	28799.626	ug/L	3.000		
10 B	189.589552	1.829	6642.944	ug/L	90.668		
23 Na	1909.437214	2.638	8961621.665	ug/L	24909.622		
24 Mg	988.579521	1.639	3151647.335	ug/L	6273.773		
27 Al	1950.308088	0.994	8925796.637	ug/L	15227.265		
39 K	1876.421268	1.551	13504201.099	ug/L	707925.205		
44 Ca	1042.205410	1.501	288237.419	ug/L	48369.900		
> 45 Sc-1			465773.588	ug/L	467697.114		
51 V	178.341912	2.349	1432593.172	ug/L	-17188.401		
52 Cr	186.581185	1.068	1299077.394	ug/L	43700.177		
55 Mn	182.799904	0.337	1878377.373	ug/L	3939.583		
57 Fe	2055.708950	0.748	386209.931	ug/L	6563.304		
59 Co	185.114067	0.493	1340439.659	ug/L	70.668		
60 Ni	182.111438	0.381	287216.032	ug/L	205.004		
65 Cu	183.233711	0.179	344811.815	ug/L	201.670		
66 Zn	183.918182	0.261	204789.787	ug/L	3569.482		
> 72 Ge-1			561387.044	ug/L	592936.498		
75 As	193.891159	0.896	255110.363	ug/L	-502.888		
82 Se	193.331246	0.797	27417.292	ug/L	-70.642		
97 Mo	192.477882	0.809	338038.721	ug/L	69.001		
107 Ag	48.900085	2.449	373629.502	ug/L	109.002		
111 Cd	195.151730	1.034	331132.932	ug/L	35.667		
> 115 In-1			961186.325	ug/L	994304.053		
123 Sb	192.819456	0.979	851511.513	ug/L	235.401		
135 Ba	183.182738	1.009	297464.501	ug/L	183.670		
> 165 Ho-1			1261875.807	ug/L	1276105.159		
205 Tl	183.073529	1.834	3310186.925	ug/L	1936.818		
208 Pb	189.525165	1.420	4641596.839	ug/L	3500.871		
238 U	192.134604	2.224	3020844.140	ug/L	35.667		
> 45 Sc-2			465773.588	ug/L	467697.114		
53 Cr	126.176226	2.827	400477.614	ug/L	319041.768		
54 Fe	2008.007638	1.598	1010407.367	ug/L	42890.999		
61 Ni	181.770405	1.151	14022.353	ug/L	1069.051		
63 Cu	183.930808	0.189	680224.078	ug/L	321.674		
67 Zn	167.786562	1.787	54041.234	ug/L	21519.076		
> 72 Ge			561387.044	ug/L	592936.498		
77 Se	170.323105	2.361	30154.413	ug/L	13366.987		
98 Mo	193.569328	0.341	874250.632	ug/L	95.062		
109 Ag	47.849808	1.250	367136.815	ug/L	120.002		
> 115 In-2			961186.325	ug/L	994304.053		
114 Cd	195.794062	1.398	740311.785	ug/L	53.748		
121 Sb	192.489335	0.336	1101398.065	ug/L	329.340		
137 Ba	187.110570	1.016	512808.844	ug/L	281.339		
> 165 Ho-2			1261875.807	ug/L	1276105.159		
182 W	188.200639	0.122	1076852.489	ug/L	457.679		
183 W	186.697792	0.767	587326.441	ug/L	253.338		
194 Pt	189.685342	0.552	855507.543	ug/L	76.668		
195 Pt	191.430642	0.826	885189.780	ug/L	48.001		
203 Tl	182.835541	1.918	1390265.391	ug/L	780.029		
206 Pb	196.083415	1.984	1244153.024	ug/L	888.037		
207 Pb	191.115913	1.519	1013936.900	ug/L	745.027		
> 45 Sc			465773.588	ug/L	467697.114		
47 Ti	191.192855	1.714	123459.825	ug/L	647.355		
86 Sr	188.458139	1.018	411698.893	ug/L	151.307		
88 Sr	186.929133	2.173	3505540.175	ug/L	1301.072		
> 115 In			961186.325	ug/L	994304.053		
118 Sn	191.318677	1.176	945507.660	ug/L	357.341		

[ 120 Sn 191.964895 0.809 1279362.723 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		94.576
[ B	10		94.795
[ Na	23		95.472
[ Mg	24		95.858
[ Al	27		97.515
[ K	39		93.821
[ Ca	44		104.221
[> Sc-1	45	99.589	
[ V	51		89.171
[ Cr	52		93.291
[ Mn	55		91.400
[ Fe	57		102.785
[ Co	59		92.557
[ Ni	60		91.056
[ Cu	65		91.817
[ Zn	66		91.959
[> Ge-1	72	94.679	
[ As	75		95.946
[ Se	82		95.886
[ Mo	97		95.239
[ Ag	107		97.800
[ Cd	111		97.575
[> In-1	115	95.669	
[ Sb	123		95.410
[ Ba	135		91.591
[> Ho-1	165	98.885	
[ Tl	205		91.537
[ Pb	208		94.783
[ U	238		95.067
[> Sc-2	45	99.589	
[ Cr	53		63.088
[ Fe	54		100.400
[ Ni	61		90.885
[ Cu	63		91.985
[ Zn	67		83.893
[> Ge	72	94.679	
[ Se	77		85.162
[ Mo	98		95.785
[ Ag	109		95.700
[> In-2	115	95.669	
[ Cd	114		97.897
[ Sb	121		95.245
[ Ba	137		93.555
[> Ho-2	165	98.885	
[ W	182		94.100
[ W	183		93.349
[ Pt	194		94.843
[ Pt	195		95.715
[ Tl	203		91.418
[ Pb	206		98.042
[ Pb	207		95.558
[> Sc	45	99.589	
[ Tl	47		95.596
[ Sr	86		94.229
[ Sr	88		93.465
[> In	115	95.669	
[ Sn	118		95.659
[ Sn	120		95.982

**QC Out Of Limits**

Analyte	Mass	Out of Limits Message
V	51	Q
Cr	53	Q
Zn	67	Q
Se	77	Q

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 7

Sample Date/Time: Thursday, May 24, 2007 18:49:05

Autosampler Position: 1

Dataset File: D:\Elandata\Dataset\052407m1\QC Std 7.102

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.016347	83.019		5.333	ug/L	3.000	
10 B	5.851556	22.588		284.006	ug/L	90.668	
23 Na	4.905736	180.442		45976.270	ug/L	24909.622	
24 Mg	-0.047328	43.785		5913.950	ug/L	6273.773	
27 Al	-0.585254	15.961		12111.254	ug/L	15227.265	
39 K	-2.934804	70.107		664299.234	ug/L	707925.205	
44 Ca	-25.071720	24.342		41108.481	ug/L	48369.900	
> 45 Sc-1				451817.376	ug/L	467697.114	
51 V	1.416607	15.216		-5425.748	ug/L	-17188.401	
52 Cr	-1.333575	5.097		33505.581	ug/L	43700.177	
55 Mn	-0.131096	2.565		2502.244	ug/L	3939.583	
57 Fe	-3.764635	18.531		5664.523	ug/L	6563.304	
59 Co	0.004908	44.266		102.668	ug/L	70.668	
60 Ni	0.002300	249.765		201.670	ug/L	205.004	
65 Cu	-0.011321	71.816		174.336	ug/L	201.670	
66 Zn	-0.568751	4.608		2844.312	ug/L	3569.482	
> 72 Ge-1				562606.792	ug/L	592936.498	
75 As	0.279410	51.220		-108.640	ug/L	-502.888	
82 Se	0.090874	333.885		-54.408	ug/L	-70.642	
97 Mo	0.086100	39.407		218.337	ug/L	69.001	
107 Ag	0.003328	63.243		130.669	ug/L	109.002	
111 Cd	0.013580	35.338		57.667	ug/L	35.667	
> 115 In-1				961494.396	ug/L	994304.053	
123 Sb	0.032641	18.785		371.792	ug/L	235.401	
135 Ba	-0.003844	406.969		175.670	ug/L	183.670	
> 165 Ho-1				1264640.334	ug/L	1276105.159	
205 Tl	0.327661	33.659		7864.008	ug/L	1936.818	
208 Pb	-0.013449	40.961		3140.166	ug/L	3500.871	
238 U	0.006511	13.391		138.002	ug/L	35.667	
> 45 Sc-2				451817.376	ug/L	467697.114	
53 Cr	-84.017294	12.874		254674.980	ug/L	319041.768	
54 Fe	-3.806349	82.090		39673.792	ug/L	42890.999	
61 Ni	-0.541125	114.208		995.378	ug/L	1069.051	
63 Cu	-0.007380	26.681		284.339	ug/L	321.674	
67 Zn	-6.136184	31.651		19627.337	ug/L	21519.078	
> 72 Ge				562606.792	ug/L	592936.498	
77 Se	-55.545362	8.344		6960.271	ug/L	13386.987	
98 Mo	0.092653	34.491		511.449	ug/L	95.062	
109 Ag	0.021632	14.512		281.672	ug/L	120.002	
> 115 In-2				961494.396	ug/L	994304.053	
114 Cd	0.011911	50.026		97.233	ug/L	53.748	
121 Sb	0.030405	27.827		492.680	ug/L	329.340	
137 Ba	0.001273	932.175		282.339	ug/L	281.339	
> 165 Ho-2				1264640.334	ug/L	1276105.159	
182 W	0.256183	27.547		1924.153	ug/L	457.679	
183 W	0.241403	22.616		1012.713	ug/L	253.338	
194 Pt	0.006107	60.256		103.668	ug/L	76.668	
195 Pt	0.006563	13.045		78.001	ug/L	48.001	
203 Tl	0.331265	36.767		3300.769	ug/L	780.029	
206 Pb	-0.010125	43.377		815.698	ug/L	888.037	
207 Pb	-0.011365	25.187		678.023	ug/L	745.027	
> 45 Sc				451817.376	ug/L	467697.114	
47 Ti	-0.119672	39.032		550.683	ug/L	647.355	
86 Sr	0.012739	193.725		172.509	ug/L	151.307	
88 Sr	0.000168	2022.523		1260.735	ug/L	1301.072	
> 115 In				961494.396	ug/L	994304.053	
118 Sn	0.036319	41.240		525.682	ug/L	357.341	



[ 120 Sn 0.039613 26.195 736.722 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		1.635
[ B	10		585.166
[ Na	23		4.906
[ Mg	24		-0.047
[ Al	27		-0.585
[ K	39		-2.935
[ Ca	44		-25.072
> Sc-1	45	96.605	
[ V	51		141.661
[ Cr	52		-133.367
[ Mn	55		-13.110
[ Fe	57		-3.765
[ Co	59		0.491
[ Ni	60		0.230
[ Cu	65		-1.132
[ Zn	66		-56.875
> Ge-1	72	94.885	
[ As	75		27.941
[ Se	82		9.887
[ Mo	97		8.610
[ Ag	107		0.333
[ Cd	111		1.358
> In-1	115	96.700	
[ Sb	123		3.264
[ Ba	135		-0.384
> Ho-1	165	99.102	
[ Tl	205		32.766
[ Pb	208		-1.345
[ U	238		0.651
> Sc-2	45	96.605	
[ Cr	53		-8401.728
[ Fe	54		-3.806
[ Ni	61		-54.113
[ Cu	63		-0.738
[ Zn	67		-613.618
> Ge	72	94.885	
[ Se	77		-5554.536
[ Mo	98		9.265
[ Ag	109		2.163
> In-2	115	96.700	
[ Cd	114		1.191
[ Sb	121		3.040
[ Ba	137		0.127
> Ho-2	165	99.102	
[ W	182		25.618
[ W	183		24.140
[ Pt	194		0.611
[ Pt	195		0.658
[ Tl	203		33.126
[ Pb	206		-1.012
[ Pb	207		-1.137
> Sc	45	96.605	
[ Tl	47		-11.967
[ Sr	86		1.274
[ Sr	88		0.017
> In	115	96.700	
[ Sn	118		3.632
[ Sn	120		3.981

**QC Out Of Limits**

Analyte Mass Out of Limits Message

B	10	Q
V	51	Q
Cr	52	Q
Cr	53	Q
Zn	67	Q
Se	77	Q

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW0HA

Sample Date/Time: Thursday, May 24, 2007 18:55:40

Autosampler Position: 64

Dataset File: D:\Elandata\Dataset\052407m1\JW0HA.103

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	-0.004031	413.072		2.333	ug/L	3.000	
10 B	44.083564	1.777		1569.769	ug/L	90.668	
23 Na	19782.111581	2.678		90055443.728	ug/L	24909.622	
24 Mg	3788.539246	3.603		11725781.031	ug/L	6273.773	
27 Al	-0.082210	53.048		14382.047	ug/L	15227.265	
39 K	368.295223	1.467		3128753.595	ug/L	707925.205	
44 Ca	7236.573069	0.958		1667941.376	ug/L	48369.900	
> 45 Sc-1				453016.811	ug/L	467697.114	
51 V	-2.476197	33.601		-36251.458	ug/L	-17188.401	
52 Cr	210.160415	1.143		1417673.154	ug/L	43700.177	
55 Mn	-0.032331	9.052		3493.462	ug/L	3939.583	
57 Fe	-19.412691	9.084		2866.696	ug/L	6563.304	
59 Co	0.012715	10.517		158.002	ug/L	70.668	
60 Ni	0.170841	10.141		460.679	ug/L	205.004	
65 Cu	0.029455	53.324		249.005	ug/L	201.670	
66 Zn	-0.585700	8.099		2833.643	ug/L	3569.482	
> 72 Ge-1				562364.537	ug/L	592936.498	
75 As	1.299071	18.157		1235.758	ug/L	-502.888	
82 Se	0.222646	228.232		-36.054	ug/L	-70.642	
97 Mo	0.182845	7.410		388.342	ug/L	69.001	
107 Ag	0.006648	56.217		155.669	ug/L	109.002	
111 Cd	0.002156	68.260		38.000	ug/L	35.667	
> 115 In-1				957592.018	ug/L	994304.053	
123 Sb	0.021558	39.431		321.652	ug/L	235.401	
135 Ba	0.382642	1.889		783.029	ug/L	183.670	
> 165 Ho-1				1231137.196	ug/L	1276105.159	
205 Tl	0.109633	22.620		3804.883	ug/L	1936.818	
208 Pb	-0.022580	9.339		2838.471	ug/L	3500.871	
238 U	0.257014	1.957		3977.260	ug/L	35.667	
> 45 Sc-2				453016.811	ug/L	467697.114	
53 Cr	175.254780	5.456		420744.156	ug/L	319041.768	
54 Fe	4.592015	112.976		43723.230	ug/L	42890.999	
61 Ni	0.981037	37.241		1103.720	ug/L	1069.051	
63 Cu	0.131381	2.050		784.029	ug/L	321.674	
67 Zn	-7.529841	36.580		19414.378	ug/L	21519.078	
> 72 Ge				562364.537	ug/L	592936.498	
77 Se	-59.629894	6.017		6543.240	ug/L	13366.987	
98 Mo	0.174239	5.967		875.651	ug/L	95.062	
109 Ag	0.013648	34.895		220.004	ug/L	120.002	
> 115 In-2				957592.018	ug/L	994304.053	
114 Cd	0.009865	26.252		88.912	ug/L	53.748	
121 Sb	0.010906	20.577		379.342	ug/L	329.340	
137 Ba	0.411086	3.954		1369.746	ug/L	281.339	
> 165 Ho-2				1231137.196	ug/L	1276105.159	
182 W	0.105507	9.618		1030.714	ug/L	457.679	
183 W	0.111728	6.883		587.351	ug/L	253.338	
194 Pt	-0.000987	143.275		69.668	ug/L	76.668	
195 Pt	0.002146	51.596		56.001	ug/L	48.001	
203 Tl	0.113066	29.440		1592.773	ug/L	780.029	
206 Pb	-0.016813	39.098		753.027	ug/L	888.037	
207 Pb	-0.021271	11.949		608.686	ug/L	745.027	
> 45 Sc				453016.811	ug/L	467697.114	
47 Ti	-0.028300	220.773		609.019	ug/L	647.355	
86 Sr	187.916476	1.009		399249.307	ug/L	151.307	
88 Sr	187.038081	1.596		3411174.774	ug/L	1301.072	
> 115 In				957592.018	ug/L	994304.053	
118 Sn	0.003963	80.932		363.675	ug/L	357.341	

[ 120 Sn 0.005657 111.243 508.291 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	96.861	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
Zn	66		
> Ge-1	72	94.844	
As	75		
Se	82		
Mo	97		
Ag	107		
Cd	111		
> In-1	115	96.308	
Sb	123		
Ba	135		
> Ho-1	165	96.476	
Tl	205		
Pb	208		
U	238		
> Sc-2	45	96.861	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
Zn	67		
> Ge	72	94.844	
Se	77		
Mo	98		
Ag	109		
> In-2	115	96.308	
Cd	114		
Sb	121		
Ba	137		
> Ho-2	165	96.476	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
Pb	207		
> Sc	45	96.861	
Ti	47		
Sr	88		
Sr	88		
> In	115	96.308	
Sn	118		
Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW0HC

Sample Date/Time: Thursday, May 24, 2007 19:01:46

Autosampler Position: 65

Dataset File: D:\Elandata\Dataset\052407m1\JW0HC.104

## Sample Result Summary

Mass	Analyte	Conc.	Mean	RSD	Meas.	Intens.	Mean	Sample	Unit	Blank	Intensity
	9 Be	0.004495	230.650			3.667		ug/L		3.000	
	10 B	42.406171	5.260			1560.768		ug/L		90.668	
	23 Na	19696.311283	2.205			92518614.782		ug/L		24909.622	
	24 Mg	3895.527287	2.273			12440368.038		ug/L		6273.773	
	27 Al	-0.556265	10.437			12663.070		ug/L		15227.265	
	39 K	371.940231	3.027			3252342.467		ug/L		707925.205	
	44 Ca	7366.459529	1.779			1750608.770		ug/L		48369.900	
>	45 Sc-1					467356.417		ug/L		467697.114	
	51 V	-1.981631	39.619			-33267.047		ug/L		-17188.401	
	52 Cr	214.326121	0.791			1490739.393		ug/L		43700.177	
	55 Mn	-0.098992	8.102			2917.327		ug/L		3939.583	
	57 Fe	-18.763915	3.197			3079.955		ug/L		6563.304	
	59 Co	0.009576	23.653			140.002		ug/L		70.668	
	60 Ni	0.184468	9.225			496.680		ug/L		205.004	
	65 Cu	0.026044	36.209			250.671		ug/L		201.670	
	66 Zn	-0.569381	13.925			2940.999		ug/L		3569.482	
>	72 Ge-1					573248.317		ug/L		592936.498	
	75 As	0.856714	50.648			668.152		ug/L		-502.888	
	82 Se	0.252662	103.291			-31.712		ug/L		-70.642	
	97 Mo	0.152689	10.827			345.008		ug/L		69.001	
	107 Ag	0.002634	23.462			129.335		ug/L		109.002	
	111 Cd	-0.003184	138.743			30.000		ug/L		35.667	
>	115 In-1					990662.262		ug/L		994304.053	
	123 Sb	0.014338	34.095			299.815		ug/L		235.401	
	135 Ba	0.381418	7.102			812.365		ug/L		183.670	
>	165 Ho-1					1280923.773		ug/L		1276105.159	
	205 Tl	0.046717	45.521			2797.305		ug/L		1936.818	
	208 Pb	-0.036790	10.944			2599.120		ug/L		3500.871	
	238 U	0.259099	3.345			4169.317		ug/L		35.667	
>	45 Sc-2					467356.417		ug/L		467697.114	
	53 Cr	163.729323	7.777			426453.500		ug/L		319041.768	
	54 Fe	4.224625	178.922			44891.109		ug/L		42890.999	
	61 Ni	1.455105	54.366			1171.726		ug/L		1069.051	
	63 Cu	0.131117	2.706			807.698		ug/L		321.674	
	67 Zn	-10.241622	19.702			19503.168		ug/L		21519.078	
>	72 Ge					573248.317		ug/L		592936.498	
	77 Se	-64.701998	0.764			6135.390		ug/L		13366.987	
	98 Mo	0.170274	2.808			887.174		ug/L		95.062	
	109 Ag	0.003517	50.258			147.336		ug/L		120.002	
>	115 In-2					990662.262		ug/L		994304.053	
	114 Cd	0.002975	84.245			65.121		ug/L		53.748	
	121 Sb	0.005968	44.194			363.342		ug/L		329.340	
	137 Ba	0.400097	2.412			1395.082		ug/L		281.339	
>	165 Ho-2					1280923.773		ug/L		1276105.159	
	182 W	0.050635	23.235			752.694		ug/L		457.679	
	183 W	0.047785	25.904			406.343		ug/L		253.338	
	194 Pt	-0.001537	236.256			70.001		ug/L		76.668	
	195 Pt	0.003154	23.330			63.001		ug/L		48.001	
	203 Tl	0.046347	44.400			1139.391		ug/L		780.029	
	206 Pb	-0.036073	5.286			659.355		ug/L		888.037	
	207 Pb	-0.037538	12.003			545.683		ug/L		745.027	
>	45 Sc					467356.417		ug/L		467697.114	
	47 Ti	-0.054910	41.296			611.353		ug/L		647.355	
	86 Sr	190.626285	0.773			417817.340		ug/L		151.307	
	88 Sr	189.156914	1.562			3559076.290		ug/L		1301.072	
>	115 In					990662.262		ug/L		994304.053	
	118 Sn	-0.004919	27.988			331.007		ug/L		357.341	

120 Sn -0.002895 33.173 466.938 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte Mass	Int Std % Recovery	QC Std % Recovery
Be 9		
B 10		
Na 23		
Mg 24		
Al 27		
K 39		
Ca 44		
> Sc-1 45	99.927	
V 51		
Cr 52		
Mn 55		
Fe 57		
Co 59		
Ni 60		
Cu 65		
Zn 66		
[> Ge-1 72	96.680	
As 75		
Se 82		
Mo 97		
Ag 107		
Cd 111		
> In-1 115	99.634	
Sb 123		
Ba 135		
> Ho-1 165	100.378	
Tl 205		
Pb 208		
U 238		
[> Sc-2 45	99.927	
Cr 53		
Fe 54		
Ni 61		
Cu 63		
Zn 67		
[> Ge 72	96.680	
Se 77		
Mo 98		
Ag 109		
> In-2 115	99.634	
Cd 114		
Sb 121		
Ba 137		
> Ho-2 185	100.378	
W 182		
W 183		
Pt 194		
Pt 195		
Tl 203		
Pb 206		
Pb 207		
[> Sc 45	99.927	
Tl 47		
Sr 88		
Sr 88		
[> In 115	99.634	
Sn 118		
Sn 120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW0HD

Sample Date/Time: Thursday, May 24, 2007 19:07:53

Autosampler Position: 66

Dataset File: D:\Elandata\Dataset\052407m1\JW0HD.105

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.007141	5.003		4.000	ug/L	3.000	
10 B	42.786973	4.258		1540.098	ug/L	90.668	
23 Na	20496.241905	2.252		94193909.970	ug/L	24909.622	
24 Mg	4064.475859	3.598		12699346.455	ug/L	6273.773	
27 Al	-0.688041	8.087		11799.990	ug/L	15227.265	
39 K	381.981173	3.709		3249746.746	ug/L	707925.205	
44 Ca	7640.022806	1.650		1774783.223	ug/L	48369.900	
> 45 Sc-1				457285.204	ug/L	467697.114	
51 V	-2.002309	49.357		-32846.756	ug/L	-17188.401	
52 Cr	224.795377	1.855		1527690.027	ug/L	43700.177	
55 Mn	-0.086755	11.305		2977.673	ug/L	3939.583	
57 Fe	-18.087134	9.856		3138.916	ug/L	6563.304	
59 Co	0.011632	27.112		151.669	ug/L	70.668	
60 Ni	0.191714	3.992		497.014	ug/L	205.004	
65 Cu	0.023296	39.479		240.338	ug/L	201.670	
66 Zn	-0.613384	11.047		2830.642	ug/L	3569.482	
> 72 Ge-1				569416.236	ug/L	592936.498	
75 As	1.425779	23.806		1429.122	ug/L	-502.888	
82 Se	0.001692	7281.264		-67.673	ug/L	-70.642	
97 Mo	0.158693	5.795		348.341	ug/L	69.001	
107 Ag	0.003815	11.741		135.669	ug/L	109.002	
111 Cd	-0.003785	8.206		28.334	ug/L	35.667	
> 115 In-1				969453.716	ug/L	994304.053	
123 Sb	0.015968	29.275		300.603	ug/L	235.401	
135 Ba	0.397490	5.561		829.699	ug/L	183.670	
> 165 Ho-1				1266273.864	ug/L	1276105.159	
205 Tl	0.019774	105.392		2278.541	ug/L	1936.818	
208 Pb	-0.036294	7.981		2582.116	ug/L	3500.871	
238 U	0.266630	4.066		4241.006	ug/L	35.667	
> 45 Sc-2				457285.204	ug/L	467697.114	
53 Cr	185.345016	4.976		431222.547	ug/L	319041.768	
54 Fe	5.892007	174.827		44735.120	ug/L	42890.999	
61 Ni	2.106153	51.571		1192.395	ug/L	1069.051	
63 Cu	0.125857	5.299		771.362	ug/L	321.674	
67 Zn	-8.638450	30.323		19387.342	ug/L	21519.078	
> 72 Ge				569416.236	ug/L	592936.498	
77 Se	-59.864975	1.310		6597.869	ug/L	13366.987	
98 Mo	0.166169	2.129		849.534	ug/L	95.062	
109 Ag	0.003451	49.243		143.669	ug/L	120.002	
> 115 In-2				969453.716	ug/L	994304.053	
114 Cd	0.001295	74.938		57.345	ug/L	53.748	
121 Sb	0.001190	273.612		328.007	ug/L	329.340	
137 Ba	0.413939	1.094		1417.084	ug/L	281.339	
> 165 Ho-2				1266273.864	ug/L	1276105.159	
182 W	0.026967	17.124		608.686	ug/L	457.679	
183 W	0.023147	22.953		324.340	ug/L	253.338	
194 Pt	-0.000062	4778.140		75.668	ug/L	76.668	
195 Pt	0.002825	62.962		60.667	ug/L	48.001	
203 Tl	0.028196	71.764		988.378	ug/L	780.029	
206 Pb	-0.032029	18.547		677.023	ug/L	888.037	
207 Pb	-0.032693	6.318		565.350	ug/L	745.027	
> 45 Sc				457285.204	ug/L	467697.114	
47 Ti	-0.132285	23.688		549.683	ug/L	647.355	
86 Sr	200.991685	1.748		431013.934	ug/L	151.307	
88 Sr	197.699112	2.677		3639637.871	ug/L	1301.072	
> 115 In				969453.716	ug/L	994304.053	
118 Sn	-0.005179	136.159		322.674	ug/L	357.341	

[ 120 Sn -0.009497 18.016 412.580 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte Mass	Int Std % Recovery	QC Std % Recovery
[ Be 9		
[ B 10		
[ Na 23		
[ Mg 24		
[ Al 27		
[ K 39		
[ Ca 44		
> Sc-1 45	97.774	
[ V 51		
[ Cr 52		
[ Mn 55		
[ Fe 57		
[ Co 59		
[ Ni 80		
[ Cu 65		
[ Zn 66		
> Ge-1 72	96.033	
[ As 76		
[ Se 82		
[ Mo 97		
[ Ag 107		
[ Cd 111		
> In-1 115	97.501	
[ Sb 123		
[ Ba 135		
> Ho-1 165	99.230	
[ Tl 205		
[ Pb 206		
[ U 238		
> Sc-2 45	97.774	
[ Cr 53		
[ Fe 54		
[ Ni 61		
[ Cu 63		
[ Zn 67		
> Ge 72	96.033	
[ Se 77		
[ Mo 98		
[ Ag 109		
> In-2 115	97.501	
[ Cd 114		
[ Sb 121		
[ Ba 137		
> Ho-2 165	99.230	
[ W 182		
[ W 183		
[ Pt 194		
[ Pt 195		
[ Tl 203		
[ Pb 206		
[ Pb 207		
> Sc 45	97.774	
[ Ti 47		
[ Sr 66		
[ Sr 88		
> In 115	97.501	
[ Sn 118		
[ Sn 120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWOHE

Sample Date/Time: Thursday, May 24, 2007 19:14:01

Autosampler Position: 67

Dataset File: D:\Elandata\Dataset\052407m1\JWOHE.106

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
9 Be	0.006815	195.543	4.000	ug/L	3.000
10 B	185.580569	1.646	6483.203	ug/L	90.668
23 Na	24282.351624	1.902	113276987.394	ug/L	24909.622
24 Mg	7502.330038	0.815	23794586.256	ug/L	6273.773
27 Al	6.444288	1.864	44450.826	ug/L	15227.265
39 K	638.528457	1.754	5042780.693	ug/L	707925.205
44 Ca	11544.182190	0.658	2698055.930	ug/L	48369.900
> 45 Sc-1			464188.635	ug/L	467697.114
51 V	1.788310	31.107	-2532.243	ug/L	-17188.401
52 Cr	1.126287	6.181	50921.770	ug/L	43700.177
55 Mn	0.129856	8.519	5238.013	ug/L	3939.583
57 Fe	-21.244576	7.925	2606.301	ug/L	6563.304
59 Co	0.031488	4.395	297.339	ug/L	70.668
60 Ni	0.273841	3.345	633.687	ug/L	205.004
65 Cu	0.164325	5.629	508.014	ug/L	201.670
66 Zn	-0.567261	15.147	2924.662	ug/L	3569.482
> 72 Ge-1			567976.449	ug/L	592936.498
75 As	7.851131	3.759	9987.487	ug/L	-502.888
82 Se	0.146946	294.734	-47.157	ug/L	-70.642
97 Mo	0.739648	3.541	1366.746	ug/L	69.001
107 Ag	-0.000452	83.086	102.001	ug/L	109.002
111 Cd	-0.002246	204.200	30.667	ug/L	35.667
> 115 In-1			961766.973	ug/L	994304.053
123 Sb	0.022839	10.751	328.725	ug/L	235.401
135 Ba	1.283389	2.616	2295.207	ug/L	183.670
> 165 Ho-1			1279339.087	ug/L	1276105.159
205 Tl	0.012551	113.145	2174.523	ug/L	1936.818
208 Pb	-0.034339	7.912	2658.457	ug/L	3500.871
238 U	1.442101	0.552	23022.101	ug/L	35.667
> 45 Sc-2			464188.635	ug/L	467697.114
53 Cr	-74.797032	18.277	267886.011	ug/L	319041.768
54 Fe	2.847834	231.799	43962.820	ug/L	42890.999
61 Ni	2.674320	3.392	1251.067	ug/L	1069.051
63 Cu	0.192688	2.582	1029.047	ug/L	321.674
67 Zn	-8.789561	11.923	19653.373	ug/L	21519.078
> 72 Ge			567976.449	ug/L	592936.498
77 Se	-43.883697	12.116	8237.782	ug/L	13366.987
98 Mo	0.738942	0.690	3430.808	ug/L	95.062
109 Ag	0.002268	61.734	133.689	ug/L	120.002
> 115 In-2			961766.973	ug/L	994304.053
114 Cd	0.001055	212.625	56.050	ug/L	53.748
121 Sb	0.006379	60.645	355.008	ug/L	329.340
137 Ba	1.305920	0.674	3908.574	ug/L	281.339
> 165 Ho-2			1279339.087	ug/L	1276105.159
182 W	0.041296	22.434	698.024	ug/L	457.679
183 W	0.039780	9.535	380.676	ug/L	253.338
194 Pt	-0.002311	38.228	66.334	ug/L	76.668
195 Pt	-0.000474	420.163	46.001	ug/L	48.001
203 Tl	0.019445	76.751	933.040	ug/L	780.029
206 Pb	-0.031608	12.820	667.357	ug/L	888.037
207 Pb	-0.034437	14.476	562.017	ug/L	745.027
> 45 Sc			464188.635	ug/L	467697.114
47 Ti	0.361377	26.154	873.702	ug/L	647.355
86 Sr	292.270760	0.113	636230.358	ug/L	151.307
88 Sr	290.744368	0.980	5432816.250	ug/L	1301.072
> 115 In			961766.973	ug/L	994304.053
118 Sn	-0.002371	220.665	333.674	ug/L	357.341



120 Sn -0.004532 59.601 442.225 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	99.250	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
Zn	66		
> Ge-1	72	95.790	
As	75		
Se	82		
Mo	97		
Ag	107		
Cd	111		
> In-1	115	96.728	
Sb	123		
Ba	135		
> Ho-1	165	100.253	
Tl	205		
Pb	208		
U	238		
> Sc-2	45	99.250	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
Zn	67		
> Ge	72	95.790	
Se	77		
Mo	98		
Ag	109		
> In-2	115	96.728	
Cd	114		
Sb	121		
Ba	137		
> Ho-2	165	100.253	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
Pb	207		
> Sc	45	99.250	
Ti	47		
Sr	86		
Sr	88		
> In	115	96.728	
Sn	118		
Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW0HF

Sample Date/Time: Thursday, May 24, 2007 19:20:09

Autosampler Position: 68

Dataset File: D:\Elandata\Dataset\052407m1\JW0HF.107

## Sample Result Summary

Mass	Analyte	Conc.	Mean	RSD	Meas.	Intens.	Mean	Sample Unit	Blank Intensity
	9 Be	0.006740	97.019			4.000	ug/L	3.000	
	10 B	188.762173	3.080			6589.920	ug/L	90.668	
	23 Na	23853.414649	1.766		111258777.514		ug/L	24909.622	
	24 Mg	7434.653564	1.499		23574615.898		ug/L	6273.773	
	27 Al	-0.812176	4.310		11411.670		ug/L	15227.265	
	39 K	644.616278	1.127		5083335.704		ug/L	707925.205	
	44 Ca	11371.612213	0.764		2657686.095		ug/L	48369.900	
>	45 Sc-1				464070.148		ug/L	467697.114	
	51 V	1.808965	32.532		-2416.098		ug/L	-17188.401	
	52 Cr	1.539644	6.035		53685.234		ug/L	43700.177	
	55 Mn	-0.126851	4.399		2612.932		ug/L	3939.583	
	57 Fe	-26.268312	6.414		1679.433		ug/L	6563.304	
	59 Co	0.027431	8.542		288.005		ug/L	70.668	
	60 Ni	0.275911	8.179		636.687		ug/L	205.004	
	65 Cu	0.160923	8.524		501.681		ug/L	201.670	
	66 Zn	-0.592841	12.421		2895.322		ug/L	3569.482	
>	72 Ge-1				570750.578		ug/L	592936.498	
	75 As	7.164189	6.266		9115.694		ug/L	-502.888	
	82 Se	0.243935	154.886		-33.202		ug/L	-70.642	
	97 Mo	0.682603	0.896		1274.403		ug/L	69.001	
	107 Ag	0.000252	924.845		108.001		ug/L	109.002	
	111 Cd	-0.000395	1074.987		34.000		ug/L	35.667	
>	115 In-1				968162.822		ug/L	994304.053	
	123 Sb	0.019839	18.584		317.253		ug/L	235.401	
	135 Ba	1.357137	4.370		2425.564		ug/L	183.670	
>	165 Ho-1				1284535.222		ug/L	1276105.159	
	205 Tl	0.011223	128.523		2160.521		ug/L	1936.818	
	208 Pb	-0.040005	11.482		2525.445		ug/L	3500.871	
	238 U	1.397615	2.105		22397.435		ug/L	35.667	
>	45 Sc-2				464070.148		ug/L	467697.114	
	53 Cr	-52.247537	19.456		282425.862		ug/L	319041.768	
	54 Fe	0.554446	1693.893		42825.638		ug/L	42890.999	
	61 Ni	3.971903	25.818		1342.743		ug/L	1069.051	
	63 Cu	0.162433	6.442		917.372		ug/L	321.674	
	67 Zn	-6.713659	13.541		20051.596		ug/L	21519.078	
>	72 Ge				570750.578		ug/L	592936.498	
	77 Se	-29.727288	22.101		9756.048		ug/L	13366.987	
	98 Mo	0.718785	2.490		3361.342		ug/L	95.062	
	109 Ag	0.000175	1243.105		118.335		ug/L	120.002	
>	115 In-2				968162.822		ug/L	994304.053	
	114 Cd	0.000900	117.313		55.774		ug/L	53.748	
	121 Sb	0.006686	41.169		359.341		ug/L	329.340	
	137 Ba	1.366854	2.244		4094.295		ug/L	281.339	
>	165 Ho-2				1284535.222		ug/L	1276105.159	
	182 W	0.044975	5.387		722.692		ug/L	457.679	
	183 W	0.043780	19.306		395.009		ug/L	253.338	
	194 Pt	-0.001256	94.404		71.334		ug/L	76.668	
	195 Pt	0.001541	81.973		55.667		ug/L	48.001	
	203 Tl	0.014943	99.071		902.705		ug/L	780.029	
	206 Pb	-0.036214	11.926		659.688		ug/L	888.037	
	207 Pb	-0.037965	10.952		544.682		ug/L	745.027	
>	45 Sc				464070.148		ug/L	467697.114	
	47 Ti	0.097446	13.875		704.691		ug/L	647.355	
	86 Sr	293.735170	1.153		639244.674		ug/L	151.307	
	88 Sr	290.877452	1.135		5434230.793		ug/L	1301.072	
>	115 In				968162.822		ug/L	994304.053	
	118 Sn	-0.008286	9.897		306.673		ug/L	357.341	

[ 120 Sn -0.009443 25.843 412.472 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte Mass	Int Std % Recovery	QC Std % Recovery
[ Be 9		
[ B 10		
[ Na 23		
[ Mg 24		
[ Al 27		
[ K 39		
[ Ca 44		
> Sc-1 45	99.225	
[ V 51		
[ Cr 52		
[ Mn 55		
[ Fe 57		
[ Co 59		
[ Ni 60		
[ Cu 65		
[ Zn 66		
> Ge-1 72	96.258	
[ As 75		
[ Se 82		
[ Mo 97		
[ Ag 107		
[ Cd 111		
> In-1 115	97.371	
[ Sb 123		
[ Ba 135		
> Ho-1 165	100.661	
[ Tl 205		
[ Pb 208		
[ U 238		
> Sc-2 45	99.225	
[ Cr 53		
[ Fe 54		
[ Ni 61		
[ Cu 63		
[ Zn 67		
> Ge 72	96.258	
[ Se 77		
[ Mo 98		
[ Ag 109		
> In-2 115	97.371	
[ Cd 114		
[ Sb 121		
[ Ba 137		
> Ho-2 165	100.661	
[ W 182		
[ W 183		
[ Pt 194		
[ Pt 195		
[ Tl 203		
[ Pb 206		
[ Pb 207		
> Sc 45	99.225	
[ Tl 47		
[ Sr 86		
[ Sr 88		
> In 115	97.371	
[ Sn 118		
[ Sn 120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW0HJ

Sample Date/Time: Thursday, May 24, 2007 19:26:17

Autosampler Position: 69

Dataset File: D:\Elandata\Dataset\052407m1\JW0HJ.108

## Sample Result Summary

Mass Analyte	Conc.	Mean	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.006616	258.618		4.000		ug/L	3.000
10 B	188.306899	2.200		6591.921		ug/L	90.668
23 Na	23932.786204	3.159		111878180.413		ug/L	24909.622
24 Mg	7279.485425	2.905		23133408.559		ug/L	6273.773
27 Al	0.312811	28.097		16570.439		ug/L	15227.265
39 K	635.404703	3.061		5031755.138		ug/L	707925.205
44 Ca	11092.069219	1.475		2599527.853		ug/L	48369.900
> 45 Sc-1				465207.854		ug/L	467697.114
51 V	1.482797	25.923		-5044.793		ug/L	-17188.401
52 Cr	1.561876	9.897		53953.900		ug/L	43700.177
55 Mn	-0.094722	12.612		2948.001		ug/L	3939.583
57 Fe	-27.003545	4.809		1549.550		ug/L	6563.304
59 Co	0.025982	9.148		258.338		ug/L	70.668
60 Ni	0.273659	7.307		634.354		ug/L	205.004
65 Cu	0.143447	2.497		470.012		ug/L	201.670
66 Zn	-0.653443	9.704		2836.310		ug/L	3569.482
> 72 Ge-1				570553.975		ug/L	592936.498
75 As	7.245304	10.415		9217.341		ug/L	-502.888
82 Se	0.304648	24.725		-23.894		ug/L	-70.642
97 Mo	0.688705	3.681		1295.072		ug/L	69.001
107 Ag	0.000777	139.897		113.002		ug/L	109.002
111 Cd	-0.005231	16.779		26.000		ug/L	35.667
> 115 In-1				975791.747		ug/L	994304.053
123 Sb	0.015015	28.465		298.319		ug/L	235.401
135 Ba	1.332889	3.404		2361.552		ug/L	183.670
> 165 Ho-1				1271558.352		ug/L	1276105.159
205 Tl	-0.000449	2592.171		1925.151		ug/L	1936.818
208 Pb	-0.040851	5.321		2480.109		ug/L	3500.871
238 U	1.445149	5.748		22953.740		ug/L	35.667
> 45 Sc-2				465207.854		ug/L	467697.114
53 Cr	-38.540659	34.623		292008.217		ug/L	319041.768
54 Fe	2.617259	251.783		43939.743		ug/L	42890.999
61 Ni	3.372149	13.287		1303.739		ug/L	1069.051
63 Cu	0.157360	3.867		901.037		ug/L	321.674
67 Zn	-8.601346	37.953		19727.811		ug/L	21519.078
> 72 Ge				570553.975		ug/L	592936.498
77 Se	-18.141662	24.860		10964.846		ug/L	13366.987
98 Mo	0.683238	2.004		3225.572		ug/L	95.062
109 Ag	-0.001343	100.351		107.335		ug/L	120.002
> 115 In-2				975791.747		ug/L	994304.053
114 Cd	-0.002811	49.020		41.973		ug/L	53.748
121 Sb	0.005396	114.040		354.675		ug/L	329.340
137 Ba	1.351408	2.796		4008.936		ug/L	281.339
> 165 Ho-2				1271558.352		ug/L	1276105.159
182 W	0.017659	11.879		558.016		ug/L	457.679
183 W	0.013868	56.259		296.006		ug/L	253.338
194 Pt	-0.002592	35.578		64.667		ug/L	76.668
195 Pt	0.001897	79.698		56.667		ug/L	48.001
203 Tl	0.001061	1240.002		786.697		ug/L	780.029
206 Pb	-0.039788	8.834		630.354		ug/L	888.037
207 Pb	-0.036579	1.833		547.016		ug/L	745.027
> 45 Sc				465207.854		ug/L	467697.114
47 Tl	0.087134	73.941		699.357		ug/L	647.355
86 Sr	286.213811	1.006		624364.699		ug/L	151.307
88 Sr	282.841186	1.812		5296226.265		ug/L	1301.072
> 115 In				975791.747		ug/L	994304.053
118 Sn	-0.007751	49.520		311.673		ug/L	357.341

120 Sn -0.005862 47.955 439.708 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Be	9	
	B	10	
	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	99.468
	V	51	
	Cr	52	
	Mn	55	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	66	
>	Ge-1	72	96.225
	As	75	
	Se	82	
	Mo	97	
	Ag	107	
	Cd	111	
>	In-1	115	98.138
	Sb	123	
	Ba	135	
>	Ho-1	165	99.644
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	99.468
	Cr	53	
	Fe	54	
	Ni	61	
	Cu	63	
	Zn	67	
>	Ge	72	96.225
	Se	77	
	Mo	98	
	Ag	109	
>	In-2	115	98.138
	Cd	114	
	Sb	121	
	Ba	137	
>	Ho-2	165	99.644
	W	182	
	W	183	
	Pt	194	
	Pt	195	
	Tl	203	
	Pb	206	
	Pb	207	
>	Sc	45	99.468
	Ti	47	
	Sr	86	
	Sr	88	
>	In	115	98.138
	Sn	118	
	Sn	120	

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW0HK

Sample Date/Time: Thursday, May 24, 2007 19:32:26

Autosampler Position: 70

Dataset File: D:\Elandata\Dataset\052407m1\JW0HK.109

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.016158	126.408			5.333	ug/L	3.000
10 B	34.466586	3.627			1252.734	ug/L	90.668
23 Na	22708.581354	1.693		103921635.378		ug/L	24909.622
24 Mg	185.141329	1.414			581933.397	ug/L	6273.773
27 Al	4.139877	1.328			33312.128	ug/L	15227.265
39 K	424.437697	1.027			3519230.163	ug/L	707925.205
44 Ca	481.207256	0.446			155434.231	ug/L	48369.900
> 45 Sc-1					455299.519	ug/L	467697.114
51 V	-0.826492	55.111			-23293.541	ug/L	-17188.401
52 Cr	122.053847	0.762			845402.473	ug/L	43700.177
55 Mn	2.454531	1.461			28439.236	ug/L	3939.583
57 Fe	10.144442	4.930			8221.055	ug/L	6563.304
59 Co	0.025788	4.336			251.338	ug/L	70.668
60 Ni	0.062808	5.069			296.339	ug/L	205.004
65 Cu	0.056229	21.289			299.673	ug/L	201.670
66 Zn	-0.585356	10.841			2848.979	ug/L	3569.482
> 72 Ge-1					565194.722	ug/L	592936.498
75 As	6.582662	5.918			8258.631	ug/L	-502.888
82 Se	-0.086446	57.567			-79.726	ug/L	-70.642
97 Mo	0.465670	3.607			891.370	ug/L	69.001
107 Ag	0.006213	23.784			154.002	ug/L	109.002
111 Cd	-0.003548	107.546			28.667	ug/L	35.667
> 115 In-1					968593.401	ug/L	994304.053
123 Sb	0.002110	249.766			238.588	ug/L	235.401
135 Ba	0.181542	5.654			478.013	ug/L	183.670
> 165 Ho-1					1266792.573	ug/L	1276105.159
205 Tl	-0.002259	347.274			1882.477	ug/L	1936.818
208 Pb	-0.027785	14.913			2792.466	ug/L	3500.871
238 U	0.375894	3.759			5966.973	ug/L	35.667
> 45 Sc-2					455299.519	ug/L	467697.114
53 Cr	104.516719	4.299			377577.106	ug/L	319041.768
54 Fe	19.042307	43.443			50731.362	ug/L	42890.999
61 Ni	0.713985	61.577			1090.386	ug/L	1069.051
63 Cu	0.167322	6.135			917.705	ug/L	321.674
67 Zn	-9.416619	4.191			19159.364	ug/L	21519.078
> 72 Ge					565194.722	ug/L	592936.498
77 Se	-26.090541	11.091			10043.508	ug/L	13366.987
98 Mo	0.472914	1.498			2244.595	ug/L	95.062
109 Ag	0.001528	117.592			128.669	ug/L	120.002
> 115 In-2					968593.401	ug/L	994304.053
114 Cd	0.000592	218.196			54.637	ug/L	53.748
121 Sb	-0.000772	164.808			316.340	ug/L	329.340
137 Ba	0.206992	4.959			848.700	ug/L	281.339
> 165 Ho-2					1266792.573	ug/L	1276105.159
182 W	0.116564	4.914			1123.389	ug/L	457.679
183 W	0.115797	12.224			617.353	ug/L	253.338
194 Pt	0.001961	142.165			85.001	ug/L	76.668
195 Pt	0.003722	71.788			65.001	ug/L	48.001
203 Tl	0.001810	607.020			788.697	ug/L	780.029
206 Pb	-0.022763	11.041			736.693	ug/L	888.037
207 Pb	-0.023596	26.503			614.019	ug/L	745.027
> 45 Sc					455299.519	ug/L	467697.114
47 Ti	0.029906	108.173			649.021	ug/L	647.355
86 Sr	15.358999	0.944			32933.663	ug/L	151.307
88 Sr	15.516702	1.264			285602.305	ug/L	1301.072
> 115 In					968593.401	ug/L	994304.053
118 Sn	-0.009776	41.123			299.339	ug/L	357.341

120 Sn -0.007602 72.589 425.088 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	97.349	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
Zn	66		
> Ge-1	72	95.321	
As	75		
Se	82		
Mo	97		
Ag	107		
Cd	111		
> In-1	115	97.414	
Sb	123		
Ba	135		
> Ho-1	165	99.270	
Tl	205		
Pb	208		
U	238		
> Sc-2	45	97.349	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
Zn	67		
> Ge	72	95.321	
Se	77		
Mo	98		
Ag	109		
> In-2	115	97.414	
Cd	114		
Sb	121		
Ba	137		
> Ho-2	165	99.270	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
Pb	207		
> Sc	45	97.349	
Tl	47		
Sr	86		
Sr	88		
> In	115	97.414	
Sn	118		
Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW0HL

Sample Date/Time: Thursday, May 24, 2007 19:38:32

Autosampler Position: 71

Dataset File: D:\Elandata\Dataset\052407m1\JW0HL.110

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.011000	92.646		4.667	ug/L	3.000	
10 B	32.451307	0.621		1214.730	ug/L	90.668	
23 Na	21989.875124	1.379		103188441.024	ug/L	24909.622	
24 Mg	179.080065	1.519		577381.689	ug/L	6273.773	
27 Al	-0.994163	1.614		10647.073	ug/L	15227.265	
39 K	424.386096	1.556		3608219.159	ug/L	707925.205	
44 Ca	479.250795	2.071		158932.947	ug/L	48369.900	
> 45 Sc-1				466860.711	ug/L	467697.114	
51 V	-0.480896	207.513		-21044.518	ug/L	-17188.401	
52 Cr	120.871408	0.488		858904.097	ug/L	43700.177	
55 Mn	-0.083413	5.679		3075.028	ug/L	3939.583	
57 Fe	-3.666463	8.083		5872.583	ug/L	6563.304	
59 Co	0.004241	18.413		101.335	ug/L	70.668	
60 Ni	0.041000	32.685		269.339	ug/L	205.004	
65 Cu	0.039650	15.164		276.005	ug/L	201.670	
66 Zn	-0.636486	15.889		2864.649	ug/L	3569.482	
> 72 Ge-1				567880.911	ug/L	592936.498	
75 As	6.924290	6.350		8749.817	ug/L	-502.888	
82 Se	-0.139656	42.864		-87.712	ug/L	-70.642	
97 Mo	0.509428	2.524		961.042	ug/L	69.001	
107 Ag	-0.000047	3325.252		105.001	ug/L	109.002	
111 Cd	-0.004587	84.606		26.667	ug/L	35.667	
> 115 In-1				960933.312	ug/L	994304.053	
123 Sb	0.002751	143.964		239.582	ug/L	235.401	
135 Ba	0.142533	5.060		414.677	ug/L	183.670	
> 165 Ho-1				1267176.366	ug/L	1276105.159	
205 Tl	-0.002597	465.052		1875.810	ug/L	1936.818	
208 Pb	-0.041930	9.149		2445.773	ug/L	3500.871	
238 U	0.374460	1.718		5947.631	ug/L	35.667	
> 45 Sc-2				466860.711	ug/L	467697.114	
53 Cr	88.971262	3.114		376947.799	ug/L	319041.768	
54 Fe	-0.367100	948.826		42634.805	ug/L	42890.999	
61 Ni	0.105528	203.819		1074.718	ug/L	1069.051	
63 Cu	0.154842	4.447		894.704	ug/L	321.674	
67 Zn	-9.416535	10.133		19646.030	ug/L	21519.078	
> 72 Ge				567880.911	ug/L	592936.498	
77 Se	-34.448567	13.960		9220.278	ug/L	13366.987	
98 Mo	0.514492	0.645		2414.696	ug/L	95.062	
109 Ag	-0.000909	8.492		109.002	ug/L	120.002	
> 115 In-2				960933.312	ug/L	994304.053	
114 Cd	-0.000371	167.134		50.543	ug/L	53.748	
121 Sb	0.000711	468.197		322.340	ug/L	329.340	
137 Ba	0.144580	9.282		677.023	ug/L	281.339	
> 165 Ho-2				1267176.366	ug/L	1276105.159	
182 W	0.128541	1.803		1192.728	ug/L	457.679	
183 W	0.126393	1.724		650.688	ug/L	253.338	
194 Pt	0.002404	102.925		87.001	ug/L	76.668	
195 Pt	0.002728	47.372		60.334	ug/L	48.001	
203 Tl	-0.000364	2283.575		771.695	ug/L	780.029	
206 Pb	-0.040374	13.955		624.687	ug/L	888.037	
207 Pb	-0.039215	17.269		531.015	ug/L	745.027	
> 45 Sc				466860.711	ug/L	467697.114	
47 Ti	-0.111297	61.602		574.351	ug/L	647.355	
86 Sr	15.282615	0.428		33603.589	ug/L	151.307	
88 Sr	15.463857	1.052		291881.742	ug/L	1301.072	
> 115 In				960933.312	ug/L	994304.053	
118 Sn	-0.013650	33.654		278.005	ug/L	357.341	



[ 120 Sn -0.012630 21.045 388.051 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte Mass	Int Std % Recovery	QC Std % Recovery
[ Be 9		
[ B 10		
[ Na 23		
[ Mg 24		
[ Al 27		
[ K 39		
[ Ca 44		
[> Sc-1 45	99.821	
[ V 51		
[ Cr 52		
[ Mn 55		
[ Fe 57		
[ Co 58		
[ Ni 60		
[ Cu 65		
[ Zn 68		
[> Ge-1 72	95.774	
[ As 75		
[ Se 82		
[ Mo 97		
[ Ag 107		
[ Cd 111		
[> In-1 115	96.644	
[ Sb 123		
[ Ba 135		
[> Ho-1 165	99.300	
[ Tl 205		
[ Pb 208		
[ U 238		
[> Sc-2 45	99.821	
[ Cr 53		
[ Fe 54		
[ Ni 61		
[ Cu 63		
[ Zn 67		
[> Ge 72	95.774	
[ Se 77		
[ Mo 98		
[ Ag 109		
[> In-2 115	96.644	
[ Cd 114		
[ Sb 121		
[ Ba 137		
[> Ho-2 165	99.300	
[ W 182		
[ W 183		
[ Pt 194		
[ Pt 195		
[ Tl 203		
[ Pb 206		
[ Pb 207		
[> Sc 45	99.821	
[ Ti 47		
[ Sr 86		
[ Sr 88		
[> In 115	96.644	
[ Sn 118		
[ Sn 120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW0HN

Sample Date/Time: Thursday, May 24, 2007 19:44:34

Autosampler Position: 72

Dataset File: D:\Elandata\Dataset\052407m1\JW0HN.111

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.011447	87.853		4.667	ug/L	3.000	
10 B	33.441160	4.779		1228.399	ug/L	90.668	
23 Na	23259.751133	2.562		107328832.671	ug/L	24909.622	
24 Mg	190.194434	1.552		802637.005	ug/L	6273.773	
27 Al	2.375822	2.821		25645.923	ug/L	15227.265	
39 K	443.735043	3.128		3678161.738	ug/L	707925.205	
44 Ca	501.240454	1.542		161279.245	ug/L	48369.900	
> 45 Sc-1				459106.537	ug/L	467697.114	
51 V	-0.066628	866.452		-17393.158	ug/L	-17188.401	
52 Cr	127.892143	0.642		891218.345	ug/L	43700.177	
55 Mn	1.396519	0.848		17982.491	ug/L	3939.583	
57 Fe	4.498449	13.022		7261.623	ug/L	6563.304	
59 Co	0.016857	11.037		189.670	ug/L	70.668	
60 Ni	0.090383	6.582		341.674	ug/L	205.004	
65 Cu	0.076809	8.778		340.341	ug/L	201.670	
66 Zn	-0.556873	7.315		2903.324	ug/L	3569.482	
> 72 Ge-1				563457.030	ug/L	592936.498	
75 As	7.002199	10.997		8793.731	ug/L	-502.888	
82 Se	-0.124599	170.115		-84.765	ug/L	-70.642	
97 Mo	0.511285	2.202		958.375	ug/L	69.001	
107 Ag	0.001415	186.692		115.335	ug/L	109.002	
111 Cd	-0.001355	188.942		32.000	ug/L	35.667	
> 115 In-1				955021.525	ug/L	994304.053	
123 Sb	0.005866	7.977		251.819	ug/L	235.401	
135 Ba	0.192691	8.688		492.680	ug/L	183.670	
> 165 Ho-1				1257639.597	ug/L	1276105.159	
205 Tl	-0.009900	128.213		1730.457	ug/L	1936.818	
208 Pb	-0.034601	12.026		2606.118	ug/L	3500.871	
238 U	0.393809	1.297		6206.410	ug/L	35.667	
> 45 Sc-2				459106.537	ug/L	467697.114	
53 Cr	98.019385	1.472		376542.355	ug/L	319041.768	
54 Fe	9.427075	36.911		46585.971	ug/L	42890.999	
61 Ni	0.786809	77.495		1104.720	ug/L	1069.051	
63 Cu	0.202247	5.366		1052.716	ug/L	321.674	
67 Zn	-8.418507	16.280		19510.844	ug/L	21519.078	
> 72 Ge				563457.030	ug/L	592936.498	
77 Se	-38.024542	4.665		8780.959	ug/L	13366.987	
98 Mo	0.500516	3.801		2336.718	ug/L	95.062	
109 Ag	0.000755	133.398		121.002	ug/L	120.002	
> 115 In-2				955021.525	ug/L	994304.053	
114 Cd	-0.000636	172.014		49.259	ug/L	53.748	
121 Sb	-0.003154	100.786		298.339	ug/L	329.340	
137 Ba	0.185472	8.236		783.696	ug/L	281.339	
> 165 Ho-2				1257639.597	ug/L	1276105.159	
182 W	0.122159	6.358		1147.391	ug/L	457.679	
183 W	0.116785	5.189		615.686	ug/L	253.338	
194 Pt	0.001144	199.620		80.668	ug/L	76.668	
195 Pt	0.003693	46.431		64.334	ug/L	48.001	
203 Tl	-0.006902	167.798		716.359	ug/L	780.029	
206 Pb	-0.030874	11.333		680.023	ug/L	888.037	
207 Pb	-0.029948	17.270		576.017	ug/L	745.027	
> 45 Sc				459106.537	ug/L	467697.114	
47 Ti	0.006112	294.421		639.354	ug/L	647.355	
86 Sr	16.178977	1.433		34972.816	ug/L	151.307	
88 Sr	16.242455	0.571		301408.174	ug/L	1301.072	
> 115 In				955021.525	ug/L	994304.053	
118 Sn	-0.008595	12.961		301.006	ug/L	357.341	

[ 120 Sn -0.010976 19.828 396.637 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	98.163	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
Zn	66		
> Ge-1	72	95.028	
As	75		
Se	82		
Mo	97		
Ag	107		
Cd	111		
> In-1	115	98.049	
Sb	123		
Ba	135		
> Ho-1	165	98.553	
Tl	205		
Pb	208		
U	238		
> Sc-2	45	98.163	
Cr	53		
Fe	54		
Ni	81		
Cu	83		
Zn	87		
> Ge	72	95.028	
Se	77		
Mo	98		
Ag	109		
> In-2	115	98.049	
Cd	114		
Sb	121		
Ba	137		
> Ho-2	165	98.553	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	208		
Pb	207		
> Sc	45	98.163	
Ti	47		
Sr	86		
Sr	88		
> In	115	98.049	
Sn	118		
Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW0HP

Sample Date/Time: Thursday, May 24, 2007 19:50:36

Autosampler Position: 73

Dataset File: D:\Eiandata\Dataset\052407m1\JW0HP.112

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.015983	125.627		5.667		ug/L	3.000
10 B	2.857775	10.455		197.337		ug/L	90.668
23 Na	1620.175826	1.421		7943969.731		ug/L	24909.622
24 Mg	179.237341	2.261		601915.705		ug/L	6273.773
27 Al	48.314221	1.893		246299.107		ug/L	15227.265
39 K	515.089257	3.399		4404016.314		ug/L	707925.205
44 Ca	743.517336	2.948		229083.287		ug/L	48369.900
> 45 Sc-1				486355.596		ug/L	467697.114
51 V	-0.728803	47.327		-24035.414		ug/L	-17188.401
52 Cr	2.107333	3.725		60249.736		ug/L	43700.177
55 Mn	43.610483	2.830		470937.366		ug/L	3939.583
57 Fe	38.838021	3.715		14312.560		ug/L	6563.304
59 Co	0.370249	2.497		2872.317		ug/L	70.668
60 Ni	0.946799	4.002		1770.794		ug/L	205.004
65 Cu	4.077025	0.991		8216.111		ug/L	201.670
66 Zn	79.477583	2.061		94498.809		ug/L	3569.482
> 72 Ge-1				603328.329		ug/L	592936.498
75 As	-0.952670	24.420		-1861.071		ug/L	-502.888
82 Se	0.121404	160.524		-53.291		ug/L	-70.642
97 Mo	0.039265	11.990		146.669		ug/L	69.001
107 Ag	0.003803	31.547		145.336		ug/L	109.002
111 Cd	0.014555	22.723		64.001		ug/L	35.667
> 115 In-1				1039670.482		ug/L	994304.053
123 Sb	0.038277	16.578		428.837		ug/L	235.401
135 Ba	3.394860	1.466		6139.714		ug/L	183.670
> 165 Ho-1				1361407.233		ug/L	1276105.159
205 Tl	0.020088	38.294		2457.903		ug/L	1936.818
208 Pb	0.648445	2.726		20854.139		ug/L	3500.871
238 U	0.011985	2.646		241.338		ug/L	35.667
> 45 Sc-2				486355.596		ug/L	467697.114
53 Cr	71.401230	17.136		380724.082		ug/L	319041.768
54 Fe	115.405009	3.990		102651.521		ug/L	42890.999
61 Ni	1.766726	27.051		1243.400		ug/L	1069.051
63 Cu	4.002590	1.156		15782.538		ug/L	321.674
67 Zn	96.413122	4.389		41949.627		ug/L	21519.078
> 72 Ge				603328.329		ug/L	592936.498
77 Se	0.292423	3438.376		13632.176		ug/L	13366.987
98 Mo	0.039993	7.777		294.744		ug/L	95.062
109 Ag	0.004929	44.953		166.336		ug/L	120.002
> 115 In-2				1039670.482		ug/L	994304.053
114 Cd	0.017490	21.274		127.645		ug/L	53.748
121 Sb	0.036276	13.034		568.684		ug/L	329.340
137 Ba	3.486431	1.195		10603.039		ug/L	281.339
> 165 Ho-2				1361407.233		ug/L	1276105.159
182 W	0.009568	20.622		547.349		ug/L	457.679
183 W	0.010166	90.674		304.673		ug/L	253.338
194 Pt	0.002573	111.248		94.335		ug/L	76.668
195 Pt	0.000758	84.015		55.001		ug/L	48.001
203 Tl	0.021928	31.271		1012.046		ug/L	780.029
206 Pb	0.657602	3.121		5445.426		ug/L	888.037
207 Pb	0.640183	1.506		4456.406		ug/L	745.027
> 45 Sc				486355.596		ug/L	467697.114
47 Ti	1.508357	3.161		1685.116		ug/L	647.355
86 Sr	5.794322	2.091		13368.821		ug/L	151.307
88 Sr	5.730600	1.465		113516.037		ug/L	1301.072
> 115 In				1039670.482		ug/L	994304.053
118 Sn	0.169726	8.009		1280.737		ug/L	357.341

[ 120 Sn 0.178411 9.019 1797.164 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte Mass	Int Std % Recovery	QC Std % Recovery
[ Be 9		
[ B 10		
[ Na 23		
[ Mg 24		
[ Al 27		
[ K 39		
[ Ca 44		
> Sc-1 45	103.989	
[ V 51		
[ Cr 52		
[ Mn 55		
[ Fe 57		
[ Co 59		
[ Ni 60		
[ Cu 65		
[ Zn 66		
> Ge-1 72	101.753	
[ As 75		
[ Se 82		
[ Mo 97		
[ Ag 107		
[ Cd 111		
> In-1 115	104.563	
[ Sb 123		
[ Ba 135		
> Ho-1 165	106.685	
[ Tl 205		
[ Pb 208		
[ U 238		
> Sc-2 45	103.989	
[ Cr 53		
[ Fe 54		
[ Ni 61		
[ Cu 63		
[ Zn 67		
> Ge 72	101.753	
[ Se 77		
[ Mo 98		
[ Ag 109		
> In-2 115	104.563	
[ Cd 114		
[ Sb 121		
[ Ba 137		
> Ho-2 165	106.685	
[ W 182		
[ W 183		
[ Pt 194		
[ Pt 196		
[ Tl 203		
[ Pb 206		
[ Pb 207		
> Sc 45	103.989	
[ Ti 47		
[ Sr 86		
[ Sr 88		
> In 115	104.563	
[ Sn 118		
[ Sn 120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6

Sample Date/Time: Thursday, May 24, 2007 19:56:42

Autosampler Position: 7

Dataset File: D:\Elandata\Dataset\052407m1\QC Std 6.113

## Sample Result Summary

Mass	Analyte	Conc.	Mean	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
	9 Be	186.353257	3.452		28725.816	ug/L	3.000	
	10 B	183.271438	1.920		6505.546	ug/L	90.668	
	23 Na	1915.593038	0.782		9104477.716	ug/L	24909.622	
	24 Mg	997.950433	0.651		3221921.874	ug/L	6273.773	
	27 Al	1914.727556	0.986		8874779.759	ug/L	15227.265	
	39 K	1877.592071	0.916		13683656.397	ug/L	707925.205	
	44 Ca	1035.278297	1.188		290249.477	ug/L	48369.900	
>	45 Sc-1				471687.480	ug/L	467697.114	
	51 V	174.444503	1.110		1418640.639	ug/L	-17188.401	
	52 Cr	186.743086	1.489		1316531.478	ug/L	43700.177	
	55 Mn	182.315720	0.993		1897086.267	ug/L	3939.583	
	57 Fe	2032.428303	1.962		386696.243	ug/L	6563.304	
	59 Co	183.291346	1.571		1343961.601	ug/L	70.668	
	60 Ni	181.293651	1.401		289529.834	ug/L	205.004	
	65 Cu	183.418455	0.776		349521.731	ug/L	201.670	
	66 Zn	181.709112	1.182		204926.451	ug/L	3569.482	
>	72 Ge-1				574312.503	ug/L	592936.498	
	75 As	192.885378	1.810		259637.382	ug/L	-502.888	
	82 Se	193.437886	2.048		28059.032	ug/L	-70.842	
	97 Mo	185.782182	3.033		339103.529	ug/L	69.001	
	107 Ag	47.390925	1.195		376426.643	ug/L	109.002	
	111 Cd	188.761058	1.159		332929.429	ug/L	35.667	
>	115 In-1				999204.107	ug/L	994304.053	
	123 Sb	184.928259	2.215		848796.321	ug/L	235.401	
	135 Ba	178.985473	1.094		297854.374	ug/L	183.670	
>	165 Ho-1				1293218.631	ug/L	1276105.159	
	205 Tl	178.745339	3.517		3311800.212	ug/L	1936.818	
	208 Pb	185.868794	0.984		4655115.017	ug/L	3500.871	
	238 U	182.496236	1.805		2940455.166	ug/L	35.667	
>	45 Sc-2				471687.480	ug/L	467697.114	
	53 Cr	133.230847	13.421		410142.605	ug/L	319041.788	
	54 Fe	2016.874372	1.806		1027382.518	ug/L	42890.999	
	61 Ni	180.790219	1.184		14128.458	ug/L	1069.051	
	63 Cu	181.865765	0.909		681088.771	ug/L	321.674	
	67 Zn	167.830950	1.144		54736.220	ug/L	21519.078	
>	72 Ge				574312.503	ug/L	592936.498	
	77 Se	180.249567	1.612		31889.732	ug/L	13366.987	
	98 Mo	184.117151	1.823		864330.500	ug/L	95.062	
	109 Ag	46.524533	1.171		371072.894	ug/L	120.002	
>	115 In-2				999204.107	ug/L	994304.053	
	114 Cd	191.937656	1.422		754404.185	ug/L	53.748	
	121 Sb	186.854564	1.943		1111267.023	ug/L	329.340	
	137 Ba	182.726030	0.689		513245.983	ug/L	281.339	
>	165 Ho-2				1293218.631	ug/L	1276105.159	
	182 W	184.704868	2.488		1082993.945	ug/L	457.679	
	183 W	183.864886	1.371		592747.229	ug/L	253.338	
	194 Pt	188.585909	2.049		871547.795	ug/L	76.668	
	195 Pt	188.976146	0.875		895528.907	ug/L	48.001	
	203 Tl	179.998394	1.909		1402560.270	ug/L	780.029	
	206 Pb	191.764740	0.940		1246991.103	ug/L	888.037	
	207 Pb	186.438645	0.599		1013699.895	ug/L	745.027	
>	45 Sc				471687.480	ug/L	467697.114	
	47 Ti	189.424093	1.610		123862.889	ug/L	647.355	
	86 Sr	187.291698	0.913		414320.425	ug/L	151.307	
	88 Sr	183.903822	1.590		3492597.590	ug/L	1301.072	
>	115 In				999204.107	ug/L	994304.053	
	118 Sn	184.861646	0.841		948734.700	ug/L	357.341	

120 Sn 186.113138 2.387 1289191.857 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Be	9		93.177
B	10		91.636
Na	23		95.780
Mg	24		98.795
Al	27		95.736
K	39		93.880
Ca	44		103.528
> Sc-1	45	100.853	
V	51		87.222
Cr	52		93.372
Mn	55		91.158
Fe	57		101.621
Co	59		91.646
Ni	60		90.647
Cu	65		91.709
Zn	66		90.855
> Ge-1	72	96.859	
As	75		96.443
Se	82		96.719
Mo	97		92.691
Ag	107		94.782
Cd	111		94.381
> In-1	115	100.493	
Sb	123		92.464
Ba	135		89.493
> Ho-1	165	101.341	
Tl	205		89.373
Pb	208		92.934
U	238		91.248
> Sc-2	45	100.853	
Cr	53		66.615
Fe	54		100.844
Ni	61		90.395
Cu	63		90.933
Zn	67		83.915
> Ge	72	96.859	
Se	77		90.125
Mo	98		92.059
Ag	109		93.049
> In-2	115	100.493	
Cd	114		95.969
Sb	121		93.427
Ba	137		91.363
> Ho-2	165	101.341	
W	182		92.352
W	183		91.932
Pt	194		94.293
Pt	195		94.488
Tl	203		89.999
Pb	206		95.882
Pb	207		93.219
> Sc	45	100.853	
Tl	47		94.712
Sr	86		93.846
Sr	88		91.852
> In	115	100.493	
Sn	118		92.331
Sn	120		93.057

**QC Out Of Limits**

Analyte	Mass	Out of Limits	Message
V	51	Q	
Ba	135	Q	
Tl	205	Q	
Cr	53	Q	
Zn	67	Q	
Tl	203	Q	

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 7

Sample Date/Time: Thursday, May 24, 2007 20:03:19

Autosampler Position: 1

Dataset File: D:\Elandata\Dataset\052407m1\QC Std 7.114

## Sample Result Summary

Mass Analyte	Conc.	MeanConc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.011250	67.524		4.667	ug/L	3.000	
10 B	2.165757	34.519		164.003	ug/L	90.668	
23 Na	-0.177324	39.316		23799.713	ug/L	24909.622	
24 Mg	-0.041281	88.456		6071.684	ug/L	6273.773	
27 Al	-0.618056	4.713		12249.706	ug/L	15227.265	
39 K	-2.078574	67.173		685741.739	ug/L	707925.205	
44 Ca	-28.407800	5.598		41320.418	ug/L	48369.900	
> 45 Sc-1				462357.088	ug/L	467697.114	
51 V	1.117313	9.348		-7976.821	ug/L	-17188.401	
52 Cr	-1.063147	14.685		36094.918	ug/L	43700.177	
55 Mn	-0.141948	3.972		2449.568	ug/L	3939.583	
57 Fe	-2.761615	11.455		5981.796	ug/L	6563.304	
59 Co	0.006002	24.069		113.002	ug/L	70.668	
60 Ni	-0.002742	441.884		198.337	ug/L	205.004	
65 Cu	-0.009340	108.924		182.003	ug/L	201.670	
66 Zn	-0.540690	6.293		2941.332	ug/L	3569.482	
> 72 Ge-1				567334.290	ug/L	592936.498	
75 As	0.620554	56.967		345.867	ug/L	-502.888	
82 Se	0.186601	172.481		-40.811	ug/L	-70.642	
97 Mo	0.086180	52.193		222.004	ug/L	69.001	
107 Ag	0.005540	23.119		150.336	ug/L	109.002	
111 Cd	0.005929	20.799		45.334	ug/L	35.667	
> 115 In-1				978082.268	ug/L	994304.053	
123 Sb	0.037329	21.534		399.466	ug/L	235.401	
135 Ba	-0.004272	175.033		178.670	ug/L	183.670	
> 165 Ho-1				1291142.587	ug/L	1276105.159	
205 Tl	0.287373	42.952		7266.372	ug/L	1936.818	
208 Pb	-0.019953	38.306		3041.825	ug/L	3500.871	
238 U	0.007828	2.476		162.003	ug/L	35.667	
> 45 Sc-2				462357.088	ug/L	467697.114	
53 Cr	-78.154322	6.816		264506.998	ug/L	319041.768	
54 Fe	-4.722376	93.335		40142.916	ug/L	42890.999	
61 Ni	-0.674554	117.188		1009.379	ug/L	1069.051	
63 Cu	-0.006096	47.826		295.673	ug/L	321.674	
67 Zn	-4.886825	21.675		20329.658	ug/L	21519.078	
> 72 Ge				567334.290	ug/L	592936.498	
77 Se	-49.263404	13.299		7674.901	ug/L	13366.987	
98 Mo	0.092238	36.554		517.781	ug/L	95.062	
109 Ag	0.023646	21.638		302.673	ug/L	120.002	
> 115 In-2				978082.268	ug/L	994304.053	
114 Cd	0.012128	5.041		99.537	ug/L	53.748	
121 Sb	0.035347	17.777		529.682	ug/L	329.340	
137 Ba	-0.006678	77.117		266.005	ug/L	281.339	
> 165 Ho-2				1291142.587	ug/L	1276105.159	
182 W	0.243240	32.832		1884.815	ug/L	457.679	
183 W	0.241770	34.480		1033.383	ug/L	253.338	
194 Pt	0.006746	18.949		108.668	ug/L	76.668	
195 Pt	0.005874	17.024		76.334	ug/L	48.001	
203 Tl	0.300486	43.384		3122.729	ug/L	780.029	
206 Pb	-0.018992	44.341		775.029	ug/L	888.037	
207 Pb	-0.019580	63.314		647.355	ug/L	745.027	
> 45 Sc				462357.088	ug/L	467697.114	
47 Ti	-0.099301	25.047		576.684	ug/L	647.355	
86 Sr	0.002265	712.863		154.456	ug/L	151.307	
88 Sr	0.002123	32.226		1325.741	ug/L	1301.072	
> 115 In				978082.268	ug/L	994304.053	
118 Sn	0.032355	24.842		514.348	ug/L	357.341	



120 Sn 0.029601 27.068 681.421 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Be	9		1.125
B	10		216.576
Na	23		-0.177
Mg	24		-0.041
Al	27		-0.618
K	39		-2.079
Ca	44		-28.408
> Sc-1	45	98.858	
V	51		111.731
Cr	52		-106.315
Mn	55		-14.195
Fe	57		-2.762
Co	59		0.600
Ni	60		-0.274
Cu	65		-0.934
Zn	66		-54.069
> Ge-1	72	95.682	
As	75		62.055
Se	82		18.680
Mo	97		8.618
Ag	107		0.584
Cd	111		0.583
> In-1	115	98.369	
Sb	123		3.733
Ba	135		-0.427
> Ho-1	165	101.178	
Tl	205		28.737
Pb	208		-1.985
U	238		0.783
> Sc-2	45	98.858	
Cr	53		-7815.432
Fe	54		-4.722
NI	61		-67.455
Cu	63		-0.510
Zn	67		-488.683
> Ge	72	95.682	
Se	77		-4928.340
Mo	98		9.224
Ag	109		2.385
> In-2	115	98.369	
Cd	114		1.213
Sb	121		3.535
Ba	137		-0.668
> Ho-2	165	101.178	
W	182		24.324
W	183		24.177
Pt	194		0.675
Pt	195		0.587
Tl	203		30.049
Pb	206		-1.899
Pb	207		-1.958
> Sc	45	98.858	
Tl	47		-9.930
Sr	86		0.228
Sr	88		0.212
> In	115	98.369	
Sn	118		3.236
Sn	120		2.960

**QC Out Of Limits**

Analyte	Mass	Out of Limits	Message
B	10	Q	
V	51	Q	
Cr	52	Q	
Cr	53	Q	
Zn	67	Q	
Se	77	Q	

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW3MLB

Sample Date/Time: Thursday, May 24, 2007 20:09:53

Autosampler Position: 74

Dataset File: D:\Elandata\Dataset\052407m1\JW3MLB.115

## Sample Result Summary

Mass	Analyte	Conc.	Mean	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
	9	Be	0.005362	118.292		4.000	ug/L	3.000
	10	B	1.069969	73.859		133.669	ug/L	90.668
	23	Na	2.435304	5.628		38077.059	ug/L	24909.622
	24	Mg	-0.394134	7.664		5252.685	ug/L	6273.773
	27	Al	-0.478658	12.802		13647.986	ug/L	15227.265
	39	K	-8.019387	18.842		683930.380	ug/L	707925.205
	44	Ca	-32.449217	6.263		42803.796	ug/L	48369.900
>	45	Sc-1				489938.440	ug/L	467697.114
	51	V	-1.229534	7.537		-28528.439	ug/L	-17188.401
	52	Cr	1.466542	14.327		56161.149	ug/L	43700.177
	55	Mn	-0.015778	14.166		3956.921	ug/L	3939.583
	57	Fe	-4.193049	11.828		6059.730	ug/L	6563.304
	59	Co	0.004205	17.714		106.001	ug/L	70.668
	60	Ni	0.044725	31.530		288.672	ug/L	205.004
	65	Cu	0.227664	5.820		661.355	ug/L	201.670
	66	Zn	-0.200186	52.472		3507.466	ug/L	3569.482
>	72	Ge-1				604961.723	ug/L	592936.498
	75	As	-0.551153	159.267		-1292.834	ug/L	-502.888
	82	Se	0.406771	66.423		-9.693	ug/L	-70.642
	97	Mo	0.029175	33.340		127.335	ug/L	69.001
	107	Ag	0.006953	65.307		171.336	ug/L	109.002
	111	Cd	-0.000681	494.816		36.000	ug/L	35.667
>	115	In-1				1038202.968	ug/L	994304.053
	123	Sb	0.019484	2.145		338.712	ug/L	235.401
	135	Ba	0.091789	25.188		353.675	ug/L	183.670
>	165	Ho-1				1350443.189	ug/L	1276105.159
	205	Tl	0.094272	32.529		3874.239	ug/L	1936.818
	208	Pb	-0.010366	18.256		3433.196	ug/L	3500.871
	238	U	0.001202	41.056		58.001	ug/L	35.667
>	45	Sc-2				489938.440	ug/L	467697.114
	53	Cr	56.815902	30.060		373452.150	ug/L	319041.768
	54	Fe	67.999871	6.523		79380.104	ug/L	42890.999
	61	Ni	0.862649	38.739		1184.394	ug/L	1069.051
	63	Cu	0.221114	3.518		1196.395	ug/L	321.674
	67	Zn	38.704636	19.308		30465.838	ug/L	21519.078
>	72	Ge				604961.723	ug/L	592936.498
	77	Se	-14.387798	44.880		12046.308	ug/L	13366.987
	98	Mo	0.031990	12.080		255.336	ug/L	95.062
	109	Ag	0.020470	19.714		295.006	ug/L	120.002
>	115	In-2				1038202.968	ug/L	994304.053
	114	Cd	0.004718	21.284		75.403	ug/L	53.748
	121	Sb	0.013556	14.425		427.677	ug/L	329.340
	137	Ba	0.083440	8.705		542.349	ug/L	281.339
>	165	Ho-2				1350443.189	ug/L	1276105.159
	182	W	0.092281	15.911		1049.383	ug/L	457.679
	183	W	0.081059	23.057		541.016	ug/L	253.338
	194	Pt	0.003626	70.109		98.668	ug/L	76.668
	195	Pt	0.002731	65.473		64.334	ug/L	48.001
	203	Tl	0.100415	28.679		1642.779	ug/L	780.029
	206	Pb	-0.010958	42.953		865.368	ug/L	888.037
	207	Pb	-0.006763	53.421		750.027	ug/L	745.027
>	45	Sc				489938.440	ug/L	467697.114
	47	Ti	0.057587	79.764		717.359	ug/L	647.355
	86	Sr	0.027647	29.077		221.810	ug/L	151.307
	88	Sr	-0.000984	165.445		1343.410	ug/L	1301.072
>	115	In				1038202.968	ug/L	994304.053
	118	Sn	0.146163	1.240		1153.058	ug/L	357.341

120 Sn 0.139925 8.486 1516.818 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte Mass	Int Std % Recovery	QC Std % Recovery
Be 9		
B 10		
Na 23		
Mg 24		
Al 27		
K 39		
Ca 44		
> Sc-1 45	104.755	
V 51		
Cr 52		
Mn 55		
Fe 57		
Co 59		
Ni 60		
Cu 65		
Zn 66		
> Ge-1 72	102.028	
As 75		
Se 82		
Mo 97		
Ag 107		
Cd 111		
> In-1 116	104.415	
Sb 123		
Ba 135		
> Ho-1 165	105.825	
Tl 205		
Pb 208		
U 238		
> Sc-2 45	104.755	
Cr 53		
Fe 54		
Ni 61		
Cu 63		
Zn 67		
> Ge 72	102.028	
Se 77		
Mo 98		
Ag 106		
> In-2 115	104.415	
Cd 114		
Sb 121		
Ba 137		
> Ho-2 165	105.825	
W 182		
W 183		
Pt 194		
Pt 195		
Tl 203		
Pb 206		
Pb 207		
> Sc 45	104.755	
Tl 47		
Sr 86		
Sr 88		
> In 115	104.415	
Sn 118		
Sn 120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW3MLC

Sample Date/Time: Thursday, May 24, 2007 20:15:56

Autosampler Position: 75

Dataset File: D:\Elandata\Dataset\052407m1\JW3MLC.116

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	472.988276	0.798	74939.817	ug/L	3.000		
10 B	956.719647	1.214	34504.301	ug/L	90.668		
23 Na	9952.848686	3.049	48500190.398	ug/L	24909.622		
24 Mg	10030.557395	2.419	33216368.443	ug/L	6273.773		
27 Al	500.662687	1.789	2396005.115	ug/L	15227.265		
39 K	9584.426876	2.159	68783404.381	ug/L	707925.205		
44 Ca	9837.009127	1.330	2407942.603	ug/L	48369.900		
> 45 Sc-1			484706.021	ug/L	467697.114		
51 V	437.859571	1.920	3686072.055	ug/L	-17188.401		
52 Cr	458.513415	1.884	3255984.924	ug/L	43700.177		
55 Mn	469.790147	2.079	5016758.216	ug/L	3939.583		
57 Fe	497.842618	0.723	102486.460	ug/L	6583.304		
59 Co	452.194411	1.618	3407175.223	ug/L	70.668		
60 Ni	444.485229	0.685	729195.186	ug/L	205.004		
65 Cu	434.907845	1.207	851364.380	ug/L	201.670		
66 Zn	422.673953	0.474	484963.438	ug/L	3569.482		
> 72 Ge-1			577544.846	ug/L	592936.498		
75 As	495.055152	1.281	670857.497	ug/L	-502.888		
82 Se	459.756292	1.196	67167.553	ug/L	-70.642		
97 Mo	495.797104	0.351	925515.568	ug/L	69.001		
107 Ag	121.671709	0.824	988180.697	ug/L	109.002		
111 Cd	475.437810	0.649	857520.923	ug/L	35.667		
> 115 In-1			1021730.050	ug/L	994304.053		
123 Sb	444.306278	0.893	2085406.235	ug/L	235.401		
135 Ba	447.766490	0.743	765603.087	ug/L	183.670		
> 165 Ho-1			1329135.059	ug/L	1276105.159		
205 Tl	463.795125	2.421	8829333.225	ug/L	1936.818		
208 Pb	469.595417	0.935	12108436.498	ug/L	3500.871		
238 U	982.072409	2.075	16262353.390	ug/L	35.667		
> 45 Sc-2			484706.021	ug/L	467697.114		
53 Cr	571.273638	2.621	720473.500	ug/L	319041.768		
54 Fe	596.655829	0.940	343657.182	ug/L	42890.999		
61 Ni	456.427009	1.579	34964.421	ug/L	1069.051		
63 Cu	435.288973	1.140	1674772.109	ug/L	321.674		
67 Zn	450.913344	1.759	113498.567	ug/L	21519.078		
> 72 Ge			577544.846	ug/L	592936.498		
77 Se	422.605388	1.469	57689.244	ug/L	13366.987		
98 Mo	470.414366	0.247	2258317.692	ug/L	95.062		
109 Ag	126.086611	1.380	1028237.953	ug/L	120.002		
> 115 In-2			1021730.050	ug/L	994304.053		
114 Cd	463.490977	0.995	1862746.558	ug/L	53.748		
121 Sb	461.675996	0.576	2807620.603	ug/L	329.340		
137 Ba	440.863316	0.754	1272259.555	ug/L	281.339		
> 165 Ho-2			1329135.059	ug/L	1276105.159		
182 W	929.584716	2.059	5600110.056	ug/L	457.679		
183 W	907.166062	1.238	3004726.214	ug/L	253.338		
194 Pt	875.514645	1.197	4158690.974	ug/L	76.868		
195 Pt	892.404432	1.381	4346032.454	ug/L	48.001		
203 Tl	450.857977	1.940	3609758.109	ug/L	780.029		
206 Pb	466.147786	0.539	3114294.718	ug/L	888.037		
207 Pb	476.313288	1.143	2660503.715	ug/L	745.027		
> 45 Sc			484706.021	ug/L	467697.114		
47 Ti	962.579668	1.778	644109.816	ug/L	647.355		
86 Sr	468.262828	0.603	1064332.818	ug/L	151.307		
88 Sr	474.638329	0.424	9260727.843	ug/L	1301.072		
> 115 In			1021730.050	ug/L	994304.053		
118 Sn	927.897561	0.251	4873318.300	ug/L	357.341		

120 Sn 946.826397 0.688 6705747.900 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	103.637	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
Zn	66		
> Ge-1	72	97.404	
As	75		
Se	82		
Mo	97		
Ag	107		
Cd	111		
> In-1	115	102.758	
Sb	123		
Ba	135		
> Ho-1	165	104.156	
Tl	205		
Pb	208		
U	238		
> Sc-2	45	103.637	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
Zn	67		
> Ge	72	97.404	
Se	77		
Mo	98		
Ag	108		
> In-2	115	102.758	
Cd	114		
Sb	121		
Ba	137		
> Ho-2	165	104.156	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
Pb	207		
> Sc	45	103.637	
Tl	47		
Sr	86		
Sr	88		
> In	115	102.758	
Sn	118		
Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRGX

Sample Date/Time: Thursday, May 24, 2007 20:22:00

Autosampler Position: 76

Dataset File: D:\Elandata\Dataset\052407m1\JWRGX.117

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.000291	6066.770		3.000	ug/L	3.000	
10 B	200.617121	1.950		6961.766	ug/L	90.668	
23 Na	23518.756726	1.332		109136403.206	ug/L	24909.622	
24 Mg	4330.016104	1.867		13662706.321	ug/L	6273.773	
27 Al	0.116158	61.005		15555.955	ug/L	15227.265	
39 K	494.538871	2.426		4042393.146	ug/L	707925.205	
44 Ca	8734.065975	0.318		2041786.927	ug/L	48369.900	
> 45 Sc-1				461667.568	ug/L	467697.114	
51 V	6.077366	16.297		31972.227	ug/L	-17188.401	
52 Cr	47.234667	0.491		358192.253	ug/L	43700.177	
55 Mn	1.180550	0.821		15887.322	ug/L	3939.583	
57 Fe	-22.583898	2.113		2344.122	ug/L	6563.304	
59 Co	0.047097	6.768		407.677	ug/L	70.668	
60 Ni	0.269893	7.871		624.020	ug/L	205.004	
65 Cu	0.171490	15.071		518.681	ug/L	201.670	
66 Zn	0.915771	11.747		4517.093	ug/L	3569.482	
> 72 Ge-1				567279.152	ug/L	592936.498	
75 As	7.324652	2.527		9275.919	ug/L	-502.888	
82 Se	0.313947	59.159		-22.484	ug/L	-70.642	
97 Mo	1.007278	2.187		1853.472	ug/L	69.001	
107 Ag	0.009777	51.358		182.003	ug/L	109.002	
111 Cd	0.037043	21.092		98.335	ug/L	35.667	
> 115 In-1				970530.078	ug/L	994304.053	
123 Sb	0.055208	18.836		476.047	ug/L	235.401	
135 Ba	0.811177	1.686		1534.098	ug/L	183.670	
> 165 Ho-1				1292171.689	ug/L	1276105.159	
205 Tl	0.687889	44.756		14710.165	ug/L	1936.818	
208 Pb	-0.010253	55.808		3288.512	ug/L	3500.871	
238 U	2.033432	1.872		32777.235	ug/L	35.667	
> 45 Sc-2				461667.568	ug/L	467697.114	
53 Cr	-47.547657	3.855		284020.120	ug/L	319041.768	
54 Fe	-1.427107	328.236		41650.888	ug/L	42890.999	
61 Ni	0.077611	306.233		1060.717	ug/L	1069.051	
63 Cu	0.208388	10.482		1080.718	ug/L	321.674	
67 Zn	-2.805062	43.246		20700.528	ug/L	21519.078	
> 72 Ge				567279.152	ug/L	592936.498	
77 Se	-74.897837	5.298		5013.095	ug/L	13366.987	
98 Mo	1.053288	5.608		4896.475	ug/L	95.062	
109 Ag	0.037726	29.338		409.677	ug/L	120.002	
> 115 In-2				970530.078	ug/L	994304.053	
114 Cd	0.039388	24.667		202.972	ug/L	53.748	
121 Sb	0.034976	24.261		523.882	ug/L	329.340	
137 Ba	0.832316	1.362		2619.600	ug/L	281.339	
> 165 Ho-2				1292171.689	ug/L	1276105.159	
182 W	1.948430	9.510		11878.419	ug/L	457.679	
183 W	1.888471	9.117		6339.478	ug/L	253.338	
194 Pt	0.019017	70.961		165.669	ug/L	76.668	
195 Pt	0.021175	45.208		149.002	ug/L	48.001	
203 Tl	0.683500	45.474		6117.512	ug/L	780.029	
206 Pb	-0.004922	151.586		867.368	ug/L	888.037	
207 Pb	-0.004710	219.289		729.026	ug/L	745.027	
> 45 Sc				461667.568	ug/L	467697.114	
47 Ti	0.308952	3.056		835.699	ug/L	647.355	
86 Sr	342.791280	0.340		742124.321	ug/L	151.307	
88 Sr	342.583267	0.190		6366943.749	ug/L	1301.072	
> 115 In				970530.078	ug/L	994304.053	
118 Sn	0.069717	29.655		697.024	ug/L	357.341	

[ 120 Sn 0.068401 20.874 937.480 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	98.711	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
Zn	66		
> Ge-1	72	95.873	
As	75		
Se	82		
Mo	97		
Ag	107		
Cd	111		
> In-1	115	97.609	
Sb	123		
Ba	135		
> Ho-1	165	101.259	
Tl	205		
Pb	208		
U	238		
> Sc-2	45	98.711	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
Zn	67		
> Ge	72	85.873	
Se	77		
Mo	98		
Ag	109		
> In-2	115	97.609	
Cd	114		
Sb	121		
Ba	137		
> Ho-2	165	101.259	
W	182		
W	183		
Pt	194		
Pt	195		
Ti	203		
Pb	206		
Pb	207		
> Sc	45	98.711	
Ti	47		
Sr	86		
Sr	88		
> In	115	97.609	
Sn	118		
Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRGXS

Sample Date/Time: Thursday, May 24, 2007 20:28:05

Autosampler Position: 77

Dataset File: D:\Elandata\Dataset\052407m1\JWRGXS.118

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	1.127346		8.925		175.336	ug/L	3.000
10 B	237.490349		1.570		8338.849	ug/L	90.668
23 Na	24366.174145		2.483	114595697.512		ug/L	24909.622
24 Mg	5403.123229		2.111	17277608.168		ug/L	6273.773
27 Al	50.490525		2.364	246971.280		ug/L	15227.265
39 K	1682.444904		0.965	12238006.711		ug/L	707925.205
44 Ca	9603.808957		1.187	2270759.334		ug/L	48369.900
> 45 Sc-1				467963.525		ug/L	467697.114
51 V	17.605168		2.776	126605.724		ug/L	-17188.401
52 Cr	51.036293		0.622	388793.090		ug/L	43700.177
55 Mn	12.897340		1.054	136811.743		ug/L	3939.583
57 Fe	1.089759		46.892	6769.842		ug/L	6563.304
59 Co	11.881109		1.685	86494.934		ug/L	70.668
60 Ni	11.527207		1.586	18456.433		ug/L	205.004
65 Cu	5.769349		0.829	11102.757		ug/L	201.670
66 Zn	11.338536		3.433	16034.156		ug/L	3569.482
> 72 Ge-1				570427.930		ug/L	592936.498
75 As	58.419938		0.793	77765.233		ug/L	-502.888
82 Se	44.380419		0.197	6342.817		ug/L	-70.642
97 Mo	25.798260		0.497	45571.032		ug/L	69.001
107 Ag	1.413530		2.134	10950.972		ug/L	109.002
111 Cd	1.302461		1.681	2254.534		ug/L	35.667
> 115 In-1				965551.254		ug/L	994304.053
123 Sb	12.416767		2.542	55283.056		ug/L	235.401
135 Ba	46.861803		0.373	76130.431		ug/L	183.670
> 165 Ho-1				1260172.685		ug/L	1276105.159
205 Tl	47.393617		2.306	857052.100		ug/L	1936.818
208 Pb	12.105689		1.507	299287.243		ug/L	3500.871
238 U	50.631511		1.639	794918.932		ug/L	35.667
> 45 Sc-2				467963.525		ug/L	467697.114
53 Cr	-30.697100		12.032	298985.360		ug/L	319041.768
54 Fe	24.092292		24.065	54583.530		ug/L	42890.999
61 Ni	13.293623		7.487	2021.830		ug/L	1069.051
63 Cu	5.923106		2.185	22316.977		ug/L	321.674
67 Zn	7.359488		6.612	22966.012		ug/L	21519.078
> 72 Ge				570427.930		ug/L	592936.498
77 Se	-11.440522		34.702	11667.190		ug/L	13366.987
98 Mo	25.694328		1.629	116634.938		ug/L	95.062
109 Ag	1.932614		2.671	15010.706		ug/L	120.002
> 115 In-2				965551.254		ug/L	994304.053
114 Cd	1.268987		2.132	4870.589		ug/L	53.748
121 Sb	12.527908		2.256	72292.867		ug/L	329.340
137 Ba	47.865783		1.081	131208.132		ug/L	281.339
> 165 Ho-2				1260172.685		ug/L	1276105.159
182 W	50.259027		1.788	287474.201		ug/L	457.679
183 W	49.935834		1.040	157050.125		ug/L	253.338
194 Pt	49.844519		1.806	224525.637		ug/L	76.668
195 Pt	50.065525		0.690	231222.315		ug/L	48.001
203 Tl	47.067151		1.710	357956.595		ug/L	780.029
206 Pb	12.094804		1.281	77456.523		ug/L	888.037
207 Pb	12.165666		1.546	65141.849		ug/L	745.027
> 45 Sc				467963.525		ug/L	467697.114
47 Ti	48.248348		1.140	31786.311		ug/L	647.355
86 Sr	354.506889		0.435	777939.775		ug/L	151.307
88 Sr	350.624883		1.598	6604558.071		ug/L	1301.072
> 115 In				965551.254		ug/L	994304.053
118 Sn	49.232953		2.011	244629.543		ug/L	357.341



[ 120 Sn 49.505902 1.592 331734.255 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
[ B	10		
[ Na	23		
[ Mg	24		
[ Al	27		
[ K	39		
[ Ca	44		
> Sc-1	45	100.057	
[ V	51		
[ Cr	52		
[ Mn	55		
[ Fe	57		
[ Co	59		
[ Ni	60		
[ Cu	65		
[ Zn	66		
> Ge-1	72	96.204	
[ As	75		
[ Se	82		
[ Mo	97		
[ Ag	107		
[ Cd	111		
> In-1	115	97.108	
[ Sb	123		
[ Ba	135		
> Ho-1	165	98.751	
[ Tl	205		
[ Pb	208		
[ U	238		
> Sc-2	45	100.057	
[ Cr	53		
[ Fe	54		
[ Ni	61		
[ Cu	63		
[ Zn	67		
> Ge	72	96.204	
[ Se	77		
[ Mo	98		
[ Ag	109		
> In-2	115	97.108	
[ Cd	114		
[ Sb	121		
[ Ba	137		
> Ho-2	165	98.751	
[ W	182		
[ W	183		
[ Pt	194		
[ Pt	195		
[ Tl	203		
[ Pb	206		
[ Pb	207		
> Sc	45	100.057	
[ Tl	47		
[ Sr	86		
[ Sr	88		
> In	115	97.108	
[ Sn	118		
[ Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

.

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRGXD

Sample Date/Time: Thursday, May 24, 2007 20:34:10

Autosampler Position: 78

Dataset File: D:\Elandata\Dataset\052407m1\JWRGXD.119

## Sample Result Summary

Mass	Analyte	Conc.	Mean	Conc.	RSD	Meas.	Intens.	Mean	Sample	Unit	Blank	Intensity
	9 Be	1.223615	1.789				191.337		ug/L		3.000	
	10 B	239.100054	2.486				8441.911		ug/L		90.668	
	23 Na	24339.796822	4.986			115111898.685			ug/L		24909.622	
	24 Mg	5392.757132	3.252			17343789.269			ug/L		6273.773	
	27 Al	51.313197	3.083			252211.968			ug/L		15227.265	
	39 K	1688.021745	1.373			12349881.453			ug/L		707925.205	
	44 Ca	9666.799240	2.398			2298723.938			ug/L		48369.900	
>	45 Sc-1					470793.973			ug/L		467697.114	
	51 V	16.795681	0.384			120711.865			ug/L		-17188.401	
	52 Cr	50.513679	2.206			387494.195			ug/L		43700.177	
	55 Mn	13.187348	2.056			140616.408			ug/L		3939.583	
	57 Fe	-0.281030	198.358			6553.993			ug/L		6563.304	
	59 Co	12.003675	2.569			87898.479			ug/L		70.668	
	60 Ni	11.501676	2.584			18523.521			ug/L		205.004	
	65 Cu	5.887186	3.312			11390.320			ug/L		201.670	
	66 Zn	10.881158	3.727			15622.027			ug/L		3569.482	
>	72 Ge-1					571756.404			ug/L		592936.498	
	75 As	59.340166	2.297			79183.438			ug/L		-502.888	
	82 Se	44.653352	1.284			6396.984			ug/L		-70.642	
	97 Mo	25.358864	0.824			45840.890			ug/L		69.001	
	107 Ag	1.408548	1.213			11169.477			ug/L		109.002	
	111 Cd	1.293237	0.798			2290.873			ug/L		35.667	
>	115 In-1					988035.102			ug/L		994304.053	
	123 Sb	12.261866	0.814			55879.412			ug/L		235.401	
	135 Ba	46.897648	1.835			77744.796			ug/L		183.670	
>	165 Ho-1					1285917.077			ug/L		1276105.159	
	205 Tl	47.228364	1.200			871697.434			ug/L		1936.818	
	208 Pb	12.207296	0.694			307968.232			ug/L		3500.871	
	238 U	51.263022	0.648			821379.200			ug/L		35.667	
>	45 Sc-2					470793.973			ug/L		467697.114	
	53 Cr	-30.289321	34.927			300997.688			ug/L		319041.768	
	54 Fe	25.135134	12.083			55434.879			ug/L		42890.999	
	61 Ni	13.665930	8.267			2061.170			ug/L		1069.051	
	63 Cu	5.962540	2.006			22597.753			ug/L		321.674	
	67 Zn	3.434935	72.106			22331.331			ug/L		21519.078	
>	72 Ge					571756.404			ug/L		592936.498	
	77 Se	-4.572765	78.446			12409.578			ug/L		13366.987	
	98 Mo	25.481722	1.357			118380.629			ug/L		95.062	
	109 Ag	1.884558	1.900			14978.666			ug/L		120.002	
>	115 In-2					988035.102			ug/L		994304.053	
	114 Cd	1.274015	3.571			5004.250			ug/L		53.748	
	121 Sb	12.433970	0.424			73438.344			ug/L		329.340	
	137 Ba	47.391861	1.168			132571.987			ug/L		281.339	
>	165 Ho-2					1285917.077			ug/L		1276105.159	
	182 W	49.895817	0.897			291270.701			ug/L		457.679	
	183 W	49.723379	1.287			159587.080			ug/L		253.338	
	194 Pt	49.110705	0.697			225774.111			ug/L		76.668	
	195 Pt	49.410121	0.171			232864.203			ug/L		48.001	
	203 Tl	47.578796	3.154			369268.852			ug/L		780.029	
	206 Pb	12.088999	0.334			79009.341			ug/L		888.037	
	207 Pb	12.171034	1.808			66505.469			ug/L		745.027	
>	45 Sc					470793.973			ug/L		467697.114	
	47 Tl	48.438433	2.785			32093.333			ug/L		647.355	
	86 Sr	361.925316	0.594			798994.424			ug/L		151.307	
	88 Sr	356.821202	1.726			6761370.244			ug/L		1301.072	
>	115 In					988035.102			ug/L		994304.053	
	118 Sn	49.217741	0.103			250304.625			ug/L		357.341	

[ 120 Sn 48.766468 1.452 334442.658 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
[ B	10		
[ Na	23		
[ Mg	24		
[ Al	27		
[ K	39		
[ Ca	44		
> Sc-1	45	100.662	
[ V	51		
[ Cr	52		
[ Mn	55		
[ Fe	57		
[ Co	59		
[ Ni	60		
[ Cu	65		
[ Zn	66		
> Ge-1	72	96.428	
[ As	75		
[ Se	82		
[ Mo	97		
[ Ag	107		
[ Cd	111		
> In-1	115	99.370	
[ Sb	123		
[ Ba	135		
> Ho-1	165	100.769	
[ Tl	205		
[ Pb	208		
[ U	238		
> Sc-2	45	100.662	
[ Cr	53		
[ Fe	54		
[ Ni	61		
[ Cu	63		
[ Zn	67		
> Ge	72	96.428	
[ Se	77		
[ Mo	98		
[ Ag	109		
> In-2	115	99.370	
[ Cd	114		
[ Sb	121		
[ Ba	137		
> Ho-2	165	100.769	
[ W	182		
[ W	183		
[ Pt	194		
[ Pt	195		
[ Tl	203		
[ Pb	206		
[ Pb	207		
> Sc	45	100.662	
[ Ti	47		
[ Sr	86		
[ Sr	88		
> In	115	99.370	
[ Sn	118		
[ Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRGXV

Sample Date/Time: Thursday, May 24, 2007 20:40:15

Autosampler Position: 79

Dataset File: D:\Elandata\Dataset\052407m1\JWRGXV.120

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	-0.011042	89.388		1.333	ug/L	3.000	
10 B	45.448715	2.055		1695.118	ug/L	90.668	
23 Na	4787.444746	3.037		22888641.082	ug/L	24909.622	
24 Mg	880.185379	2.558		2864001.656	ug/L	6273.773	
27 Al	-0.906706	4.923		11245.871	ug/L	15227.265	
39 K	90.266083	3.482		1347593.121	ug/L	707925.205	
44 Ca	1824.057313	0.998		477853.277	ug/L	48369.900	
> 45 Sc-1				475276.016	ug/L	467697.114	
51 V	1.771655	12.654		-2774.757	ug/L	-17188.401	
52 Cr	8.791984	1.651		104775.539	ug/L	43700.177	
55 Mn	0.106291	5.431		5115.634	ug/L	3939.583	
57 Fe	-8.075728	6.615		5147.219	ug/L	6563.304	
59 Co	0.005767	39.180		114.335	ug/L	70.668	
60 Ni	0.052080	17.155		292.006	ug/L	205.004	
65 Cu	0.005964	149.357		216.337	ug/L	201.670	
66 Zn	-0.549798	15.456		3013.015	ug/L	3569.482	
> 72 Ge-1				577852.693	ug/L	592936.498	
75 As	1.947863	10.906		2156.119	ug/L	-502.888	
82 Se	0.282845	62.257		-27.507	ug/L	-70.642	
97 Mo	0.208885	6.767		450.678	ug/L	69.001	
107 Ag	0.001826	71.271		124.002	ug/L	109.002	
111 Cd	0.001618	241.026		38.667	ug/L	35.667	
> 115 In-1				999085.633	ug/L	994304.053	
123 Sb	0.014266	31.925		302.027	ug/L	235.401	
135 Ba	0.147232	11.938		429.011	ug/L	183.670	
> 165 Ho-1				1286629.735	ug/L	1276105.159	
205 Tl	0.242073	31.172		6422.558	ug/L	1936.818	
208 Pb	-0.030827	8.468		2760.132	ug/L	3500.871	
238 U	0.425316	0.587		6854.046	ug/L	35.667	
> 45 Sc-2				475276.016	ug/L	467697.114	
53 Cr	-72.652444	10.106		275575.608	ug/L	319041.768	
54 Fe	-3.242493	185.539		41984.150	ug/L	42890.999	
61 Ni	0.174544	538.384		1098.720	ug/L	1069.051	
63 Cu	0.005912	201.534		349.008	ug/L	321.674	
67 Zn	-10.114208	15.390		19860.662	ug/L	21519.078	
> 72 Ge				577852.693	ug/L	592936.498	
77 Se	-42.382138	10.353		8538.901	ug/L	13366.987	
98 Mo	0.207127	5.696		1067.966	ug/L	95.062	
109 Ag	0.006947	22.051		176.003	ug/L	120.002	
> 115 In-2				999085.633	ug/L	994304.053	
114 Cd	0.002668	161.554		64.557	ug/L	53.748	
121 Sb	0.004427	124.978		357.341	ug/L	329.340	
137 Ba	0.164330	2.511		742.693	ug/L	281.339	
> 165 Ho-2				1286629.735	ug/L	1276105.159	
182 W	0.449051	5.897		3081.030	ug/L	457.679	
183 W	0.427550	4.718		1626.442	ug/L	253.338	
194 Pt	-0.002182	138.574		67.334	ug/L	76.668	
195 Pt	0.002384	53.301		59.667	ug/L	48.001	
203 Tl	0.252134	31.648		2744.301	ug/L	780.029	
206 Pb	-0.029068	27.497		707.358	ug/L	888.037	
207 Pb	-0.029671	8.056		590.685	ug/L	745.027	
> 45 Sc				475276.016	ug/L	467697.114	
47 Ti	-0.082099	24.188		604.019	ug/L	647.355	
86 Sr	71.717572	0.528		159963.345	ug/L	151.307	
88 Sr	70.230048	1.675		1344699.111	ug/L	1301.072	
> 115 In				999085.633	ug/L	994304.053	
118 Sn	0.015565	8.582		439.011	ug/L	357.341	

[ 120 Sn 0.013060 62.403 581.632 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
[ B	10		
[ Na	23		
[ Mg	24		
[ Al	27		
[ K	39		
[ Ca	44		
> Sc-1	45	101.620	
[ V	51		
[ Cr	52		
[ Mn	55		
[ Fe	57		
[ Co	59		
[ Ni	60		
[ Cu	65		
[ Zn	66		
> Ge-1	72	97.456	
[ As	75		
[ Se	82		
[ Mo	97		
[ Ag	107		
[ Cd	111		
> In-1	115	100.481	
[ Sb	123		
[ Ba	135		
> Ho-1	165	100.825	
[ Tl	205		
[ Pb	208		
[ U	238		
> Sc-2	45	101.620	
[ Cr	53		
[ Fe	54		
[ Ni	61		
[ Cu	63		
[ Zn	67		
> Ge	72	97.456	
[ Se	77		
[ Mo	98		
[ Ag	109		
> In-2	115	100.481	
[ Cd	114		
[ Sb	121		
[ Ba	137		
> Ho-2	165	100.825	
[ W	182		
[ W	183		
[ Pt	194		
[ Pt	195		
[ Ti	203		
[ Pb	206		
[ Pb	207		
> Sc	45	101.620	
[ Ti	47		
[ Sr	86		
[ Sr	88		
> In	115	100.481	
[ Sn	118		
[ Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRG3

Sample Date/Time: Thursday, May 24, 2007 20:46:21

Autosampler Position: 80

Dataset File: D:\Elandata\Dataset\052407m1\JWRG3.121

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	-0.004222	235.762		2.333		ug/L	3.000
10 B	196.373625	3.536		6807.690		ug/L	90.668
23 Na	24098.681509	0.188		111711055.229		ug/L	24909.622
24 Mg	4463.353435	0.546		14068190.907		ug/L	6273.773
27 Al	-0.396554	12.050		13220.247		ug/L	15227.265
39 K	504.362268	1.481		4104172.976		ug/L	707925.205
44 Ca	8955.884096	1.089		2090199.626		ug/L	48369.900
> 45 Sc-1				461190.885		ug/L	467697.114
51 V	4.799067	17.674		21624.805		ug/L	-17188.401
52 Cr	48.557024	3.349		366539.459		ug/L	43700.177
55 Mn	1.284961	3.391		16927.527		ug/L	3939.583
57 Fe	-20.203591	8.371		2774.550		ug/L	6563.304
59 Co	0.041458	3.490		367.008		ug/L	70.668
60 Ni	0.303266	4.606		675.356		ug/L	205.004
65 Cu	0.186984	14.236		547.349		ug/L	201.670
66 Zn	-0.521831	13.154		2954.335		ug/L	3569.482
> 72 Ge-1				574858.731		ug/L	592936.498
75 As	7.357038	6.417		9443.033		ug/L	-502.888
82 Se	0.485250	55.133		2.082		ug/L	-70.642
97 Mo	0.927152	1.164		1717.787		ug/L	69.001
107 Ag	0.002048	22.959		122.668		ug/L	109.002
111 Cd	-0.002490	26.391		30.667		ug/L	35.667
> 115 In-1				974268.837		ug/L	994304.053
123 Sb	0.034543	9.883		385.268		ug/L	235.401
135 Ba	0.802049	1.129		1509.428		ug/L	183.670
> 165 Ho-1				1284132.785		ug/L	1276105.159
205 Tl	0.098649	27.823		3763.206		ug/L	1936.818
208 Pb	-0.040303	7.981		2519.112		ug/L	3500.871
238 U	2.031108	0.921		32535.004		ug/L	35.667
> 45 Sc-2				461190.885		ug/L	467697.114
53 Cr	-3.692729	101.656		312186.122		ug/L	319041.768
54 Fe	3.307282	235.025		43839.075		ug/L	42890.999
61 Ni	2.076553	36.873		1200.396		ug/L	1069.051
63 Cu	0.209079	2.870		1082.385		ug/L	321.674
67 Zn	-4.244330	24.411		20401.094		ug/L	21519.078
> 72 Ge				574858.731		ug/L	592936.498
77 Se	-38.632004	12.075		8891.421		ug/L	13366.987
98 Mo	0.920503	2.241		4306.682		ug/L	95.062
109 Ag	0.004084	20.690		149.336		ug/L	120.002
> 115 In-2				974268.837		ug/L	994304.053
114 Cd	0.005440	12.356		73.518		ug/L	53.748
121 Sb	0.018217	26.428		428.344		ug/L	329.340
137 Ba	0.850066	4.367		2652.606		ug/L	281.339
> 165 Ho-2				1284132.785		ug/L	1276105.159
182 W	1.460576	2.302		8961.901		ug/L	457.679
183 W	1.429375	2.029		4828.531		ug/L	253.338
194 Pt	0.000883	421.202		80.334		ug/L	76.668
195 Pt	0.001993	34.727		57.667		ug/L	48.001
203 Tl	0.102568	28.616		1578.104		ug/L	780.029
206 Pb	-0.039121	18.628		641.021		ug/L	888.037
207 Pb	-0.036536	22.212		552.683		ug/L	745.027
> 45 Sc				461190.885		ug/L	467697.114
47 Ti	0.325917	28.311		845.367		ug/L	647.355
86 Sr	350.451253	1.275		757857.520		ug/L	151.307
88 Sr	344.241832	1.319		6390505.028		ug/L	1301.072
> 115 In				974268.837		ug/L	994304.053
118 Sn	0.005626	69.793		378.342		ug/L	357.341

[ 120 Sn 0.003873 164.553 504.968 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	46	98.609	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
Zn	66		
> Ge-1	72	96.951	
As	75		
Se	82		
Mo	97		
Ag	107		
Cd	111		
> In-1	115	97.985	
Sb	123		
Ba	135		
> Ho-1	165	100.629	
Tl	205		
Pb	206		
U	238		
> Sc-2	45	98.609	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
Zn	67		
> Ge	72	96.951	
Se	77		
Mo	98		
Ag	109		
> In-2	115	97.985	
Cd	114		
Sb	121		
Ba	137		
> Ho-2	165	100.629	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
Pb	207		
> Sc	45	98.609	
Tl	47		
Sr	86		
Sr	88		
> In	115	97.985	
Sn	118		
Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRG3S

Sample Date/Time: Thursday, May 24, 2007 20:52:28

Autosampler Position: 81

Dataset File: D:\Elandata\Dataset\052407m1\JWRG3S.122

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	1.236315		8.037		197.337	ug/L	3.000
10 B	240.326237		1.396		8664.380	ug/L	90.668
23 Na	24163.770897		2.408	116723848.037		ug/L	24909.622
24 Mg	5371.366670		1.920	17641742.760		ug/L	6273.773
27 Al	50.586170		1.793	254142.285		ug/L	15227.265
39 K	1659.580194		2.245	12408314.388		ug/L	707925.205
44 Ca	9654.846310		0.842	2344524.799		ug/L	48369.900
> 45 Sc-1				480644.549		ug/L	467697.114
51 V	16.688865		1.648	122332.798		ug/L	-17188.401
52 Cr	51.353192		1.508	401494.525		ug/L	43700.177
55 Mn	13.035490		1.538	141983.966		ug/L	3939.583
57 Fe	1.443665	118.521		7019.370		ug/L	6563.304
59 Co	11.796146		1.518	88208.052		ug/L	70.668
60 Ni	11.531688		1.126	18964.770		ug/L	205.004
65 Cu	5.911801		1.587	11879.890		ug/L	201.670
66 Zn	10.834620		1.812	15900.670		ug/L	3569.482
> 72 Ge-1				582499.923		ug/L	592936.498
75 As	58.612799		2.483	79682.024		ug/L	-502.888
82 Se	44.929084		2.259	6558.418		ug/L	-70.642
97 Mo	25.149105		0.887	46222.790		ug/L	69.001
107 Ag	1.372423		0.918	11067.730		ug/L	109.002
111 Cd	1.292036		2.586	2327.213		ug/L	35.667
> 115 In-1				1004555.729		ug/L	994304.053
123 Sb	12.394302		0.293	57426.747		ug/L	235.401
135 Ba	47.558723		1.641	79446.770		ug/L	183.670
> 165 Ho-1				1295980.925		ug/L	1276105.159
205 Tl	47.469217		2.463	882805.701		ug/L	1936.818
208 Pb	12.428650		1.246	315915.706		ug/L	3500.871
238 U	52.011872		1.134	839837.074		ug/L	35.667
> 45 Sc-2				480644.549		ug/L	467697.114
53 Cr	-13.056310	43.139		319020.297		ug/L	319041.768
54 Fe	26.062876	26.986		57051.378		ug/L	42890.999
61 Ni	14.198211	6.886		2143.182		ug/L	1068.051
63 Cu	5.956175	0.572		23050.145		ug/L	321.674
67 Zn	3.806426	33.235		22877.199		ug/L	21519.078
> 72 Ge				582499.923		ug/L	592936.498
77 Se	14.893228	6.610		14719.599		ug/L	13366.987
98 Mo	25.254554	0.737		119290.687		ug/L	95.062
109 Ag	1.883718	1.759		15221.925		ug/L	120.002
> 115 In-2				1004555.729		ug/L	994304.053
114 Cd	1.227521	1.363		4904.487		ug/L	53.748
121 Sb	12.410599	1.218		74524.632		ug/L	329.340
137 Ba	48.706445	1.305		137295.968		ug/L	281.339
> 165 Ho-2				1295980.925		ug/L	1276105.159
182 W	50.764662	1.166		298639.686		ug/L	457.679
183 W	50.794763	0.402		164302.529		ug/L	253.338
194 Pt	49.270346	1.227		228264.952		ug/L	76.668
195 Pt	49.886791	2.201		236910.432		ug/L	48.001
203 Tl	48.033506	2.754		375629.020		ug/L	780.029
206 Pb	12.363230	0.895		81408.109		ug/L	888.037
207 Pb	12.476926	1.855		68683.069		ug/L	745.027
> 45 Sc				480644.549		ug/L	467697.114
47 Ti	48.439602	1.972		32772.546		ug/L	647.355
86 Sr	354.854923	1.406		799777.418		ug/L	151.307
88 Sr	350.455597	1.989		6780317.420		ug/L	1301.072
> 115 In				1004555.729		ug/L	994304.053
118 Sn	49.256803	0.698		254695.052		ug/L	357.341



[ 120 Sn 49.699553 0.796 346554.112 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
[ B	10		
[ Na	23		
[ Mg	24		
[ Al	27		
[ K	39		
[ Ca	44		
> Sc-1	45	102.768	
[ V	51		
[ Cr	52		
[ Mn	55		
[ Fe	57		
[ Co	59		
[ Ni	60		
[ Cu	65		
[ Zn	66		
> Ge-1	72	98.240	
[ As	75		
[ Se	82		
[ Mo	97		
[ Ag	107		
[ Cd	111		
> In-1	115	101.031	
[ Sb	123		
[ Ba	135		
> Ho-1	165	101.558	
[ Tl	205		
[ Pb	208		
[ U	238		
> Sc-2	45	102.768	
[ Cr	53		
[ Fe	54		
[ Ni	61		
[ Cu	63		
[ Zn	67		
> Ge	72	98.240	
[ Se	77		
[ Mo	98		
[ Ag	109		
> In-2	115	101.031	
[ Cd	114		
[ Sb	121		
[ Ba	137		
> Ho-2	165	101.558	
[ W	182		
[ W	183		
[ Pt	194		
[ Pt	195		
[ Tl	203		
[ Pb	206		
[ Pb	207		
> Sc	45	102.768	
[ Tl	47		
[ Sr	86		
[ Sr	88		
> In	115	101.031	
[ Sn	118		
[ Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRG3D

Sample Date/Time: Thursday, May 24, 2007 20:58:34

Autosampler Position: 82

Dataset File: D:\Elandata\Dataset\052407m1\JWRG3D.123

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
9 Be	1.288205	11.611	202.003	ug/L	3.000
10 B	243.968451	2.802	8642.368	ug/L	90.668
23 Na	24344.339861	1.916	115561865.913	ug/L	24909.622
24 Mg	5449.160365	1.614	17587073.424	ug/L	6273.773
27 Al	51.110668	1.562	252159.634	ug/L	15227.265
39 K	1680.912882	1.047	12341610.200	ug/L	707925.205
44 Ca	9769.198651	1.521	2330680.067	ug/L	48369.900
> 45 Sc-1			472320.998	ug/L	467697.114
51 V	16.560879	2.505	119144.806	ug/L	-17188.401
52 Cr	51.265569	1.868	393935.451	ug/L	43700.177
55 Mn	13.311652	1.956	142389.643	ug/L	3939.583
57 Fe	1.088729	106.980	8832.089	ug/L	6563.304
59 Co	11.934531	0.409	87699.579	ug/L	70.668
60 Ni	11.637966	2.001	18804.891	ug/L	205.004
65 Cu	5.798570	2.011	11262.886	ug/L	201.670
66 Zn	10.631175	0.062	15400.451	ug/L	3569.482
> 72 Ge-1			578566.653	ug/L	592936.498
75 As	58.094777	1.987	78426.281	ug/L	-502.888
82 Se	44.044648	3.843	6382.880	ug/L	-70.642
97 Mo	25.318968	1.161	46410.735	ug/L	69.001
107 Ag	1.389530	2.444	11173.147	ug/L	109.002
111 Cd	1.297755	3.144	2330.547	ug/L	35.667
> 115 In-1			1002032.880	ug/L	994304.053
123 Sb	12.193591	0.456	56354.787	ug/L	235.401
135 Ba	46.534415	0.497	78387.589	ug/L	183.670
> 165 Ho-1			1306666.105	ug/L	1276105.159
205 Tl	46.306967	2.198	868421.028	ug/L	1936.818
208 Pb	12.061671	1.223	309234.793	ug/L	3500.871
238 U	51.329291	0.728	835721.932	ug/L	35.667
> 45 Sc-2			472320.998	ug/L	467697.114
53 Cr	-7.188620	100.506	317391.338	ug/L	319041.768
54 Fe	28.764848	20.948	57383.889	ug/L	42890.999
61 Ni	12.485791	1.779	1982.157	ug/L	1069.051
63 Cu	6.010278	2.075	22852.160	ug/L	321.674
67 Zn	3.858189	53.217	22490.249	ug/L	21519.078
> 72 Ge			578566.653	ug/L	592936.498
77 Se	18.343926	3.746	14984.862	ug/L	13366.987
98 Mo	25.723041	1.737	121169.511	ug/L	95.062
109 Ag	1.867134	2.799	15047.406	ug/L	120.002
> 115 In-2			1002032.880	ug/L	994304.053
114 Cd	1.237761	0.935	4932.083	ug/L	53.748
121 Sb	12.459282	2.154	74608.733	ug/L	329.340
137 Ba	47.861618	0.891	136046.139	ug/L	281.339
> 165 Ho-2			1306666.105	ug/L	1276105.159
182 W	50.769681	2.135	301138.630	ug/L	457.679
183 W	50.632669	1.221	165121.842	ug/L	253.338
194 Pt	48.985410	1.084	228821.000	ug/L	76.668
195 Pt	49.004219	1.236	234669.838	ug/L	48.001
203 Tl	47.068362	3.414	371150.535	ug/L	780.029
206 Pb	11.926933	1.708	79214.488	ug/L	888.037
207 Pb	12.129088	1.236	67348.063	ug/L	745.027
> 45 Sc			472320.998	ug/L	467697.114
47 Ti	48.065791	0.203	31964.040	ug/L	647.355
86 Sr	363.204666	1.482	804406.117	ug/L	151.307
88 Sr	356.448755	0.646	6777247.765	ug/L	1301.072
> 115 In			1002032.880	ug/L	994304.053
118 Sn	49.348335	2.443	254437.393	ug/L	357.341

[ 120 Sn 49.831686 2.774 346459.576 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
[ B	10		
[ Na	23		
[ Mg	24		
[ Al	27		
[ K	39		
[ Ca	44		
> Sc-1	45	100.989	
[ V	51		
[ Cr	52		
[ Mn	55		
[ Fe	57		
[ Co	59		
[ Ni	60		
[ Cu	65		
[ Zn	66		
> Ge-1	72	97.576	
[ As	75		
[ Se	82		
[ Mo	97		
[ Ag	107		
[ Cd	111		
> In-1	115	100.777	
[ Sb	123		
[ Ba	135		
> Ho-1	165	102.395	
[ Tl	205		
[ Pb	208		
[ U	238		
> Sc-2	45	100.889	
[ Cr	53		
[ Fe	54		
[ Ni	61		
[ Cu	63		
[ Zn	67		
> Ge	72	97.578	
[ Se	77		
[ Mo	98		
[ Ag	109		
> In-2	115	100.777	
[ Cd	114		
[ Sb	121		
[ Ba	137		
> Ho-2	165	102.395	
[ W	182		
[ W	183		
[ Pt	194		
[ Pt	195		
[ Tl	203		
[ Pb	206		
[ Pb	207		
> Sc	45	100.989	
[ Tl	47		
[ Sr	88		
[ Sr	88		
> In	115	100.777	
[ Sn	118		
[ Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRG5

Sample Date/Time: Thursday, May 24, 2007 21:04:42

Autosampler Position: 83

Dataset File: D:\Elandata\Dataset\052407m1\JWRG5.124

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.001997	814.351		3.333	ug/L	3.000	
10 B	201.405359	1.741		7129.517	ug/L	90.668	
23 Na	23956.430850	0.705		113391934.093	ug/L	24909.622	
24 Mg	4386.297150	0.829		14116758.018	ug/L	6273.773	
27 Al	0.117262	24.684		15873.974	ug/L	15227.265	
39 K	498.818283	2.800		4139056.629	ug/L	707925.205	
44 Ca	8827.442532	1.317		2104518.875	ug/L	48369.900	
> 45 Sc-1				470918.580	ug/L	467697.114	
51 V	4.383457	12.237		18729.407	ug/L	-17188.401	
52 Cr	48.171568	1.736		371759.796	ug/L	43700.177	
55 Mn	1.194070	1.657		16346.178	ug/L	3939.583	
57 Fe	-22.224403	5.002		2458.588	ug/L	6563.304	
59 Co	0.041874	4.339		377.675	ug/L	70.668	
60 Ni	0.276293	1.559		646.688	ug/L	205.004	
65 Cu	0.159359	11.050		506.014	ug/L	201.670	
66 Zn	-0.396488	8.692		3155.380	ug/L	3569.482	
> 72 Ge-1				579247.539	ug/L	592936.498	
75 As	7.357713	0.697		9516.598	ug/L	-502.888	
82 Se	0.233052	59.088		-34.841	ug/L	-70.642	
97 Mo	0.950505	2.316		1775.795	ug/L	89.001	
107 Ag	0.002273	76.835		125.668	ug/L	109.002	
111 Cd	0.002594	291.940		39.667	ug/L	35.667	
> 115 In-1				983131.752	ug/L	994304.053	
123 Sb	0.032078	22.118		377.619	ug/L	235.401	
135 Ba	0.845155	2.758		1581.437	ug/L	183.670	
> 165 Ho-1				1284707.846	ug/L	1276105.159	
205 Tl	0.223389	45.282		6063.429	ug/L	1936.818	
208 Pb	-0.035790	3.251		2632.787	ug/L	3500.871	
238 U	2.046508	1.005		32795.265	ug/L	35.667	
> 45 Sc-2				470918.580	ug/L	467697.114	
53 Cr	0.861521	437.915		321806.120	ug/L	319041.768	
54 Fe	3.498046	189.085		44897.397	ug/L	42890.999	
61 Ni	2.086756	24.099		1226.732	ug/L	1069.051	
63 Cu	0.170125	1.419		959.709	ug/L	321.674	
67 Zn	-7.719125	11.275		20150.069	ug/L	21519.078	
> 72 Ge				579247.539	ug/L	592936.498	
77 Se	-22.802079	17.873		10640.400	ug/L	13366.987	
98 Mo	0.965646	0.997		4554.834	ug/L	95.062	
109 Ag	0.001419	125.317		129.669	ug/L	120.002	
> 115 In-2				983131.752	ug/L	994304.053	
114 Cd	0.001280	168.636		58.058	ug/L	53.748	
121 Sb	0.014305	1.769		409.343	ug/L	329.340	
137 Ba	0.845526	1.947		2641.271	ug/L	281.339	
> 165 Ho-2				1284707.846	ug/L	1276105.159	
182 W	1.526737	3.280		9351.155	ug/L	457.679	
183 W	1.525446	1.842		5138.642	ug/L	253.338	
194 Pt	0.001474	281.719		84.001	ug/L	76.668	
195 Pt	0.002981	59.538		62.334	ug/L	48.001	
203 Tl	0.225361	45.723		2530.598	ug/L	780.029	
206 Pb	-0.032431	10.174		684.690	ug/L	888.037	
207 Pb	-0.032434	8.813		575.017	ug/L	745.027	
> 45 Sc				470918.580	ug/L	467697.114	
47 Ti	0.247198	16.144		812.365	ug/L	647.355	
86 Sr	348.013811	1.085		768547.937	ug/L	151.307	
88 Sr	341.949815	1.538		6482613.897	ug/L	1301.072	
> 115 In				983131.752	ug/L	994304.053	
118 Sn	0.013196	51.940		420.344	ug/L	357.341	

[ 120 Sn 0.012050 24.308 565.412 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	100.689	
V	51		
Cr	52		
Mn	56		
Fe	57		
Co	59		
Ni	60		
Cu	65		
Zn	66		
> Ge-1	72	97.691	
As	75		
Se	82		
Mo	97		
Ag	107		
Cd	111		
> In-1	115	98.876	
Sb	123		
Ba	135		
> Ho-1	165	100.674	
Tl	205		
Pb	208		
U	238		
> Sc-2	45	100.689	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
Zn	67		
> Ge	72	97.691	
Se	77		
Mo	98		
Ag	109		
> In-2	115	98.876	
Cd	114		
Sb	121		
Ba	137		
> Ho-2	165	100.674	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
Pb	207		
> Sc	45	100.689	
Tl	47		
Sr	86		
Sr	88		
> In	115	98.876	
Sn	118		
Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6

Sample Date/Time: Thursday, May 24, 2007 21:10:50

Autosampler Position: 7

Dataset File: D:\Elandata\Dataset\052407m1\QC Std 6.125

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
9 Be	192.958852	2.074	28911.530	ug/L	3.000
10 B	200.463959	2.516	6907.406	ug/L	90.668
23 Na	1942.710189	3.388	8970361.200	ug/L	24909.622
24 Mg	997.754309	0.361	3129986.087	ug/L	6273.773
27 Al	1962.745547	2.092	8838068.123	ug/L	15227.265
39 K	1908.442958	1.163	13502848.987	ug/L	707925.205
44 Ca	1058.665237	0.283	287352.936	ug/L	48369.900
> 45 Sc-1			458320.745	ug/L	467697.114
51 V	177.064681	3.021	1399308.317	ug/L	-17188.401
52 Cr	188.870234	0.543	1293437.508	ug/L	43700.177
55 Mn	186.495418	1.042	1885507.231	ug/L	3939.583
57 Fe	2097.056144	0.564	387535.246	ug/L	6563.304
59 Co	188.237846	1.066	1341202.847	ug/L	70.668
60 Ni	183.689055	0.691	285060.155	ug/L	205.004
65 Cu	185.095639	1.699	342710.665	ug/L	201.670
66 Zn	188.058671	0.749	205963.824	ug/L	3569.482
> 72 Ge-1			559855.113	ug/L	592936.498
75 As	197.416047	0.945	259043.588	ug/L	-502.888
82 Se	195.186395	0.687	27604.744	ug/L	-70.642
97 Mo	189.862639	0.927	337985.859	ug/L	69.001
107 Ag	48.029983	1.762	371990.226	ug/L	109.002
111 Cd	194.151519	1.316	333916.010	ug/L	35.667
> 115 In-1			974288.567	ug/L	994304.053
123 Sb	190.481307	1.431	852565.620	ug/L	235.401
135 Ba	181.803249	1.183	298166.500	ug/L	183.670
> 165 Ho-1			1274487.831	ug/L	1276105.159
205 Tl	180.320389	0.609	3293139.479	ug/L	1938.818
208 Pb	187.809975	1.119	4645556.156	ug/L	3500.871
238 U	188.789282	0.617	2997953.072	ug/L	35.667
> 45 Sc-2			458320.745	ug/L	467697.114
53 Cr	150.628658	2.734	409853.761	ug/L	319041.768
54 Fe	2076.205530	0.330	1026539.110	ug/L	42890.999
61 Ni	188.830743	1.600	14291.955	ug/L	1069.051
63 Cu	184.858363	0.435	672702.205	ug/L	321.674
67 Zn	178.648557	2.563	55251.198	ug/L	21519.078
> 72 Ge			559855.113	ug/L	592936.498
77 Se	185.912249	1.903	31668.499	ug/L	13366.987
98 Mo	187.840897	0.914	859914.709	ug/L	95.062
109 Ag	47.278229	0.953	367720.040	ug/L	120.002
> 115 In-2			974288.567	ug/L	994304.053
114 Cd	196.013968	1.584	751171.046	ug/L	53.748
121 Sb	191.523256	0.892	1110826.650	ug/L	329.340
137 Ba	186.289926	0.660	515659.754	ug/L	281.339
> 165 Ho-2			1274487.831	ug/L	1276105.159
182 W	185.600018	1.440	1072544.626	ug/L	457.679
183 W	187.149618	0.860	594611.985	ug/L	253.338
194 Pt	188.881132	1.247	860348.084	ug/L	76.668
195 Pt	188.904424	1.551	882222.632	ug/L	48.001
203 Tl	181.508332	1.148	1393978.504	ug/L	780.029
206 Pb	193.314228	2.960	1238767.945	ug/L	888.037
207 Pb	189.308611	1.325	1014390.133	ug/L	745.027
> 45 Sc			458320.745	ug/L	467697.114
47 Ti	195.556717	1.393	124239.844	ug/L	647.355
86 Sr	192.141889	1.081	413026.468	ug/L	151.307
88 Sr	187.098823	0.686	3452499.632	ug/L	1301.072
> 115 In			974288.567	ug/L	994304.053
118 Sn	189.800326	1.496	950766.009	ug/L	357.341

[ 120 Sn 190.147260 0.960 1284483.763 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		98.479
[ B	10		100.232
[ Na	23		97.136
[ Mg	24		98.775
[ Al	27		98.137
[ K	39		95.422
[ Ca	44		105.867
> Sc-1	45	97.985	
[ V	51		88.532
[ Cr	52		94.435
[ Mn	55		93.248
[ Fe	57		104.853
[ Co	58		94.118
[ Ni	60		91.845
[ Cu	65		92.548
[ Zn	66		94.029
> Ge-1	72	94.421	
[ As	75		96.708
[ Se	82		97.593
[ Mo	97		94.931
[ Ag	107		96.060
[ Cd	111		97.076
> In-1	115	97.987	
[ Sb	123		95.241
[ Ba	135		90.902
> Ho-1	165	99.873	
[ Tl	205		90.180
[ Pb	208		93.905
[ U	238		94.399
> Sc-2	45	97.995	
[ Cr	53		75.314
[ Fe	54		103.810
[ Ni	61		94.415
[ Cu	63		92.428
[ Zn	67		89.324
> Ge	72	94.421	
[ Se	77		92.956
[ Mo	98		93.920
[ Ag	109		94.556
> In-2	115	97.987	
[ Cd	114		98.007
[ Sb	121		95.762
[ Ba	137		93.145
> Ho-2	165	99.873	
[ W	182		92.800
[ W	183		93.575
[ Pt	194		94.441
[ Pt	195		94.452
[ Tl	203		90.754
[ Pb	206		96.657
[ Pb	207		94.654
> Sc	45	97.995	
[ Ti	47		97.778
[ Sr	86		99.071
[ Sr	88		93.549
> In	115	97.987	
[ Sn	118		94.900
[ Sn	120		95.074

**QC Out Of Limits**

Analyte	Mass	Out of Limits Message
V	51	Q
Cr	53	Q
Zn	67	Q

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 7

Sample Date/Time: Thursday, May 24, 2007 21:17:27

Autosampler Position: 1

Dataset File: D:\Elandata\Dataset\052407m1\QC Std 7.126

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.013627	146.507		5.000		ug/L	3.000
10 B	5.960934	6.135		293.006		ug/L	90.668
23 Na	-0.083846	73.478		24138.953		ug/L	24909.622
24 Mg	-0.038472	32.839		6056.344		ug/L	6273.773
27 Al	-0.570639	18.918		12416.190		ug/L	15227.265
39 K	-3.377835	16.040		674270.931		ug/L	707925.205
44 Ca	-26.463361	1.621		41600.566		ug/L	48369.900
> 45 Sc-1				460520.337		ug/L	467697.114
51 V	0.829633	27.658		-10262.242		ug/L	-17188.401
52 Cr	-1.269917	1.869		34579.813		ug/L	43700.177
55 Mn	-0.144867	4.770		2410.561		ug/L	3939.583
57 Fe	-4.202663	18.143		5694.725		ug/L	6563.304
59 Co	0.005921	43.194		112.002		ug/L	70.668
60 Ni	0.000938	1046.064		203.337		ug/L	205.004
65 Cu	-0.013730	121.702		173.003		ug/L	201.670
66 Zn	-0.546450	11.445		2923.328		ug/L	3569.482
> 72 Ge-1				567800.844		ug/L	592936.498
75 As	0.804429	23.705		592.272		ug/L	-502.888
82 Se	0.163147	127.771		-44.240		ug/L	-70.642
97 Mo	0.085373	49.016		223.337		ug/L	69.001
107 Ag	0.007632	28.648		168.669		ug/L	109.002
111 Cd	0.016660	44.913		64.667		ug/L	35.667
> 115 In-1				990267.536		ug/L	994304.053
123 Sb	0.035610	23.669		396.502		ug/L	235.401
135 Ba	-0.004203	298.451		177.670		ug/L	183.670
> 165 Ho-1				1282748.038		ug/L	1276105.159
205 Tl	0.347436	34.908		8326.957		ug/L	1936.818
208 Pb	-0.021086	31.240		2994.487		ug/L	3500.871
238 U	0.008855	24.900		177.336		ug/L	35.667
> 45 Sc-2				460520.337		ug/L	467697.114
53 Cr	-80.187772	4.496		262144.966		ug/L	319041.768
54 Fe	-6.002210	71.011		39373.018		ug/L	42890.999
61 Ni	-0.016480	3347.033		1051.383		ug/L	1069.051
63 Cu	-0.012327	81.771		271.672		ug/L	321.674
67 Zn	-6.088804	4.570		20018.884		ug/L	21519.078
> 72 Ge				567800.844		ug/L	592936.498
77 Se	-45.678009	5.515		8055.374		ug/L	13366.987
98 Mo	0.087007	37.498		499.817		ug/L	95.062
109 Ag	0.022114	19.190		294.339		ug/L	120.002
> 115 In-2				990267.536		ug/L	994304.053
114 Cd	0.015030	22.107		112.104		ug/L	53.748
121 Sb	0.032847	24.411		521.681		ug/L	329.340
137 Ba	-0.004954	52.048		269.005		ug/L	281.339
> 165 Ho-2				1282748.038		ug/L	1276105.159
182 W	0.265937	23.126		2005.830		ug/L	457.679
183 W	0.263387	21.435		1096.387		ug/L	253.338
194 Pt	0.003986	62.786		95.335		ug/L	76.668
195 Pt	0.008601	41.164		88.668		ug/L	48.001
203 Tl	0.352607	35.524		3507.154		ug/L	780.029
206 Pb	-0.023472	19.268		741.360		ug/L	888.037
207 Pb	-0.017048	47.244		657.022		ug/L	745.027
> 45 Sc				460520.337		ug/L	467697.114
47 Ti	-0.117014	34.594		563.017		ug/L	647.355
86 Sr	0.007457	394.522		164.919		ug/L	151.307
88 Sr	-0.000753	224.676		1267.069		ug/L	1301.072
> 115 In				990267.536		ug/L	994304.053
118 Sn	0.039157	33.010		555.350		ug/L	357.341



[ 120 Sn 0.032736 9.949 711.391 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		1.363
[ B	10		588.093
[ Na	23		-0.084
[ Mg	24		-0.038
[ Al	27		-0.571
[ K	39		-3.378
[ Ca	44		-26.463
> Sc-1	45	98.486	
[ V	51		82.963
[ Cr	52		-126.992
[ Mn	55		-14.487
[ Fe	57		-4.203
[ Co	59		0.592
[ Ni	60		0.094
[ Cu	65		-1.373
[ Zn	66		-54.645
> Ge-1	72	96.761	
[ As	75		80.443
[ Se	82		16.315
[ Mo	97		8.537
[ Ag	107		0.763
[ Cd	111		1.666
> In-1	115	99.594	
[ Sb	123		3.581
[ Ba	135		-0.420
> Ho-1	165	100.521	
[ Tl	205		34.744
[ Pb	208		-2.109
[ U	238		0.885
> Sc-2	45	98.466	
[ Cr	53		-8018.777
[ Fe	54		-6.002
[ Ni	61		-1.648
[ Cu	63		-1.233
[ Zn	67		-608.880
> Ge	72	85.761	
[ Se	77		-4567.801
[ Mo	98		8.701
[ Ag	109		2.211
> In-2	115	99.594	
[ Cd	114		1.503
[ Sb	121		3.285
[ Ba	137		-0.495
> Ho-2	165	100.521	
[ W	182		26.594
[ W	183		26.339
[ Pt	194		0.399
[ Pt	195		0.860
[ Tl	203		35.261
[ Pb	206		-2.347
[ Pb	207		-1.705
> Sc	45	98.466	
[ Ti	47		-11.701
[ Sr	86		0.746
[ Sr	88		-0.075
> In	115	99.594	
[ Sn	118		3.916
[ Sn	120		3.274

**QC Out Of Limits**

Analyte	Mass	Out of Limits	Message
B	10	Q	
Cr	52	Q	
Cr	53	Q	
Zn	67	Q	
Se	77	Q	

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRG7

Sample Date/Time: Thursday, May 24, 2007 21:24:04

Autosampler Position: 84

Dataset File: D:\Elandata\Dataset\052407m1\JWRG7.127

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.010740	92.846		4.667	ug/L	3.000	
10 B	22.621864	1.035		880.703	ug/L	90.868	
23 Na	17712.977737	3.297		83741654.531	ug/L	24909.622	
24 Mg	8631.160688	2.610		27737375.481	ug/L	6273.773	
27 Al	-0.718113	7.696		11999.826	ug/L	15227.265	
39 K	198.511877	7.459		2079241.594	ug/L	707925.205	
44 Ca	7618.634646	1.417		1820654.728	ug/L	48369.900	
> 45 Sc-1				470328.908	ug/L	467697.114	
51 V	0.357616	152.622		-14347.342	ug/L	-17188.401	
52 Cr	-0.964560	6.340		37391.916	ug/L	43700.177	
55 Mn	14.736794	0.462		156553.043	ug/L	3939.583	
57 Fe	-13.955927	8.350		3997.587	ug/L	6563.304	
59 Co	0.021281	4.978		226.671	ug/L	70.668	
60 Ni	0.188841	10.348		506.681	ug/L	205.004	
65 Cu	0.042939	15.604		284.339	ug/L	201.670	
66 Zn	-0.592139	5.254		2935.331	ug/L	3569.482	
> 72 Ge-1				575762.148	ug/L	592936.498	
75 As	2.714144	11.362		3181.557	ug/L	-502.888	
82 Se	0.120495	199.070		-50.954	ug/L	-70.642	
97 Mo	0.135539	3.262		310.673	ug/L	69.001	
107 Ag	0.001140	93.195		116.335	ug/L	109.002	
111 Cd	0.004143	64.136		42.334	ug/L	35.667	
> 115 In-1				980061.787	ug/L	994304.053	
123 Sb	0.023420	22.399		337.502	ug/L	235.401	
135 Ba	0.442964	4.025		918.705	ug/L	183.670	
> 165 Ho-1				1287263.460	ug/L	1276105.159	
205 Tl	0.110207	27.374		3988.272	ug/L	1936.818	
208 Pb	-0.034061	2.370		2681.125	ug/L	3500.871	
238 U	0.478366	2.364		7707.823	ug/L	35.667	
> 45 Sc-2				470328.908	ug/L	467697.114	
53 Cr	-67.523249	10.744		276121.549	ug/L	319041.768	
54 Fe	4.901868	159.836		45518.845	ug/L	42890.999	
61 Ni	2.389640	6.153		1247.067	ug/L	1069.051	
63 Cu	0.110620	9.397		736.360	ug/L	321.874	
67 Zn	-9.048186	8.206		19864.333	ug/L	21519.078	
> 72 Ge				575762.148	ug/L	592936.498	
77 Se	-31.818049	10.064		9649.230	ug/L	13366.987	
98 Mo	0.151832	3.488		792.794	ug/L	95.062	
109 Ag	0.011302	12.882		206.670	ug/L	120.002	
> 115 In-2				980061.787	ug/L	994304.053	
114 Cd	0.004584	72.208		70.640	ug/L	53.748	
121 Sb	0.010977	19.988		388.676	ug/L	329.340	
137 Ba	0.447758	2.416		1535.098	ug/L	281.339	
> 165 Ho-2				1287263.460	ug/L	1276105.159	
182 W	0.117998	17.129		1151.058	ug/L	457.679	
183 W	0.111055	7.737		612.019	ug/L	253.338	
194 Pt	-0.003201	51.600		62.667	ug/L	76.668	
195 Pt	0.000128	809.874		49.001	ug/L	48.001	
203 Tl	0.116888	29.334		1695.119	ug/L	780.029	
206 Pb	-0.030065	11.722		701.358	ug/L	888.037	
207 Pb	-0.033018	20.754		573.017	ug/L	745.027	
> 45 Sc				470328.908	ug/L	467697.114	
47 Ti	-0.091928	33.010		591.351	ug/L	647.355	
86 Sr	239.967929	1.455		529323.747	ug/L	151.307	
88 Sr	234.169547	0.919		4434163.467	ug/L	1301.072	
> 115 In				980061.787	ug/L	994304.053	
118 Sn	0.019082	14.083		448.345	ug/L	357.341	

[ 120 Sn 0.018708 31.693 608.806 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
[ B	10		
[ Na	23		
[ Mg	24		
[ Al	27		
[ K	39		
[ Ca	44		
> Sc-1	45	100.563	
[ V	51		
[ Cr	52		
[ Mn	55		
[ Fe	57		
[ Co	59		
[ Ni	60		
[ Cu	65		
[ Zn	66		
> Ge-1	72	97.104	
[ As	75		
[ Se	82		
[ Mo	97		
[ Ag	107		
[ Cd	111		
> In-1	115	98.568	
[ Sb	123		
[ Ba	135		
> Ho-1	165	100.874	
[ Tl	206		
[ Pb	208		
[ U	238		
> Sc-2	45	100.563	
[ Cr	53		
[ Fe	54		
[ Ni	61		
[ Cu	63		
[ Zn	67		
> Ge	72	97.104	
[ Se	77		
[ Mo	98		
[ Ag	109		
> In-2	115	98.568	
[ Cd	114		
[ Sb	121		
[ Ba	137		
> Ho-2	165	100.874	
[ W	182		
[ W	183		
[ Pt	194		
[ Pt	195		
[ Tl	203		
[ Pb	206		
[ Pb	207		
> Sc	45	100.563	
[ Tl	47		
[ Sr	86		
[ Sr	88		
> In	115	98.568	
[ Sn	118		
[ Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

.

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRG8

Sample Date/Time: Thursday, May 24, 2007 21:30:12

Autosampler Position: 85

Dataset File: D:\Elandata\Dataset\052407m1\JWRG8.128

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.003940	246.945			3.667	ug/L	3.000
10 B	20.732742	3.282			823.365	ug/L	90.668
23 Na	17809.058712	2.301			85085394.919	ug/L	24909.622
24 Mg	8611.381211	2.711			27964945.582	ug/L	6273.773
27 Al	-1.082359	5.376			10427.910	ug/L	15227.265
39 K	201.685150	2.871			2123287.283	ug/L	707925.205
44 Ca	7553.764130	1.098			1824692.726	ug/L	48369.900
> 45 Sc-1					475319.301	ug/L	467697.114
51 V	0.270377	119.426			-15218.058	ug/L	-17188.401
52 Cr	-0.872276	8.875			38419.980	ug/L	43700.177
55 Mn	14.750442	0.804			158351.370	ug/L	3939.583
57 Fe	-11.126307	11.935			4573.192	ug/L	6563.304
59 Co	0.021769	1.447			232.671	ug/L	70.668
60 Ni	0.186774	4.793			508.681	ug/L	205.004
65 Cu	0.040338	19.587			282.339	ug/L	201.670
66 Zn	-0.718721	8.189			2824.974	ug/L	3569.482
> 72 Ge-1					576346.820	ug/L	592936.498
75 As	2.283468	18.986			2606.659	ug/L	-502.888
82 Se	0.130841	199.640			-49.726	ug/L	-70.642
97 Mo	0.139047	10.430			319.673	ug/L	69.001
107 Ag	0.000895	50.216			115.335	ug/L	109.002
111 Cd	-0.006177	32.674			24.667	ug/L	35.667
> 115 In-1					987925.577	ug/L	994304.053
123 Sb	0.018089	10.885			315.931	ug/L	235.401
135 Ba	0.426079	6.834			889.370	ug/L	183.670
> 165 Ho-1					1285562.449	ug/L	1276105.159
205 Tl	0.062988	25.378			3111.706	ug/L	1936.818
208 Pb	-0.037497	6.570			2592.119	ug/L	3500.871
238 U	0.453378	1.988			7298.271	ug/L	35.667
> 45 Sc-2					475319.301	ug/L	467697.114
53 Cr	-54.634884	14.003			287658.084	ug/L	319041.768
54 Fe	4.025218	184.532			45574.089	ug/L	42890.999
61 Ni	3.167633	18.463			1317.074	ug/L	1069.051
63 Cu	0.115968	3.067			764.361	ug/L	321.674
72 Zn	-9.657627	18.107			19952.791	ug/L	21519.078
> 77 Ge					576346.820	ug/L	592936.498
77 Se	-25.829586	11.425			10267.181	ug/L	13366.987
98 Mo	0.133852	2.696			715.643	ug/L	95.062
109 Ag	0.006254	40.921			168.669	ug/L	120.002
> 115 In-2					987925.577	ug/L	994304.053
114 Cd	0.003481	57.468			66.826	ug/L	53.748
121 Sb	0.003669	95.982			348.674	ug/L	329.340
137 Ba	0.437408	1.669			1504.094	ug/L	281.339
> 165 Ho-2					1285562.449	ug/L	1276105.159
182 W	0.091483	14.475			994.378	ug/L	457.679
183 W	0.077829	19.939			504.681	ug/L	253.338
194 Pt	-0.002809	30.523			64.334	ug/L	76.668
195 Pt	-0.000647	224.819			45.334	ug/L	48.001
203 Tl	0.067046	29.359			1305.407	ug/L	780.029
206 Pb	-0.037917	2.744			649.688	ug/L	888.037
207 Pb	-0.036830	8.658			551.683	ug/L	745.027
> 45 Sc					475319.301	ug/L	467697.114
47 Ti	-0.128519	15.278			573.684	ug/L	647.355
86 Sr	237.686100	1.499			529816.198	ug/L	151.307
88 Sr	233.029886	1.600			4459221.082	ug/L	1301.072
> 115 In					987925.577	ug/L	994304.053
118 Sn	-0.002548	146.482			342.008	ug/L	357.341

[ 120 Sn -0.001934 46.236 472.213 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	101.630	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
Zn	66		
> Ge-1	72	97.202	
As	75		
Se	82		
Mo	97		
Ag	107		
Cd	111		
> In-1	115	99.358	
Sb	123		
Ba	135		
> Ho-1	165	100.741	
Tl	205		
Pb	208		
U	238		
> Sc-2	45	101.630	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
Zn	67		
> Ge	72	97.202	
Se	77		
Mo	98		
Ag	109		
> In-2	115	99.358	
Cd	114		
Sb	121		
Ba	137		
> Ho-2	165	100.741	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
Pb	207		
> Sc	45	101.630	
Ti	47		
Sr	86		
Sr	88		
> In	115	99.358	
Sn	118		
Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRHC

Sample Date/Time: Thursday, May 24, 2007 21:36:17

Autosampler Position: 86

Dataset File: D:\Elandata\Dataset\052407m1\JWRHC.129

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	-0.006655	167.410		2.000	ug/L	3.000
10 B	22.189413	6.994		864.702	ug/L	90.668
23 Na	18564.237098	4.762	87686400.780		ug/L	24909.622
24 Mg	9054.147548	3.211	29085852.891		ug/L	6273.773
27 Al	-0.723297	4.176		11964.461	ug/L	15227.265
39 K	210.751057	2.760		2161392.634	ug/L	707925.205
44 Ca	7816.708214	1.275		1864967.755	ug/L	48369.900
> 45 Sc-1				469899.003	ug/L	467697.114
51 V	0.066217	447.441		-16729.460	ug/L	-17188.401
52 Cr	-0.807890	7.010		38419.645	ug/L	43700.177
55 Mn	15.347789	1.624		162723.575	ug/L	3939.583
57 Fe	-9.986768	5.248		4733.024	ug/L	6563.304
59 Co	0.018430	14.251		205.870	ug/L	70.668
60 Ni	0.211413	7.450		542.016	ug/L	205.004
65 Cu	0.041482	27.051		281.339	ug/L	201.670
66 Zn	-0.767615	2.937		2738.957	ug/L	3569.482
> 72 Ge-1				577503.965	ug/L	592936.498
75 As	2.607823	11.126		3044.098	ug/L	-502.888
82 Se	-0.287097	70.930		-110.915	ug/L	-70.842
97 Mo	0.112813	8.008		268.005	ug/L	69.001
107 Ag	0.000827	74.891		113.002	ug/L	109.002
111 Cd	0.000833	576.425		36.334	ug/L	35.667
> 115 In-1				972530.012	ug/L	994304.053
123 Sb	0.018746	12.291		314.027	ug/L	235.401
135 Ba	0.442634	2.385		909.038	ug/L	183.670
> 165 Ho-1				1274484.308	ug/L	1276105.159
205 Tl	0.038119	46.292		2631.938	ug/L	1936.818
208 Pb	-0.028301	10.285		2796.468	ug/L	3500.871
238 U	0.464086	1.364		7404.659	ug/L	35.667
> 45 Sc-2				469899.003	ug/L	467697.114
53 Cr	-29.174903	14.364		301228.373	ug/L	319041.768
54 Fe	3.947918	84.598		45019.388	ug/L	42890.999
61 Ni	3.310265	14.108		1312.073	ug/L	1069.051
63 Cu	0.117056	4.714		759.694	ug/L	321.674
67 Zn	-7.149015	11.202		20217.832	ug/L	21519.078
> 72 Ge				577503.965	ug/L	592936.498
77 Se	-18.786147	12.075		11033.847	ug/L	13366.987
98 Mo	0.119660	3.998		639.859	ug/L	95.062
109 Ag	0.002910	33.500		140.002	ug/L	120.002
> 115 In-2				972530.012	ug/L	994304.053
114 Cd	0.001013	156.603		56.479	ug/L	53.748
121 Sb	0.001142	194.394		328.674	ug/L	329.340
137 Ba	0.455912	5.170		1542.099	ug/L	281.339
> 165 Ho-2				1274484.308	ug/L	1276105.159
182 W	0.053394	26.053		766.028	ug/L	457.679
183 W	0.046468	17.100		400.676	ug/L	253.338
194 Pt	-0.000135	1167.320		76.001	ug/L	76.668
195 Pt	-0.000267	467.696		46.667	ug/L	48.001
203 Tl	0.040226	56.504		1088.720	ug/L	780.029
206 Pb	-0.026868	23.394		714.692	ug/L	888.037
207 Pb	-0.026083	9.418		604.352	ug/L	745.027
> 45 Sc				469899.003	ug/L	467697.114
47 Ti	-0.085301	40.725		595.018	ug/L	647.355
86 Sr	244.816555	1.819		539470.326	ug/L	151.307
88 Sr	239.283670	1.775		4526416.677	ug/L	1301.072
> 115 In				972530.012	ug/L	994304.053
118 Sn	-0.006385	45.691		317.673	ug/L	357.341

[ 120 Sn -0.006378 17.258 434.959 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
[ B	10		
[ Na	23		
[ Mg	24		
[ Al	27		
[ K	39		
[ Ca	44		
> Sc-1	45	100.471	
[ V	51		
[ Cr	52		
[ Mn	55		
[ Fe	57		
[ Co	59		
[ Ni	60		
[ Cu	65		
[ Zn	66		
> Ge-1	72	97.397	
[ As	75		
[ Se	82		
[ Mo	97		
[ Ag	107		
[ Cd	111		
> In-1	115	97.810	
[ Sb	123		
[ Ba	135		
> Ho-1	165	99.873	
[ Tl	205		
[ Pb	208		
[ U	238		
> Sc-2	45	100.471	
[ Cr	53		
[ Fe	54		
[ Ni	61		
[ Cu	63		
[ Zn	67		
> Ge	72	97.397	
[ Se	77		
[ Mo	98		
[ Ag	108		
> In-2	115	97.810	
[ Cd	114		
[ Sb	121		
[ Ba	137		
> Ho-2	165	99.873	
[ W	182		
[ W	183		
[ Pt	194		
[ Pt	195		
[ Tl	203		
[ Pb	206		
[ Pb	207		
> Sc	45	100.471	
[ Tl	47		
[ Sr	86		
[ Sr	88		
> In	115	97.810	
[ Sn	118		
[ Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRHD

Sample Date/Time: Thursday, May 24, 2007 21:42:18

Autosampler Position: 87

Dataset File: D:\Elandata\Dataset\052407m1\JWRHD.130

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.004527	166.110			3.667	ug/L	3.000
10 B	210.310057	1.502			7334.623	ug/L	90.668
23 Na	17222.818646	1.591		80360065.130		ug/L	24909.622
24 Mg	8010.790747	1.237		25407420.741		ug/L	6273.773
27 Al	1.848294	2.018		23528.930		ug/L	15227.265
39 K	490.339760	1.559		4035908.017		ug/L	707925.205
44 Ca	12451.911279	0.776		2906384.852		ug/L	48369.900
> 45 Sc-1				464191.479		ug/L	467697.114
51 V	-1.291421	31.412		-27518.747		ug/L	-17188.401
52 Cr	94.005858	1.069		673850.891		ug/L	43700.177
55 Mn	0.333266	2.414		7315.613		ug/L	3939.583
57 Fe	-24.604953	3.258		1984.640		ug/L	6563.304
59 Co	0.029634	16.811		284.006		ug/L	70.668
60 Ni	0.369238	4.086		783.363		ug/L	205.004
65 Cu	0.132253	12.913		448.012		ug/L	201.670
66 Zn	-0.351728	9.429		3159.048		ug/L	3569.482
> 72 Ge-1				572494.704		ug/L	592936.498
75 As	2.065645	3.823		2290.977		ug/L	-502.888
82 Se	0.100685	332.638		-53.516		ug/L	-70.642
97 Mo	0.399633	3.216		780.696		ug/L	69.001
107 Ag	0.009174	62.805		178.336		ug/L	109.002
111 Cd	-0.000996	308.808		33.334		ug/L	35.667
> 115 In-1				976451.742		ug/L	994304.053
123 Sb	0.022729	35.304		333.222		ug/L	235.401
135 Ba	0.359146	4.593		768.028		ug/L	183.670
> 165 Ho-1				1268088.238		ug/L	1276105.159
205 Tl	0.018259	82.983		2256.203		ug/L	1936.818
208 Pb	-0.037483	6.067		2556.782		ug/L	3500.871
238 U	2.088222	0.750		33029.139		ug/L	35.667
> 45 Sc-2				464191.479		ug/L	467697.114
53 Cr	87.165288	3.375		373612.198		ug/L	319041.768
54 Fe	2.743708	135.075		43889.833		ug/L	42890.999
61 Ni	3.774630	9.721		1329.075		ug/L	1069.051
63 Cu	0.115567	3.787		745.027		ug/L	321.674
67 Zn	-6.957547	14.975		20009.537		ug/L	21519.078
> 72 Ge				572494.704		ug/L	592936.498
77 Se	-15.304911	17.062		11303.292		ug/L	13366.987
98 Mo	0.409383	0.943		1971.475		ug/L	95.062
109 Ag	0.008491	12.610		184.003		ug/L	120.002
> 115 In-2				976451.742		ug/L	994304.053
114 Cd	0.001536	133.890		58.696		ug/L	53.748
121 Sb	0.002447	45.985		337.674		ug/L	329.340
137 Ba	0.376763	5.611		1317.074		ug/L	281.339
> 165 Ho-2				1268088.238		ug/L	1276105.159
182 W	0.176270	6.211		1467.423		ug/L	457.679
183 W	0.175483	8.500		806.364		ug/L	253.338
194 Pt	-0.002769	34.259		83.667		ug/L	76.668
195 Pt	-0.000661	161.861		44.667		ug/L	48.001
203 Tl	0.019430	67.038		923.373		ug/L	780.029
206 Pb	-0.030944	19.603		685.023		ug/L	888.037
207 Pb	-0.040112	5.073		526.682		ug/L	745.027
> 45 Sc				464191.479		ug/L	467697.114
47 Ti	0.026133	175.748		659.355		ug/L	647.355
86 Sr	299.531146	1.437		652022.322		ug/L	151.307
88 Sr	294.230326	1.369		5498029.560		ug/L	1301.072
> 115 In				976451.742		ug/L	994304.053
118 Sn	-0.005729	154.299		322.007		ug/L	357.341



120 Sn -0.006778 63.212 433.874 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
[ B	10		
[ Na	23		
[ Mg	24		
[ Al	27		
[ K	39		
[ Ca	44		
> Sc-1	45	99.250	
[ V	51		
[ Cr	52		
[ Mn	55		
[ Fe	57		
[ Co	59		
[ Ni	60		
[ Cu	65		
[ Zn	66		
> Ge-1	72	96.552	
[ As	75		
[ Se	82		
[ Mo	97		
[ Ag	107		
[ Cd	111		
> In-1	115	98.205	
[ Sb	123		
[ Ba	135		
> Ho-1	165	99.372	
[ Tl	205		
[ Pb	208		
[ U	238		
> Sc-2	45	99.250	
[ Cr	53		
[ Fe	54		
[ Ni	61		
[ Cu	63		
[ Zn	67		
> Ge	72	96.552	
[ Se	77		
[ Mo	98		
[ Ag	109		
> In-2	115	98.205	
[ Cd	114		
[ Sb	121		
[ Ba	137		
> Ho-2	165	99.372	
[ W	182		
[ W	183		
[ Pt	194		
[ Pt	195		
[ Tl	203		
[ Pb	206		
[ Pb	207		
> Sc	45	99.250	
[ Tl	47		
[ Sr	86		
[ Sr	88		
> In	115	98.205	
[ Sn	118		
[ Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRHH

Sample Date/Time: Thursday, May 24, 2007 21:48:20

Autosampler Position: 88

Dataset File: D:\Elandata\Dataset\052407m1\JWRHH.131

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.028018		53.357		7.333	ug/L	3.000
10 B	211.525700		3.709		7480.033	ug/L	90.668
23 Na	17119.665515		3.084		81018361.216	ug/L	24909.622
24 Mg	7981.978317		2.645		25675945.017	ug/L	6273.773
27 Al	2.163869		4.344		25321.676	ug/L	15227.265
39 K	490.881333		1.601		4097433.282	ug/L	707925.205
44 Ca	12328.835014		0.957		2919396.188	ug/L	48369.900
> 45 Sc-1					470861.408	ug/L	467697.114
51 V	-0.209550	397.389			-19072.445	ug/L	-17188.401
52 Cr	93.059464	2.634			676945.245	ug/L	43700.177
55 Mn	0.357205	4.257			7668.134	ug/L	3939.583
57 Fe	-25.371374	5.771			1870.865	ug/L	6563.304
59 Co	0.027016	7.770			269.005	ug/L	70.668
60 Ni	0.346793	5.513			758.694	ug/L	205.004
65 Cu	0.149762	11.452			487.680	ug/L	201.670
66 Zn	-0.522509	14.510			3015.015	ug/L	3569.482
> 72 Ge-1					574346.052	ug/L	592936.498
75 As	2.434105	15.549			2794.404	ug/L	-502.888
82 Se	0.392894	14.106			-11.248	ug/L	-70.642
97 Mo	0.396787	2.433			772.695	ug/L	89.001
107 Ag	0.006430	39.757			156.336	ug/L	109.002
111 Cd	-0.000141	1604.799			34.667	ug/L	35.667
> 115 In-1					972848.138	ug/L	994304.053
123 Sb	0.020956	8.610			323.962	ug/L	235.401
135 Ba	0.352811	3.437			764.028	ug/L	183.670
> 165 Ho-1					1278445.336	ug/L	1276105.159
205 Tl	0.016274	103.459			2237.533	ug/L	1936.818
208 Pb	-0.040249	7.994			2509.112	ug/L	3500.871
238 U	2.028678	1.199			32349.912	ug/L	35.667
> 45 Sc-2					470861.408	ug/L	467697.114
53 Cr	79.978898	9.774			374181.779	ug/L	319041.768
54 Fe	-0.130902	3126.517			43118.809	ug/L	42890.999
61 Ni	4.595481	26.601			1406.750	ug/L	1069.051
63 Cu	0.109162	6.390			731.693	ug/L	321.674
67 Zn	-7.299929	21.985			20227.846	ug/L	21519.078
> 72 Ge					574346.052	ug/L	592936.498
77 Se	-17.595225	15.004			11097.169	ug/L	13366.987
98 Mo	0.396706	3.275			1906.209	ug/L	95.062
109 Ag	0.006050	35.647			164.336	ug/L	120.002
> 115 In-2					972848.138	ug/L	994304.053
114 Cd	-0.000694	174.292			49.919	ug/L	53.748
121 Sb	0.001691	61.827			332.007	ug/L	329.340
137 Ba	0.372135	4.027			1314.407	ug/L	281.339
> 165 Ho-2					1278445.336	ug/L	1276105.159
182 W	0.170511	2.557			1446.421	ug/L	457.679
183 W	0.166778	4.446			785.029	ug/L	253.338
194 Pt	-0.002211	117.802			66.667	ug/L	76.668
195 Pt	0.001551	95.074			55.334	ug/L	48.001
203 Tl	0.023386	73.783			961.042	ug/L	780.029
206 Pb	-0.035930	14.280			658.688	ug/L	888.037
207 Pb	-0.042293	12.820			519.348	ug/L	745.027
> 45 Sc					470861.408	ug/L	467697.114
47 Ti	0.004498	1716.807			654.355	ug/L	647.355
86 Sr	294.875309	1.376			651062.216	ug/L	151.307
88 Sr	287.689327	1.443			5453014.381	ug/L	1301.072
> 115 In					972848.138	ug/L	994304.053
118 Sn	-0.007193	53.996			313.673	ug/L	357.341

[ 120 Sn -0.005145 87.266 443.478 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
[ B	10		
[ Na	23		
[ Mg	24		
[ Al	27		
[ K	39		
[ Ca	44		
> Sc-1	45	100.677	
[ V	51		
[ Cr	52		
[ Mn	55		
[ Fe	57		
[ Co	59		
[ Ni	60		
[ Cu	65		
[ Zn	66		
> Ge-1	72	96.865	
[ As	75		
[ Se	82		
[ Mo	97		
[ Ag	107		
[ Cd	111		
> In-1	115	97.842	
[ Sb	123		
[ Ba	135		
> Ho-1	165	100.183	
[ Tl	205		
[ Pb	208		
[ U	238		
> Sc-2	45	100.877	
[ Cr	53		
[ Fe	54		
[ Ni	61		
[ Cu	63		
[ Zn	67		
> Ge	72	96.865	
[ Se	77		
[ Mo	98		
[ Ag	109		
> In-2	115	97.842	
[ Cd	114		
[ Sb	121		
[ Ba	137		
> Ho-2	165	100.183	
[ W	182		
[ W	183		
[ Pt	194		
[ Pt	195		
[ Tl	203		
[ Pb	206		
[ Pb	207		
> Sc	45	100.677	
[ Tl	47		
[ Sr	86		
[ Sr	88		
> In	115	97.842	
[ Sn	118		
[ Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRHL

Sample Date/Time: Thursday, May 24, 2007 21:54:22

Autosampler Position: 89

Dataset File: D:\Elandata\Dataset\052407m1\JWRHL.132

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
9 Be	0.008581	247.507	4.333	ug/L	3.000
10 B	207.586243	1.849	7376.978	ug/L	90.668
23 Na	17063.526637	3.145	81118674.834	ug/L	24909.622
24 Mg	8053.383952	3.143	26024899.912	ug/L	6273.773
27 Al	-0.759799	14.860	11872.722	ug/L	15227.265
39 K	489.921434	2.253	4109272.608	ug/L	707925.205
44 Ca	12572.012418	1.877	2989596.795	ug/L	48369.900
> 45 Sc-1			473035.581	ug/L	467697.114
51 V	-0.855072	15.445	-24433.301	ug/L	-17188.401
52 Cr	93.466643	2.017	682856.365	ug/L	43700.177
55 Mn	-0.104053	5.683	2900.323	ug/L	3939.583
57 Fe	-23.964051	3.620	2144.474	ug/L	6563.304
59 Co	0.030560	10.053	296.006	ug/L	70.668
60 Ni	0.358243	4.848	781.029	ug/L	205.004
65 Cu	0.159911	3.297	509.348	ug/L	201.670
66 Zn	-0.487068	0.771	3069.027	ug/L	3569.482
> 72 Ge-1			578622.959	ug/L	592936.498
75 As	2.557961	6.942	2986.290	ug/L	-502.888
82 Se	0.561829	37.849	13.208	ug/L	-70.642
97 Mo	0.411068	2.939	807.698	ug/L	69.001
107 Ag	0.002775	40.103	129.669	ug/L	109.002
111 Cd	-0.001146	233.361	33.334	ug/L	35.667
> 115 In-1			984593.121	ug/L	994304.053
123 Sb	0.017588	16.398	312.586	ug/L	235.401
135 Ba	0.341271	7.284	752.694	ug/L	183.670
> 165 Ho-1			1291718.519	ug/L	1276105.159
205 Tl	0.011370	135.598	2172.189	ug/L	1936.818
208 Pb	-0.048895	5.646	2319.097	ug/L	3500.871
238 U	2.061956	2.495	33219.253	ug/L	35.667
> 45 Sc-2			473035.581	ug/L	467697.114
53 Cr	79.435853	13.756	375516.863	ug/L	319041.768
54 Fe	-0.608450	974.579	43078.272	ug/L	42890.999
61 Ni	4.516452	22.500	1407.750	ug/L	1069.051
63 Cu	0.105236	5.551	720.359	ug/L	321.674
67 Zn	-7.481164	28.723	20283.927	ug/L	21519.078
> 72 Ge			578622.959	ug/L	592936.498
77 Se	-19.490966	2.963	10980.881	ug/L	13366.987
98 Mo	0.396095	0.343	1926.505	ug/L	95.062
109 Ag	0.001383	137.153	129.669	ug/L	120.002
> 115 In-2			984593.121	ug/L	994304.053
114 Cd	0.001409	118.685	58.700	ug/L	53.748
121 Sb	0.002151	134.645	338.674	ug/L	329.340
137 Ba	0.358049	2.538	1288.738	ug/L	281.339
> 165 Ho-2			1291718.519	ug/L	1276105.159
182 W	0.131669	6.667	1234.399	ug/L	457.679
183 W	0.126215	1.458	662.689	ug/L	253.338
194 Pt	-0.000928	270.577	73.334	ug/L	76.668
195 Pt	-0.000339	331.554	47.001	ug/L	48.001
203 Tl	0.016382	58.367	917.372	ug/L	780.029
206 Pb	-0.047476	5.094	590.685	ug/L	888.037
207 Pb	-0.044681	13.258	511.681	ug/L	745.027
> 45 Sc			473035.581	ug/L	467697.114
47 Ti	0.039022	268.925	680.356	ug/L	647.355
86 Sr	295.095995	1.840	654508.914	ug/L	151.307
88 Sr	291.814024	2.352	5555833.360	ug/L	1301.072
> 115 In			984593.121	ug/L	994304.053
118 Sn	-0.011221	26.297	297.006	ug/L	357.341

[ 120 Sn -0.008942 31.602 422.806 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
[ B	10		
[ Na	23		
[ Mg	24		
[ Al	27		
[ K	39		
[ Ca	44		
> Sc-1	45	101.141	
[ V	51		
[ Cr	52		
[ Mn	55		
[ Fe	57		
[ Co	59		
[ Ni	60		
[ Cu	65		
[ Zn	66		
> Ge-1	72	97.586	
[ As	75		
[ Se	82		
[ Mo	97		
[ Ag	107		
[ Cd	111		
> In-1	115	99.023	
[ Sb	123		
[ Ba	135		
> Ho-1	165	101.224	
[ Tl	205		
[ Pb	208		
[ U	238		
> Sc-2	45	101.141	
[ Cr	53		
[ Fe	54		
[ Ni	61		
[ Cu	63		
[ Zn	67		
> Ge	72	97.586	
[ Se	77		
[ Mo	98		
[ Ag	109		
> In-2	115	99.023	
[ Cd	114		
[ Sb	121		
[ Ba	137		
> Ho-2	165	101.224	
[ W	182		
[ W	183		
[ Pt	194		
[ Pt	195		
[ Tl	203		
[ Pb	206		
[ Pb	207		
> Sc	45	101.141	
[ Tl	47		
[ Sr	88		
[ Sr	88		
> In	115	99.023	
[ Sn	118		
[ Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRHR

Sample Date/Time: Thursday, May 24, 2007 22:00:25

Autosampler Position: 90

Dataset File: D:\Elandata\Dataset\052407m1\JWRHR.133

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.003901	502.865		3.867	ug/L	3.000	
10 B	210.864341	1.733		7544.735	ug/L	90.668	
23 Na	17123.505755	1.061		81973747.347	ug/L	24909.622	
24 Mg	8156.081058	2.209		26539149.232	ug/L	6273.773	
27 Al	-0.847928	7.966		11543.112	ug/L	15227.265	
39 K	488.426775	2.045		4127163.052	ug/L	707925.205	
44 Ca	12468.119390	1.098		2985561.406	ug/L	48369.900	
> 45 Sc-1				476242.318	ug/L	467697.114	
51 V	-0.117243	188.884		-18472.229	ug/L	-17188.401	
52 Cr	93.233115	0.560		686017.191	ug/L	43700.177	
55 Mn	-0.101243	10.090		2950.334	ug/L	3939.583	
57 Fe	-25.720469	6.973		1827.493	ug/L	6563.304	
59 Co	0.030119	7.504		295.006	ug/L	70.668	
60 Ni	0.339577	6.352		756.028	ug/L	205.004	
65 Cu	0.138753	15.618		472.013	ug/L	201.870	
66 Zn	-0.521429	15.115		3051.357	ug/L	3569.482	
> 72 Ge-1				575263.382	ug/L	592936.498	
75 As	2.655125	16.902		3096.616	ug/L	-502.888	
82 Se	0.552292	17.743		11.844	ug/L	-70.642	
97 Mo	0.396504	4.210		783.029	ug/L	69.001	
107 Ag	0.003120	44.555		132.669	ug/L	109.002	
111 Cd	-0.003839	94.854		28.667	ug/L	35.667	
> 115 In-1				986475.189	ug/L	994304.053	
123 Sb	0.014810	28.172		300.537	ug/L	235.401	
135 Ba	0.344069	7.937		757.361	ug/L	183.670	
> 165 Ho-1				1291961.190	ug/L	1276105.159	
205 Tl	0.001795	872.264		1996.829	ug/L	1936.818	
208 Pb	-0.046620	3.234		2376.101	ug/L	3500.871	
238 U	2.108241	2.211		33967.009	ug/L	35.667	
> 45 Sc-2				476242.318	ug/L	467697.114	
53 Cr	75.401730	4.007		375422.025	ug/L	319041.768	
54 Fe	-2.249666	162.539		42573.526	ug/L	42890.999	
61 Ni	4.483668	9.645		1415.418	ug/L	1069.051	
63 Cu	0.110699	4.460		746.027	ug/L	321.674	
67 Zn	-8.453327	11.563		20231.518	ug/L	21519.078	
> 72 Ge				575263.382	ug/L	592936.498	
77 Se	-17.844745	8.496		11090.813	ug/L	13366.987	
98 Mo	0.403352	2.944		1963.589	ug/L	95.062	
109 Ag	0.000887	175.469		126.002	ug/L	120.002	
> 115 In-2				986475.189	ug/L	994304.053	
114 Cd	0.000636	211.188		55.765	ug/L	53.748	
121 Sb	-0.002958	65.415		309.340	ug/L	329.340	
137 Ba	0.367554	5.888		1315.074	ug/L	281.339	
> 165 Ho-2				1291961.190	ug/L	1276105.159	
182 W	0.117597	6.039		1152.391	ug/L	457.679	
183 W	0.107723	14.119		603.019	ug/L	253.338	
194 Pt	-0.002070	68.327		68.001	ug/L	76.668	
195 Pt	0.000500	198.087		51.001	ug/L	48.001	
203 Tl	0.006222	153.787		838.700	ug/L	780.029	
206 Pb	-0.047117	6.548		593.018	ug/L	888.037	
207 Pb	-0.043316	9.451		519.348	ug/L	745.027	
> 45 Sc				476242.318	ug/L	467697.114	
47 Ti	0.031836	234.425		680.023	ug/L	647.355	
86 Sr	294.989424	0.480		658841.843	ug/L	151.307	
88 Sr	290.364048	0.944		5586986.870	ug/L	1301.072	
> 115 In				986475.189	ug/L	994304.053	
118 Sn	-0.009371	24.176		307.006	ug/L	357.341	

120 Sn -0.011162 17.232 408.432 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	101.827	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
Zn	66		
> Ge-1	72	97.019	
As	75		
Se	82		
Mo	97		
Ag	107		
Cd	111		
> In-1	115	99.213	
Sb	123		
Ba	135		
> Ho-1	165	101.243	
Tl	206		
Pb	208		
U	238		
> Sc-2	45	101.827	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
Zn	67		
> Ge	72	97.019	
Se	77		
Mo	98		
Ag	109		
> In-2	115	99.213	
Cd	114		
Sb	121		
Ba	137		
> Ho-2	165	101.243	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
Pb	207		
> Sc	45	101.827	
Tl	47		
Sr	86		
Sr	88		
> In	115	99.213	
Sn	118		
Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRHW

Sample Date/Time: Thursday, May 24, 2007 22:06:28

Autosampler Position: 91

Dataset File: D:\Elandata\Dataset\052407m1\JWRHW.134

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.006518	199.825		4.000	ug/L	3.000	
10 B	215.626140	3.175		7579.087	ug/L	90.668	
23 Na	17287.752951	1.941		81332202.287	ug/L	24909.622	
24 Mg	8149.958568	1.964		26063320.839	ug/L	6273.773	
27 Al	-0.394674	16.905		13426.443	ug/L	15227.265	
39 K	484.588234	1.215		4029988.787	ug/L	707925.205	
44 Ca	12401.156429	1.177		2918718.307	ug/L	48369.900	
> 45 Sc-1				468047.878	ug/L	467697.114	
51 V	-0.734528	75.276		-23215.856	ug/L	-17188.401	
52 Cr	91.678187	0.983		663670.697	ug/L	43700.177	
55 Mn	-0.094636	9.032		2967.338	ug/L	3939.583	
57 Fe	-25.935357	1.971		1754.794	ug/L	6563.304	
59 Co	0.030923	9.448		295.673	ug/L	70.688	
60 Ni	0.338226	7.367		740.693	ug/L	205.004	
65 Cu	0.129577	18.210		446.678	ug/L	201.670	
66 Zn	-0.435807	4.034		3093.032	ug/L	3569.482	
> 72 Ge-1				574178.837	ug/L	592936.498	
75 As	2.059606	19.844		2287.475	ug/L	-502.888	
82 Se	0.440615	53.121		-4.496	ug/L	-70.642	
97 Mo	0.404088	5.492		794.363	ug/L	69.001	
107 Ag	0.002145	60.880		124.668	ug/L	109.002	
111 Cd	-0.002866	133.764		30.334	ug/L	35.667	
> 115 In-1				983798.758	ug/L	994304.053	
123 Sb	0.016768	32.496		308.622	ug/L	235.401	
135 Ba	0.340190	0.785		746.027	ug/L	183.670	
> 165 Ho-1				1283045.450	ug/L	1276105.159	
205 Tl	-0.001987	720.035		1909.148	ug/L	1936.818	
208 Pb	-0.041402	3.452		2489.443	ug/L	3500.871	
238 U	2.120363	2.261		33928.587	ug/L	35.667	
> 45 Sc-2				468047.878	ug/L	467697.114	
53 Cr	78.659039	6.096		371107.460	ug/L	319041.768	
54 Fe	2.102127	305.357		43943.966	ug/L	42890.999	
61 Ni	4.233649	22.819		1373.080	ug/L	1069.051	
63 Cu	0.101863	8.757		700.358	ug/L	321.674	
67 Zn	-8.081942	3.456		19956.796	ug/L	21519.078	
> 72 Ge				574178.837	ug/L	592936.498	
77 Se	-16.334094	12.324		11226.866	ug/L	13366.987	
98 Mo	0.390728	2.157		1900.057	ug/L	95.062	
109 Ag	0.000199	595.787		120.335	ug/L	120.002	
> 115 In-2				983798.758	ug/L	994304.053	
114 Cd	-0.000395	389.793		51.635	ug/L	53.748	
121 Sb	0.000948	315.468		331.340	ug/L	329.340	
137 Ba	0.356731	4.955		1276.070	ug/L	281.339	
> 165 Ho-2				1283045.450	ug/L	1276105.159	
182 W	0.112719	1.619		1115.721	ug/L	457.679	
183 W	0.112931	3.915		615.686	ug/L	253.338	
194 Pt	-0.001897	81.094		68.334	ug/L	76.668	
195 Pt	-0.001543	43.340		41.000	ug/L	48.001	
203 Tl	0.003389	387.978		810.031	ug/L	780.029	
206 Pb	-0.039043	12.791		641.354	ug/L	888.037	
207 Pb	-0.039464	20.888		536.015	ug/L	745.027	
> 45 Sc				468047.878	ug/L	467697.114	
47 Tl	-0.024534	44.356		632.020	ug/L	647.355	
86 Sr	297.591131	0.663		653197.786	ug/L	151.307	
88 Sr	289.858835	1.682		5461458.336	ug/L	1301.072	
> 115 In				983798.758	ug/L	994304.053	
118 Sn	-0.013168	13.045		287.006	ug/L	357.341	



120 Sn -0.010335 40.664 413.108 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Be	9	
	B	10	
	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	100.075
	V	51	
	Cr	52	
	Mn	55	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	66	
>	Ge-1	72	98.836
	As	75	
	Se	82	
	Mo	97	
	Ag	107	
	Cd	111	
>	In-1	115	98.943
	Sb	123	
	Ba	135	
>	Ho-1	165	100.544
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	100.075
	Cr	53	
	Fe	54	
	Ni	61	
	Cu	63	
	Zn	67	
>	Ge	72	98.836
	Se	77	
	Mo	98	
	Ag	109	
>	In-2	115	98.943
	Cd	114	
	Sb	121	
	Ba	137	
>	Ho-2	166	100.544
	W	182	
	W	183	
	Pt	194	
	Pt	195	
	Tl	203	
	Pb	206	
	Pb	207	
>	Sc	45	100.075
	Tl	47	
	Sr	86	
	Sr	86	
>	In	115	98.943
	Sn	118	
	Sn	120	

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRHX

Sample Date/Time: Thursday, May 24, 2007 22:12:32

Autosampler Position: 92

Dataset File: D:\Elandata\Dataset\052407m1\JWRHX.135

## Sample Result Summary

Mass Analyte	Conc.	MeanConc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.011375	119.447		4.667		ug/L	3.000
10 B	216.993942	0.408		7491.706		ug/L	90.668
23 Na	17322.628976	3.914		80033708.924		ug/L	24909.622
24 Mg	8272.549737	2.901		25981623.594		ug/L	6273.773
27 Al	0.011981	352.581		15020.710		ug/L	15227.265
39 K	493.100543	1.974		4015388.467		ug/L	707925.205
44 Ca	12668.324889	1.330		2927391.202		ug/L	48369.900
> 45 Sc-1				459719.042		ug/L	467697.114
51 V	-0.568636	63.510		-21440.924		ug/L	-17188.401
52 Cr	93.914888	0.735		666740.718		ug/L	43700.177
55 Mn	-0.035796	33.412		3510.800		ug/L	3939.583
57 Fe	-24.702682	5.179		1949.021		ug/L	6563.304
59 Co	0.032564	17.273		302.006		ug/L	70.668
60 Ni	0.358981	7.213		759.694		ug/L	205.004
65 Cu	0.136912	11.980		452.345		ug/L	201.670
66 Zn	-0.303684	15.041		3180.386		ug/L	3569.482
> 72 Ge-1				571205.758		ug/L	592936.498
75 As	1.806795	22.483		1946.773		ug/L	-502.888
82 Se	0.115738	382.634		-52.121		ug/L	-70.642
97 Mo	0.403536	2.963		770.895		ug/L	69.001
107 Ag	0.003671	42.007		132.669		ug/L	109.002
111 Cd	-0.007682	33.982		21.334		ug/L	35.667
> 115 In-1				955450.601		ug/L	994304.053
123 Sb	0.018216	12.189		306.125		ug/L	235.401
135 Ba	0.352581	4.472		748.027		ug/L	183.670
> 165 Ho-1				1252344.601		ug/L	1276105.159
205 Tl	-0.001141	1135.053		1883.478		ug/L	1936.818
208 Pb	-0.041635	4.505		2424.105		ug/L	3500.871
238 U	2.119454	0.675		33106.996		ug/L	35.667
> 45 Sc-2				459719.042		ug/L	467697.114
53 Cr	91.369094	3.688		372727.839		ug/L	319041.768
54 Fe	1.445284	388.365		42857.933		ug/L	42890.999
61 Ni	3.365466	12.960		1287.738		ug/L	1069.051
63 Cu	0.105530	7.731		701.358		ug/L	321.674
67 Zn	-6.064779	20.446		19987.172		ug/L	21519.078
> 72 Ge				571205.758		ug/L	592936.498
77 Se	-15.001065	10.638		11306.569		ug/L	13366.987
98 Mo	0.420294	2.557		1978.292		ug/L	95.062
109 Ag	0.001917	112.931		130.002		ug/L	120.002
> 115 In-2				955450.601		ug/L	994304.053
114 Cd	0.000331	566.845		52.885		ug/L	53.748
121 Sb	-0.000131	2489.722		315.673		ug/L	329.340
137 Ba	0.385746	0.559		1324.741		ug/L	281.339
> 165 Ho-2				1252344.601		ug/L	1276105.159
182 W	0.126983	8.214		1170.060		ug/L	457.679
183 W	0.127390	6.196		646.354		ug/L	253.338
194 Pt	0.001822	386.914		83.334		ug/L	76.668
195 Pt	0.000549	105.377		49.667		ug/L	48.001
203 Tl	0.002429	652.634		785.363		ug/L	780.029
206 Pb	-0.039746	8.171		621.686		ug/L	888.037
207 Pb	-0.041628	14.596		512.014		ug/L	745.027
> 45 Sc				459719.042		ug/L	467697.114
47 Tl	-0.020843	148.215		623.020		ug/L	647.355
86 Sr	298.457472	1.098		643475.372		ug/L	151.307
88 Sr	293.615729	0.578		5433860.317		ug/L	1301.072
> 115 In				955450.601		ug/L	994304.053
118 Sn	-0.013379	1.165		277.672		ug/L	357.341

[ 120 Sn -0.015329 22.125 368.124 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
[ B	10		
[ Na	23		
[ Mg	24		
[ Al	27		
[ K	39		
[ Ca	44		
> Sc-1	45	98.294	
[ V	51		
[ Cr	52		
[ Mn	55		
[ Fe	57		
[ Co	59		
[ Ni	60		
[ Cu	65		
[ Zn	66		
> Ge-1	72	96.335	
[ As	75		
[ Se	82		
[ Mo	97		
[ Ag	107		
[ Cd	111		
> In-1	115	96.092	
[ Sb	123		
[ Ba	135		
> Ho-1	165	98.138	
[ Tl	205		
[ Pb	208		
[ U	238		
> Sc-2	45	98.294	
[ Cr	53		
[ Fe	54		
[ Ni	61		
[ Cu	63		
[ Zn	67		
> Ge	72	96.335	
[ Se	77		
[ Mo	98		
[ Ag	109		
> In-2	115	96.092	
[ Cd	114		
[ Sb	121		
[ Ba	137		
> Ho-2	165	98.138	
[ W	182		
[ W	183		
[ Pt	194		
[ Pt	195		
[ Tl	203		
[ Pb	206		
[ Pb	207		
> Sc	45	98.294	
[ Tl	47		
[ Sr	86		
[ Sr	88		
> In	115	96.082	
[ Sn	118		
[ Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRH0

Sample Date/Time: Thursday, May 24, 2007 22:18:36

Autosampler Position: 93

Dataset File: D:\Elandata\Dataset\052407m1\JWRH0.136

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
9 Be	0.020839	33.258	6.000	ug/L	3.000
10 B	191.868718	2.078	6551.568	ug/L	90.668
23 Na	25238.130183	2.154	115141935.008	ug/L	24909.622
24 Mg	3973.457950	1.682	12326738.017	ug/L	6273.773
27 Al	2.762796	3.872	27079.916	ug/L	15227.265
39 K	298.139559	1.893	2668931.213	ug/L	707925.205
44 Ca	11497.488000	0.629	2627974.949	ug/L	48369.900
> 45 Sc-1			453939.412	ug/L	467697.114
51 V	0.531141	65.945	-12486.774	ug/L	-17188.401
52 Cr	30.478710	1.321	242299.385	ug/L	43700.177
55 Mn	0.631848	1.472	10138.365	ug/L	3939.583
57 Fe	-18.323574	4.336	3072.233	ug/L	6563.304
59 Co	0.026833	13.402	258.005	ug/L	70.668
60 Ni	0.342883	3.702	725.692	ug/L	205.004
65 Cu	0.184843	16.215	534.349	ug/L	201.670
66 Zn	-0.695367	10.621	2722.620	ug/L	3569.482
> 72 Ge-1			557265.221	ug/L	592936.498
75 As	3.378646	10.086	3949.318	ug/L	-502.888
82 Se	0.295379	27.560	-24.656	ug/L	-70.642
97 Mo	0.754944	1.187	1373.746	ug/L	69.001
107 Ag	0.001779	86.080	117.335	ug/L	109.002
111 Cd	-0.002799	68.302	29.334	ug/L	35.667
> 115 In-1			948366.553	ug/L	994304.053
123 Sb	0.016479	28.724	296.215	ug/L	235.401
135 Ba	0.244475	4.564	567.684	ug/L	183.670
> 165 Ho-1			1238528.513	ug/L	1276105.159
205 Tl	-0.004426	401.864	1799.800	ug/L	1936.818
208 Pb	-0.042825	7.129	2368.767	ug/L	3500.871
238 U	1.221544	1.523	18884.330	ug/L	35.667
> 45 Sc-2			453939.412	ug/L	467697.114
53 Cr	33.163387	25.460	330825.893	ug/L	319041.768
54 Fe	4.597421	102.085	43798.764	ug/L	42890.999
61 Ni	3.665025	13.716	1292.071	ug/L	1069.051
63 Cu	0.156294	8.651	875.036	ug/L	321.674
67 Zn	-4.865708	22.411	19963.807	ug/L	21519.078
> 72 Ge			557265.221	ug/L	592936.498
77 Se	-7.583494	55.202	11787.594	ug/L	13366.987
98 Mo	0.765288	1.566	3500.412	ug/L	95.062
109 Ag	-0.000630	124.712	109.668	ug/L	120.002
> 115 In-2			948366.553	ug/L	994304.053
114 Cd	-0.000562	129.781	49.158	ug/L	53.748
121 Sb	0.002396	175.920	327.674	ug/L	329.340
137 Ba	0.278192	1.676	1021.047	ug/L	281.339
> 165 Ho-2			1238528.513	ug/L	1276105.159
182 W	0.031767	21.767	622.353	ug/L	457.679
183 W	0.025136	35.303	323.340	ug/L	253.338
194 Pt	0.001474	233.616	81.001	ug/L	76.668
195 Pt	0.004144	68.952	65.334	ug/L	48.001
203 Tl	-0.002574	597.285	737.360	ug/L	780.029
206 Pb	-0.039331	14.102	617.020	ug/L	888.037
207 Pb	-0.042793	11.491	500.347	ug/L	745.027
> 45 Sc			453939.412	ug/L	467697.114
47 Ti	0.127443	57.195	708.025	ug/L	647.355
86 Sr	257.200040	0.902	547526.777	ug/L	151.307
88 Sr	251.918506	0.700	4603745.016	ug/L	1301.072
> 115 In			948366.553	ug/L	994304.053
118 Sn	-0.009943	18.652	292.339	ug/L	357.341

[ 120 Sn -0.010520 32.056 396.836 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	97.058	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
Zn	68		
> Ge-1	72	93.984	
As	75		
Se	82		
Mo	97		
Ag	107		
Cd	111		
> In-1	115	95.380	
Sb	123		
Ba	135		
> Ho-1	165	97.055	
Tl	205		
Pb	208		
U	238		
> Sc-2	45	97.058	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
Zn	67		
> Ge	72	93.984	
Se	77		
Mo	98		
Ag	109		
> In-2	115	95.380	
Cd	114		
Sb	121		
Ba	137		
> Ho-2	165	97.055	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
Pb	207		
> Sc	45	97.058	
Tl	47		
Sr	86		
Sr	88		
> In	115	95.380	
Sn	118		
Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6

Sample Date/Time: Thursday, May 24, 2007 22:24:43

Autosampler Position: 7

Dataset File: D:\Elandata\Dataset\052407m1\QC Std 6.137

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
9 Be	184.859220	0.817	27474.670	ug/L	3.000
10 B	187.240772	1.779	6405.834	ug/L	90.668
23 Na	1920.821698	0.853	8800486.297	ug/L	24909.622
24 Mg	983.496472	1.043	3060875.918	ug/L	6273.773
27 Al	1935.370663	0.895	8646243.678	ug/L	15227.265
39 K	1847.864381	2.238	12992551.933	ug/L	707925.205
44 Ca	1040.054947	1.604	280875.745	ug/L	48369.900
> 45 Sc-1			454674.470	ug/L	467697.114
51 V	173.911268	1.600	1363342.784	ug/L	-17188.401
52 Cr	187.518449	1.392	1274235.824	ug/L	43700.177
55 Mn	185.882117	2.184	1864310.104	ug/L	3939.583
57 Fe	2078.020752	0.202	381031.257	ug/L	6563.304
59 Co	187.324614	0.928	1324094.560	ug/L	70.668
60 Ni	182.422911	0.692	280854.513	ug/L	205.004
65 Cu	182.072729	0.762	334461.780	ug/L	201.670
66 Zn	183.891559	1.667	199881.547	ug/L	3569.482
> 72 Ge-1			549130.772	ug/L	592936.498
75 As	192.769767	0.620	248102.570	ug/L	-502.886
82 Se	193.712564	2.079	26871.566	ug/L	-70.642
97 Mo	190.581046	3.067	331161.899	ug/L	69.001
107 Ag	47.984805	0.690	362916.216	ug/L	109.002
111 Cd	191.001418	0.979	320758.672	ug/L	35.667
> 115 In-1			951388.839	ug/L	994304.053
123 Sb	188.677878	2.129	824526.405	ug/L	235.401
135 Ba	184.281113	0.415	292687.685	ug/L	183.670
> 165 Ho-1			1234179.158	ug/L	1276105.159
205 Tl	180.066088	1.602	3184560.708	ug/L	1936.818
208 Pb	187.090193	0.385	4481646.614	ug/L	3500.871
238 U	190.828147	1.137	2934600.097	ug/L	35.667
> 45 Sc-2			454674.470	ug/L	467697.114
53 Cr	160.323989	9.242	412783.555	ug/L	319041.768
54 Fe	2039.881692	0.900	1001263.507	ug/L	42890.999
61 Ni	183.175606	1.011	13785.787	ug/L	1069.051
63 Cu	182.938631	0.510	660429.282	ug/L	321.674
67 Zn	173.059995	2.456	53755.840	ug/L	21519.078
> 72 Ge			549130.772	ug/L	592936.498
77 Se	194.246282	3.666	31900.123	ug/L	13366.987
98 Mo	189.085681	1.832	845129.904	ug/L	95.062
109 Ag	47.386266	1.303	359844.332	ug/L	120.002
> 115 In-2			951388.839	ug/L	994304.053
114 Cd	195.453898	0.500	731437.377	ug/L	53.748
121 Sb	191.040160	2.331	1081684.159	ug/L	329.340
137 Ba	187.723688	0.909	503195.828	ug/L	281.339
> 165 Ho-2			1234179.158	ug/L	1276105.159
182 W	187.511021	0.883	1049399.146	ug/L	457.679
183 W	187.083916	0.646	575612.345	ug/L	253.338
194 Pt	188.361130	0.452	830868.348	ug/L	76.668
195 Pt	191.144661	0.885	864447.865	ug/L	48.001
203 Tl	183.133097	0.938	1362014.801	ug/L	780.029
206 Pb	193.366878	0.680	1200022.075	ug/L	888.037
207 Pb	188.444804	0.373	977848.051	ug/L	745.027
> 45 Sc			454674.470	ug/L	467697.114
47 Ti	193.218696	0.649	121788.816	ug/L	647.355
86 Sr	187.842618	1.540	400142.716	ug/L	151.307
88 Sr	182.553006	1.510	3341809.252	ug/L	1301.072
> 115 In			951388.839	ug/L	994304.053
118 Sn	190.354335	1.603	931022.871	ug/L	357.341

[ 120 Sn 189.195435 1.676 1247878.322 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		92.430
B	10		93.820
Na	23		96.041
Mg	24		98.350
Al	27		96.769
K	39		82.394
Ca	44		104.005
[> Sc-1	45	97.218	
V	51		86.956
Cr	52		93.759
Mn	55		92.941
Fe	57		103.901
Co	59		93.862
Ni	60		91.211
Cu	65		91.036
Zn	66		91.948
[> Ge-1	72	92.612	
As	75		96.385
Se	82		96.856
[ Mo	97		95.281
Ag	107		95.970
Cd	111		95.501
[> In-1	115	95.684	
Sb	123		94.339
[ Ba	135		92.141
[> Ho-1	165	96.715	
Tl	205		90.033
Pb	208		93.545
[ U	238		95.414
[> Sc-2	45	97.218	
Cr	53		80.162
Fe	54		101.894
Ni	61		91.588
Cu	63		91.488
Zn	67		86.530
[> Ge	72	92.612	
Se	77		97.123
[ Mo	98		94.543
Ag	109		94.773
[> In-2	115	95.684	
Cd	114		97.727
Sb	121		95.520
[ Ba	137		93.862
[> Ho-2	165	96.715	
W	182		93.756
W	183		93.542
Pt	194		94.181
Pt	195		95.572
Tl	203		91.567
Pb	206		96.683
[ Pb	207		94.222
[> Sc	45	97.218	
Ti	47		96.809
Sr	86		93.821
Sr	88		91.277
[> In	115	95.684	
Sn	118		95.177
[ Sn	120		94.598

**QC Out Of Limits**

Analyte	Mass	Out of Limits	Message
V	51	Q	
Cr	53	Q	
Zn	67	Q	

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 7

Sample Date/Time: Thursday, May 24, 2007 22:31:20

Autosampler Position: 1

Dataset File: D:\Elandata\Dataset\052407m1\QC Std 7.138

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.013790	94.213		5.000	ug/L	3.000	
10 B	5.368424	21.063		270.005	ug/L	90.668	
23 Na	0.055549	192.702		24557.002	ug/L	24909.622	
24 Mg	0.041721	109.580		6250.763	ug/L	6273.773	
27 Al	-0.583454	13.065		12245.371	ug/L	15227.265	
39 K	-3.000979	13.035		670700.797	ug/L	707925.205	
44 Ca	-31.074254	2.849		40182.837	ug/L	48369.900	
> 45 Sc-1				456359.843	ug/L	467697.114	
51 V	0.959532	133.413		-9169.983	ug/L	-17188.401	
52 Cr	-1.372546	4.691		33593.803	ug/L	43700.177	
55 Mn	-0.146731	8.568		2369.554	ug/L	3939.583	
57 Fe	-3.113370	20.763		5840.582	ug/L	6563.304	
59 Co	0.005471	33.396		107.668	ug/L	70.668	
60 Ni	0.000503	3133.108		200.670	ug/L	205.004	
65 Cu	-0.007836	31.583		182.336	ug/L	201.670	
66 Zn	-0.621794	5.530		2816.306	ug/L	3569.482	
> 72 Ge-1				562940.025	ug/L	592936.498	
75 As	-0.238807	21.732		-793.004	ug/L	-502.888	
82 Se	0.044324	268.987		-60.665	ug/L	-70.642	
97 Mo	0.086801	31.242		220.337	ug/L	69.001	
107 Ag	0.005580	46.398		148.669	ug/L	109.002	
111 Cd	0.007051	53.732		46.667	ug/L	35.667	
> 115 In-1				965439.538	ug/L	994304.053	
123 Sb	0.036849	30.060		392.163	ug/L	235.401	
135 Ba	-0.011386	67.057		164.336	ug/L	183.670	
> 165 Ho-1				1271253.636	ug/L	1276105.159	
205 Tl	0.329942	35.482		7955.746	ug/L	1936.818	
208 Pb	-0.021237	25.533		2965.150	ug/L	3500.871	
238 U	0.008959	20.605		177.670	ug/L	35.667	
> 45 Sc-2				456359.843	ug/L	467697.114	
53 Cr	-65.392603	2.094		269285.841	ug/L	319041.768	
54 Fe	-3.701044	138.507		40087.470	ug/L	42890.999	
61 Ni	0.636219	81.544		1087.386	ug/L	1069.051	
63 Cu	-0.008312	68.355		283.672	ug/L	321.674	
67 Zn	-7.772384	11.084		19516.184	ug/L	21519.078	
> 72 Ge				562940.025	ug/L	592936.498	
77 Se	-33.749066	6.382		9212.721	ug/L	13366.987	
98 Mo	0.093131	39.644		515.595	ug/L	95.062	
109 Ag	0.025837	9.704		315.673	ug/L	120.002	
> 115 In-2				965439.538	ug/L	994304.053	
114 Cd	0.013346	8.540		102.886	ug/L	53.748	
121 Sb	0.033872	33.589		514.681	ug/L	329.340	
137 Ba	-0.003991	107.531		269.339	ug/L	281.339	
> 165 Ho-2				1271253.636	ug/L	1276105.159	
182 W	0.248973	21.983		1892.814	ug/L	457.679	
183 W	0.258489	33.270		1073.720	ug/L	253.338	
194 Pt	0.006151	11.396		104.335	ug/L	76.668	
195 Pt	0.007367	60.536		82.334	ug/L	48.001	
203 Tl	0.336834	28.761		3362.777	ug/L	780.029	
206 Pb	-0.019575	21.510		759.694	ug/L	888.037	
207 Pb	-0.018520	51.652		643.688	ug/L	745.027	
> 45 Sc				456359.843	ug/L	467697.114	
47 Ti	-0.149655	26.825		537.349	ug/L	647.355	
86 Sr	-0.017383	145.484		110.335	ug/L	151.307	
88 Sr	0.002413	58.353		1313.740	ug/L	1301.072	
> 115 In				965439.538	ug/L	994304.053	
118 Sn	0.031067	28.419		501.347	ug/L	357.341	



120 Sn 0.033278 18.919 697.355 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Be	9		1.379
B	10		536.942
Na	23		0.056
Mg	24		0.042
Al	27		-0.583
K	39		-3.001
Ca	44		-31.074
> Sc-1	45	97.576	
V	51		95.953
Cr	52		-137.255
Mn	55		-14.673
Fe	57		-3.113
Co	59		0.547
Ni	60		0.050
Cu	65		-0.784
Zn	66		-62.179
> Ge-1	72	94.941	
As	75		-23.881
Se	82		4.432
Mo	97		8.680
Ag	107		0.558
Cd	111		0.705
> In-1	115	97.097	
Sb	123		3.685
Ba	135		-1.139
> Ho-1	165	99.620	
Tl	205		32.994
Pb	208		-2.124
U	238		0.898
> Sc-2	45	97.576	
Cr	53		-6539.260
Fe	54		-3.701
Ni	61		63.622
Cu	63		-0.831
Zn	67		-777.238
> Ge	72	94.941	
Se	77		-3374.907
Mo	98		9.313
Ag	109		2.584
> In-2	115	97.097	
Cd	114		1.335
Sb	121		3.387
Ba	137		-0.399
> Ho-2	165	99.620	
W	182		24.897
W	183		25.849
Pt	194		0.615
Pt	195		0.737
Tl	203		33.683
Pb	206		-1.957
Pb	207		-1.852
> Sc	45	97.576	
Tl	47		-14.966
Sr	86		-1.738
Sr	88		0.241
> In	115	97.097	
Sn	118		3.107
Sn	120		3.328

**QC Out Of Limits**

Analyte	Mass	Out of Limits	Message
B	10	Q	
Cr	52	Q	
Cr	53	Q	
Zn	67	Q	
Se	77	Q	

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRH1

Sample Date/Time: Thursday, May 24, 2007 22:37:55

Autosampler Position: 94

Dataset File: D:\Elandata\Dataset\052407m1\JWRH1.139

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
9 Be	0.002466	574.424	3.333	ug/L	3.000
10 B	189.647357	0.892	6601.591	ug/L	90.668
23 Na	25491.851355	2.818	118544126.247	ug/L	24909.622
24 Mg	4108.714579	2.655	12991055.886	ug/L	6273.773
27 Al	2.579062	1.714	26769.326	ug/L	15227.265
39 K	298.199964	1.021	2721029.254	ug/L	707825.205
44 Ca	11963.309735	0.808	2785231.485	ug/L	48369.900
> 45 Sc-1			462720.230	ug/L	467697.114
51 V	5.217770	120.745	25156.144	ug/L	-17188.401
52 Cr	30.866001	1.836	249549.590	ug/L	43700.177
55 Mn	0.638376	4.824	10398.221	ug/L	3939.583
57 Fe	-26.013864	1.049	1720.388	ug/L	6563.304
59 Co	0.028588	13.411	275.339	ug/L	70.668
60 Ni	0.312686	4.844	692.357	ug/L	205.004
65 Cu	0.164275	15.996	506.347	ug/L	201.670
66 Zn	-0.781484	9.760	2681.278	ug/L	3569.482
> 72 Ge-1			562135.023	ug/L	592936.498
75 As	4.628482	5.832	5630.401	ug/L	-502.888
82 Se	0.247885	46.219	-31.681	ug/L	-70.642
97 Mo	0.809610	3.303	1469.757	ug/L	69.001
107 Ag	0.002730	42.154	124.668	ug/L	109.002
111 Cd	0.001752	357.388	37.000	ug/L	35.667
> 115 In-1			949216.770	ug/L	994304.053
123 Sb	0.026393	26.834	339.841	ug/L	235.401
135 Ba	0.253035	4.101	588.685	ug/L	183.670
> 165 Ho-1			1254132.239	ug/L	1276105.159
205 Tl	0.093854	40.942	3587.163	ug/L	1936.818
208 Pb	-0.036890	14.996	2543.113	ug/L	3500.871
238 U	1.296592	2.918	20292.944	ug/L	35.667
> 45 Sc-2			462720.230	ug/L	467697.114
53 Cr	-25.921263	26.100	298729.929	ug/L	319041.768
54 Fe	-0.932226	633.317	41982.524	ug/L	42890.999
61 Ni	2.935467	20.228	1265.735	ug/L	1069.051
63 Cu	0.171128	6.778	946.374	ug/L	321.674
67 Zn	-8.471380	9.021	19653.374	ug/L	21519.078
> 72 Ge			562135.023	ug/L	592936.498
77 Se	-30.726860	3.614	9511.217	ug/L	13366.987
98 Mo	0.815207	1.582	3726.359	ug/L	95.062
109 Ag	0.010088	23.678	191.003	ug/L	120.002
> 115 In-2			949216.770	ug/L	994304.053
114 Cd	0.001239	183.673	55.927	ug/L	53.748
121 Sb	0.012902	69.381	387.343	ug/L	329.340
137 Ba	0.272913	7.532	1019.047	ug/L	281.339
> 165 Ho-2			1254132.239	ug/L	1276105.159
182 W	0.129730	4.687	1187.061	ug/L	457.679
183 W	0.120054	8.479	624.353	ug/L	253.338
194 Pt	0.004084	34.037	93.668	ug/L	76.668
195 Pt	0.004163	36.263	66.334	ug/L	48.001
203 Tl	0.097173	36.304	1499.762	ug/L	780.029
206 Pb	-0.034715	13.899	654.022	ug/L	888.037
207 Pb	-0.030224	6.957	573.017	ug/L	745.027
> 45 Sc			462720.230	ug/L	467697.114
47 Ti	0.082385	46.766	693.024	ug/L	647.355
86 Sr	268.038700	1.833	581562.184	ug/L	151.307
88 Sr	262.041402	1.570	4880764.460	ug/L	1301.072
> 115 In			949216.770	ug/L	994304.053
118 Sn	0.001951	140.093	350.674	ug/L	357.341

[ 120 Sn -0.001776 344.092 454.834 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
[ B	10		
[ Na	23		
[ Mg	24		
[ Al	27		
[ K	39		
[ Ca	44		
[> Sc-1	45	98.936	
[ V	51		
[ Cr	52		
[ Mn	55		
[ Fe	57		
[ Co	59		
[ Ni	60		
[ Cu	65		
[ Zn	66		
[> Ge-1	72	94.805	
[ As	75		
[ Se	82		
[ Mo	97		
[ Ag	107		
[ Cd	111		
[> In-1	115	95.465	
[ Sb	123		
[ Ba	135		
[> Ho-1	165	98.278	
[ Tl	205		
[ Pb	208		
[ U	238		
[> Sc-2	45	98.936	
[ Cr	53		
[ Fe	54		
[ Ni	61		
[ Cu	63		
[ Zn	67		
[> Ge	72	94.805	
[ Se	77		
[ Mo	98		
[ Ag	109		
[> In-2	115	95.465	
[ Cd	114		
[ Sb	121		
[ Ba	137		
[> Ho-2	165	98.278	
[ W	182		
[ W	183		
[ Pt	194		
[ Pt	195		
[ Tl	203		
[ Pb	206		
[ Pb	207		
[> Sc	45	98.936	
[ Tl	47		
[ Sr	86		
[ Sr	88		
[> In	115	95.465	
[ Sn	118		
[ Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRH2

Sample Date/Time: Thursday, May 24, 2007 22:44:00

Autosampler Position: 95

Dataset File: D:\Elandata\Dataset\052407m1\JWRH2.140

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	-0.010584	37.217		1.333	ug/L	3.000	
10 B	189.337468	2.367		6431.179	ug/L	90.668	
23 Na	25753.904043	0.340		116882116.356	ug/L	24909.622	
24 Mg	4071.397399	0.972		12564028.797	ug/L	6273.773	
27 Al	-0.560938	2.616		12218.343	ug/L	15227.265	
39 K	304.142019	1.654		2694608.820	ug/L	707925.205	
44 Ca	11895.815242	0.327		2702996.489	ug/L	48369.900	
> 45 Sc-1				451530.024	ug/L	467697.114	
51 V	1.300313	21.827		-6351.775	ug/L	-17188.401	
52 Cr	31.304496	1.013		246410.253	ug/L	43700.177	
55 Mn	0.551234	1.693		9282.775	ug/L	3939.583	
57 Fe	-26.921287	2.016		1515.968	ug/L	6563.304	
59 Co	0.027510	3.413		261.338	ug/L	70.668	
60 Ni	0.341818	6.962		720.025	ug/L	205.004	
65 Cu	0.172340	9.544		509.014	ug/L	201.670	
66 Zn	-0.693707	4.299		2710.284	ug/L	3569.482	
> 72 Ge-1				550287.102	ug/L	592936.498	
75 As	4.449908	7.883		5284.303	ug/L	-502.888	
82 Se	0.122559	208.246		-48.557	ug/L	-70.642	
97 Mo	0.788534	0.668		1412.084	ug/L	69.001	
107 Ag	0.004027	92.389		132.335	ug/L	109.002	
111 Cd	-0.000533	281.066		32.667	ug/L	35.667	
> 115 In-1				935160.831	ug/L	994304.053	
123 Sb	0.015516	68.795		287.888	ug/L	235.401	
135 Ba	0.211027	7.715		512.348	ug/L	183.670	
> 165 Ho-1				1233301.470	ug/L	1276105.159	
205 Tl	0.030624	80.006		2415.233	ug/L	1936.818	
208 Pb	-0.045786	3.550		2288.428	ug/L	3500.871	
238 U	1.271116	1.053		19566.252	ug/L	35.667	
> 45 Sc-2				451530.024	ug/L	467697.114	
53 Cr	1.478849	323.174		308944.375	ug/L	319041.768	
54 Fe	-1.887167	396.084		40519.302	ug/L	42890.999	
61 Ni	3.541195	12.336		1276.736	ug/L	1069.051	
63 Cu	0.177532	2.722		946.708	ug/L	321.874	
67 Zn	-5.571768	17.937		19724.805	ug/L	21519.078	
> 72 Ge				550287.102	ug/L	592936.498	
77 Se	-21.703771	2.916		10219.855	ug/L	13366.987	
98 Mo	0.818687	1.089		3686.536	ug/L	95.062	
109 Ag	0.008611	46.379		177.003	ug/L	120.002	
> 115 In-2				935160.831	ug/L	994304.053	
114 Cd	-0.000008	22297.425		50.521	ug/L	53.748	
121 Sb	0.000403	192.767		312.007	ug/L	329.340	
137 Ba	0.231616	2.579		892.037	ug/L	281.339	
> 165 Ho-2				1233301.470	ug/L	1276105.159	
182 W	0.070926	10.296		839.033	ug/L	457.679	
183 W	0.070533	5.815		461.679	ug/L	253.338	
194 Pt	0.002093	96.390		83.334	ug/L	76.668	
195 Pt	0.003679	54.684		63.001	ug/L	48.001	
203 Tl	0.035561	49.932		1018.714	ug/L	780.029	
206 Pb	-0.046822	3.874		568.017	ug/L	888.037	
207 Pb	-0.038916	14.401		518.348	ug/L	745.027	
> 45 Sc				451530.024	ug/L	467697.114	
47 Ti	-0.002658	1725.198		623.353	ug/L	647.355	
86 Sr	264.600596	1.530		560302.625	ug/L	151.307	
88 Sr	257.209874	0.864		4675463.299	ug/L	1301.072	
> 115 In				935160.831	ug/L	994304.053	
118 Sn	-0.006734	31.247		303.673	ug/L	357.341	

[ 120 Sn -0.011006 18.755 388.205 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	96.543	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
Zn	66		
> Ge-1	72	92.807	
As	75		
Se	82		
[ Mo	97		
Ag	107		
Cd	111		
> In-1	115	94.052	
Sb	123		
[ Ba	135		
> Ho-1	165	96.646	
Tl	206		
Pb	208		
U	238		
> Sc-2	45	96.543	
Cr	53		
Fe	54		
Ni	81		
Cu	83		
Zn	67		
> Ge	72	92.807	
Se	77		
[ Mo	98		
Ag	109		
> In-2	115	94.052	
Cd	114		
Sb	121		
[ Ba	137		
> Ho-2	165	96.646	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
[ Pb	207		
> Sc	45	96.543	
Ti	47		
Sr	86		
[ Sr	88		
> In	115	94.052	
Sn	118		
[ Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRH3

Sample Date/Time: Thursday, May 24, 2007 22:50:06

Autosampler Position: 96

Dataset File: D:\Elandata\Dataset\052407m1\JWRH3.141

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.002872	273.249		3.333		ug/L	3.000
10 B	197.700005	2.782		6742.992		ug/L	90.668
23 Na	26646.857519	2.709		121503859.338		ug/L	24909.622
24 Mg	4327.855298	2.226		13419138.495		ug/L	6273.773
27 Al	-0.686735	2.992		11714.919		ug/L	15227.265
39 K	313.656064	1.095		2770673.462		ug/L	707925.205
44 Ca	12513.935631	1.326		2854395.332		ug/L	48369.900
> 45 Sc-1				453678.475		ug/L	467697.114
51 V	1.360249	16.332		-5901.164		ug/L	-17188.401
52 Cr	33.264818	0.769		260431.463		ug/L	43700.177
55 Mn	0.620229	3.384		10015.610		ug/L	3939.583
57 Fe	-28.046468	6.323		1322.091		ug/L	6563.304
59 Co	0.032296	22.312		296.339		ug/L	70.668
60 Ni	0.382254	2.022		785.696		ug/L	205.004
65 Cu	0.189438	4.059		542.682		ug/L	201.670
66 Zn	-0.697816	14.677		2718.619		ug/L	3569.482
> 72 Ge-1				559638.955		ug/L	592936.498
75 As	4.264619	5.259		5128.815		ug/L	-502.888
82 Se	0.040455	992.578		-61.062		ug/L	-70.642
97 Mo	0.809249	2.763		1473.091		ug/L	69.001
107 Ag	0.000743	211.694		110.002		ug/L	109.002
111 Cd	-0.005238	27.896		25.334		ug/L	35.667
> 115 In-1				951790.337		ug/L	994304.053
123 Sb	0.017254	29.058		300.670		ug/L	235.401
135 Ba	0.219434	6.036		531.682		ug/L	183.670
> 165 Ho-1				1248077.638		ug/L	1276105.159
205 Tl	0.016960	104.839		2193.859		ug/L	1936.818
208 Pb	-0.046587	9.169		2295.095		ug/L	3500.871
238 U	1.357513	2.341		21139.842		ug/L	35.667
> 45 Sc-2				453678.475		ug/L	467697.114
53 Cr	6.529813	74.118		313644.236		ug/L	319041.768
54 Fe	0.110943	7355.206		41659.151		ug/L	42890.999
61 Ni	3.130581	40.072		1254.401		ug/L	1069.051
63 Cu	0.185477	7.967		979.710		ug/L	321.674
67 Zn	-7.477546	10.910		19458.438		ug/L	21519.078
> 72 Ge				559638.955		ug/L	592936.498
77 Se	-18.251483	4.203		10747.040		ug/L	13366.987
98 Mo	0.837684	1.152		3837.096		ug/L	95.062
109 Ag	0.001811	129.630		128.669		ug/L	120.002
> 115 In-2				951790.337		ug/L	994304.053
114 Cd	0.000811	267.900		54.492		ug/L	53.748
121 Sb	0.002550	150.809		329.674		ug/L	329.340
137 Ba	0.242198	5.777		931.040		ug/L	281.339
> 165 Ho-2				1248077.638		ug/L	1276105.159
182 W	0.058052	9.079		776.029		ug/L	457.679
183 W	0.060528	8.354		436.011		ug/L	253.338
194 Pt	0.001277	148.766		80.668		ug/L	76.668
195 Pt	0.004822	16.845		69.001		ug/L	48.001
203 Tl	0.018659	113.195		901.371		ug/L	780.029
206 Pb	-0.045250	12.295		584.351		ug/L	888.037
207 Pb	-0.044677	16.137		494.014		ug/L	745.027
> 45 Sc				453678.475		ug/L	467697.114
47 Ti	-0.047761	131.632		598.019		ug/L	647.355
86 Sr	282.133871	0.883		600257.651		ug/L	151.307
88 Sr	278.937825	0.723		5094499.952		ug/L	1301.072
> 115 In				951790.337		ug/L	994304.053
118 Sn	-0.010165	5.428		292.339		ug/L	357.341

[ 120 Sn -0.008637 21.735 410.814 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		
[ B	10		
[ Na	23		
[ Mg	24		
[ Al	27		
[ K	39		
[ Ca	44		
> Sc-1	45	97.003	
[ V	51		
[ Cr	52		
[ Mn	55		
[ Fe	57		
[ Co	59		
[ Ni	60		
[ Cu	65		
[ Zn	66		
> Ge-1	72	94.384	
[ As	75		
[ Se	82		
[ Mo	97		
[ Ag	107		
[ Cd	111		
> In-1	115	95.724	
[ Sb	123		
[ Ba	135		
> Ho-1	165	97.804	
[ Tl	205		
[ Pb	208		
[ U	238		
> Sc-2	45	97.003	
[ Cr	53		
[ Fe	54		
[ Ni	61		
[ Cu	63		
[ Zn	67		
> Ge	72	94.384	
[ Se	77		
[ Mo	98		
[ Ag	109		
> In-2	115	95.724	
[ Cd	114		
[ Sb	121		
[ Ba	137		
> Ho-2	165	97.804	
[ W	182		
[ W	183		
[ Pt	194		
[ Pt	195		
[ Tl	203		
[ Pb	206		
[ Pb	207		
> Sc	45	97.003	
[ Tl	47		
[ Sr	86		
[ Sr	88		
> In	115	95.724	
[ Sn	118		
[ Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRH5

Sample Date/Time: Thursday, May 24, 2007 22:56:12

Autosampler Position: 97

Dataset File: D:\Elandata\Dataset\052407m1\JWRH5.142

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
9 Be	0.003260	120.343	3.333	ug/L	3.000
10 B	186.892895	2.055	6266.771	ug/L	90.668
23 Na	25351.741607	2.084	113524209.440	ug/L	24909.622
24 Mg	4032.600598	2.627	12278276.457	ug/L	6273.773
27 Al	0.395099	10.926	16233.381	ug/L	15227.265
39 K	302.476792	2.617	2648107.020	ug/L	707925.205
44 Ca	11647.553255	0.137	2612766.480	ug/L	48369.900
> 45 Sc-1			445602.335	ug/L	467697.114
51 V	1.102243	25.741	-7823.220	ug/L	-17188.401
52 Cr	30.939074	0.988	240818.903	ug/L	43700.177
55 Mn	0.550052	3.518	9148.354	ug/L	3939.583
57 Fe	-25.673934	5.703	1715.941	ug/L	6563.304
59 Co	0.029815	6.975	274.005	ug/L	70.668
60 Ni	0.319477	3.911	677.023	ug/L	205.004
65 Cu	0.167029	10.803	492.347	ug/L	201.670
66 Zn	-0.741097	5.069	2624.934	ug/L	3569.482
> 72 Ge-1			548338.288	ug/L	592936.498
75 As	4.542362	10.804	5382.072	ug/L	-502.888
82 Se	0.222873	45.509	-34.455	ug/L	-70.642
97 Mo	0.773216	1.260	1378.080	ug/L	69.001
107 Ag	0.001167	163.001	110.668	ug/L	109.002
111 Cd	-0.003467	56.472	27.667	ug/L	35.667
> 115 In-1			929939.642	ug/L	994304.053
123 Sb	0.016433	17.243	290.306	ug/L	235.401
135 Ba	0.220766	3.733	520.015	ug/L	183.670
> 165 Ho-1			1215678.662	ug/L	1276105.159
205 Tl	0.012928	136.163	2067.839	ug/L	1936.818
208 Pb	-0.046038	8.995	2248.759	ug/L	3500.871
238 U	1.275045	1.645	19344.616	ug/L	35.667
> 45 Sc-2			445602.335	ug/L	467697.114
53 Cr	14.256308	83.482	312838.537	ug/L	319041.768
54 Fe	1.578941	498.691	41619.443	ug/L	42890.999
61 Ni	2.608145	23.115	1196.729	ug/L	1069.051
63 Cu	0.156836	4.042	861.035	ug/L	321.674
67 Zn	-6.136975	27.112	19358.301	ug/L	21519.078
> 72 Ge			548338.288	ug/L	592936.498
77 Se	-12.893242	12.986	11067.450	ug/L	13366.987
98 Mo	0.794467	0.478	3560.244	ug/L	95.062
109 Ag	0.000818	122.871	118.335	ug/L	120.002
> 115 In-2			929939.642	ug/L	994304.053
114 Cd	-0.001001	85.369	46.605	ug/L	53.748
121 Sb	0.000525	805.002	311.007	ug/L	329.340
137 Ba	0.236177	4.847	891.037	ug/L	281.339
> 165 Ho-2			1215678.662	ug/L	1276105.159
182 W	0.049611	24.433	709.358	ug/L	457.679
183 W	0.045860	26.750	380.009	ug/L	253.338
194 Pt	0.005352	44.067	96.335	ug/L	76.868
195 Pt	0.005828	24.764	71.668	ug/L	48.001
203 Tl	0.011521	113.886	827.366	ug/L	780.029
206 Pb	-0.041363	13.012	593.018	ug/L	888.037
207 Pb	-0.049886	6.369	455.012	ug/L	745.027
> 45 Sc			445602.335	ug/L	467697.114
47 Ti	0.007935	233.396	621.686	ug/L	647.355
86 Sr	264.381733	0.641	552478.323	ug/L	151.307
88 Sr	258.258296	2.031	4632088.797	ug/L	1301.072
> 115 In			929939.642	ug/L	994304.053
118 Sn	-0.012266	26.593	275.672	ug/L	357.341



[ 120 Sn -0.011432 44.285 383.547 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte Mass	Int Std % Recovery	QC Std % Recovery
Be 9		
B 10		
Na 23		
Mg 24		
Al 27		
K 39		
Ca 44		
> Sc-1 45	95.276	
V 51		
Cr 52		
Mn 55		
Fe 57		
Co 59		
Ni 60		
Cu 65		
[ Zn 66		
> Ge-1 72	92.478	
As 75		
[ Se 82		
[ Mo 97		
[ Ag 107		
[ Cd 111		
> In-1 115	93.527	
[ Sb 123		
[ Ba 135		
> Ho-1 165	95.265	
[ Tl 205		
[ Pb 208		
[ U 238		
> Sc-2 45	95.276	
[ Cr 53		
[ Fe 54		
[ Ni 61		
[ Cu 63		
[ Zn 67		
> Ge 72	92.478	
[ Se 77		
[ Mo 98		
[ Ag 109		
> In-2 115	93.527	
[ Cd 114		
[ Sb 121		
[ Ba 137		
> Ho-2 165	95.265	
[ W 182		
[ W 183		
[ Pt 194		
[ Pt 196		
[ Tl 203		
[ Pb 206		
[ Pb 207		
> Sc 45	95.276	
[ Ti 47		
[ Sr 86		
[ Sr 88		
> In 115	93.527	
[ Sn 118		
[ Sn 120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRH6

Sample Date/Time: Thursday, May 24, 2007 23:02:18

Autosampler Position: 98

Dataset File: D:\Elandata\Dataset\052407m1\JWRH6.143

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.012672	86.689		4.667	ug/L	3.000	
10 B	193.389017	2.563		6452.856	ug/L	90.668	
23 Na	26560.822679	1.656		118432452.737	ug/L	24909.622	
24 Mg	4262.367950	2.156		12923202.446	ug/L	6273.773	
27 Al	1.257511	1.524		19914.070	ug/L	15227.265	
39 K	313.280592	1.910		2706531.609	ug/L	707925.205	
44 Ca	12315.528169	0.101		2747652.927	ug/L	48369.900	
> 45 Sc-1				443609.388	ug/L	467697.114	
51 V	0.841271	59.601		-9749.975	ug/L	-17188.401	
52 Cr	32.841322	1.483		251905.441	ug/L	43700.177	
55 Mn	0.637343	5.153		9958.237	ug/L	3939.583	
57 Fe	-24.596730	7.210		1895.465	ug/L	6563.304	
59 Co	0.032447	14.325		290.673	ug/L	70.668	
60 Ni	0.335831	4.836		698.691	ug/L	205.004	
65 Cu	0.181194	6.078		516.014	ug/L	201.670	
66 Zn	-0.703997	9.332		2651.939	ug/L	3569.482	
> 72 Ge-1				541647.692	ug/L	592936.498	
75 As	4.120517	6.069		4781.170	ug/L	-502.888	
82 Se	0.065040	338.576		-55.631	ug/L	-70.642	
97 Mo	0.798910	4.305		1399.749	ug/L	69.001	
107 Ag	0.000941	328.419		107.335	ug/L	109.002	
111 Cd	-0.003813	43.658		26.667	ug/L	35.667	
> 115 In-1				915563.538	ug/L	994304.053	
123 Sb	0.015924	12.653		283.675	ug/L	235.401	
135 Ba	0.267879	4.226		585.018	ug/L	183.670	
> 165 Ho-1				1197744.668	ug/L	1276105.159	
205 Tl	0.003965	430.628		1885.479	ug/L	1936.818	
208 Pb	-0.043912	6.449		2265.759	ug/L	3500.871	
238 U	1.335701	0.850		19967.479	ug/L	35.667	
> 45 Sc-2				443609.388	ug/L	467697.114	
53 Cr	26.539893	19.000		319156.338	ug/L	319041.768	
54 Fe	1.486512	749.859		41320.639	ug/L	42890.999	
61 Ni	3.263869	26.059		1235.066	ug/L	1069.051	
63 Cu	0.179344	3.278		936.707	ug/L	321.674	
67 Zn	-4.675144	20.362		19544.892	ug/L	21519.078	
> 72 Ge				541647.692	ug/L	592936.498	
77 Se	-9.479327	15.635		11271.357	ug/L	13366.987	
98 Mo	0.831745	1.415		3665.307	ug/L	95.062	
109 Ag	-0.000933	52.160		103.668	ug/L	120.002	
> 115 In-2				915563.538	ug/L	994304.053	
114 Cd	-0.000333	1006.340		48.272	ug/L	53.748	
121 Sb	0.002817	129.136		318.673	ug/L	329.340	
137 Ba	0.257914	8.259		934.707	ug/L	281.339	
> 165 Ho-2				1197744.668	ug/L	1276105.159	
182 W	0.048958	15.066		695.357	ug/L	457.679	
183 W	0.052453	15.714		394.343	ug/L	253.338	
194 Pt	0.005230	32.751		94.335	ug/L	76.668	
195 Pt	0.004320	40.683		64.001	ug/L	48.001	
203 Tl	0.013648	127.778		830.366	ug/L	780.029	
206 Pb	-0.038505	15.151		601.685	ug/L	888.037	
207 Pb	-0.043577	15.046		480.013	ug/L	745.027	
> 45 Sc				443609.388	ug/L	467697.114	
47 Ti	0.074676	5.234		659.688	ug/L	647.355	
86 Sr	277.136124	1.901		576439.800	ug/L	151.307	
88 Sr	266.571605	0.348		4760586.058	ug/L	1301.072	
> 115 In				915563.538	ug/L	994304.053	
118 Sn	-0.011346	16.352		275.672	ug/L	357.341	

[ 120 Sn -0.012597 32.263 369.849 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte Mass	Int Std % Recovery	QC Std % Recovery
[ Be 9		
[ B 10		
[ Na 23		
[ Mg 24		
[ Al 27		
[ K 39		
[ Ca 44		
> Sc-1 45	94.850	
[ V 51		
[ Cr 52		
[ Mn 55		
[ Fe 57		
[ Co 59		
[ Ni 60		
[ Cu 65		
[ Zn 66		
> Ge-1 72	91.350	
[ As 75		
[ Se 82		
[ Mo 97		
[ Ag 107		
[ Cd 111		
> In-1 115	92.081	
[ Sb 123		
[ Ba 135		
> Ho-1 165	93.859	
[ Tl 205		
[ Pb 208		
[ U 238		
> Sc-2 45	94.850	
[ Cr 53		
[ Fe 54		
[ Ni 61		
[ Cu 63		
[ Zn 67		
> Ge 72	91.350	
[ Se 77		
[ Mo 98		
[ Ag 109		
> In-2 115	92.081	
[ Cd 114		
[ Sb 121		
[ Ba 137		
> Ho-2 165	93.859	
[ W 182		
[ W 183		
[ Pt 194		
[ Pt 195		
[ Tl 203		
[ Pb 208		
[ Pb 207		
> Sc 45	94.850	
[ Tl 47		
[ Sr 86		
[ Sr 88		
> In 115	92.081	
[ Sn 118		
[ Sn 120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRH8

Sample Date/Time: Thursday, May 24, 2007 23:08:25

Autosampler Position: 99

Dataset File: D:\Elandata\Dataset\052407m1\JWRH8.144

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	0.013477	51.011		5.000	ug/L	3.000	
10 B	7.298798	19.831		340.007	ug/L	90.668	
23 Na	388.029863	0.894		1828420.197	ug/L	24909.622	
24 Mg	106.165346	0.442		341715.687	ug/L	6273.773	
27 Al	40.029636	1.410		196720.906	ug/L	15227.265	
39 K	87.391334	1.615		1292343.154	ug/L	707925.205	
44 Ca	379.364212	1.777		134840.678	ug/L	48369.900	
> 45 Sc-1				462609.842	ug/L	467697.114	
51 V	-3.249587	18.886		-43217.930	ug/L	-17188.401	
52 Cr	2.221785	9.713		58081.157	ug/L	43700.177	
55 Mn	24.650406	2.053		254918.359	ug/L	3939.583	
57 Fe	30.090677	7.289		12009.337	ug/L	6563.304	
59 Co	0.283109	2.485		2106.176	ug/L	70.668	
60 Ni	0.249795	13.858		593.685	ug/L	205.004	
65 Cu	0.667614	2.486		1446.421	ug/L	201.670	
66 Zn	17.043701	1.210		22051.226	ug/L	3569.482	
> 72 Ge-1				579388.238	ug/L	592936.498	
75 As	-1.060773	74.163		-1930.705	ug/L	-502.888	
82 Se	0.338405	40.125		-19.337	ug/L	-70.642	
97 Mo	0.036436	9.313		131.335	ug/L	69.001	
107 Ag	0.005210	51.029		145.669	ug/L	109.002	
111 Cd	0.021991	38.503		72.001	ug/L	35.667	
> 115 In-1				965603.357	ug/L	994304.053	
123 Sb	0.020692	21.402		320.239	ug/L	235.401	
135 Ba	1.848429	1.905		3178.052	ug/L	183.670	
> 165 Ho-1				1260622.932	ug/L	1276105.159	
205 Tl	0.024481	45.977		2356.886	ug/L	1936.818	
208 Pb	0.601113	0.869		18154.353	ug/L	3500.871	
238 U	0.008492	4.247		168.669	ug/L	35.667	
> 45 Sc-2				462609.842	ug/L	467697.114	
53 Cr	166.017517	14.253		423786.635	ug/L	319041.768	
54 Fe	106.433482	6.727		93348.460	ug/L	42890.999	
61 Ni	1.145699	35.746		1138.390	ug/L	1069.051	
63 Cu	0.666672	1.357		2765.629	ug/L	321.674	
67 Zn	57.819656	15.105		32456.240	ug/L	21519.078	
> 72 Ge				579388.238	ug/L	592936.498	
77 Se	42.049647	20.006		17523.393	ug/L	13366.987	
98 Mo	0.035518	9.582		253.339	ug/L	95.062	
109 Ag	0.004265	30.343		149.336	ug/L	120.002	
> 115 In-2				965603.357	ug/L	994304.053	
114 Cd	0.020696	14.277		130.742	ug/L	53.748	
121 Sb	0.014434	35.214		402.676	ug/L	329.340	
137 Ba	1.927649	0.601		5552.801	ug/L	281.339	
> 165 Ho-2				1260622.932	ug/L	1276105.159	
182 W	0.007476	53.051		495.014	ug/L	457.879	
183 W	0.012297	36.959		289.006	ug/L	253.338	
194 Pt	0.003015	23.173		89.335	ug/L	76.668	
195 Pt	0.003934	54.836		65.667	ug/L	48.001	
203 Tl	0.027762	42.345		982.044	ug/L	780.029	
206 Pb	0.595715	3.329		4650.470	ug/L	888.037	
207 Pb	0.602992	1.326		3929.913	ug/L	745.027	
> 45 Sc				462609.842	ug/L	467697.114	
47 Ti	1.390479	7.067		1527.764	ug/L	647.355	
86 Sr	2.240787	2.126		5010.433	ug/L	151.307	
88 Sr	2.254879	2.238		43267.200	ug/L	1301.072	
> 115 In				965603.357	ug/L	994304.053	
118 Sn	0.139755	6.657		1041.048	ug/L	357.341	

[ 120 Sn 0.144717- 4.893 1443.391 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Be	9		
B	10		
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	98.912	
V	51		
Cr	52		
Mn	55		
Fe	57		
Co	59		
Ni	60		
Cu	65		
Zn	66		
> Ge-1	72	97.715	
As	75		
Se	82		
Mo	97		
Ag	107		
Cd	111		
> In-1	115	97.113	
Sb	123		
Ba	135		
> Ho-1	165	98.787	
Tl	206		
Pb	208		
U	238		
> Sc-2	45	98.912	
Cr	53		
Fe	54		
Ni	61		
Cu	63		
Zn	67		
> Ge	72	97.715	
Se	77		
Mo	98		
Ag	109		
> In-2	115	97.113	
Cd	114		
Sb	121		
Ba	137		
> Ho-2	165	98.787	
W	182		
W	183		
Pt	194		
Pt	195		
Tl	203		
Pb	206		
Pb	207		
> Sc	45	98.912	
Tl	47		
Sr	86		
Sr	88		
> In	115	97.113	
Sn	118		
Sn	120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRH9

Sample Date/Time: Thursday, May 24, 2007 23:14:33

Autosampler Position: 100

Dataset File: D:\Elandata\Dataset\052407m1\JWRH9.145

## Sample Result Summary

	Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	9 Be	0.002191	166.970			3.333	ug/L	3.000
	10 B	4.270750	8.931			238.671	ug/L	90.668
	23 Na	388.126849	0.304		1847149.546		ug/L	24909.622
	24 Mg	39.984777	1.570		133891.018		ug/L	6273.773
	27 Al	1.475283	3.702		21971.436		ug/L	15227.265
	39 K	66.126204	4.330		1159589.735		ug/L	707925.205
	44 Ca	255.957638	1.365		107454.348		ug/L	48369.900
>	45 Sc-1				467210.611		ug/L	467697.114
	51 V	-1.470701	16.990		-29155.742		ug/L	-17188.401
	52 Cr	1.715822	16.752		55229.502		ug/L	43700.177
	55 Mn	4.835657	1.947		53669.168		ug/L	3939.583
	57 Fe	2.244191	27.593		6971.838		ug/L	6563.304
	59 Co	0.122964	2.845		963.709		ug/L	70.668
	60 Ni	0.220961	9.642		554.016		ug/L	205.004
	65 Cu	0.378502	4.312		915.372		ug/L	201.670
	66 Zn	10.883593	1.957		15509.904		ug/L	3569.482
>	72 Ge-1				575031.098		ug/L	592936.498
	75 As	-0.862398	37.256		-1652.869		ug/L	-502.888
	82 Se	-0.067681	116.394		-78.346		ug/L	-70.642
	97 Mo	0.028279	11.452		119.002		ug/L	69.001
	107 Ag	0.001054	80.312		116.002		ug/L	109.002
	111 Cd	0.012530	42.993		57.001		ug/L	35.667
>	115 In-1				983248.137		ug/L	994304.053
	123 Sb	0.034916	12.108		390.496		ug/L	235.401
	135 Ba	0.708882	6.625		1354.078		ug/L	183.670
>	165 Ho-1				1283401.716		ug/L	1276105.159
	205 Tl	0.025598	72.337		2415.230		ug/L	1936.818
	208 Pb	0.139492	4.163		6992.080		ug/L	3500.871
	238 U	0.004458	41.355		107.001		ug/L	35.667
>	45 Sc-2				467210.611		ug/L	467697.114
	53 Cr	115.955595	17.851		394946.765		ug/L	319041.768
	54 Fe	74.123043	8.144		78683.522		ug/L	42890.999
	61 Ni	1.122175	38.539		1148.058		ug/L	1069.051
	63 Cu	0.396087	4.896		1790.130		ug/L	321.674
	67 Zn	37.901518	16.802		28882.486		ug/L	21519.078
>	72 Ge				575031.098		ug/L	592936.498
	77 Se	38.459374	7.959		17012.984		ug/L	13366.987
	98 Mo	0.026383	8.018		215.848		ug/L	95.062
	109 Ag	0.001232	144.652		128.335		ug/L	120.002
>	115 In-2				983248.137		ug/L	994304.053
	114 Cd	0.022799	20.569		141.340		ug/L	53.748
	121 Sb	0.029994	33.088		501.014		ug/L	329.340
	137 Ba	0.701898	1.345		2238.198		ug/L	281.339
>	165 Ho-2				1283401.716		ug/L	1276105.159
	182 W	-0.002950	302.225		442.678		ug/L	457.679
	183 W	-0.003310	245.940		244.005		ug/L	253.338
	194 Pt	0.000711	161.807		80.334		ug/L	76.668
	195 Pt	0.001439	69.566		55.001		ug/L	48.001
	203 Tl	0.026966	63.145		991.711		ug/L	780.029
	206 Pb	0.133529	4.268		1754.459		ug/L	888.037
	207 Pb	0.138317	5.372		1494.760		ug/L	745.027
>	45 Sc				467210.611		ug/L	467697.114
	47 Ti	0.094963	59.381		708.025		ug/L	647.355
	86 Sr	2.072960	2.832		4691.613		ug/L	151.307
	88 Sr	2.099331	1.374		40775.188		ug/L	1301.072
>	115 In				983248.137		ug/L	994304.053
	118 Sn	0.094810	7.299		832.366		ug/L	357.341

[ 120 Sn 0.095734 8.595 1135.720 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte Mass	Int Std % Recovery	QC Std % Recovery
[ Be 9		
[ B 10		
[ Na 23		
[ Mg 24		
[ Al 27		
[ K 39		
[ Ca 44		
[> Sc-1 45	98.898	
[ V 51		
[ Cr 52		
[ Mn 55		
[ Fe 57		
[ Co 59		
[ Ni 60		
[ Cu 65		
[ Zn 66		
[> Ge-1 72	96.980	
[ As 75		
[ Se 82		
[ Mo 97		
[ Ag 107		
[ Cd 111		
[> In-1 115	98.888	
[ Sb 123		
[ Ba 135		
[> Ho-1 165	100.572	
[ Tl 205		
[ Pb 208		
[ U 238		
[> Sc-2 45	99.896	
[ Cr 53		
[ Fe 54		
[ Ni 61		
[ Cu 63		
[ Zn 67		
[> Ge 72	96.980	
[ Se 77		
[ Mo 98		
[ Ag 109		
[> In-2 115	98.888	
[ Cd 114		
[ Sb 121		
[ Ba 137		
[> Ho-2 165	100.572	
[ W 182		
[ W 183		
[ Pt 194		
[ Pt 195		
[ Tl 203		
[ Pb 208		
[ Pb 207		
[> Sc 45	99.896	
[ Tl 47		
[ Sr 86		
[ Sr 88		
[> In 115	98.888	
[ Sn 118		
[ Sn 120		

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6

Sample Date/Time: Thursday, May 24, 2007 23:20:42

Autosampler Position: 7

Dataset File: D:\Elandata\Dataset\052407m1\QC Std 6.146

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
9 Be	185.981676		0.778		27626.297	ug/L	3.000
10 B	184.857490		3.243		6322.463	ug/L	90.668
23 Na	1920.251024		2.733		8791665.534	ug/L	24909.622
24 Mg	983.602419		2.732		3059081.534	ug/L	6273.773
27 Al	1923.688511		1.956		8589911.517	ug/L	15227.265
39 K	1849.393637		1.140		12995122.615	ug/L	707925.205
44 Ca	1037.822788		1.927		280194.602	ug/L	48369.900
> 45 Sc-1					454446.868	ug/L	467697.114
51 V	172.359759		1.952		1350263.007	ug/L	-17188.401
52 Cr	187.223147		1.933		1271494.790	ug/L	43700.177
55 Mn	184.432541		0.888		1848878.765	ug/L	3939.583
57 Fe	2062.932990		1.375		378069.743	ug/L	6563.304
59 Co	186.017179		2.307		1313929.918	ug/L	70.668
60 Ni	181.789484		2.198		279679.720	ug/L	205.004
65 Cu	181.194308		2.917		332597.119	ug/L	201.670
66 Zn	180.874556		2.195		196521.499	ug/L	3569.482
> 72 Ge-1					545906.736	ug/L	592936.498
75 As	195.172887		1.132		249733.683	ug/L	-502.888
82 Se	194.814837		0.344		26866.648	ug/L	-70.642
97 Mo	192.729254		2.392		331008.500	ug/L	69.001
107 Ag	47.895771		1.372		357941.692	ug/L	109.002
111 Cd	194.218577		1.014		322317.270	ug/L	35.667
> 115 In-1					940154.108	ug/L	994304.053
123 Sb	190.713790		1.293		823675.574	ug/L	235.401
135 Ba	184.826841		1.570		290233.858	ug/L	183.670
> 165 Ho-1					1220421.694	ug/L	1276105.159
205 Tl	181.880698		0.942		3180902.409	ug/L	1936.818
208 Pb	191.306201		2.100		4530616.531	ug/L	3500.871
238 U	187.896167		1.097		2857234.365	ug/L	35.667
> 45 Sc-2					454446.868	ug/L	467697.114
53 Cr	157.012404		9.551		410395.290	ug/L	319041.768
54 Fe	2037.846655		2.083		999653.709	ug/L	42890.999
61 Ni	184.006794		2.760		13833.166	ug/L	1069.051
63 Cu	183.332784		1.465		661435.043	ug/L	321.674
67 Zn	172.146422		2.576		53548.701	ug/L	21519.078
> 72 Ge					545906.736	ug/L	592936.498
77 Se	193.965594		2.717		31684.831	ug/L	13366.987
98 Mo	192.120038		1.903		848557.128	ug/L	95.062
109 Ag	47.737031		2.986		358181.138	ug/L	120.002
> 115 In-2					940154.108	ug/L	994304.053
114 Cd	193.557825		2.378		715644.246	ug/L	53.748
121 Sb	193.111164		1.471		1080613.046	ug/L	329.340
137 Ba	189.429682		0.778		502108.531	ug/L	281.339
> 165 Ho-2					1220421.694	ug/L	1276105.159
182 W	188.621749		0.577		1043852.490	ug/L	457.679
183 W	189.858645		0.724		577617.713	ug/L	253.338
194 Pt	191.459708		0.721		835118.512	ug/L	76.668
195 Pt	190.743686		0.976		852956.291	ug/L	48.001
203 Tl	185.877274		1.244		1367104.545	ug/L	780.029
206 Pb	198.507458		2.174		1217938.945	ug/L	888.037
207 Pb	192.438236		2.708		967191.933	ug/L	745.027
> 45 Sc					454446.868	ug/L	467697.114
47 Ti	192.059192		1.573		120986.031	ug/L	647.355
86 Sr	188.742523		2.057		402218.550	ug/L	151.307
88 Sr	182.866047		0.888		3345749.764	ug/L	1301.072
> 115 In					940154.108	ug/L	994304.053
118 Sn	191.684386		0.653		926585.122	ug/L	357.341



[ 120 Sn 191.248461 1.628 1246522.769 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Be	9		92.991
[ B	10		92.429
[ Na	23		96.013
[ Mg	24		98.380
[ Al	27		96.184
[ K	39		92.470
[ Ca	44		103.782
> Sc-1	45	97.167	
[ V	51		86.180
[ Cr	52		93.612
[ Mn	55		92.216
[ Fe	57		103.147
[ Co	59		93.009
[ Ni	60		90.895
[ Cu	65		90.597
[ Zn	66		90.437
> Ge-1	72	92.068	
[ As	75		97.586
[ Se	82		97.407
[ Mo	97		96.365
[ Ag	107		95.782
[ Cd	111		97.109
> In-1	115	94.554	
[ Sb	123		95.357
[ Ba	135		92.413
> Ho-1	165	95.636	
[ Tl	205		98.940
[ Pb	206		95.653
[ U	238		93.948
> Sc-2	45	97.167	
[ Cr	53		78.506
[ Fe	54		101.892
[ Ni	61		92.003
[ Cu	63		91.666
[ Zn	67		86.073
> Ge	72	92.068	
[ Se	77		96.883
[ Mo	98		98.060
[ Ag	109		95.474
> In-2	115	94.554	
[ Cd	114		96.779
[ Sb	121		96.556
[ Ba	137		94.715
> Ho-2	165	95.636	
[ W	182		94.311
[ W	183		94.929
[ Pt	194		95.730
[ Pt	195		95.372
[ Tl	203		92.939
[ Pb	206		99.254
[ Pb	207		96.219
> Sc	45	97.167	
[ Ti	47		96.030
[ Sr	86		94.371
[ Sr	88		91.433
> In	115	94.554	
[ Sn	118		95.842
[ Sn	120		95.624

**QC Out Of Limits**

Analyte	Mass	Out of Limits	Message
V	51	Q	
Cr	63	Q	
Zn	67	Q	

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 7

Sample Date/Time: Thursday, May 24, 2007 23:27:19

Autosampler Position: 1

Dataset File: D:\Elandata\Dataset\052407m1\QC Std 7.147

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
9 Be	0.018962	91.786	5.667	ug/L	3.000
10 B	3.329003	28.916	198.670	ug/L	90.668
23 Na	-0.222653	19.008	22976.693	ug/L	24909.622
24 Mg	-0.016863	95.852	5989.315	ug/L	6273.773
27 Al	-0.586675	8.860	12069.551	ug/L	15227.265
39 K	-0.947091	178.312	675352.864	ug/L	707925.205
44 Ca	-26.541966	7.203	40661.191	ug/L	48369.900
> 45 Sc-1			450338.450	ug/L	467697.114
51 V	0.965411	18.442	-8969.197	ug/L	-17188.401
52 Cr	-1.197655	8.810	34282.098	ug/L	43700.177
55 Mn	-0.138526	5.801	2419.562	ug/L	3939.583
57 Fe	-3.336204	6.794	5723.725	ug/L	6563.304
59 Co	0.006390	53.546	112.668	ug/L	70.668
60 Ni	0.005711	245.456	206.004	ug/L	205.004
65 Cu	0.002446	151.479	198.670	ug/L	201.670
66 Zn	-0.635847	8.889	2764.295	ug/L	3569.482
> 72 Ge-1			556059.103	ug/L	592936.498
75 As	0.438407	39.869	101.278	ug/L	-502.888
82 Se	0.005270	3541.575	-65.431	ug/L	-70.642
97 Mo	0.092852	27.176	226.671	ug/L	69.001
107 Ag	0.006468	40.722	152.669	ug/L	109.002
111 Cd	0.012741	38.256	55.334	ug/L	35.667
> 115 In-1			947551.952	ug/L	994304.053
123 Sb	0.040157	30.975	399.296	ug/L	235.401
135 Ba	-0.006962	74.774	164.669	ug/L	183.670
> 165 Ho-1			1221057.898	ug/L	1276105.159
205 Tl	0.306241	36.980	7243.686	ug/L	1936.818
208 Pb	-0.019879	2.466	2879.143	ug/L	3500.871
238 U	0.009642	8.277	181.003	ug/L	35.667
> 45 Sc-2			450338.450	ug/L	467697.114
53 Cr	-66.753401	13.544	264844.038	ug/L	319041.768
54 Fe	-3.802089	135.523	39530.893	ug/L	42890.999
61 Ni	-0.256094	12.160	1011.713	ug/L	1069.051
63 Cu	-0.002812	167.840	299.673	ug/L	321.674
67 Zn	-5.077005	16.080	19765.529	ug/L	21519.078
> 72 Ge			556059.103	ug/L	592936.498
77 Se	-37.041442	10.709	8767.550	ug/L	13366.987
98 Mo	0.092272	26.559	501.854	ug/L	95.062
109 Ag	0.024041	24.051	296.339	ug/L	120.002
> 115 In-2			947551.952	ug/L	994304.053
114 Cd	0.014963	4.758	106.984	ug/L	53.748
121 Sb	0.033634	19.531	503.681	ug/L	329.340
137 Ba	0.000219	5354.211	270.339	ug/L	281.339
> 165 Ho-2			1221057.898	ug/L	1276105.159
182 W	0.246442	24.490	1807.803	ug/L	457.679
183 W	0.233777	25.600	957.043	ug/L	253.338
194 Pt	0.004712	26.946	94.001	ug/L	76.668
195 Pt	0.008690	47.885	85.001	ug/L	48.001
203 Tl	0.310324	36.140	3043.041	ug/L	780.029
206 Pb	-0.018039	4.944	739.027	ug/L	888.037
207 Pb	-0.019289	13.712	614.019	ug/L	745.027
> 45 Sc			450338.450	ug/L	467697.114
47 Tl	-0.129196	22.112	543.016	ug/L	647.355
86 Sr	-0.006111	299.221	132.656	ug/L	151.307
88 Sr	0.001168	367.174	1274.070	ug/L	1301.072
> 115 In			947551.952	ug/L	994304.053
118 Sn	0.032246	28.958	497.680	ug/L	357.341

120 Sn 0.033124 22.417 683.403 ug/L 488.632

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Be	9		1.896
B	10		332.900
Na	23		-0.223
Mg	24		-0.017
Al	27		-0.587
K	39		-0.947
Ca	44		-26.542
> Sc-1	45	96.288	
V	51		96.541
Cr	52		-119.766
Mn	55		-13.853
Fe	57		-3.336
Co	59		0.639
Ni	60		0.571
Cu	65		0.245
Zn	66		-63.585
> Ge-1	72	93.781	
As	75		43.841
Se	82		0.527
Mo	97		9.285
Ag	107		0.847
Cd	111		1.274
> In-1	115	95.298	
Sb	123		4.016
Ba	135		-0.696
> Ho-1	165	95.686	
Tl	205		30.624
Pb	208		-1.988
U	238		0.964
> Sc-2	45	96.288	
Cr	53		-6675.340
Fe	54		-3.802
Ni	61		-25.609
Cu	63		-0.281
Zn	67		-507.700
> Ge	72	93.781	
Se	77		-3704.144
Mo	98		9.227
Ag	109		2.404
> In-2	115	95.298	
Cd	114		1.498
Sb	121		3.363
Ba	137		0.022
> Ho-2	165	95.686	
W	182		24.644
W	183		23.378
Pt	194		0.471
Pt	195		0.869
Tl	203		31.032
Pb	206		-1.804
Pb	207		-1.829
> Sc	45	96.288	
Tl	47		-12.920
Sr	86		-0.811
Sr	88		0.117
> In	115	95.298	
Sn	118		3.225
Sn	120		3.312

**QC Out Of Limits**

Analyte	Mass	Out of Limits Message
B	10	Q
Cr	52	Q
Cr	53	Q
Zn	67	Q
Se	77	Q

5/25/07

file: 052507ml

# Sample/Batch Report

STL ST. LOUIS - PERKIN ELMER ELAN 6100 - METHOD 6020 / 200.8 QUANTITATIVE ANALYSIS REP

User Name: stlmetals  
 Computer Name: SLICP03  
 Sample File: d:\Elandata\Sample\SW846 TEMP.sam  
 Report Date/Time: Friday, May 25, 2007 17:29:51  
 Method File: d:\Elandata\Method\epa temp.mth  
 Tuning File: d:\Elandata\Tuning\EPA TUNING.tun  
 Optimization File: d:\Elandata\Optimize\EPA.dac  
 Calibration File:  
 Calibration Type: External Calibration  
 Number of Replicates: 3  
 Number of Readings: 1  
 Number of Sweeps: 10  
 Dual Detector Mode: Dual

stl. ns 052107

A/S Loc.	Batch ID	Sample ID	Description	Aliquot Vol.	Diluted Vol.
24	7134307	JWXAHB			
25	7134307	JWXAHC			
26	7134307	JWPA2	10X		
27	7134307	JWPA2S	10X		
28	7134307	JWPA2D	10X		
29	7134307	JWPA2V	50X		
30	7134307	JWPA3	10X		
31	7134307	JWPA3S	10X		
32	7134307	JWPA3D	10X		
33	7134307	JWPA4	10X		
34	7134307	JWPA5	50X		
35	7134307	JWPA6	50X		
36	7134307	JWPA7	50X		
37	7134307	JWPA8	25X		
38	7134307	JWPA9	25X		
39	7134307	JWPCA	25X		
40	7134307	JWPCD	50X		
41	7134307	JWPCF	50X		
42	7134307	JWPCG	50X		
43	7134307	JWPCK	50X		
44	7134307	JWPCN	50X		
45	7134307	JWPCP			
46	7136319	JW3MAB			
47	7136319	JW3MAC			
48	7136319	JWN8W	50X		
49	7136319	JWN8WS	50X		
50	7136319	JWN8WD	50X		
51	7136319	JWN8WV	250X		
52	7136319	JWN9G	50X		
53	7136319	JWN9J	50X		
54	7136319	JWN9K	50X		
55	7136319	JWN9L	50X		
56	7136319	JWN9T	50X		
57	7135271				
58	7135271	JW057C			
59	7135271	JW0G7	50X		
60	7135271	JW0G7S	50X		
61	7135271	JW0G7D	50X		
62	7135271	JW0G7V	250X		
63	7135271	JW0G9	50X		
64	7135271	JW0HA	100X		

Zn, TI

ca v

Zn

ca v

Zn, V

Zn, V

ca v

Zn, V, Ba, TI

ca v

65	7135271	JW0HC	100X
66	7135271	JW0HD	100X
67	7135271	JW0HE	25X
68	7135271	JW0HF	25X
69	7135271	JW0HJ	25X
70	7135271	JW0HK	100X
71	7135271	JW0HL	100X
72	7135271	JW0HN	100X
73	7135271	JW0HE	25X
74	7136320	JW3MLB	
75	7136320	JW3MLC	
76	7136320	JWRGX	20X
77	7136320	JWRGXS	20X
78	7136320	JWRGXD	20X
79	7136320	JWRGXV	100X
80	7136320	JWRG3	20X
81	7136320	JWRG3S	20X
82	7136320	JWRG3D	20X
83	7136320	JWRG5	20X
84	7136320	JWRG7	100X
85	7136320	JWRG8	100X
86	7136320	JWRHC	100X
87	7136320	JWRHD	50X
88	7136320	JWRHH	50X
89	7136320	JWRHL	50X
90	7136320	JWRHR	50X
91	7136320	JWRHW	50X
92	7136320	JWRHX	50X
93	7136320	JWRH0	50X
94	7136320	JWRH1	50X
95	7136320	JWRH2	50X
96	7136320	JWRH3	50X
97	7136320	JWRH5	50X
98	7136320	JWRH6	50X
99	7136320	JWRH8	50X
100	7136320	JWRH9	50X

Zn, V, Ba, TL

V, Ba, TL, Zn

V, Zn

7		CCV	
1		CCB	
24	7130443	JWPAFB	5X
25	7130443	JWPAFC	2X
26	7130443	JWDGX	2X
27	7130443	JWDG9D	2X
28	7130443	JWDG9S	2X
29	7130443	JWDG9V	2X
30	7130443	JWDG9V	5X
31	7138068	JW733B	2X
32	7138068	JW733C	2X
33	7138068	JWAVN	2X
34	7138068	JWAVNS	2X
35	7138068	JWAVND	2X
36	7138068	JWAVNV	2X
37	7138068	JWAWK	2X
38	7138068	JWAWN	2X
39	7136295	JW3CFB	2X
40	7136295	JW3CFC	2X
41	7136295	JV32Q	2X
42	7136295	JV32QS	2X
43	7136295	JV32QD	2X
44	7136295	JV32QV	2X
45	7137249	JW567B	2X

- read / ccv

- ccv

AU

- ccv

- ccv

46	7137249	JW567C	2X	
47	7137249	JWAWQ	2X	
48	7137249	JWAWQS	2X	
49	7137249	JWAWQD	2X	
50	7137249	JWAWQV	2X	
51	7137249	JWAW6	2X	
52	7137249	JWAXA	2X	
53	7137249	JWAXL	2X	
54	7137249	JWAXP	2X	-ccv
55	7137249	JWAXR	2X	
56	7137249	JWDHC	2X	
57	7137249	JWDHK	2X	
58	7137249	JWDHN	2X	
59	7137249	JWDHV	2X	
60	7137249	JWDHW	2X	
61	7134292	JWW9XB		
62	7134292	JWW9XC		
63	7134292	JWN2H		
64	7134292	JWN2HS		-ccv
65	7134292	JWN2HD		
66	7134292	JWN2HV	5X	
67	7134292	JWN99		
68	7134292	JWN99S		
69	7134292	JWN99D		
70	7130363	JWNM9B		AI
71	7130363	JWNM9C		
72	7130363	JWHE8		
73	7130363	JWHE8S		
74	7130363	JWHE8D		
75	7130363	JWHE8V	5X	-ccv
76	7130363	JWKRF		
77	7130363	JWKRL		
78	7130363	JWKRT		
101	7138070	JW737B	2X	
102	7138070	JW737C	5X	
103	7138070	JW6G4	2X	
104	7138070	JW6G4S	2X	
105	7138070	JW6G4D	2X	
106	7138070	JW6G4V	10X	-ccv
107	7138070	JW6HD	2X	
108	7138070	JW6HE	2X	
109	7138070	JW6HF	2X	
110	7138070	JW6HG	2X	
111	7138070	JW6HJ	2X	
112	7138070	JW6HK	2X	
113	7138070	JW6HL	2X	
114	7138070	JW6HM	2X	
115	7138070	JW6HN	2X	-ccv

## Quantitative Analysis Calibration Report

File Name: 052507M1.cal  
 File Path: D:\Elandata\System  
 Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Na	22.990	Linear Thru Zero	0.009461	0.00	0.999998
Mg	23.985	Linear Thru Zero	0.007189	0.00	0.999989
Al	26.982	Linear Thru Zero	0.010326	0.00	1.000000
K	38.964	Linear Thru Zero	0.014775	0.00	0.999999
Ca	43.956	Linear Thru Zero	0.000515	0.00	0.999878
Sc-1	44.956	Linear Thru Zero	0.000000	0.00	0.000000
V	50.944	Linear Thru Zero	0.017903	0.00	0.999997
Fe	56.935	Linear Thru Zero	0.000410	0.00	0.999757
Zn	65.926	Linear Thru Zero	0.002395	0.00	0.999976
Ge-1	71.922	Linear Thru Zero	0.000000	0.00	0.000000
As	74.922	Linear Thru Zero	0.002480	0.00	0.999999
Ba	134.906	Linear Thru Zero	0.001351	0.00	0.999992
Ho-1	164.930	Linear Thru Zero	0.000000	0.00	0.000000
Ti	204.975	Linear Thru Zero	0.014698	0.00	0.999950
Pb	207.977	Linear Thru Zero	0.020207	0.00	0.999916
U	238.050	Linear Thru Zero	0.011444	0.00	0.999780
Sc-2	44.956	Linear Thru Zero	0.000000	0.00	0.000000
Fe	53.940	Linear Thru Zero	0.001058	0.00	0.999811
Zn	66.927	Linear Thru Zero	0.000430	0.00	0.999994
Ba	136.905	Linear Thru Zero	0.002333	0.00	0.999992
Ho-2	164.930	Linear Thru Zero	0.000000	0.00	0.000000
Ti	202.972	Linear Thru Zero	0.006384	0.00	0.999975
Pb	205.975	Linear Thru Zero	0.005258	0.00	0.999979
Pb	206.976	Linear Thru Zero	0.004460	0.00	0.999981

## Quantitative Analysis Calibration Report

File Name: 052507M1A.cal  
 File Path: D:\Elandata\System  
 Calibration Type: External Calibration

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Na	22.990	Linear Thru Zero	0.009782	0.00	0.999997
Mg	23.985	Linear Thru Zero	0.007260	0.00	0.999991
Al	26.982	Linear Thru Zero	0.010078	0.00	0.999997
K	38.964	Linear Thru Zero	0.014268	0.00	0.999985
Ca	43.956	Linear Thru Zero	0.000516	0.00	0.999844
Sc-1	44.956	Linear Thru Zero	0.000000	0.00	0.000000
V	50.944	Linear Thru Zero	0.017075	0.00	0.999929
Fe	56.935	Linear Thru Zero	0.000409	0.00	0.999900
Zn	65.926	Linear Thru Zero	0.002361	0.00	0.999944
Ge-1	71.922	Linear Thru Zero	0.000000	0.00	0.000000
As	74.922	Linear Thru Zero	0.002464	0.00	0.999999
Ba	134.906	Linear Thru Zero	0.001286	0.00	0.999984
Ho-1	164.930	Linear Thru Zero	0.000000	0.00	0.000000
Tl	204.975	Linear Thru Zero	0.014225	0.00	0.999843
Pb	207.977	Linear Thru Zero	0.019892	0.00	0.999823
U	238.050	Linear Thru Zero	0.011463	0.00	0.999443
Sc-2	44.956	Linear Thru Zero	0.000000	0.00	0.000000
Fe	53.940	Linear Thru Zero	0.001010	0.00	0.999781
Zn	66.927	Linear Thru Zero	0.000418	0.00	0.999995
Ba	136.905	Linear Thru Zero	0.002231	0.00	0.999978
Ho-2	164.930	Linear Thru Zero	0.000000	0.00	0.000000
Tl	202.972	Linear Thru Zero	0.006280	0.00	0.999979
Pb	205.975	Linear Thru Zero	0.005225	0.00	0.999925
Pb	206.976	Linear Thru Zero	0.004398	0.00	0.999947



## Instrument Tuning Report

File Name: EPA TUNING.tun  
 File Path: d:\Elandata\Tuning  
 Sample ID: Sample  
 Sample Date/Time: Friday, May 25, 2007 10:25:05

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.025	603	2081	0.624	
Mg	23.985	23.979	5682	2074	0.606	
Rh	102.905	102.878	24911	2051	0.696	
Ce	139.905	139.879	33936	2105	0.633	
Pb	207.977	207.978	50420	2289	0.640	

### Replicates: 6

Meas. Intens.	RSD	Mass
0.780	2.000	
1.534	3.000	
17.994	4.000	
23.658	5.000	
22.615	22.000	
2.797	23.000	
1.122	24.000	
1.405	25.000	
1.348	26.000	
20.008	102.000	
0.979	103.000	
19.265	104.000	
4.752	139.000	
0.437	140.000	
9.454	141.000	
1.236	206.000	
0.592	207.000	
0.841	208.000	
23.485	209.000	

Report Date/Time: Friday, May 25, 2007 10:31:33

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## Daily Performance Report

**Sample ID: DAILY CHECK**

Sample Date/Time: Friday, May 25, 2007 10:37:44

Sample Description:

Method File: d:\Elandata\Method\DAILY EPA.mth

Dataset File: d:\Elandata\Dataset\DAILY PERFORMANCE EPA\DAILY CHECK.702

Tuning File: d:\Elandata\Tuning\EPA TUNING.tun

Optimization File: d:\Elandata\Optimize\EPA.dac

Dual Detector Mode: Pulse

Acq. Dead Time(ns): 35

Current Dead Time (ns): 35

### Summary

Analyte	Mass	Meas. Intens.	Mean	Net Intens.	Mean	Net Intens.	SD	Net Intens.	RSD
Mg	24.0	56350.9		56350.867		214.209		0.4	
Rh	102.9	276021.7		276021.664		1257.179		0.5	
Pb	208.0	224579.6		224579.570		890.001		0.4	
[> Ba	137.9	296105.5		296105.501		1730.759		0.6	
[ Ba++	69.0	4875.1		0.016		0.000		2.0	
[> Ce	139.9	350017.7		350017.709		2012.665		0.6	
[ CeO	155.9	8697.5		0.025		0.000		1.1	
Bkgd	220.0	6.0		6.000		0.919		15.3	

### Current Optimization File Data

Current Value	Description
0.86	Nebulizer Gas Flow
6.00	Lens Voltage
1150.00	ICP RF Power
-2187.50	Analog Stage Voltage
1200.00	Pulse Stage Voltage
70.00	Discriminator Threshold
-13.00	AC Rod Offset
60.00	Service DAC 1
0.00	Quadrupole Rod Offset

### Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	25	7.3	2548.2
Mg	24	25	7.3	69191.2
Co	59	25	8.3	132010.1
Rh	103	25	9.5	316182.7
In	115	25	9.8	371107.4
Ba	138	25	9.8	305646.1
Ce	140	25	9.8	359578.1
Pb	208	25	10.0	186299.9

Sample ID: DAILY CHECK

Report Date/Time: Friday, May 25, 2007 10:40:36

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## QUANTITATIVE ANALYSIS REPORT

Sample ID: Blank

Sample Date/Time: Friday, May 25, 2007 10:59:06

Autosampler Position: 1

Dataset File: D:\Elandata\Dataset\052507M1\Blank.001

### Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[ 23 Na			14340.338	ug/L	
24 Mg			4546.769	ug/L	
27 Al			7803.209	ug/L	
39 K			787820.143	ug/L	
44 Ca			72922.037	ug/L	
> 45 Sc-1			480857.849	ug/L	
51 V			-3998.332	ug/L	
57 Fe			6512.532	ug/L	
66 Zn			1229.399	ug/L	
> 72 Ge-1			583818.267	ug/L	
75 As			441.860	ug/L	
135 Ba			109.668	ug/L	
> 165 Ho-1			1276414.382	ug/L	
205 Tl			6961.439	ug/L	
208 Pb			6900.385	ug/L	
238 U			47.334	ug/L	
> 45 Sc-2			480857.849	ug/L	
54 Fe			37101.824	ug/L	
67 Zn			20205.161	ug/L	
137 Ba			196.003	ug/L	
> 165 Ho-2			1276414.382	ug/L	
203 Tl			2942.667	ug/L	
206 Pb			1714.787	ug/L	
207 Pb			1555.100	ug/L	

### Internal Standard And QC Recoveries

Analyte Mass	Int Std % Recovery	QC Std % Recovery
[ Na 23		
Mg 24		
Al 27		
K 39		
Ca 44		
> Sc-1 45		
V 51		
Fe 57		
Zn 66		
> Ge-1 72		
As 75		
Ba 135		
> Ho-1 165		
Tl 205		
Pb 208		
U 238		
> Sc-2 45		
Fe 54		
Zn 67		
Ba 137		
> Ho-2 165		
Tl 203		
Pb 206		
Pb 207		

### QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: Standard 1

Sample Date/Time: Friday, May 25, 2007 11:02:58

Autosampler Position: 2

Dataset File: D:\Elandata\Dataset\052507M1\Standard 1.002

### Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[ 23 Na			27100.955	ug/L	14340.338
[ 24 Mg			6862.717	ug/L	4546.769
[ 27 Al			15627.369	ug/L	7803.209
[ 39 K			790073.326	ug/L	787820.143
[ 44 Ca			75385.804	ug/L	72922.037
> 45 Sc-1			483962.446	ug/L	480857.849
[ 51 V	20.000000	0.767	170210.027	ug/L	-3998.332
[ 57 Fe			7366.000	ug/L	6512.532
[ 66 Zn	20.000000	2.277	25352.399	ug/L	1229.399
> 72 Ge-1			587595.771	ug/L	583818.267
[ 75 As	20.000000	1.428	29601.173	ug/L	441.860
[ 135 Ba	20.000000	1.105	35598.992	ug/L	109.668
> 165 Ho-1			1291583.267	ug/L	1276414.382
[ 205 Tl	20.000000	2.104	396029.117	ug/L	6961.439
[ 208 Pb	20.000000	1.513	556713.418	ug/L	6900.385
[ 238 U	20.000000	1.090	318355.379	ug/L	47.334
> 45 Sc-2			483962.446	ug/L	480857.849
[ 54 Fe			41252.573	ug/L	37101.824
[ 67 Zn	20.000000	21.132	24364.677	ug/L	20205.161
[ 137 Ba	20.000000	1.265	61401.304	ug/L	196.003
> 165 Ho-2			1291583.267	ug/L	1276414.382
[ 203 Tl	20.000000	1.730	165068.715	ug/L	2942.667
[ 206 Pb	20.000000	3.819	141695.956	ug/L	1714.787
[ 207 Pb	20.000000	0.623	118580.643	ug/L	1555.100

### Internal Standard And QC Recoveries

Analyte Mass	Int Std % Recovery	QC Std % Recovery
[ Na 23		
[ Mg 24		
[ Al 27		
[ K 39		
[ Ca 44		
> Sc-1 45		
[ V 51		
[ Fe 57		
[ Zn 66		
> Ge-1 72		
[ As 75		
[ Ba 135		
> Ho-1 165		
[ Tl 205		
[ Pb 208		
[ U 238		
> Sc-2 45		
[ Fe 54		
[ Zn 67		
[ Ba 137		
> Ho-2 165		
[ Tl 203		
[ Pb 206		
[ Pb 207		

### QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: Standard 2

Sample Date/Time: Friday, May 25, 2007 11:06:51

Autosampler Position: 3

Dataset File: D:\Elandata\Dataset\052507M1\Standard 2.003

### Sample Result Summary

Mass	Analyte	Conc.	Mean	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23	Na			27101.622		ug/L	14340.338
	24	Mg			6405.500		ug/L	4546.769
	27	Al			10113.347		ug/L	7803.209
	39	K			781496.226		ug/L	787820.143
	44	Ca			75538.630		ug/L	72922.037
>	45	Sc-1			482509.053		ug/L	480857.849
	51	V	50.029851	1.451	432225.450		ug/L	-3998.332
	57	Fe			6487.260		ug/L	6512.532
	66	Zn	49.877638	1.305	60293.905		ug/L	1229.399
>	72	Ge-1			586604.799		ug/L	583818.267
	75	As	49.957416	0.987	72763.997		ug/L	441.860
	135	Ba	49.977995	0.076	87397.405		ug/L	109.668
>	165	Ho-1			1274719.116		ug/L	1276414.382
	205	Tl	50.095559	2.080	979966.530		ug/L	6961.439
	208	Pb	49.960811	0.817	1355761.312		ug/L	6900.385
	238	U	50.007659	0.566	786356.285		ug/L	47.334
>	45	Sc-2			482509.053		ug/L	480857.849
	54	Fe			39718.696		ug/L	37101.824
	67	Zn	50.159056	8.722	30564.640		ug/L	20205.161
	137	Ba	49.993131	1.512	151051.267		ug/L	196.003
>	165	Ho-2			1274719.116		ug/L	1276414.382
	203	Tl	50.302394	2.525	420984.029		ug/L	2942.667
	206	Pb	49.944711	1.539	344396.090		ug/L	1714.787
	207	Pb	50.055020	0.693	292590.446		ug/L	1555.100

### Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	
	As	75	
	Ba	135	
>	Ho-1	165	
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	
	Tl	203	
	Pb	206	
	Pb	207	

### QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: Standard 3

Sample Date/Time: Friday, May 25, 2007 11:10:45

Autosampler Position: 4

Dataset File: D:\Elandata\Dataset\052507M1\Standard 3.004

## Sample Result Summary

Mass	Analyte	Conc.	MeanConc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23	Na	500.000000	1.290	2365871.059	ug/L	14340.338	
	24	Mg	250.000000	0.961	913418.804	ug/L	4546.769	
	27	Al	500.000000	1.064	2512018.832	ug/L	7803.209	
	39	K	500.000000	2.475	4330787.030	ug/L	787820.143	
	44	Ca	250.000000	1.192	151303.200	ug/L	72922.037	
>	45	Sc-1			485013.766	ug/L	480857.849	
	51	V	199.865395	2.174	1731306.453	ug/L	-3998.332	
	57	Fe	500.000000	1.162	114932.858	ug/L	6512.532	
[	66	Zn	199.640800	2.233	233115.176	ug/L	1229.399	
>	72	Ge-1			581471.806	ug/L	583818.267	
[	75	As	200.068361	1.476	288897.184	ug/L	441.860	
[	135	Ba	199.791841	0.725	346568.904	ug/L	109.668	
>	165	Ho-1			1283876.426	ug/L	1276414.382	
	205	Tl	199.466606	2.631	3770312.499	ug/L	6961.439	
	208	Pb	199.302062	0.638	5177406.035	ug/L	6900.385	
[	238	U	198.870362	0.839	2921922.601	ug/L	47.334	
>	45	Sc-2			485013.766	ug/L	480857.849	
	54	Fe	500.000000	0.973	325452.183	ug/L	37101.824	
[	67	Zn	200.142595	0.881	62089.591	ug/L	20205.161	
[	137	Ba	199.786788	1.380	598582.963	ug/L	196.003	
>	165	Ho-2			1283876.426	ug/L	1276414.382	
	203	Tl	199.689038	1.584	1639435.432	ug/L	2942.667	
	206	Pb	199.656955	1.186	1349539.984	ug/L	1714.787	
[	207	Pb	199.669565	1.157	1144701.164	ug/L	1555.100	

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	
	V	51	
	Fe	57	
[	Zn	66	
>	Ge-1	72	
[	As	75	
[	Ba	135	
>	Ho-1	165	
	Tl	205	
	Pb	208	
[	U	238	
>	Sc-2	45	
	Fe	54	
[	Zn	67	
[	Ba	137	
>	Ho-2	165	
	Tl	203	
	Pb	206	
[	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: Standard 4

Sample Date/Time: Friday, May 25, 2007 11:14:40

Autosampler Position: 5

Dataset File: D:\Elandata\Dataset\052507M1\Standard 4.005

## Sample Result Summary

Mass	Analyte	Conc.	Mean	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23	Na	1997.894054	1.378	9271080.257	ug/L	14340.338	
	24	Mg	998.730397	1.960	3569200.265	ug/L	4546.769	
	27	Al	2000.187725	1.345	10058382.176	ug/L	7803.209	
	39	K	2000.991187	1.244	15086214.046	ug/L	787820.143	
	44	Ca	989.177066	1.074	336366.670	ug/L	72922.037	
>	45	Sc-1			485840.828	ug/L	480857.849	
	51	V	-0.158436	109.378	-5414.209	ug/L	-3998.332	
	57	Fe	2001.765133	0.878	447399.569	ug/L	6512.532	
	66	Zn	0.520521	6.332	1847.805	ug/L	1229.399	
>	72	Ge-1			581088.983	ug/L	583818.267	
	75	As	0.076388	369.243	550.549	ug/L	441.860	
	135	Ba	0.122744	2.513	322.340	ug/L	109.668	
>	165	Ho-1			1280579.185	ug/L	1276414.382	
	205	Ti	0.462933	54.286	15703.646	ug/L	6981.439	
	208	Pb	0.005025	244.677	7053.410	ug/L	6900.385	
	238	U	0.006060	36.036	136.335	ug/L	47.334	
>	45	Sc-2			485840.828	ug/L	480857.849	
	54	Fe	1996.703579	0.777	1160013.365	ug/L	37101.824	
	67	Zn	0.818379	308.907	20584.698	ug/L	20205.161	
	137	Ba	0.116819	5.714	545.683	ug/L	196.003	
>	165	Ho-2			1280579.185	ug/L	1276414.382	
	203	Ti	0.444895	52.256	6591.672	ug/L	2942.667	
	206	Pb	0.011824	116.148	1800.132	ug/L	1714.787	
	207	Pb	0.004815	253.750	1587.771	ug/L	1555.100	

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	
	As	75	
	Ba	135	
>	Ho-1	165	
	Ti	205	
	Pb	208	
	U	238	
>	Sc-2	45	
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	
	Ti	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: Standard 5

Sample Date/Time: Friday, May 25, 2007 11:18:36

Autosampler Position: 6

Dataset File: D:\Elandata\Dataset\052507M1\Standard 5.006

### Sample Result Summary

Mass	Analyte	Conc.	Mean	Conc.	RSD	Meas.	Intens.	Mean	Sample Unit	Blank Intensity
[	23	Na	9996.631744		0.959	45620704.935		ug/L	14340.338	
	24	Mg	4995.362847		2.833	17318160.384		ug/L	4546.769	
	27	Al	9999.320334		2.565	49786316.075		ug/L	7803.209	
	39	K	10002.177700		2.183	72039485.190		ug/L	787820.143	
	44	Ca	4987.011878		0.217	1311967.565		ug/L	72922.037	
>	45	Sc-1				482242.519		ug/L	480857.849	
	51	V	-0.443557		99.132	-7805.114		ug/L	-3998.332	
	57	Fe	9954.607162		1.516	1972196.283		ug/L	6512.532	
	66	Zn	1.013916		1.981	2404.226		ug/L	1229.399	
>	72	Ge-1				576413.093		ug/L	583818.267	
	75	As	-0.110046		151.577	278.067		ug/L	441.860	
	135	Ba	0.111913		11.529	306.006		ug/L	109.668	
>	165	Ho-1				1291733.598		ug/L	1276414.382	
	205	Tl	-0.045132		88.591	6197.424		ug/L	6961.439	
	208	Pb	0.017396		31.338	7436.163		ug/L	6900.385	
	238	U	0.004228		12.916	110.335		ug/L	47.334	
>	45	Sc-2				482242.519		ug/L	480857.849	
	54	Fe	9960.016159		1.335	5116611.775		ug/L	37101.824	
	67	Zn	6.664515		10.920	21645.942		ug/L	20205.161	
	137	Ba	0.116995		2.101	551.016		ug/L	196.003	
>	165	Ho-2				1291733.598		ug/L	1276414.382	
	203	Tl	-0.042362		83.596	2632.272		ug/L	2942.667	
	206	Pb	0.019186		60.125	1864.807		ug/L	1714.787	
	207	Pb	0.013150		63.357	1649.445		ug/L	1555.100	

### Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	
	As	75	
	Ba	135	
>	Ho-1	165	
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	
	Tl	203	
	Pb	206	
	Pb	207	

### QC Out Of Limits

Analyte Mass Out of Limits Message



## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 1

Sample Date/Time: Friday, May 25, 2007 11:25:33

Autosampler Position: 7

Dataset File: D:\Elandata\Dataset\052507M1\QC Std 1.007

## Sample Result Summary

Mass	Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23 Na	2030.632649	1.574		9195683.118	ug/L	14340.338	
	24 Mg	1042.684240	0.925		3587002.505	ug/L	4546.769	
	27 Al	2017.784534	1.299		9965175.311	ug/L	7803.209	
	39 K	2037.315266	1.424		15167946.910	ug/L	787820.143	
	44 Ca	1131.506767	0.768		351037.921	ug/L	72922.037	
>	45 Sc-1				477932.259	ug/L	480857.849	
	51 V	202.517187	0.788		1728842.979	ug/L	-3998.332	
	57 Fe	2225.564184	2.030		442026.615	ug/L	6512.532	
	66 Zn	202.009895	1.401		232426.867	ug/L	1229.399	
>	72 Ge-1				571146.491	ug/L	583818.267	
	75 As	204.428844	0.755		289938.115	ug/L	441.860	
	135 Ba	200.898031	0.685		347267.605	ug/L	109.668	
>	165 Ho-1				1279353.188	ug/L	1276414.382	
	205 Tl	194.710994	1.626		3668007.470	ug/L	6961.439	
	208 Pb	201.110716	0.424		5206078.157	ug/L	6900.385	
	238 U	207.826233	1.325		3042642.307	ug/L	47.334	
>	45 Sc-2				477932.259	ug/L	480857.849	
	54 Fe	2197.021078	1.975		1147287.683	ug/L	37101.824	
	67 Zn	195.418939	2.528		60207.209	ug/L	20205.161	
	137 Ba	200.012715	1.335		597161.243	ug/L	196.003	
>	165 Ho-2				1279353.188	ug/L	1276414.382	
	203 Tl	194.134266	1.069		1588461.681	ug/L	2942.667	
	206 Pb	204.988794	0.575		1380703.280	ug/L	1714.787	
	207 Pb	198.456983	1.114		1133825.994	ug/L	1555.100	

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	101.532
	Mg	24	104.268
	Al	27	100.889
	K	39	101.868
	Ca	44	113.151
>	Sc-1	45	99.392
	V	51	101.259
	Fe	57	111.278
	Zn	66	101.005
>	Ge-1	72	97.829
	As	75	102.214
	Ba	135	100.449
>	Ho-1	165	100.230
	Tl	205	97.355
	Pb	208	100.555
	U	238	103.913
>	Sc-2	45	99.392
	Fe	54	109.851
	Zn	67	97.709
	Ba	137	100.006
>	Ho-2	165	100.230
	Tl	203	97.067
	Pb	206	102.494
	Pb	207	99.228

## QC Out Of Limits

Analyte Mass Out of Limits Message

Ca 44 Q  
Fe 57 Q

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 2

Sample Date/Time: Friday, May 25, 2007 11:30:28

Autosampler Position: 1

Dataset File: D:\Elandata\Dataset\052507M1\QC Std 2.008

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
23 Na	-0.034344	130.740		14029.360		ug/L	14340.338
24 Mg	0.016071	76.452		4552.104		ug/L	4546.769
27 Al	-0.022129	49.298		7609.436		ug/L	7803.209
39 K	-1.292607	112.457		770131.539		ug/L	787820.143
44 Ca	-28.911723	7.722		65043.729		ug/L	72922.037
> 45 Sc-1				475616.185		ug/L	480857.849
51 V	-0.254986	215.040		-8139.365		ug/L	-3998.332
57 Fe	-1.267630	25.204		6194.754		ug/L	6512.532
66 Zn	-0.080428	5.440		1124.389		ug/L	1229.399
> 72 Ge-1				570503.535		ug/L	583818.267
75 As	-0.195724	45.451		154.852		ug/L	441.860
135 Ba	0.004627	71.611		116.668		ug/L	109.668
> 165 Ho-1				1266222.757		ug/L	1276414.382
205 Tl	0.110862	67.828		8959.271		ug/L	6961.439
208 Pb	-0.049389	13.893		5580.146		ug/L	6900.385
238 U	0.000521	298.169		54.334		ug/L	47.334
> 45 Sc-2				475616.185		ug/L	480857.849
54 Fe	2.067525	250.933		37739.099		ug/L	37101.824
67 Zn	-1.333150	184.909		19712.795		ug/L	20205.161
137 Ba	-0.000360	2763.163		193.337		ug/L	196.003
> 165 Ho-2				1266222.757		ug/L	1276414.382
203 Tl	0.094204	92.033		3675.520		ug/L	2942.667
206 Pb	-0.046363	18.070		1392.082		ug/L	1714.787
207 Pb	-0.049187	23.767		1264.402		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Na	23		-0.034
Mg	24		0.016
Al	27		-0.022
K	39		-1.293
Ca	44		-28.912
> Sc-1	45	98.910	
V	51		-25.499
Fe	57		-1.268
Zn	66		-8.043
> Ge-1	72	97.719	
As	75		-19.572
Ba	135		0.463
> Ho-1	165	99.202	
Tl	205		11.086
Pb	208		-4.939
U	238		0.052
> Sc-2	45	98.910	
Fe	54		2.068
Zn	67		-133.315
Ba	137		-0.036
> Ho-2	165	99.202	
Tl	203		9.420
Pb	206		-4.636
Pb	207		-4.919

## QC Out Of Limits

Analyte Mass Out of Limits Message  
Zn 67 Q

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 3

Sample Date/Time: Friday, May 25, 2007 11:35:21

Autosampler Position: 160

Dataset File: D:\Elandata\Dataset\052507M1\QC Std 3.009

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[ 23 Na	4885.238054		0.831	22635472.414		ug/L	14340.338
[ 24 Mg	4911.427280		1.506	17285750.466		ug/L	4546.769
[ 27 Al	205.921032		1.002	1048560.973		ug/L	7803.209
[ 39 K	4948.385144		2.521	36584819.937		ug/L	787820.143
[ 44 Ca	5006.682649		0.379	1336425.302		ug/L	72922.037
> 45 Sc-1				489403.819		ug/L	480857.849
[ 51 V	49.424538		0.546	428989.352		ug/L	-3998.332
[ 57 Fe	97.629811		1.089	26195.345		ug/L	6512.532
[ 66 Zn	19.673176		0.603	24310.913		ug/L	1229.399
> 72 Ge-1				584128.178		ug/L	583818.267
[ 75 As	10.612928		1.908	15813.831		ug/L	441.860
[ 135 Ba	195.850965		0.834	343205.784		ug/L	109.668
> 165 Ho-1				1296995.489		ug/L	1276414.382
[ 205 Tl	9.891083		2.133	195647.629		ug/L	6961.439
[ 208 Pb	3.118307		2.206	88730.085		ug/L	6900.385
[ 238 U	21.938866		0.795	325662.417		ug/L	47.334
> 45 Sc-2				489403.819		ug/L	480857.849
[ 54 Fe	126.862885		5.940	103421.156		ug/L	37101.824
[ 67 Zn	19.040262		18.486	24566.694		ug/L	20205.161
[ 137 Ba	194.585130		0.283	589009.384		ug/L	196.003
> 165 Ho-2				1296995.489		ug/L	1276414.382
[ 203 Tl	9.508216		2.993	81725.795		ug/L	2942.667
[ 206 Pb	3.154020		3.398	23248.808		ug/L	1714.787
[ 207 Pb	2.968620		1.762	18749.150		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Na	23		97.705
[ Mg	24		98.229
[ Al	27		102.861
[ K	39		98.988
[ Ca	44		100.134
> Sc-1	45	101.777	
[ V	51		98.849
[ Fe	57		97.630
[ Zn	66		98.368
> Ge-1	72	100.053	
[ As	75		106.129
[ Ba	135		97.925
> Ho-1	165	101.612	
[ Tl	205		98.911
[ Pb	208		103.944
[ U	238		109.894
> Sc-2	45	101.777	
[ Fe	54		128.863
[ Zn	67		85.201
[ Ba	137		97.293
> Ho-2	165	101.612	
[ Tl	203		95.082
[ Pb	206		105.134
[ Pb	207		98.954

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 4

Sample Date/Time: Friday, May 25, 2007 11:40:15

Autosampler Position: 158

Dataset File: D:\Elandata\Dataset\052507M1\QC Std 4.010

## Sample Result Summary

	Mass Analyte	Conc.	Mean	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23 Na	1.433108	7.709		20386.408		ug/L	14340.338
	24 Mg	51542.157592	4.315		174114644.983		ug/L	4546.769
	27 Al	51234.338874	3.122		248601172.530		ug/L	7803.209
	39 K	-0.609638	155.577		765774.104		ug/L	787820.143
	44 Ca	49586.582561	2.308		12075101.973		ug/L	72922.037
>	45 Sc-1				470005.725		ug/L	480857.849
	51 V	-0.680141	26.970		-9620.937		ug/L	-3998.332
	57 Fe	20474.480447	2.403		3946756.847		ug/L	6512.532
[	66 Zn	0.893023	5.306		2206.859		ug/L	1229.399
>	72 Ge-1				567972.885		ug/L	583818.267
[	75 As	-0.175583	408.405		179.612		ug/L	441.860
[	135 Ba	0.070529	12.609		233.671		ug/L	109.668
>	165 Ho-1				1289557.600		ug/L	1276414.382
	205 Tl	-0.118711	20.596		4783.187		ug/L	6961.439
	208 Pb	-0.023177	18.120		6367.281		ug/L	6900.385
[	238 U	0.000192	291.873		50.667		ug/L	47.334
>	45 Sc-2				470005.725		ug/L	480857.849
	54 Fe	19994.347602	1.722		9974571.174		ug/L	37101.824
[	67 Zn	1.284423	201.573		20012.220		ug/L	20205.161
[	137 Ba	0.060373	9.887		379.676		ug/L	196.003
>	165 Ho-2				1289557.600		ug/L	1276414.382
	203 Tl	-0.114122	22.633		2033.499		ug/L	2942.667
	206 Pb	-0.016271	19.136		1622.108		ug/L	1714.787
[	207 Pb	-0.027607	24.296		1412.417		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	1.433
	Mg	24	103.084
	Al	27	102.469
	K	39	-0.610
	Ca	44	99.173
>	Sc-1	45	97.743
	V	51	-68.014
	Fe	57	102.372
[	Zn	66	89.302
>	Ge-1	72	97.286
[	As	75	-17.558
[	Ba	135	7.053
>	Ho-1	165	101.030
	Tl	205	-11.871
	Pb	208	-2.318
[	U	238	0.019
>	Sc-2	45	97.743
	Fe	54	99.972
[	Zn	67	128.442
[	Ba	137	6.037
>	Ho-2	165	101.030
	Tl	203	-11.412
	Pb	206	-1.627
[	Pb	207	-2.761

## QC Out Of Limits

Analyte Mass Out of Limits Message  
Zn 67 Q

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 5

Sample Date/Time: Friday, May 25, 2007 11:45:09

Autosampler Position: 159

Dataset File: D:\Elandata\Dataset\052507M1\QC Std 5.011

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[ 23 Na	2068.936822		2.027	9156639.145		ug/L	14340.338
24 Mg	52420.180014		1.498	176026559.895		ug/L	4546.769
27 Al	52038.211794		1.876	250979496.731		ug/L	7803.209
39 K	2041.686392		2.964	14854343.215		ug/L	787820.143
44 Ca	50834.141439		1.376	12301106.111		ug/L	72922.037
> 45 Sc-1				467063.752		ug/L	480857.849
51 V	47.712165		1.323	395093.774		ug/L	-3998.332
57 Fe	20942.426834		0.818	4012113.257		ug/L	6512.532
66 Zn	92.955648		1.761	105173.176		ug/L	1229.399
> 72 Ge-1				564023.875		ug/L	583818.267
75 As	96.619794		1.560	135555.197		ug/L	441.860
135 Ba	47.269961		1.335	81740.673		ug/L	109.668
> 165 Ho-1				1278587.824		ug/L	1276414.382
205 Tl	93.318539		0.945	1760678.760		ug/L	6961.439
208 Pb	98.354815		0.900	2547993.677		ug/L	6900.385
238 U	105.025532		0.881	1536683.514		ug/L	47.334
> 45 Sc-2				467063.752		ug/L	480857.849
54 Fe	20084.417899		0.967	9957536.833		ug/L	37101.824
67 Zn	86.879530		2.548	37061.050		ug/L	20205.161
137 Ba	47.806157		2.077	142786.876		ug/L	196.003
> 165 Ho-2				1278587.824		ug/L	1276414.382
203 Tl	92.991620		1.726	761968.318		ug/L	2942.667
206 Pb	96.934667		0.988	653421.967		ug/L	1714.787
207 Pb	98.266431		0.936	561876.403		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte Mass	Int Std % Recovery	QC Std % Recovery
[ Na 23		103.447
Mg 24		104.840
Al 27		104.076
K 39		102.084
Ca 44		101.568
> Sc-1 45	97.131	
V 51		95.424
Fe 57		104.712
Zn 66		92.956
> Ge-1 72	96.609	
As 75		86.620
Ba 135		84.540
> Ho-1 165	100.170	
Tl 205		93.319
Pb 208		98.355
U 238		105.026
> Sc-2 45	97.131	
Fe 54		100.422
Zn 67		86.880
Ba 137		95.612
> Ho-2 165	100.170	
Tl 203		92.992
Pb 206		96.935
Pb 207		98.266

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6

Sample Date/Time: Friday, May 25, 2007 11:52:04

Autosampler Position: 7

Dataset File: D:\Elandata\Dataset\052507M1\QC Std 6.012

## Sample Result Summary

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[	23 Na	2005.135841	1.780	9284476.567	ug/L	14340.338
	24 Mg	1031.226456	2.027	3627239.450	ug/L	4546.769
	27 Al	2005.752844	1.539	10127880.717	ug/L	7803.209
	39 K	2015.918436	1.313	15354374.284	ug/L	787820.143
	44 Ca	1094.130846	0.668	349501.829	ug/L	72922.037
>	45 Sc-1			488629.518	ug/L	480857.849
	51 V	200.970884	0.855	1754042.631	ug/L	-3998.332
	57 Fe	2147.383496	0.803	436332.844	ug/L	6512.532
L	66 Zn	199.184429	0.613	234347.221	ug/L	1229.399
>	72 Ge-1			584212.349	ug/L	583818.267
L	75 As	201.766556	1.318	292732.597	ug/L	441.860
[	135 Ba	195.802678	1.260	348807.493	ug/L	109.668
>	165 Ho-1			1318546.654	ug/L	1276414.382
	205 Tl	190.840642	2.070	3705964.839	ug/L	6961.439
	208 Pb	198.847933	0.607	5305080.549	ug/L	6900.385
L	238 U	202.953974	0.906	3062229.072	ug/L	47.334
>	45 Sc-2			488629.518	ug/L	480857.849
	54 Fe	2130.681992	0.756	1138850.952	ug/L	37101.824
L	67 Zn	189.777776	1.483	60378.268	ug/L	20205.161
[	137 Ba	194.589910	0.542	598781.265	ug/L	196.003
>	165 Ho-2			1318546.654	ug/L	1276414.382
	203 Tl	189.936623	0.529	1601690.290	ug/L	2942.667
	206 Pb	203.615694	0.473	1413502.808	ug/L	1714.787
L	207 Pb	195.508269	1.421	1151103.147	ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	100.257
	Mg	24	103.123
	Al	27	100.288
	K	39	100.796
	Ca	44	109.413
>	Sc-1	45	101.816
	V	51	100.485
	Fe	57	107.369
L	Zn	66	99.592
>	Ge-1	72	100.068
L	As	75	100.883
[	Ba	135	97.901
>	Ho-1	165	103.301
	Tl	205	96.420
	Pb	208	99.424
L	U	238	101.477
>	Sc-2	45	101.618
	Fe	54	106.534
L	Zn	67	94.889
[	Ba	137	97.285
>	Ho-2	165	103.301
	Tl	203	94.968
	Pb	206	101.808
L	Pb	207	97.754

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 7

Sample Date/Time: Friday, May 25, 2007 11:58:58

Autosampler Position: 1

Dataset File: D:\Elandata\Dataset\052507M1\QC Std 7.013

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[ 23 Na	-0.185149	11.890		13324.678		ug/L	14340.338
[ 24 Mg	0.047743	88.379		4651.137		ug/L	4546.769
[ 27 Al	0.022675	84.163		7813.881		ug/L	7803.209
[ 39 K	-7.207552	6.159		727180.835		ug/L	787820.143
[ 44 Ca	-29.292007	0.328		64824.060		ug/L	72922.037
> 45 Sc-1				474691.287		ug/L	480857.849
[ 51 V	0.288703	115.202		-1481.784		ug/L	-3998.332
[ 57 Fe	-2.442699	35.660		5953.466		ug/L	6512.532
[ 66 Zn	-0.063141	41.559		1141.724		ug/L	1229.399
> 72 Ge-1				572658.976		ug/L	583818.267
[ 75 As	-0.097298	56.532		295.171		ug/L	441.860
[ 135 Ba	0.007396	56.077		123.335		ug/L	109.668
> 165 Ho-1				1286211.368		ug/L	1276414.382
[ 205 Tl	0.100798	75.360		8927.597		ug/L	6961.439
[ 208 Pb	-0.076283	2.790		4970.383		ug/L	6900.385
[ 238 U	0.001693	47.900		72.668		ug/L	47.334
> 45 Sc-2				474691.287		ug/L	480857.849
[ 54 Fe	1.763696	300.132		37499.886		ug/L	37101.824
[ 67 Zn	-0.317310	583.752		19879.689		ug/L	20205.161
[ 137 Ba	-0.005511	45.523		181.003		ug/L	196.003
> 165 Ho-2				1286211.368		ug/L	1276414.382
[ 203 Tl	0.099444	83.609		3785.218		ug/L	2942.667
[ 206 Pb	-0.070438	6.304		1251.401		ug/L	1714.787
[ 207 Pb	-0.074766	8.398		1138.057		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Na	23		-0.185
[ Mg	24		0.048
[ Al	27		0.023
[ K	39		-7.208
[ Ca	44		-29.292
> Sc-1	45	98.718	
[ V	51		28.870
[ Fe	57		-2.443
[ Zn	66		-8.314
> Ge-1	72	98.089	
[ As	75		-9.730
[ Ba	135		0.740
> Ho-1	165	100.768	
[ Tl	205		10.080
[ Pb	208		-7.628
[ U	238		0.169
> Sc-2	46	98.718	
[ Fe	54		1.784
[ Zn	67		-31.731
[ Ba	137		-0.551
> Ho-2	165	100.768	
[ Tl	203		9.944
[ Pb	206		-7.044
[ Pb	207		-7.477

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWXAHB

Sample Date/Time: Friday, May 25, 2007 12:01:50

Autosampler Position: 24

Dataset File: D:\Elandata\Dataset\052507M1\JWXAHB.014

## Sample Result Summary

Mass	Analyte	Conc.	Mean	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23	Na	4.188839	3.068	33706.726	ug/L	14340.338	
	24	Mg	-0.140030	9.744	4100.963	ug/L	4546.769	
	27	Al	1.412145	6.146	14949.636	ug/L	7803.209	
	39	K	-8.390371	12.723	734955.411	ug/L	787820.143	
	44	Ca	-25.550645	10.808	67210.406	ug/L	72922.037	
>	45	Sc-1			485357.695	ug/L	480857.849	
	51	V	-1.760948	28.570	-19306.429	ug/L	-3998.332	
	57	Fe	0.246135	96.501	6622.152	ug/L	6512.532	
	66	Zn	0.786402	4.409	2154.851	ug/L	1229.399	
>	72	Ge-1			578371.569	ug/L	583818.267	
	75	As	-0.336039	76.503	-44.572	ug/L	441.860	
	135	Ba	0.083303	5.465	258.005	ug/L	109.668	
>	165	Ho-1			1300188.882	ug/L	1276414.382	
	205	Tl	0.003812	1578.714	7161.563	ug/L	6961.439	
	208	Pb	0.093215	9.119	9478.319	ug/L	6900.385	
	238	U	0.000412	80.816	54.334	ug/L	47.334	
>	45	Sc-2			485357.695	ug/L	480857.849	
	54	Fe	77.460473	8.722	77181.962	ug/L	37101.824	
	67	Zn	38.571067	3.025	28440.575	ug/L	20205.161	
	137	Ba	0.077574	7.458	435.011	ug/L	196.003	
>	165	Ho-2			1300188.882	ug/L	1276414.382	
	203	Tl	-0.002154	2684.999	2978.679	ug/L	2942.667	
	206	Pb	0.091823	10.912	2374.555	ug/L	1714.787	
	207	Pb	0.092482	10.402	2120.179	ug/L	1555.100	

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	100.936
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	99.067
	As	75	
	Ba	135	
>	Ho-1	165	101.863
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	100.936
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	101.863
	Tl	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message



## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWXAHC

Sample Date/Time: Friday, May 25, 2007 12:06:10

Autosampler Position: 25

Dataset File: D:\Elandata\Dataset\052507M1\JWXAHC.015

## Sample Result Summary

Mass	Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23 Na	10316.516019	2.930	49227092.884	ug/L	14340.338		
	24 Mg	10130.839199	3.416	36724865.229	ug/L	4546.769		
	27 Al	497.114474	3.836	2596030.120	ug/L	7803.209		
	39 K	9867.556840	1.982	74334739.606	ug/L	787820.143		
	44 Ca	9939.733884	2.678	2658032.924	ug/L	72922.037		
>	45 Sc-1			504272.043	ug/L	480857.849		
	51 V	478.039489	3.542	4310750.701	ug/L	-3998.332		
	57 Fe	497.122138	1.040	109486.608	ug/L	6512.532		
	66 Zn	430.088192	1.282	520676.857	ug/L	1229.399		
>	72 Ge-1			582325.466	ug/L	583818.267		
	75 As	491.453773	0.605	710058.752	ug/L	441.860		
	135 Ba	466.124942	1.426	830510.031	ug/L	109.668		
>	165 Ho-1			1319062.214	ug/L	1276414.382		
	205 Tl	492.176255	0.971	9548693.028	ug/L	6961.439		
	208 Pb	493.397817	1.513	13158318.134	ug/L	6900.385		
	238 U	1055.816939	2.193	15936330.813	ug/L	47.334		
>	45 Sc-2			504272.043	ug/L	480857.849		
	54 Fe	602.668133	0.417	360351.509	ug/L	37101.824		
	67 Zn	461.247481	1.499	121125.887	ug/L	20205.161		
	137 Ba	463.982523	0.914	1427990.821	ug/L	196.003		
>	165 Ho-2			1319062.214	ug/L	1276414.382		
	203 Tl	470.135928	1.679	3961886.355	ug/L	2942.667		
	206 Pb	484.598035	2.570	3362435.214	ug/L	1714.787		
	207 Pb	489.625657	1.801	2881922.261	ug/L	1555.100		

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	104.869
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	99.744
	As	75	
	Ba	135	
>	Ho-1	165	103.341
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	104.869
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	103.341
	Tl	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPA2

Sample Date/Time: Friday, May 25, 2007 12:10:32

Autosampler Position: 26

Dataset File: D:\Elandata\Dataset\052507M1\JWPA2.016

## Sample Result Summary

Mass	Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23	Na	32019.103090	1.482		149620148.350	ug/L	14340.338	
	24	Mg	6345.212393	1.557		22533631.343	ug/L	4546.769	
	27	Al	13.278981	1.847		75724.935	ug/L	7803.209	
	39	K	726.668223	2.461		6110788.102	ug/L	787820.143	
	44	Ca	14826.152490	1.301		3846496.582	ug/L	72922.037	
>	45	Sc-1				493877.045	ug/L	480857.849	
	51	V	18.696314	2.842		161176.055	ug/L	-3998.332	
	57	Fe	-25.113139	8.907		1612.250	ug/L	6512.532	
	66	Zn	2.701236	2.723		4457.740	ug/L	1229.399	
>	72	Ge-1				584268.445	ug/L	583818.267	
	75	As	9.469956	3.058		14160.071	ug/L	441.860	
	135	Ba	2.854755	1.188		5120.302	ug/L	109.668	
>	165	Ho-1				1298843.882	ug/L	1276414.382	
	205	Ti	0.429265	50.528		15286.400	ug/L	6961.439	
	208	Pb	-0.003164	377.949		6937.725	ug/L	6900.385	
	238	U	2.966073	1.430		44134.523	ug/L	47.334	
>	45	Sc-2				493877.045	ug/L	480857.849	
	54	Fe	19.720878	37.543		48381.411	ug/L	37101.824	
	67	Zn	5.979865	59.112		22016.178	ug/L	20205.161	
	137	Ba	2.864870	0.292		8880.849	ug/L	196.003	
>	165	Ho-2				1298843.882	ug/L	1276414.382	
	203	Ti	0.414557	48.936		6434.580	ug/L	2942.667	
	206	Pb	0.002452	276.768		1761.460	ug/L	1714.787	
	207	Pb	-0.006929	89.881		1542.099	ug/L	1555.100	

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	102.707
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	100.077
	As	75	
	Ba	135	
>	Ho-1	165	101.757
	Ti	205	
	Pb	208	
	U	238	
>	Sc-2	45	102.707
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	101.757
	Ti	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPA2S

Sample Date/Time: Friday, May 25, 2007 12:14:54

Autosampler Position: 27

Dataset File: D:\Elandata\Dataset\052507M1\JWPA2S.017

## Sample Result Summary

Mass	Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23 Na	34370.729409	1.420	161333417.259	ug/L	14340.338			
	24 Mg	8850.340194	1.623	31568549.127	ug/L	4546.769			
	27 Al	120.533943	1.374	625464.063	ug/L	7803.209			
	39 K	3368.056067	0.497	25499032.313	ug/L	787820.143			
	44 Ca	17173.580236	1.480	4463842.518	ug/L	72922.037			
>	45 Sc-1			496085.803	ug/L	480857.849			
	51 V	43.471486	2.264	381967.467	ug/L	-3998.332			
	57 Fe	20.777413	5.675	10939.732	ug/L	6512.532			
	66 Zn	27.125865	1.842	33495.897	ug/L	1229.399			
>	72 Ge-1			580996.855	ug/L	583818.267			
	75 As	119.319533	2.253	172329.538	ug/L	441.860			
	135 Ba	104.856398	0.772	183964.398	ug/L	109.668			
>	165 Ho-1			1298010.553	ug/L	1276414.382			
	205 Tl	100.609411	0.564	1926406.737	ug/L	6961.439			
	208 Pb	26.949193	0.907	713933.629	ug/L	6900.385			
	238 U	111.652387	1.096	1658397.165	ug/L	47.334			
>	45 Sc-2			496085.803	ug/L	480857.849			
	54 Fe	73.233549	7.967	76703.068	ug/L	37101.824			
	67 Zn	31.529396	3.975	27565.847	ug/L	20205.161			
	137 Ba	104.336057	0.300	316153.753	ug/L	196.003			
>	165 Ho-2			1298010.553	ug/L	1276414.382			
	203 Tl	101.325110	1.060	842502.621	ug/L	2942.667			
	206 Pb	26.463121	1.250	182380.047	ug/L	1714.787			
	207 Pb	26.558715	1.367	155312.025	ug/L	1555.100			

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	103.167
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	99.517
	As	75	
	Ba	135	
>	Ho-1	165	101.692
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	103.167
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	101.692
	Tl	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPA2D

Sample Date/Time: Friday, May 25, 2007 12:19:16

Autosampler Position: 28

Dataset File: D:\Elandata\Dataset\052507M1\JWPA2D.018

## Sample Result Summary

	Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23 Na	35710.618865		0.465	163599879.168		ug/L	14340.338
	24 Mg	9037.419143		1.174	31462109.884		ug/L	4546.769
	27 Al	121.300222		0.694	614290.684		ug/L	7803.209
	39 K	3478.235080		1.387	25675081.239		ug/L	787820.143
	44 Ca	17400.566129		1.101	4413100.788		ug/L	72922.037
>	45 Sc-1				484162.736		ug/L	480857.849
	51 V	44.588574		0.816	362482.343		ug/L	-3998.332
	57 Fe	20.720045		6.441	10666.123		ug/L	6512.532
	66 Zn	27.601740		2.161	33246.324		ug/L	1229.399
>	72 Ge-1				574624.914		ug/L	583818.267
	75 As	120.224725		1.606	171739.456		ug/L	441.860
	135 Ba	105.502392		0.748	184635.378		ug/L	109.668
>	165 Ho-1				1294940.025		ug/L	1276414.382
	205 Tl	101.788276		2.197	1943988.256		ug/L	6961.439
	208 Pb	27.032163		2.026	714291.958		ug/L	6900.385
	238 U	112.127770		0.707	1661568.298		ug/L	47.334
>	45 Sc-2				484162.736		ug/L	480857.849
	54 Fe	75.859061		8.522	76213.704		ug/L	37101.824
	67 Zn	34.149535		6.610	27450.632		ug/L	20205.161
	137 Ba	105.634645		1.575	319288.476		ug/L	196.003
>	165 Ho-2				1294940.025		ug/L	1276414.382
	203 Tl	101.854375		2.862	844719.042		ug/L	2942.667
	206 Pb	26.622143		3.183	182986.519		ug/L	1714.787
	207 Pb	26.507223		2.407	154632.452		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	100.687
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	98.425
	As	75	
	Ba	135	
>	Ho-1	165	101.451
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	100.687
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	101.451
	Tl	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPA2V

Sample Date/Time: Friday, May 25, 2007 12:23:39

Autosampler Position: 29

Dataset File: D:\Elandata\Dataset\052507M1\JWPA2V.019

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[ 23 Na	6817.139950		3.331	30845803.546		ug/L	14340.338
[ 24 Mg	1324.028518		4.077	4554781.924		ug/L	4546.769
[ 27 Al	3.152853		3.897	23318.928		ug/L	7803.209
[ 39 K	141.121340		1.904	1779747.425		ug/L	787820.143
[ 44 Ca	3081.837531		5.362	831413.036		ug/L	72922.037
> 45 Sc-1				477976.449		ug/L	480857.849
[ 51 V	3.138640		11.767	22881.751		ug/L	-3998.332
[ 57 Fe	-5.905469		7.848	5317.473		ug/L	6512.532
[ 66 Zn	2.879586		0.087	4518.426		ug/L	1229.399
> 72 Ge-1				572751.893		ug/L	583818.267
[ 75 As	1.632358		11.850	2752.045		ug/L	441.860
[ 135 Ba	0.579654		3.045	1129.056		ug/L	109.668
> 165 Ho-1				1299217.693		ug/L	1276414.382
[ 205 Tl	0.104888		80.652	9101.726		ug/L	6961.439
[ 208 Pb	-0.053981		2.669	5606.146		ug/L	6900.385
[ 238 U	0.621974		4.894	9299.126		ug/L	47.334
> 45 Sc-2				477976.449		ug/L	480857.849
[ 54 Fe	9.271626		53.569	41575.649		ug/L	37101.824
[ 67 Zn	1.740553		147.179	20442.829		ug/L	20205.161
[ 137 Ba	0.564154		2.098	1909.813		ug/L	196.003
> 165 Ho-2				1299217.693		ug/L	1276414.382
[ 203 Tl	0.098733		88.035	3819.896		ug/L	2942.667
[ 206 Pb	-0.048912		6.043	1411.417		ug/L	1714.787
[ 207 Pb	-0.051235		12.155	1285.737		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Na	23		
[ Mg	24		
[ Al	27		
[ K	39		
[ Ca	44		
> Sc-1	45	99.401	
[ V	51		
[ Fe	57		
[ Zn	66		
> Ge-1	72	98.104	
[ As	75		
[ Ba	135		
> Ho-1	165	101.787	
[ Tl	205		
[ Pb	208		
[ U	238		
> Sc-2	45	99.401	
[ Fe	54		
[ Zn	67		
[ Ba	137		
> Ho-2	165	101.787	
[ Tl	203		
[ Pb	206		
[ Pb	207		

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPA3

Sample Date/Time: Friday, May 25, 2007 12:28:02

Autosampler Position: 30

Dataset File: D:\Elandata\Dataset\052507M1\JWPA3.020

### Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[ 23 Na	33829.877116		1.169	151624905.954		ug/L	14340.338
24 Mg	6473.382642		0.479	22048667.540		ug/L	4546.769
27 Al	0.788341		6.722	11541.777		ug/L	7803.209
39 K	740.874666		0.841	5980914.871		ug/L	787820.143
44 Ca	14653.277937		1.183	3647274.303		ug/L	72922.037
> 45 Sc-1				473662.201		ug/L	480857.849
51 V	18.336671		3.183	151572.680		ug/L	-3998.332
57 Fe	-32.235616		9.209	163.974		ug/L	6512.532
66 Zn	2.577113		4.399	4134.974		ug/L	1229.399
> 72 Ge-1				572001.473		ug/L	583818.267
75 As	8.992582		5.819	13188.903		ug/L	441.860
135 Ba	2.583072		0.981	4673.811		ug/L	109.668
> 165 Ho-1				1307360.637		ug/L	1276414.382
205 Tl	-0.095254		34.656	5299.045		ug/L	6961.439
208 Pb	-0.052666		8.211	5676.165		ug/L	6900.385
238 U	2.842641		1.025	42577.452		ug/L	47.334
> 45 Sc-2				473662.201		ug/L	480857.849
54 Fe	13.467340		45.542	43284.600		ug/L	37101.824
67 Zn	5.578707		43.901	21036.692		ug/L	20205.161
137 Ba	2.807402		0.688	8153.741		ug/L	196.003
> 165 Ho-2				1307360.637		ug/L	1276414.382
203 Tl	-0.092527		36.175	2241.533		ug/L	2942.667
206 Pb	-0.049291		14.599	1417.418		ug/L	1714.787
207 Pb	-0.058663		13.215	1250.734		ug/L	1555.100

### Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	98.504	
V	51		
Fe	57		
Zn	66		
> Ge-1	72	97.976	
As	75		
Ba	135		
> Ho-1	165	102.424	
Tl	205		
Pb	208		
U	238		
> Sc-2	45	88.504	
Fe	54		
Zn	67		
Ba	137		
> Ho-2	165	102.424	
Tl	203		
Pb	206		
Pb	207		

### QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPA3S

Sample Date/Time: Friday, May 25, 2007 12:32:26

Autosampler Position: 31

Dataset File: D:\Elandata\Dataset\052507M1\JWPA3S.021

## Sample Result Summary

Mass	Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23 Na	37564.531382	1.346	170643727.505	ug/L	14340.338			
	24 Mg	9616.477228	0.592	33197734.798	ug/L	4546.769			
	27 Al	115.521536	2.070	580477.891	ug/L	7803.209			
	39 K	3573.648766	1.181	26135455.798	ug/L	787820.143			
	44 Ca	18239.786832	0.847	4583812.276	ug/L	72922.037			
>	45 Sc-1			480108.839	ug/L	480857.849			
	51 V	45.341044	0.975	385725.111	ug/L	-3998.332			
	57 Fe	19.849566	16.756	10407.277	ug/L	6512.532			
	66 Zn	29.025727	0.798	34602.872	ug/L	1229.399			
>	72 Ge-1			569767.367	ug/L	583818.267			
	75 As	124.582710	0.108	176444.967	ug/L	441.860			
	135 Ba	110.004884	1.174	190637.924	ug/L	109.668			
>	165 Ho-1			1282323.035	ug/L	1276414.382			
	205 Tl	106.434613	1.945	2012817.073	ug/L	6961.439			
	208 Pb	28.364133	1.386	741885.967	ug/L	6900.385			
	238 U	119.068687	1.250	1747455.443	ug/L	47.334			
>	45 Sc-2			480108.839	ug/L	480857.849			
	54 Fe	73.991580	10.089	74608.836	ug/L	37101.824			
	67 Zn	34.667255	7.897	27324.385	ug/L	20205.161			
	137 Ba	108.930810	1.688	326091.861	ug/L	196.003			
>	165 Ho-2			1282323.035	ug/L	1276414.382			
	203 Tl	105.438716	3.350	865826.751	ug/L	2942.667			
	206 Pb	27.826343	1.545	189347.383	ug/L	1714.787			
	207 Pb	27.907996	1.670	161155.394	ug/L	1555.100			

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	99.844
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	97.593
	As	75	
	Ba	135	
>	Ho-1	165	100.463
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	99.844
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	100.463
	Tl	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPA3D

Sample Date/Time: Friday, May 25, 2007 12:36:50

Autosampler Position: 32

Dataset File: D:\Elandata\Dataset\052507M1\JWPA3D.022

## Sample Result Summary

	Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23 Na	36179.405516		0.834	167406804.456		ug/L	14340.338
	24 Mg	9049.711434		0.874	31822672.821		ug/L	4546.769
	27 Al	108.731258		1.133	556944.797		ug/L	7803.209
	39 K	3389.229359		1.415	25288567.808		ug/L	787820.143
	44 Ca	17204.147636		1.339	4408175.819		ug/L	72922.037
>	45 Sc-1				489022.082		ug/L	480857.849
	51 V	43.298440		2.475	375022.842		ug/L	-3998.332
	57 Fe	20.170180		6.220	10662.339		ug/L	6512.532
	66 Zn	27.565818		1.226	33535.323		ug/L	1229.399
>	72 Ge-1				569817.419		ug/L	583818.267
	75 As	119.436163		1.933	169178.873		ug/L	441.860
	135 Ba	104.807979		1.091	182856.542		ug/L	109.668
>	165 Ho-1				1290827.937		ug/L	1276414.382
	205 Tl	101.505808		0.585	1932754.205		ug/L	6961.439
	208 Pb	27.098051		0.725	713838.863		ug/L	6900.385
	238 U	114.634864		0.642	1693361.100		ug/L	47.334
>	45 Sc-2				489022.082		ug/L	480857.849
	54 Fe	66.458171		11.527	72095.931		ug/L	37101.824
	67 Zn	31.974986		5.875	27265.602		ug/L	20205.161
	137 Ba	104.976407		0.890	316345.864		ug/L	196.003
>	165 Ho-2				1290827.937		ug/L	1276414.382
	203 Tl	102.151964		1.143	844666.419		ug/L	2942.667
	206 Pb	26.473710		0.235	181425.268		ug/L	1714.787
	207 Pb	26.405988		1.547	153593.437		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	101.698
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	97.602
	As	75	
	Ba	135	
>	Ho-1	165	101.129
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	101.698
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	101.129
	Tl	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message



## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPA4

Sample Date/Time: Friday, May 25, 2007 12:41:15

Autosampler Position: 33

Dataset File: D:\Elandata\Dataset\052507M1\JWPA4.023

## Sample Result Summary

Mass	Analyte	Conc.	Mean	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23	Na	34741.506723	2.072	158266037.548		ug/L	14340.338
	24	Mg	6472.377222	1.895	22409452.225		ug/L	4546.769
	27	Al	2.766062	2.805	21562.813		ug/L	7803.209
	39	K	739.167860	0.082	6046846.271		ug/L	787820.143
	44	Ca	14612.361676	0.458	3697026.882		ug/L	72922.037
>	45	Sc-1			481455.398		ug/L	480857.849
	51	V	17.857921	2.982	149922.949		ug/L	-3998.332
	57	Fe	-33.049654	4.123	5.572		ug/L	6512.532
	66	Zn	2.572460	2.883	4197.659		ug/L	1229.399
>	72	Ge-1			562664.239		ug/L	583818.267
	75	As	8.484474	7.156	12266.536		ug/L	441.860
	135	Ba	2.680104	1.048	4792.185		ug/L	109.668
>	165	Ho-1			1293134.001		ug/L	1276414.382
	205	Ti	0.082430	128.177	8611.770		ug/L	6961.439
	208	Pb	-0.054883	3.007	5556.476		ug/L	6900.385
	238	U	2.978961	2.849	44126.174		ug/L	47.334
>	45	Sc-2			481455.398		ug/L	480857.849
	54	Fe	13.738205	57.430	44118.159		ug/L	37101.824
	67	Zn	5.996143	49.176	21467.002		ug/L	20205.161
	137	Ba	2.695582	1.281	6330.512		ug/L	196.003
>	165	Ho-2			1293134.001		ug/L	1276414.382
	203	Ti	0.071475	148.848	3567.832		ug/L	2942.667
	206	Pb	-0.051836	10.211	1384.748		ug/L	1714.787
	207	Pb	-0.056644	7.092	1248.734		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	100.124
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	95.377
	As	75	
	Ba	135	
>	Ho-1	165	101.310
	Ti	205	
	Pb	208	
	U	238	
>	Sc-2	45	100.124
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	101.310
	Ti	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6

Sample Date/Time: Friday, May 25, 2007 12:45:41

Autosampler Position: 7

Dataset File: D:\Elandata\Dataset\052507M1\QC Std 6.024

## Sample Result Summary

Mass	Analyte	Conc.	MeanConc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23	Na	2151.730792	0.947	9574506.514	ug/L	14340.338	
	24	Mg	1067.972943	0.920	3610182.145	ug/L	4546.769	
	27	Al	2036.785761	0.506	9883452.798	ug/L	7803.209	
	39	K	2023.929983	0.531	14812200.676	ug/L	787820.143	
	44	Ca	1104.489880	1.651	338419.342	ug/L	72922.037	
>	45	Sc-1			469590.863	ug/L	480857.849	
	51	V	199.555164	1.042	1673784.373	ug/L	-3998.332	
	57	Fe	2158.666802	1.501	421455.044	ug/L	6512.532	
	66	Zn	198.840450	1.705	224810.171	ug/L	1229.399	
>	72	Ge-1			562922.783	ug/L	583818.267	
	75	As	198.654185	2.129	277711.837	ug/L	441.860	
	135	Ba	191.790969	1.377	334639.398	ug/L	109.668	
>	165	Ho-1			1291482.070	ug/L	1276414.382	
	205	Tl	195.379267	0.650	3715895.176	ug/L	6981.439	
	208	Pb	202.936124	1.037	5302661.285	ug/L	6900.385	
	238	U	213.325185	1.252	3152525.935	ug/L	47.334	
>	45	Sc-2			469590.863	ug/L	480857.849	
	54	Fe	2113.517448	1.776	1085884.049	ug/L	37101.824	
	67	Zn	193.771902	2.500	58824.452	ug/L	20205.161	
	137	Ba	192.804236	1.729	581038.475	ug/L	196.003	
>	165	Ho-2			1291482.070	ug/L	1276414.382	
	203	Tl	192.855137	0.800	1592841.945	ug/L	2942.667	
	206	Pb	207.467555	1.962	1410416.154	ug/L	1714.787	
	207	Pb	200.093371	1.801	1153812.206	ug/L	1555.100	

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	107.587
	Mg	24	106.797
	Al	27	101.839
	K	39	101.196
	Ca	44	110.449
>	Sc-1	45	97.657
	V	51	99.778
	Fe	57	107.933
	Zn	66	99.420
>	Ge-1	72	98.421
	As	75	99.327
	Ba	135	95.895
>	Ho-1	165	101.180
	Tl	205	97.690
	Pb	208	101.468
	U	238	106.663
>	Sc-2	45	97.657
	Fe	54	105.878
	Zn	67	96.886
	Ba	137	96.402
>	Ho-2	165	101.180
	Tl	203	96.428
	Pb	206	103.734
	Pb	207	100.047

## QC Out Of Limits

Analyte Mass Out of Limits Message  
Ca 44 Q

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 7

Sample Date/Time: Friday, May 25, 2007 12:50:35

Autosampler Position: 1

Dataset File: D:\Elandata\Dataset\052507M1\QC Std 7.025

## Sample Result Summary

Mass	Analyte	Conc.	Mean	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23	Na	0.769911	7.241	17029.652	ug/L	14340.338	
	24	Mg	0.142998	22.580	4810.191	ug/L	4546.769	
	27	Al	0.037223	87.211	7622.109	ug/L	7803.209	
	39	K	-5.243765	35.723	716212.419	ug/L	787820.143	
	44	Ca	-29.524373	12.248	62806.178	ug/L	72922.037	
>	45	Sc-1			458894.348	ug/L	480857.849	
	51	V	-0.548096	52.198	-8329.977	ug/L	-3998.332	
	57	Fe	0.019615	4213.303	6217.818	ug/L	6512.532	
	66	Zn	-0.072224	91.103	1093.386	ug/L	1229.399	
>	72	Ge-1			547733.958	ug/L	583818.267	
	75	As	0.038342	1440.138	464.455	ug/L	441.860	
	135	Ba	0.003009	89.381	113.002	ug/L	109.668	
>	165	Ho-1			1255959.236	ug/L	1276414.382	
	205	Tl	0.135681	67.743	9344.542	ug/L	6981.439	
	208	Pb	-0.099114	2.869	4273.959	ug/L	6900.385	
	238	U	0.002398	44.146	81.001	ug/L	47.334	
>	45	Sc-2			458894.348	ug/L	480857.849	
	54	Fe	4.272222	148.841	37478.931	ug/L	37101.824	
	67	Zn	2.150783	70.128	19705.781	ug/L	20205.161	
	137	Ba	-0.003783	151.002	181.670	ug/L	196.003	
>	165	Ho-2			1255959.236	ug/L	1276414.382	
	203	Tl	0.132191	68.843	3950.597	ug/L	2942.667	
	206	Pb	-0.092226	5.829	1078.051	ug/L	1714.787	
	207	Pb	-0.105617	1.842	938.707	ug/L	1555.100	

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	0.770
	Mg	24	0.143
	Al	27	0.037
	K	39	-5.244
	Ca	44	-29.524
>	Sc-1	45	95.432
	V	51	-54.810
	Fe	57	0.020
	Zn	66	-7.222
>	Ge-1	72	93.819
	As	75	3.834
	Ba	135	0.301
>	Ho-1	165	98.397
	Tl	205	13.588
	Pb	208	-9.911
	U	238	0.240
>	Sc-2	45	95.432
	Fe	54	4.272
	Zn	67	215.078
	Ba	137	-0.378
>	Ho-2	165	98.397
	Tl	203	13.219
	Pb	206	-9.223
	Pb	207	-10.562

## QC Out Of Limits

Analyte Mass Out of Limits Message  
Zn 67 Q

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPA5

Sample Date/Time: Friday, May 25, 2007 12:55:29

Autosampler Position: 34

Dataset File: D:\Elandata\Dataset\052507M1\JWPA5.026

### Sample Result Summary

	Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23 Na	36716.796698	4.813		165202741.063		ug/L	14340.338
	24 Mg	8788.455892	3.154		30045802.700		ug/L	4546.769
	27 Al	52.107408	4.129		263560.438		ug/L	7803.209
	39 K	727.735326	3.753		5891082.682		ug/L	787820.143
	44 Ca	16155.915584	3.588		4029248.269		ug/L	72922.037
>	45 Sc-1				475463.380		ug/L	480857.849
	51 V	-5.229004	21.334		-48529.638		ug/L	-3998.332
	57 Fe	-2.892357	49.688		5877.936		ug/L	6512.532
	66 Zn	3.107167	2.879		4753.172		ug/L	1229.399
>	72 Ge-1				564868.067		ug/L	583818.267
	75 As	2.756522	18.622		4288.668		ug/L	441.860
	135 Ba	1.529356	7.522		2789.301		ug/L	109.668
>	165 Ho-1				1296970.786		ug/L	1276414.382
	205 Tl	-0.065457	75.618		5820.929		ug/L	6961.439
	208 Pb	-0.081050	9.659		5410.454		ug/L	6900.385
	238 U	0.485287	6.583		7247.915		ug/L	47.334
>	45 Sc-2				475463.380		ug/L	480857.849
	54 Fe	53.414583	18.042		63580.978		ug/L	37101.824
	67 Zn	2.944893	40.631		20581.693		ug/L	20205.161
	137 Ba	1.544510	4.501		4871.213		ug/L	196.003
>	165 Ho-2				1296970.786		ug/L	1276414.382
	203 Tl	-0.076483	58.965		2354.887		ug/L	2942.667
	206 Pb	-0.058821	13.637		1340.743		ug/L	1714.787
	207 Pb	-0.062821	7.908		1216.397		ug/L	1555.100

### Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	98.878
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	98.754
	As	75	
	Ba	135	
>	Ho-1	165	101.610
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	98.878
	Fe	54	
	Zn	57	
	Ba	137	
>	Ho-2	165	101.610
	Tl	203	
	Pb	206	
	Pb	207	

### QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPA6

Sample Date/Time: Friday, May 25, 2007 12:59:54

Autosampler Position: 35

Dataset File: D:\Elandata\Dataset\052507M1\JWPA6.027

## Sample Result Summary

Mass	Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
23	Na	34213.394473	4.300	150382067.079	ug/L	14340.338			
24	Mg	8321.499524	3.324	27797495.430	ug/L	4546.769			
27	Al	0.762779	3.684	11200.835	ug/L	7803.209			
39	K	712.583453	2.147	5653036.076	ug/L	787820.143			
44	Ca	15582.595478	2.570	3799844.447	ug/L	72922.037			
>	45	Sc-1		464708.943	ug/L	480857.849			
	51	V	-5.903649	15.001	-52916.286	ug/L	-3998.332		
	57	Fe	-32.538720	5.783	104.049	ug/L	6512.532		
	66	Zn	2.835843	2.154	4343.704	ug/L	1229.399		
>	72	Ge-1		552285.688	ug/L	583818.267			
	75	As	1.298460	55.904	2194.668	ug/L	441.860		
	135	Ba	0.954379	4.756	1736.123	ug/L	109.668		
>	165	Ho-1		1263153.459	ug/L	1276414.382			
	205	Tl	-0.154709	16.649	4015.276	ug/L	6961.439		
	208	Pb	-0.089895	3.881	4533.323	ug/L	6900.385		
	238	U	0.456147	2.294	6639.276	ug/L	47.334		
>	45	Sc-2		464708.943	ug/L	480857.849			
	54	Fe	21.795540	32.254	46546.161	ug/L	37101.824		
	67	Zn	1.118229	208.144	19745.836	ug/L	20205.161		
	137	Ba	0.968350	3.468	3046.689	ug/L	196.003		
>	165	Ho-2		1263153.459	ug/L	1276414.382			
	203	Tl	-0.151739	17.566	1687.117	ug/L	2942.667		
	206	Pb	-0.079357	3.805	1169.726	ug/L	1714.787		
	207	Pb	-0.093554	7.033	1011.713	ug/L	1555.100		

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
>	45	96.642	
V	51		
Fe	57		
Zn	66		
>	72	94.599	
As	75		
Ba	135		
>	165	98.961	
Tl	205		
Pb	208		
U	238		
>	45	96.642	
Fe	54		
Zn	67		
Ba	137		
>	165	98.961	
Tl	203		
Pb	206		
Pb	207		

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPA7

Sample Date/Time: Friday, May 25, 2007 13:04:21

Autosampler Position: 36

Dataset File: D:\Elandata\Dataset\052507M1\JWPA7.028

## Sample Result Summary

Mass	Analyte	Conc.	MeanConc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23 Na	35550.066463	2.166		157566106.819		ug/L	14340.338
	24 Mg	8577.888154	2.155		28891380.405		ug/L	4546.769
	27 Al	4.088980	3.180		27378.160		ug/L	7803.209
	39 K	730.236057	2.006		5821221.538		ug/L	787820.143
	44 Ca	16151.852207	1.827		3968336.581		ug/L	72922.037
>	45 Sc-1				468408.530		ug/L	480857.849
	51 V	-5.582310	26.943		-50687.744		ug/L	-3998.332
	57 Fe	-31.167933	10.486		363.071		ug/L	6512.532
	66 Zn	2.912156	1.287		4464.409		ug/L	1229.399
>	72 Ge-1				558757.361		ug/L	583818.267
	75 As	1.567620	14.655		2593.796		ug/L	441.860
	135 Ba	1.063596	0.949		1953.820		ug/L	109.668
>	165 Ho-1				1283200.237		ug/L	1276414.382
	205 Tl	-0.188825	9.907		3439.118		ug/L	6961.439
	208 Pb	-0.093871	3.819		4503.320		ug/L	6900.385
	238 U	0.471816	1.503		6976.440		ug/L	47.334
>	45 Sc-2				468408.530		ug/L	480857.849
	54 Fe	22.057578	54.382		47059.843		ug/L	37101.824
	67 Zn	0.343708	762.788		19750.513		ug/L	20205.161
	137 Ba	1.041521	0.269		3315.084		ug/L	196.003
>	165 Ho-2				1283200.237		ug/L	1276414.382
	203 Tl	-0.184815	12.488		1445.422		ug/L	2942.667
	206 Pb	-0.089766	7.855		1118.388		ug/L	1714.787
	207 Pb	-0.092742	3.323		1032.714		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	97.411
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	95.707
	As	75	
	Ba	135	
>	Ho-1	165	100.532
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	97.411
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	100.532
	Tl	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPA8

Sample Date/Time: Friday, May 25, 2007 13:08:47

Autosampler Position: 37

Dataset File: D:\Elandata\Dataset\052507M1\JWPA8.029

## Sample Result Summary

Mass	Analyte	Conc.	MeanConc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23 Na	26256.111927	2.250		117367094.048		ug/L	14340.338
	24 Mg	4137.466592	1.586		14057010.258		ug/L	4546.769
	27 Al	1.383214	1.674		14414.413		ug/L	7803.209
	39 K	586.986556	1.988		4871115.764		ug/L	787820.143
	44 Ca	10495.699456	0.785		2626031.014		ug/L	72922.037
>	45 Sc-1				472464.036		ug/L	480857.849
	51 V	0.333425	166.167		-1088.805		ug/L	-3996.332
	57 Fe	644.792768	1.286		131150.941		ug/L	6512.532
	66 Zn	3.114215	3.214		4731.164		ug/L	1229.399
>	72 Ge-1				567281.601		ug/L	583818.267
	75 As	1.839542	8.421		3017.102		ug/L	441.860
	135 Ba	0.732233	1.614		1389.081		ug/L	109.668
>	165 Ho-1				1292044.138		ug/L	1276414.382
	205 Tl	-0.199032	6.296		3268.408		ug/L	6961.439
	208 Pb	-0.081345	1.939		4860.704		ug/L	6900.385
	238 U	0.976259	1.883		14485.491		ug/L	47.334
>	45 Sc-2				472464.036		ug/L	480857.849
	54 Fe	672.662466	3.038		372548.458		ug/L	37101.824
	67 Zn	3.613243	55.441		20583.692		ug/L	20205.161
	137 Ba	0.728932	2.381		2396.225		ug/L	196.003
>	165 Ho-2				1292044.138		ug/L	1276414.382
	203 Tl	-0.192803	7.067		1389.415		ug/L	2942.667
	206 Pb	-0.076995	5.661		1212.397		ug/L	1714.787
	207 Pb	-0.082990	4.706		1096.053		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	98.254
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	97.167
	As	75	
	Ba	135	
>	Ho-1	165	101.225
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	98.254
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	101.225
	Tl	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPA9

Sample Date/Time: Friday, May 25, 2007 13:13:14

Autosampler Position: 38

Dataset File: D:\Elandata\Dataset\052507M1\JWPA9.030

## Sample Result Summary

Mass	Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23 Na	25437.123300	1.571		113870314.019		ug/L	14340.338
	24 Mg	3891.436635	1.405		13239777.231		ug/L	4546.769
	27 Al	0.803227	4.025		11601.493		ug/L	7803.209
	39 K	537.385533	2.929		4531100.594		ug/L	787820.143
	44 Ca	8177.850784	1.446		2064663.484		ug/L	72922.037
>	45 Sc-1				473096.170		ug/L	480857.849
	51 V	-0.305669	118.295		-6529.405		ug/L	-3998.332
	57 Fe	-3.124420	54.453		5802.205		ug/L	6512.532
	66 Zn	3.035676	0.845		4649.136		ug/L	1229.399
>	72 Ge-1				564766.104		ug/L	583818.267
	75 As	0.826917	18.901		1585.395		ug/L	441.860
	135 Ba	0.411703	2.358		833.033		ug/L	109.668
>	165 Ho-1				1297618.185		ug/L	1276414.382
	205 Tl	-0.209518	7.310		3082.366		ug/L	6961.439
	208 Pb	-0.098202	1.542		4439.977		ug/L	6900.385
	238 U	1.048681	0.888		15620.693		ug/L	47.334
>	45 Sc-2				473096.170		ug/L	480857.849
	54 Fe	22.227054	32.048		47632.785		ug/L	37101.824
	67 Zn	4.414582	11.469		20776.639		ug/L	20205.161
	137 Ba	0.402930	0.413		1419.085		ug/L	196.003
>	165 Ho-2				1297618.185		ug/L	1276414.382
	203 Tl	-0.206811	9.290		1279.071		ug/L	2942.667
	206 Pb	-0.091695	5.945		1117.722		ug/L	1714.787
	207 Pb	-0.097484	2.989		1016.713		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	98.386
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	98.737
	As	75	
	Ba	135	
>	Ho-1	165	101.661
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	98.386
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	101.661
	Tl	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message



## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPCA

Sample Date/Time: Friday, May 25, 2007 13:17:42

Autosampler Position: 39

Dataset File: D:\Eiandata\Dataset\052507M1\JWPCA.031

## Sample Result Summary

	Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23 Na	25776.498031	1.848		114919799.596		ug/L	14340.338
	24 Mg	3930.191929	1.459		13317572.814		ug/L	4546.769
	27 Al	1.107591	3.465		13034.742		ug/L	7803.209
	39 K	542.131536	0.945		4545991.950		ug/L	787820.143
	44 Ca	8439.363435	1.500		2119823.140		ug/L	72922.037
>	45 Sc-1				471172.393		ug/L	480857.849
	51 V	0.061229	1262.239		-3411.842		ug/L	-3998.332
	57 Fe	176.063041	1.536		40354.976		ug/L	6512.532
	66 Zn	1.922956	4.758		3374.766		ug/L	1229.399
>	72 Ge-1				564381.341		ug/L	583818.267
	75 As	2.449933	23.340		3859.250		ug/L	441.860
	135 Ba	0.440288	2.151		874.035		ug/L	109.668
>	165 Ho-1				1284147.178		ug/L	1276414.382
	205 Tl	-0.228965	7.316		2681.281		ug/L	6961.439
	208 Pb	-0.108235	1.788		4133.273		ug/L	6900.385
	238 U	1.034417	1.136		15247.619		ug/L	47.334
>	45 Sc-2				471172.393		ug/L	480857.849
	54 Fe	205.413933	4.743		138722.961		ug/L	37101.824
	67 Zn	2.605689	76.787		20325.991		ug/L	20205.161
	137 Ba	0.454202	4.775		1558.101		ug/L	198.003
>	165 Ho-2				1284147.178		ug/L	1276414.382
	203 Tl	-0.221217	5.379		1146.724		ug/L	2942.667
	206 Pb	-0.100658	3.282		1045.382		ug/L	1714.787
	207 Pb	-0.110430	2.334		932.040		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	97.986
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	96.871
	As	75	
	Ba	135	
>	Ho-1	165	100.606
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	97.986
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	100.606
	Tl	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPCD

Sample Date/Time: Friday, May 25, 2007 13:22:06

Autosampler Position: 40

Dataset File: D:\Elandata\Dataset\052507M1\JWPCD.032

## Sample Result Summary

Mass	Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23 Na	20907.512687	1.719		94251317.262		ug/L	14340.338
	24 Mg	1582.487315	1.818		5424330.255		ug/L	4546.769
	27 Al	9.372515	1.704		53832.445		ug/L	7803.209
	39 K	327.952779	2.031		3088798.259		ug/L	787820.143
	44 Ca	2477.564649	1.721		680212.921		ug/L	72922.037
>	45 Sc-1				476400.851		ug/L	480857.849
	51 V	0.374192	99.741		-784.021		ug/L	-3998.332
	57 Fe	-1.183064	14.202		6221.377		ug/L	6512.532
	66 Zn	10.754143	2.961		13486.499		ug/L	1229.399
[>	72 Ge-1				569777.256		ug/L	583818.267
	75 As	1.895721	48.208		3112.374		ug/L	441.860
	135 Ba	0.550998	0.985		1070.051		ug/L	109.668
>	165 Ho-1				1288938.724		ug/L	1276414.382
	205 Tl	-0.234034	6.549		2596.597		ug/L	6961.439
	208 Pb	-0.101830	1.352		4315.635		ug/L	6900.385
	238 U	0.256042	3.121		3823.883		ug/L	47.334
[>	45 Sc-2				476400.851		ug/L	480857.849
	54 Fe	12.508611	42.114		43060.039		ug/L	37101.824
	67 Zn	9.617334	15.447		21985.793		ug/L	20205.161
	137 Ba	0.553748	2.665		1863.140		ug/L	196.003
>	165 Ho-2				1288938.724		ug/L	1276414.382
	203 Tl	-0.229297	12.546		1085.387		ug/L	2942.667
	206 Pb	-0.099359	5.012		1058.050		ug/L	1714.787
	207 Pb	-0.109479	2.978		941.040		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	99.073
	V	51	
	Fe	57	
	Zn	66	
[>	Ge-1	72	97.595
	As	75	
	Ba	135	
>	Ho-1	165	100.981
	Tl	205	
	Pb	208	
	U	238	
[>	Sc-2	45	99.073
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	100.981
	Tl	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPCF

Sample Date/Time: Friday, May 25, 2007 13:26:26

Autosampler Position: 41

Dataset File: D:\Elandata\Dataset\052507M1\JWPCF.033

### Sample Result Summary

Mass	Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23	Na	20731.118727	1.864		93503150.838		ug/L	14340.338
	24	Mg	1551.684937	1.699		5321646.876		ug/L	4546.769
	27	Al	0.748827	7.349		11419.678		ug/L	7803.209
	39	K	320.318813	2.620		3036661.965		ug/L	787820.143
	44	Ca	2412.549388	0.903		664633.624		ug/L	72922.037
>	45	Sc-1				476654.524		ug/L	480857.849
	51	V	-0.126880	496.057		-5024.020		ug/L	-3998.332
	57	Fe	-7.152136	6.587		5058.999		ug/L	6512.532
	66	Zn	1.852418	2.183		3333.089		ug/L	1229.399
>	72	Ge-1				569438.109		ug/L	583818.267
	75	As	1.991840	14.839		3244.926		ug/L	441.860
	135	Ba	0.443269	2.333		890.037		ug/L	109.668
>	165	Ho-1				1300109.012		ug/L	1276414.382
	205	Tl	-0.238325	6.738		2535.252		ug/L	6961.439
	208	Pb	-0.116870	1.910		3958.249		ug/L	6900.385
	238	U	0.249683	1.273		3763.200		ug/L	47.334
>	45	Sc-2				476654.524		ug/L	480857.849
	54	Fe	7.992704	72.801		40805.253		ug/L	37101.824
	67	Zn	1.974139	110.155		20431.140		ug/L	20205.161
	137	Ba	0.441554	3.667		1538.765		ug/L	196.003
>	165	Ho-2				1300109.012		ug/L	1276414.382
	203	Tl	-0.235517	7.126		1042.049		ug/L	2942.667
	206	Pb	-0.105761	5.252		1023.714		ug/L	1714.787
	207	Pb	-0.116089	4.181		911.038		ug/L	1555.100

### Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	99.126
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	97.537
	As	75	
	Ba	135	
>	Ho-1	165	101.856
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	99.126
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	101.856
	Tl	203	
	Pb	206	
	Pb	207	

### QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPCG

Sample Date/Time: Friday, May 25, 2007 13:30:48

Autosampler Position: 42

Dataset File: D:\Elandata\Dataset\052507M1\JWPCG.034

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[ 23 Na	20729.210208		0.232	92758679.062		ug/L	14340.338
[ 24 Mg	1546.597135		0.202	5262467.765		ug/L	4546.769
[ 27 Al	3.307598		2.881	23820.749		ug/L	7803.209
[ 39 K	330.251832		0.557	3082221.243		ug/L	787820.143
[ 44 Ca	2385.349984		0.297	852760.694		ug/L	72922.037
> 45 Sc-1				472881.800		ug/L	480857.849
[ 51 V	0.283599	177.927		-1549.060		ug/L	-3998.332
[ 57 Fe	-3.670082	12.424		5693.804		ug/L	6512.532
[ 66 Zn	1.930318	2.471		3394.771		ug/L	1229.399
> 72 Ge-1				568380.516		ug/L	583818.267
[ 75 As	2.317905	5.085		3696.104		ug/L	441.860
[ 135 Ba	0.496227	4.918		980.710		ug/L	109.668
> 165 Ho-1				1296844.919		ug/L	1276414.382
[ 205 Tl	-0.238759	6.446		2520.249		ug/L	6961.439
[ 208 Pb	-0.114705	5.421		4003.923		ug/L	6900.385
[ 238 U	0.240209	0.642		3612.826		ug/L	47.334
> 45 Sc-2				472881.800		ug/L	480857.849
[ 54 Fe	10.450972	84.733		41680.204		ug/L	37101.824
[ 67 Zn	3.515030	97.413		20579.022		ug/L	20205.161
[ 137 Ba	0.461755	1.748		1596.105		ug/L	196.003
> 165 Ho-2				1296844.919		ug/L	1276414.382
[ 203 Tl	-0.234126	7.363		1050.716		ug/L	2942.667
[ 206 Pb	-0.106044	3.415		1019.047		ug/L	1714.787
[ 207 Pb	-0.116887	7.155		903.704		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Na	23		
[ Mg	24		
[ Al	27		
[ K	39		
[ Ca	44		
> Sc-1	45	98.341	
[ V	51		
[ Fe	57		
[ Zn	66		
> Ge-1	72	97.358	
[ As	75		
[ Ba	135		
> Ho-1	165	101.601	
[ Tl	205		
[ Pb	208		
[ U	238		
> Sc-2	45	98.341	
[ Fe	54		
[ Zn	67		
[ Ba	137		
> Ho-2	165	101.601	
[ Tl	203		
[ Pb	206		
[ Pb	207		

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPKK

Sample Date/Time: Friday, May 25, 2007 13:35:09

Autosampler Position: 43

Dataset File: D:\Elandata\Dataset\052507M1\JWPKK.035

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
23 Na	34037.223161	1.900	150159361.847	ug/L	14340.338
24 Mg	5432.283817	0.688	18215181.266	ug/L	4546.769
27 Al	1.253323	2.688	13600.607	ug/L	7803.209
39 K	465.110863	1.023	3968881.565	ug/L	787820.143
44 Ca	12004.891296	0.581	2954640.757	ug/L	72922.037
> 45 Sc-1			466326.742	ug/L	480857.849
51 V	-2.959387	13.512	-28612.483	ug/L	-3998.332
57 Fe	-27.025638	9.411	1157.659	ug/L	6512.532
66 Zn	2.048968	2.079	3480.125	ug/L	1229.399
> 72 Ge-1			560529.203	ug/L	583818.267
75 As	1.803342	30.673	2927.806	ug/L	441.860
135 Ba	0.729324	1.985	1355.745	ug/L	109.668
> 165 Ho-1			1265785.439	ug/L	1276414.382
205 Tl	-0.236840	8.570	2495.246	ug/L	6961.439
208 Pb	-0.119486	0.828	3786.566	ug/L	6900.385
238 U	0.584557	2.382	8513.622	ug/L	47.334
> 45 Sc-2			466326.742	ug/L	480857.849
54 Fe	15.831656	62.589	43736.505	ug/L	37101.824
67 Zn	4.362167	87.339	20460.517	ug/L	20205.161
137 Ba	0.698907	1.860	2258.201	ug/L	196.003
> 165 Ho-2			1265785.439	ug/L	1276414.382
203 Tl	-0.233398	8.541	1031.381	ug/L	2942.667
206 Pb	-0.113767	2.814	943.374	ug/L	1714.787
207 Pb	-0.121350	4.318	857.034	ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	96.978	
V	51		
Fe	57		
Zn	66		
> Ge-1	72	96.011	
As	75		
Ba	135		
> Ho-1	165	99.167	
Tl	205		
Pb	208		
U	238		
> Sc-2	45	96.978	
Fe	54		
Zn	67		
Ba	137		
> Ho-2	165	99.167	
Tl	203		
Pb	206		
Pb	207		

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6

Sample Date/Time: Friday, May 25, 2007 13:39:34

Autosampler Position: 7

Dataset File: D:\Elandata\Dataset\052507M1\QC Std 6.036

## Sample Result Summary

Mass	Analyte	Conc.	MeanConc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23	Na	2127.208615	2.045	9388571.378	ug/L	14340.338	
	24	Mg	1058.461872	2.245	3548834.058	ug/L	4546.769	
	27	Al	2049.113284	1.944	9862857.503	ug/L	7803.209	
	39	K	2026.441255	1.481	14709624.049	ug/L	787820.143	
	44	Ca	1102.681253	0.712	335220.082	ug/L	72922.037	
>	45	Sc-1			465801.868	ug/L	480857.849	
	51	V	202.561595	1.695	1685352.229	ug/L	-3998.332	
	57	Fe	2193.383772	0.833	424724.851	ug/L	6512.532	
	66	Zn	200.215319	1.148	224551.499	ug/L	1229.399	
>	72	Ge-1			558714.968	ug/L	583818.267	
	75	As	200.682902	1.617	278438.729	ug/L	441.860	
	135	Ba	193.858747	1.770	332446.176	ug/L	109.668	
>	165	Ho-1			1269334.124	ug/L	1276414.382	
	205	Tl	194.036738	2.821	3626186.696	ug/L	6961.439	
	208	Pb	202.840858	1.416	5209217.097	ug/L	6900.385	
	238	U	211.036094	2.345	3065024.746	ug/L	47.334	
>	45	Sc-2			465801.868	ug/L	480857.849	
	54	Fe	2136.077363	0.503	1088302.316	ug/L	37101.824	
	67	Zn	195.492034	2.027	58699.276	ug/L	20205.161	
	137	Ba	193.702743	1.670	573758.719	ug/L	196.003	
>	165	Ho-2			1269334.124	ug/L	1276414.382	
	203	Tl	194.431266	1.866	1578172.948	ug/L	2942.667	
	206	Pb	207.458453	1.028	1386315.064	ug/L	1714.787	
	207	Pb	199.360569	0.577	1130020.631	ug/L	1555.100	

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	106.380
	Mg	24	105.648
	Al	27	102.456
	K	39	101.322
	Ca	44	110.268
>	Sc-1	45	96.869
	V	51	101.281
	Fe	57	109.669
	Zn	66	100.108
>	Ge-1	72	95.700
	As	75	100.341
	Ba	135	96.929
>	Ho-1	165	99.445
	Tl	205	97.018
	Pb	208	101.420
	U	238	105.518
>	Sc-2	45	96.869
	Fe	54	106.804
	Zn	67	97.746
	Ba	137	96.851
>	Ho-2	165	99.445
	Tl	203	97.216
	Pb	206	103.729
	Pb	207	99.680

## QC Out Of Limits

Analyte Mass Out of Limits Message  
Ca 44 Q

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 7

Sample Date/Time: Friday, May 25, 2007 13:44:28

Autosampler Position: 1

Dataset File: D:\Elandata\Dataset\052507M1\QC Std 7.037

## Sample Result Summary

Mass	Analyte	Conc.	Mean	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23	Na	1.202198	7.530	18857.631	ug/L	14340.338	
	24	Mg	0.119052	7.585	4719.827	ug/L	4546.769	
	27	Al	0.014363	132.010	7498.041	ug/L	7803.209	
	39	K	-6.099545	32.508	708613.682	ug/L	787820.143	
	44	Ca	-41.891812	6.033	59535.398	ug/L	72922.037	
>	45	Sc-1			457735.152	ug/L	480857.849	
	51	V	0.111287	77.107	-2890.330	ug/L	-3998.332	
	57	Fe	-1.126089	61.311	5987.707	ug/L	6512.532	
	66	Zn	-0.086177	16.536	1075.718	ug/L	1229.399	
>	72	Ge-1			551710.611	ug/L	583818.267	
	75	As	-0.330998	63.091	-34.173	ug/L	441.860	
	135	Ba	0.007522	57.013	119.002	ug/L	109.668	
>	165	Ho-1			1239255.868	ug/L	1276414.382	
	205	Tl	0.106196	82.759	8688.119	ug/L	6961.439	
	208	Pb	-0.113242	2.742	3863.908	ug/L	6900.385	
	238	U	0.003301	45.979	92.668	ug/L	47.334	
>	45	Sc-2			457735.152	ug/L	480857.849	
	54	Fe	2.512216	223.063	36544.790	ug/L	37101.824	
	67	Zn	1.029631	191.758	19437.415	ug/L	20205.161	
	137	Ba	0.003508	148.566	200.337	ug/L	196.003	
>	165	Ho-2			1239255.868	ug/L	1276414.382	
	203	Tl	0.101904	74.394	3660.847	ug/L	2942.667	
	206	Pb	-0.107442	3.417	964.709	ug/L	1714.787	
	207	Pb	-0.115212	5.513	873.369	ug/L	1555.100	

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	1.202
	Mg	24	0.119
	Al	27	0.014
	K	39	-6.100
	Ca	44	-41.892
>	Sc-1	45	95.191
	V	51	11.129
	Fe	57	-1.126
	Zn	66	-8.618
>	Ge-1	72	94.600
	As	75	-33.100
	Ba	135	0.752
>	Ho-1	165	97.089
	Tl	205	10.620
	Pb	208	-11.324
	U	238	0.330
>	Sc-2	45	95.181
	Fe	54	2.512
	Zn	67	102.963
	Ba	137	0.351
>	Ho-2	165	97.089
	Tl	203	10.190
	Pb	206	-10.744
	Pb	207	-11.521

## QC Out Of Limits

Analyte Mass Out of Limits Message  
Zn 67 Q

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPCN

Sample Date/Time: Friday, May 25, 2007 13:49:20

Autosampler Position: 44

Dataset File: D:\Elandata\Dataset\052507M1\JWPCN.038

## Sample Result Summary

Mass	Analyte	Conc.	MeanConc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23 Na	34679.690544	1.289		153635205.532		ug/L	14340.338
	24 Mg	5679.585348	1.580		19121293.834		ug/L	4546.769
	27 Al	16.945001	1.167		89505.416		ug/L	7803.209
	39 K	470.347890	1.619		4020790.352		ug/L	787820.143
	44 Ca	12355.365011	1.024		3050879.228		ug/L	72922.037
>	45 Sc-1				468161.803		ug/L	480857.849
	51 V	-3.688824	45.048		-34738.269		ug/L	-3998.332
	57 Fe	-17.177899	13.244		3048.009		ug/L	6512.532
	66 Zn	1.949615	1.665		3383.101		ug/L	1229.399
>	72 Ge-1				561514.268		ug/L	583818.267
	75 As	1.921405	15.959		3099.954		ug/L	441.860
	135 Ba	0.897495	0.762		1653.446		ug/L	109.668
>	165 Ho-1				1273596.118		ug/L	1276414.382
	205 Tl	-0.096602	47.577		5139.327		ug/L	6961.439
	208 Pb	-0.111094	0.926		4026.262		ug/L	6900.385
	238 U	0.625485	0.926		9162.696		ug/L	47.334
>	45 Sc-2				468161.803		ug/L	480857.849
	54 Fe	26.772681	37.752		49345.309		ug/L	37101.824
	67 Zn	2.519672	134.023		20174.108		ug/L	20205.161
	137 Ba	0.887213	4.377		2832.643		ug/L	196.003
>	165 Ho-2				1273596.118		ug/L	1276414.382
	203 Tl	-0.094437	48.824		2169.190		ug/L	2942.667
	206 Pb	-0.101497	4.954		1031.048		ug/L	1714.787
	207 Pb	-0.119054	4.364		875.702		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	97.380
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	96.180
	As	75	
	Ba	135	
>	Ho-1	165	99.779
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	97.380
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	99.779
	Tl	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message



## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWPCP

Sample Date/Time: Friday, May 25, 2007 13:53:43

Autosampler Position: 45

Dataset File: D:\Elandata\Dataset\052507M1\JWPCP.039

### Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[ 23 Na	505.014449		1.967	2329607.694		ug/L	14340.338
24 Mg	131.751887		0.453	463567.046		ug/L	4546.769
27 Al	70.987840		0.745	363042.051		ug/L	7803.209
39 K	84.663435		3.827	1399919.753		ug/L	787820.143
44 Ca	560.082691		2.593	213270.320		ug/L	72922.037
> 45 Sc-1				484578.120		ug/L	480857.849
51 V	-2.014287	11.232		-21494.717		ug/L	-3996.332
57 Fe	74.141241		1.677	21275.263		ug/L	6512.532
66 Zn	13.823281		1.854	17279.951		ug/L	1229.399
> 72 Ge-1				580333.089		ug/L	583818.267
75 As	-0.367709	81.699		-87.525		ug/L	441.860
135 Ba	5.458336		0.264	9922.211		ug/L	109.668
> 165 Ho-1				1330278.607		ug/L	1276414.382
205 Tl	-0.100769	34.647		5281.705		ug/L	6961.439
208 Pb	0.260946		1.173	14205.919		ug/L	6900.385
238 U	0.017962		7.296	322.674		ug/L	47.334
> 45 Sc-2				484578.120		ug/L	480857.849
54 Fe	155.133216		3.114	116905.666		ug/L	37101.824
67 Zn	53.663042		8.774	31529.080		ug/L	20205.161
137 Ba	5.408335		0.519	16989.935		ug/L	196.003
> 165 Ho-2				1330278.607		ug/L	1276414.382
203 Tl	-0.099980	31.272		2216.529		ug/L	2942.667
206 Pb	0.249614		3.198	3533.472		ug/L	1714.787
207 Pb	0.251162		0.515	3110.703		ug/L	1555.100

### Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[ Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	100.774	
V	51		
Fe	57		
Zn	66		
> Ge-1	72	99.403	
As	75		
Ba	135		
> Ho-1	165	104.220	
Tl	205		
Pb	208		
U	238		
> Sc-2	45	100.774	
Fe	54		
Zn	67		
Ba	137		
> Ho-2	165	104.220	
Tl	203		
Pb	206		
Pb	207		

### QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW3MAB

Sample Date/Time: Friday, May 25, 2007 13:58:06

Autosampler Position: 46

Dataset File: D:\Elandata\Dataset\052507M1\JW3MAB.040

## Sample Result Summary

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[ 23 Na	4.773786	3.929	35825.895	ug/L	14340.338			
[ 24 Mg	0.068506	94.541	4752.172	ug/L	4546.769			
[ 27 Al	7.279805	0.957	43670.752	ug/L	7803.209			
[ 39 K	-5.417090	15.885	744582.701	ug/L	787820.143			
[ 44 Ca	-31.655786	11.596	64666.012	ug/L	72922.037			
> 45 Sc-1			477839.518	ug/L	480857.849			
[ 51 V	-1.983568	36.243	-20906.917	ug/L	-3998.332			
[ 57 Fe	1.628699	34.214	6790.963	ug/L	6512.532			
[ 66 Zn	2.658476	3.773	4263.679	ug/L	1229.399			
> 72 Ge-1			572511.257	ug/L	583818.267			
[ 75 As	-0.609229	68.820	-430.469	ug/L	441.860			
[ 135 Ba	0.080773	10.871	251.338	ug/L	109.668			
> 165 Ho-1			1288758.451	ug/L	1276414.382			
[ 205 Tl	-0.166696	15.455	3870.235	ug/L	6961.439			
[ 208 Pb	-0.072989	6.543	5066.068	ug/L	6900.385			
[ 238 U	-0.000775	92.244	36.334	ug/L	47.334			
> 45 Sc-2			477839.518	ug/L	480857.849			
[ 54 Fe	76.202016	11.808	75346.203	ug/L	37101.824			
[ 67 Zn	47.489795	4.507	29829.751	ug/L	20205.161			
[ 137 Ba	0.067128	13.235	399.676	ug/L	196.003			
> 165 Ho-2			1288758.451	ug/L	1276414.382			
[ 203 Tl	-0.160720	13.580	1648.446	ug/L	2942.667			
[ 206 Pb	-0.065949	17.414	1284.404	ug/L	1714.787			
[ 207 Pb	-0.079576	7.719	1112.721	ug/L	1555.100			

## Internal Standard And QC Recoveries

Analyte Mass	Int Std % Recovery	QC Std % Recovery
[ Na 23		
[ Mg 24		
[ Al 27		
[ K 39		
[ Ca 44		
> Sc-1 45	99.372	
[ V 51		
[ Fe 57		
[ Zn 66		
> Ge-1 72	98.063	
[ As 75		
[ Ba 135		
> Ho-1 165	100.967	
[ Tl 205		
[ Pb 208		
[ U 238		
> Sc-2 45	99.372	
[ Fe 54		
[ Zn 67		
[ Ba 137		
> Ho-2 165	100.967	
[ Tl 203		
[ Pb 206		
[ Pb 207		

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW3MAC

Sample Date/Time: Friday, May 25, 2007 14:02:29

Autosampler Position: 47

Dataset File: D:\Elandata\Dataset\052507M1\JW3MAC.041

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
23 Na	10513.018037		2.275	48843465.162		ug/L	14340.338
24 Mg	10347.107373		2.207	36523739.408		ug/L	4546.769
27 Al	510.305953		2.353	2594672.310		ug/L	7803.209
39 K	10031.893880		2.190	73567536.919		ug/L	787820.143
44 Ca	10103.701098		1.960	2629472.259		ug/L	72922.037
> 45 Sc-1				490905.739		ug/L	480857.849
51 V	483.876521		2.965	4248783.732		ug/L	-3998.332
57 Fe	507.634362		2.568	108697.601		ug/L	6512.532
66 Zn	435.160083		1.675	512858.629		ug/L	1229.399
> 72 Ge-1				571095.502		ug/L	583818.267
75 As	491.100629		1.568	695881.181		ug/L	441.860
135 Ba	470.278258		1.568	829836.890		ug/L	109.668
> 165 Ho-1				1306304.451		ug/L	1276414.382
205 Tl	489.293508		3.281	9399431.442		ug/L	6961.439
208 Pb	497.041519		1.966	13125887.803		ug/L	6900.385
238 U	1075.882992		2.215	16081114.908		ug/L	47.334
> 45 Sc-2				490905.739		ug/L	480857.849
54 Fe	618.272518		3.306	358870.556		ug/L	37101.824
67 Zn	477.561574		1.344	121361.886		ug/L	20205.161
137 Ba	461.742632		1.437	1407331.571		ug/L	196.003
> 165 Ho-2				1306304.451		ug/L	1276414.382
203 Tl	474.353833		3.198	3957868.967		ug/L	2942.667
206 Pb	487.972555		1.178	3353422.680		ug/L	1714.787
207 Pb	491.928188		1.801	2867031.435		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	102.090	
V	51		
Fe	57		
Zn	66		
> Ge-1	72	97.821	
As	75		
Ba	135		
> Ho-1	165	102.342	
Tl	205		
Pb	208		
U	238		
> Sc-2	45	102.090	
Fe	54		
Zn	67		
Ba	137		
> Ho-2	165	102.342	
Tl	203		
Pb	206		
Pb	207		

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWN8W

Sample Date/Time: Friday, May 25, 2007 14:06:53

Autosampler Position: 48

Dataset File: D:\Elandata\Dataset\052507M1\JWN8W.042

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
23 Na	30324.577860	1.312	134586621.531	ug/L	14340.338		
24 Mg	8503.917918	0.505	28681162.899	ug/L	4546.769		
27 Al	100.322034	1.287	493465.518	ug/L	7803.209		
39 K	509.191521	0.816	4297277.341	ug/L	787820.143		
44 Ca	12685.181671	1.093	3135979.372	ug/L	72922.037		
> 45 Sc-1			469079.491	ug/L	480857.849		
51 V	0.486906	93.199	174.822	ug/L	-3998.332		
57 Fe	52.678043	5.559	16466.623	ug/L	6512.532		
66 Zn	2.794884	1.333	4338.702	ug/L	1229.399		
> 72 Ge-1			560439.384	ug/L	583818.267		
75 As	1.629473	24.180	2886.360	ug/L	441.860		
135 Ba	1.531149	3.747	2772.964	ug/L	109.668		
> 165 Ho-1			1287845.115	ug/L	1276414.382		
205 Tl	0.412464	45.676	14792.055	ug/L	6961.439		
208 Pb	-0.031809	32.169	6130.909	ug/L	6900.385		
238 U	1.061334	3.807	15681.761	ug/L	47.334		
> 45 Sc-2			469079.491	ug/L	480857.849		
54 Fe	87.174618	16.482	79372.481	ug/L	37101.824		
67 Zn	6.475584	70.358	21005.315	ug/L	20205.161		
137 Ba	1.545554	2.654	4842.203	ug/L	196.003		
> 165 Ho-2			1287845.115	ug/L	1276414.382		
203 Tl	0.391439	45.245	6170.436	ug/L	2942.667		
206 Pb	-0.027577	43.111	1542.432	ug/L	1714.787		
207 Pb	-0.038549	18.881	1347.077	ug/L	1555.100		

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	97.551	
V	51		
Fe	57		
Zn	66		
> Ge-1	72	95.996	
As	75		
Ba	135		
> Ho-1	165	100.896	
Tl	205		
Pb	208		
U	238		
> Sc-2	45	97.551	
Fe	54		
Zn	67		
Ba	137		
> Ho-2	165	100.896	
Tl	203		
Pb	206		
Pb	207		

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWN8WS

Sample Date/Time: Friday, May 25, 2007 14:11:18

Autosampler Position: 49

Dataset File: D:\Elandata\Dataset\052507M1\JWN8WS.043

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
23 Na	30290.313417		2.585	138273265.467		ug/L	14340.338
24 Mg	8934.275913		2.861	30991116.231		ug/L	4546.769
27 Al	136.923049		2.368	689903.766		ug/L	7803.209
39 K	1019.152958		3.405	8054213.538		ug/L	787820.143
44 Ca	13123.259778		3.526	3334179.253		ug/L	72922.037
> 45 Sc-1				482528.155		ug/L	480857.849
51 V	5.428223		9.189	42670.629		ug/L	-3998.332
57 Fe	50.349310		1.361	16484.552		ug/L	6512.532
66 Zn	6.965325		2.623	9281.441		ug/L	1229.399
> 72 Ge-1				577913.947		ug/L	583818.267
75 As	23.287604		1.855	33807.149		ug/L	441.860
135 Ba	21.911278		1.506	38475.127		ug/L	109.668
> 165 Ho-1				1296365.310		ug/L	1276414.382
205 Tl	20.070163		5.460	389338.186		ug/L	6961.439
208 Pb	5.238072		1.949	144209.928		ug/L	6900.385
238 U	24.287391		2.749	360289.840		ug/L	47.334
> 45 Sc-2				482528.155		ug/L	480857.849
54 Fe	89.234375		12.078	82811.052		ug/L	37101.824
67 Zn	6.690285		2.544	21662.296		ug/L	20205.161
137 Ba	21.784317		2.301	66074.796		ug/L	196.003
> 165 Ho-2				1296365.310		ug/L	1276414.382
203 Tl	19.446226		6.046	163852.152		ug/L	2942.667
206 Pb	5.127238		0.796	36691.427		ug/L	1714.787
207 Pb	5.195759		2.462	31612.592		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte Mass	Int Std % Recovery	QC Std % Recovery
Na 23		
Mg 24		
Al 27		
K 39		
Ca 44		
> Sc-1 45	100.347	
V 51		
Fe 57		
Zn 66		
> Ge-1 72	98.989	
As 75		
Ba 135		
> Ho-1 165	101.563	
Tl 205		
Pb 208		
U 238		
> Sc-2 45	100.347	
Fe 54		
Zn 67		
Ba 137		
> Ho-2 165	101.563	
Tl 203		
Pb 206		
Pb 207		

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWN8WD

Sample Date/Time: Friday, May 25, 2007 14:15:43

Autosampler Position: 50

Dataset File: D:\Elandata\Dataset\052507M1\JWN8WD.044

## Sample Result Summary

Mass	Analyte	Conc.	MeanConc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank intensity
[	23 Na	29957.418640	2.117		139735525.442		ug/L	14340.338
	24 Mg	8889.121232	2.412		31508011.807		ug/L	4546.769
	27 Al	127.672989	1.231		657922.401		ug/L	7803.209
	39 K	1006.730626	3.184		8139991.888		ug/L	787820.143
	44 Ca	13010.449874	2.208		3378620.346		ug/L	72922.037
>	45 Sc-1				493044.351		ug/L	480857.849
	51 V	5.539153	1.246		44789.616		ug/L	-3998.332
	57 Fe	45.487792	4.468		15859.420		ug/L	6512.532
	66 Zn	6.992396	2.098		9515.930		ug/L	1229.399
>	72 Ge-1				585637.058		ug/L	583818.267
	75 As	22.902497	0.979		33702.300		ug/L	441.860
	135 Ba	21.356421	1.585		38000.856		ug/L	109.668
>	165 Ho-1				1313543.184		ug/L	1276414.382
	205 Tl	20.014032	4.760		393513.286		ug/L	6961.439
	208 Pb	5.165572	0.629		144212.956		ug/L	6900.385
	238 U	24.145084	0.492		363002.963		ug/L	47.334
>	45 Sc-2				493044.351		ug/L	480857.849
	54 Fe	84.343368	14.183		82026.801		ug/L	37101.824
	67 Zn	3.549315	52.427		21467.335		ug/L	20205.161
	137 Ba	21.357882	0.650		65651.499		ug/L	196.003
>	165 Ho-2				1313543.184		ug/L	1276414.382
	203 Tl	19.516811	4.034		166659.674		ug/L	2942.667
	206 Pb	5.091532	0.948		36931.382		ug/L	1714.787
	207 Pb	5.049470	0.864		31180.307		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	102.534
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	100.312
	As	75	
	Ba	135	
>	Ho-1	165	102.909
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	102.534
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	102.909
	Tl	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWN8WV

Sample Date/Time: Friday, May 25, 2007 14:20:08

Autosampler Position: 51

Dataset File: D:\Elandata\Dataset\052507M1\JWN8WV.045

## Sample Result Summary

	Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23 Na	5964.343128	0.794	27336297.504	ug/L	14340.338			
	24 Mg	1685.980562	1.515	5873086.699	ug/L	4546.769			
	27 Al	20.340447	1.777	109545.208	ug/L	7803.209			
	39 K	89.853401	2.239	1435999.091	ug/L	787820.143			
	44 Ca	2553.524855	1.539	710287.715	ug/L	72922.037			
>	45 Sc-1			484183.747	ug/L	480857.849			
	51 V	-0.413482	50.555	-7604.631	ug/L	-3998.332			
	57 Fe	7.815263	4.481	8107.053	ug/L	6512.532			
L	66 Zn	0.433232	8.347	1740.123	ug/L	1229.399			
>	72 Ge-1			579136.426	ug/L	583818.267			
L	75 As	0.082081	473.281	555.951	ug/L	441.860			
[	135 Ba	0.307666	7.457	659.355	ug/L	109.668			
>	165 Ho-1			1314809.373	ug/L	1276414.382			
	205 Tl	-0.062964	79.020	5956.323	ug/L	6961.439			
	208 Pb	-0.116101	3.064	4023.260	ug/L	6900.385			
L	238 U	0.204132	2.492	3120.039	ug/L	47.334			
>	45 Sc-2			484183.747	ug/L	480857.849			
	54 Fe	23.959377	51.755	49628.733	ug/L	37101.824			
L	67 Zn	-3.902668	47.036	19532.208	ug/L	20205.161			
[	137 Ba	0.319962	1.910	1183.394	ug/L	196.003			
>	165 Ho-2			1314809.373	ug/L	1276414.382			
	203 Tl	-0.066033	83.993	2477.912	ug/L	2942.667			
	206 Pb	-0.106113	0.944	1032.714	ug/L	1714.787			
L	207 Pb	-0.121169	5.056	891.370	ug/L	1555.100			

## Internal Standard And QC Recoveries

Analyte Mass	Int Std % Recovery	QC Std % Recovery
[ Na 23		
Mg 24		
Al 27		
K 39		
Ca 44		
> Sc-1 45	100.692	
V 51		
Fe 57		
L Zn 66		
> Ge-1 72	99.198	
L As 75		
[ Ba 135		
> Ho-1 165	103.008	
Tl 205		
Pb 208		
L U 238		
> Sc-2 45	100.692	
Fe 54		
L Zn 67		
[ Ba 137		
> Ho-2 165	103.008	
Tl 203		
Pb 206		
L Pb 207		

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWN9G

Sample Date/Time: Friday, May 25, 2007 14:24:34

Autosampler Position: 52

Dataset File: D:\Elandata\Dataset\052507M1\JWN9G.046

## Sample Result Summary

	Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23 Na	30550.898300		1.750	136825168.314		ug/L	14340.338
	24 Mg	8576.906255		1.028	29190297.281		ug/L	4546.769
	27 Al	0.597481		8.844	10602.041		ug/L	7803.209
	39 K	469.602317		1.784	4059309.328		ug/L	787820.143
	44 Ca	12481.341400		1.099	3114941.233		ug/L	72922.037
>	45 Sc-1				473322.235		ug/L	480857.849
	51 V	-0.472997	22.524		-7946.465		ug/L	-3998.332
	57 Fe	-29.218571	3.331		746.502		ug/L	6512.532
	66 Zn	1.739692	4.826		3182.053		ug/L	1229.399
>	72 Ge-1				571726.663		ug/L	583818.267
	75 As	1.426127	20.534		2454.616		ug/L	441.860
	135 Ba	0.734409	5.509		1404.416		ug/L	109.668
>	165 Ho-1				1304047.432		ug/L	1276414.382
	205 Tl	-0.173575	11.341		3790.546		ug/L	6961.439
	208 Pb	-0.126071	2.781		3726.560		ug/L	6900.385
	238 U	1.026151	1.864		15357.071		ug/L	47.334
>	45 Sc-2				473322.235		ug/L	480857.849
	54 Fe	11.061072	112.108		42073.827		ug/L	37101.824
	67 Zn	-0.641718	279.494		19757.854		ug/L	20205.161
	137 Ba	0.730046	3.377		2420.563		ug/L	196.003
>	165 Ho-2				1304047.432		ug/L	1276414.382
	203 Tl	-0.172258	10.260		1574.437		ug/L	2942.667
	206 Pb	-0.117191	1.777		948.374		ug/L	1714.787
	207 Pb	-0.132576	8.400		817.032		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	98.433
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	97.929
	As	75	
	Ba	135	
>	Ho-1	165	102.165
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	98.433
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	102.165
	Tl	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message



## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWN9J

Sample Date/Time: Friday, May 25, 2007 14:29:00

Autosampler Position: 53

Dataset File: D:\Elandata\Dataset\052507M1\JWN9J.047

## Sample Result Summary

	Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23 Na	30123.362650	1.491		135356134.816		ug/L	14340.338
	24 Mg	8335.924189	0.872		28464958.186		ug/L	4546.769
	27 Al	5.902995	0.835		36852.327		ug/L	7803.209
	39 K	466.566257	1.051		4052033.245		ug/L	787820.143
	44 Ca	12335.986149	0.706		3090112.738		ug/L	72922.037
>	45 Sc-1				474915.555		ug/L	480857.849
	51 V	-0.353017	135.454		-6985.681		ug/L	-3998.332
	57 Fe	-24.043333	4.362		1754.058		ug/L	6512.532
	66 Zn	1.724769	4.679		3175.385		ug/L	1229.399
>	72 Ge-1				573060.594		ug/L	583818.267
	75 As	1.224863	15.100		2174.583		ug/L	441.860
	135 Ba	0.730676	5.134		1383.414		ug/L	109.868
>	165 Ho-1				1290370.935		ug/L	1276414.382
	205 Tl	-0.197207	12.687		3293.750		ug/L	6961.439
	208 Pb	-0.123744	5.776		3746.895		ug/L	6900.385
	238 U	1.016304	3.086		15048.406		ug/L	47.334
>	45 Sc-2				474915.555		ug/L	480857.849
	54 Fe	14.879043	95.765		44053.755		ug/L	37101.824
	67 Zn	0.328105	795.739		20017.884		ug/L	20205.161
	137 Ba	0.760139	5.801		2484.574		ug/L	196.003
>	165 Ho-2				1290370.935		ug/L	1276414.382
	203 Tl	-0.187924	12.080		1425.419		ug/L	2942.667
	206 Pb	-0.116698	7.390		941.374		ug/L	1714.787
	207 Pb	-0.127670	7.419		836.700		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	98.764
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	98.157
	As	75	
	Ba	135	
>	Ho-1	165	101.093
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	98.764
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	101.093
	Tl	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6

Sample Date/Time: Friday, May 25, 2007 14:33:27

Autosampler Position: 7

Dataset File: D:\Elandata\Dataset\052507M1\QC Std 6.048

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[ 23 Na	2037.478482	1.927	9378609.937	ug/L	14340.338
[ 24 Mg	1028.239256	2.083	3595435.875	ug/L	4546.769
[ 27 Al	1994.191632	1.290	10010487.168	ug/L	7803.209
[ 39 K	1962.150842	1.150	14878516.851	ug/L	787820.143
[ 44 Ca	1055.926224	0.230	337904.948	ug/L	72922.037
> 45 Sc-1			485784.686	ug/L	480857.849
[ 51 V	196.359256	1.142	1703679.896	ug/L	-3998.332
[ 57 Fe	2117.517275	0.620	427847.980	ug/L	6512.532
[ 66 Zn	193.686685	1.645	226576.423	ug/L	1229.399
> 72 Ge-1			577281.024	ug/L	583818.267
[ 75 As	199.653616	1.151	286240.100	ug/L	441.860
[ 135 Ba	191.947158	0.494	341315.216	ug/L	109.668
> 165 Ho-1			1316046.250	ug/L	1276414.382
[ 205 Tl	191.045238	3.080	3701673.453	ug/L	6961.439
[ 208 Pb	198.044977	1.028	5273549.612	ug/L	6900.385
[ 238 U	205.730496	2.367	3097737.542	ug/L	47.334
> 45 Sc-2			485784.686	ug/L	480857.849
[ 54 Fe	2104.750614	1.771	1118958.312	ug/L	37101.824
[ 67 Zn	182.978451	1.603	58605.889	ug/L	20205.161
[ 137 Ba	191.795861	1.116	589034.854	ug/L	196.003
> 165 Ho-2			1316046.250	ug/L	1276414.382
[ 203 Tl	189.544635	1.864	1595081.972	ug/L	2942.667
[ 206 Pb	202.375466	0.501	1402189.333	ug/L	1714.787
[ 207 Pb	196.841176	1.236	1156712.513	ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte Mass	Int Std % Recovery	QC Std % Recovery
[ Na 23		101.874
[ Mg 24		102.824
[ Al 27		99.710
[ K 39		98.108
[ Ca 44		105.593
> Sc-1 45	101.025	
[ V 51		98.180
[ Fe 57		105.876
[ Zn 66		96.843
> Ge-1 72	98.880	
[ As 75		99.827
[ Ba 135		95.974
> Ho-1 165	103.105	
[ Tl 205		95.523
[ Pb 208		99.022
[ U 238		102.865
> Sc-2 45	101.025	
[ Fe 54		105.238
[ Zn 67		91.489
[ Ba 137		95.898
> Ho-2 165	103.105	
[ Tl 203		94.772
[ Pb 206		101.188
[ Pb 207		98.421

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 7

Sample Date/Time: Friday, May 25, 2007 14:38:22

Autosampler Position: 1

Dataset File: D:\Elandata\Dataset\052507M1\QC Std 7.049

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
23 Na	0.815439	9.473		17291.967	ug/L	14340.338	
24 Mg	0.121472	35.244		4758.174	ug/L	4546.769	
27 Al	0.010333	156.600		7525.057	ug/L	7803.209	
39 K	-6.339839	11.429		711626.697	ug/L	787820.143	
44 Ca	-51.271635	2.119		57694.512	ug/L	72922.037	
> 45 Sc-1				460682.424	ug/L	480857.849	
51 V	-0.372539	68.845		-6900.499	ug/L	-3998.332	
57 Fe	-0.686532	33.011		6109.689	ug/L	6512.532	
66 Zn	-0.139352	4.265		1024.047	ug/L	1229.399	
> 72 Ge-1				553970.025	ug/L	583818.267	
75 As	0.160003	9.430		639.091	ug/L	441.860	
135 Ba	0.014039	33.246		133.669	ug/L	109.668	
> 165 Ho-1				1274624.836	ug/L	1276414.382	
205 Tl	0.105464	76.279		8925.929	ug/L	6961.439	
208 Pb	-0.135121	3.104		3410.191	ug/L	6900.385	
238 U	0.003846	34.260		103.335	ug/L	47.334	
> 45 Sc-2				460682.424	ug/L	480857.849	
54 Fe	4.709695	183.936		37827.100	ug/L	37101.824	
67 Zn	-0.224187	1636.152		19310.912	ug/L	20205.161	
137 Ba	-0.002605	119.146		188.003	ug/L	196.003	
> 165 Ho-2				1274624.836	ug/L	1276414.382	
203 Tl	0.096639	84.322		3724.199	ug/L	2942.667	
206 Pb	-0.124374	5.412		878.703	ug/L	1714.787	
207 Pb	-0.139069	2.969		762.361	ug/L	1555.100	

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Na	23		0.815
Mg	24		0.121
Al	27		0.010
K	39		-6.340
Ca	44		-51.272
> Sc-1	45	95.804	
V	51		-37.254
Fe	57		-0.687
Zn	66		-13.935
> Ge-1	72	84.887	
As	75		16.000
Ba	135		1.404
> Ho-1	165	99.860	
Tl	205		10.546
Pb	208		-13.512
U	238		0.365
> Sc-2	45	95.804	
Fe	54		4.710
Zn	67		-22.419
Ba	137		-0.260
> Ho-2	165	99.860	
Tl	203		9.664
Pb	206		-12.437
Pb	207		-13.907

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWN9K

Sample Date/Time: Friday, May 25, 2007 14:43:16

Autosampler Position: 54

Dataset File: D:\Elandata\Dataset\052507M1\JWN9K.050

### Sample Result Summary

Mass	Analyte	Conc.	Mean	Conc. RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23 Na	35820.075732	1.145	159828053.046	ug/L	14340.338		
	24 Mg	6691.554531	2.884	22691294.472	ug/L	4546.769		
	27 Al	2.153411	3.081	18136.019	ug/L	7803.209		
	39 K	974.411945	2.393	7561541.281	ug/L	787820.143		
	44 Ca	11465.936428	2.021	2856768.941	ug/L	72922.037		
>	45 Sc-1			471598.151	ug/L	480857.849		
	51 V	-3.149509	11.998	-30543.912	ug/L	-3998.332		
	57 Fe	-26.900572	6.451	1188.722	ug/L	6512.532		
	66 Zn	1.868082	3.118	3315.084	ug/L	1229.399		
[>	72 Ge-1			563216.006	ug/L	583818.267		
	75 As	1.906845	7.528	3089.148	ug/L	441.860		
	135 Ba	0.973684	2.685	1813.467	ug/L	109.668		
>	165 Ho-1			1294505.491	ug/L	1276414.382		
	205 Tl	-0.081215	57.437	5520.142	ug/L	6961.439		
	208 Pb	-0.129037	1.260	3622.879	ug/L	6900.385		
	238 U	1.064093	0.309	15811.571	ug/L	47.334		
>	45 Sc-2			471598.151	ug/L	480857.849		
	54 Fe	20.089979	63.954	46388.222	ug/L	37101.824		
	67 Zn	-0.679383	425.123	19674.072	ug/L	20205.161		
	137 Ba	0.985828	2.771	3175.718	ug/L	196.003		
>	165 Ho-2			1294505.491	ug/L	1276414.382		
	203 Tl	-0.083250	51.181	2298.544	ug/L	2942.667		
	206 Pb	-0.116646	3.313	945.041	ug/L	1714.787		
	207 Pb	-0.132263	2.508	813.698	ug/L	1555.100		

### Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	98.074
	V	51	
	Fe	57	
	Zn	66	
[>	Ge-1	72	96.471
	As	75	
	Ba	135	
>	Ho-1	165	101.417
	Tl	205	
	Pb	208	
	U	238	
[>	Sc-2	45	98.074
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	101.417
	Tl	203	
	Pb	206	
	Pb	207	

### QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWN9L

Sample Date/Time: Friday, May 25, 2007 14:47:39

Autosampler Position: 55

Dataset File: D:\Elandata\Dataset\052507M1\JWN9L.051

## Sample Result Summary

Mass	Analyte	Conc.	Mean	Conc.	RSD	Meas. intens.	Mean	Sample Unit	Blank Intensity
[	23	Na	34593.393626	1.318		155930608.858	ug/L	14340.338	
	24	Mg	6557.843556	1.783		22464445.834	ug/L	4546.769	
	27	Al	0.847639	8.607		11900.744	ug/L	7803.209	
	39	K	959.944107	1.807		7536974.679	ug/L	787820.143	
	44	Ca	11466.924616	2.146		2886177.450	ug/L	72922.037	
>	45	Sc-1				476417.018	ug/L	480857.849	
	51	V	-2.905140	34.606		-28683.274	ug/L	-3998.332	
	57	Fe	-27.225404	8.521		1138.480	ug/L	6512.532	
	66	Zn	1.750045	1.500		3214.727	ug/L	1229.399	
>	72	Ge-1				566249.048	ug/L	583818.267	
	75	As	1.924399	15.217		3132.139	ug/L	441.860	
	135	Ba	0.971678	2.235		1784.796	ug/L	109.668	
>	165	Ho-1				1276403.440	ug/L	1276414.382	
	205	Tl	-0.152476	22.552		4099.638	ug/L	6961.439	
	208	Pb	-0.131710	0.648		3503.202	ug/L	6900.385	
	238	U	1.080382	1.652		15828.257	ug/L	47.334	
>	45	Sc-2				476417.018	ug/L	480857.849	
	54	Fe	14.344933	35.560		43994.766	ug/L	37101.824	
	67	Zn	-0.036388	7104.185		20010.879	ug/L	20205.161	
	137	Ba	0.952579	1.712		3032.686	ug/L	196.003	
>	165	Ho-2				1276403.440	ug/L	1276414.382	
	203	Tl	-0.152005	18.426		1703.766	ug/L	2942.667	
	206	Pb	-0.122002	4.073		896.037	ug/L	1714.787	
	207	Pb	-0.137931	2.847		770.028	ug/L	1555.100	

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	99.076
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	96.991
	As	75	
	Ba	135	
>	Ho-1	165	99.999
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	99.076
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	99.999
	Tl	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWN9T

Sample Date/Time: Friday, May 25, 2007 14:51:59

Autosampler Position: 56

Dataset File: D:\Elandata\Dataset\052507M1\JWN9T.052

## Sample Result Summary

Mass	Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23	Na	35273.889606		1.024	159226851.549		ug/L	14340.338
[	24	Mg	6613.050107		1.338	22685750.761		ug/L	4546.769
	27	Al	0.752404		4.731	11448.034		ug/L	7803.209
	39	K	984.600372		0.730	7721594.408		ug/L	787820.143
	44	Ca	11561.376759		1.207	2913545.317		ug/L	72922.037
>	45	Sc-1				477060.415		ug/L	480857.849
	51	V	-3.709041		55.187	-35632.280		ug/L	-3998.332
	57	Fe	-27.503916		5.731	1087.403		ug/L	6512.532
[	66	Zn	0.449983		14.505	1733.789		ug/L	1229.399
[>	72	Ge-1				570700.854		ug/L	583818.267
[	75	As	2.092812		16.034	3393.332		ug/L	441.860
[	135	Ba	0.973455		5.730	1820.134		ug/L	109.668
>	165	Ho-1				1299870.653		ug/L	1276414.382
	205	Tl	-0.194335		14.009	3373.104		ug/L	6961.439
	208	Pb	-0.145991		2.061	3192.171		ug/L	6900.385
[	238	U	1.088968		2.253	16243.726		ug/L	47.334
[>	45	Sc-2				477060.415		ug/L	480857.849
	54	Fe	17.053492		51.254	45411.648		ug/L	37101.824
[	67	Zn	-1.079171		187.568	19824.281		ug/L	20205.161
[	137	Ba	0.976750		0.686	3161.715		ug/L	196.003
>	165	Ho-2				1299870.653		ug/L	1276414.382
	203	Tl	-0.190822		14.126	1411.752		ug/L	2942.667
	206	Pb	-0.139509		4.638	792.363		ug/L	1714.787
[	207	Pb	-0.148123		6.349	725.026		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	99.210
	V	51	
	Fe	57	
[	Zn	66	
[>	Ge-1	72	97.753
[	As	75	
[	Ba	135	
>	Ho-1	165	101.838
	Tl	205	
	Pb	208	
[	U	238	
[>	Sc-2	45	99.210
	Fe	54	
[	Zn	67	
[	Ba	137	
>	Ho-2	165	101.838
	Tl	203	
	Pb	206	
[	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW057B

Sample Date/Time: Friday, May 25, 2007 14:56:20

Autosampler Position: 57

Dataset File: D:\Elandata\Dataset\052507M1\JW057B.053

## Sample Result Summary

Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[ 23 Na	6.054593			4.766		41931.554	ug/L	14340.338
[ 24 Mg	-0.085846		29.690			4255.010	ug/L	4546.769
[ 27 Al	1.645706		4.530			15992.441	ug/L	7803.209
[ 39 K	-7.665819		9.402			734272.150	ug/L	787820.143
[ 44 Ca	-51.664210		3.979			60199.175	ug/L	72922.037
> 45 Sc-1						481480.035	ug/L	480857.849
[ 51 V	-2.137510		32.723			-22470.606	ug/L	-3998.332
[ 57 Fe	2.713084		11.111			7055.589	ug/L	6512.532
[ 66 Zn	0.617786		4.530			1943.152	ug/L	1229.399
> 72 Ge-1						569493.753	ug/L	583818.267
[ 75 As	-0.845275		30.387			-763.106	ug/L	441.860
[ 135 Ba	0.073060		8.056			242.338	ug/L	109.668
> 165 Ho-1						1312224.502	ug/L	1276414.382
[ 205 Tl	-0.172446		16.756			3824.556	ug/L	6961.439
[ 208 Pb	-0.095033		2.883			4573.332	ug/L	6900.385
[ 238 U	0.001420		7.277			70.001	ug/L	47.334
> 45 Sc-2						481480.035	ug/L	480857.849
[ 54 Fe	76.463470		11.117			76061.855	ug/L	37101.824
[ 67 Zn	32.280903		4.184			26911.265	ug/L	20205.161
[ 137 Ba	0.071455		10.108			420.010	ug/L	196.003
> 165 Ho-2						1312224.502	ug/L	1276414.382
[ 203 Tl	-0.169411		16.702			1603.440	ug/L	2942.667
[ 206 Pb	-0.087452		1.429			1159.392	ug/L	1714.787
[ 207 Pb	-0.102671		4.305			997.711	ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte Mass	Int Std % Recovery	QC Std % Recovery
[ Na 23		
[ Mg 24		
[ Al 27		
[ K 39		
[ Ca 44		
> Sc-1 45	100.129	
[ V 51		
[ Fe 57		
[ Zn 66		
> Ge-1 72	97.546	
[ As 75		
[ Ba 135		
> Ho-1 165	102.806	
[ Tl 205		
[ Pb 208		
[ U 238		
> Sc-2 45	100.129	
[ Fe 54		
[ Zn 67		
[ Ba 137		
> Ho-2 165	102.806	
[ Tl 203		
[ Pb 206		
[ Pb 207		

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW057C

Sample Date/Time: Friday, May 25, 2007 15:00:40

Autosampler Position: 58

Dataset File: D:\Elandata\Dataset\052507M1\JW057C.054

### Sample Result Summary

Mass	Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23 Na	10871.536359	2.967	49890282.382	ug/L	14340.338		
	24 Mg	11000.393400	3.600	38348728.937	ug/L	4546.769		
	27 Al	546.079616	3.537	2741705.863	ug/L	7803.209		
	39 K	10282.250003	4.011	74448575.754	ug/L	787820.143		
	44 Ca	10677.579295	2.715	2740552.135	ug/L	72922.037		
>	45 Sc-1			484994.066	ug/L	480857.849		
	51 V	511.319577	3.780	4433957.089	ug/L	-3998.332		
	57 Fe	544.588715	2.442	114706.306	ug/L	6512.532		
	66 Zn	460.912786	2.598	536451.801	ug/L	1229.399		
>	72 Ge-1			567184.254	ug/L	583818.267		
	75 As	515.866102	1.047	725917.930	ug/L	441.860		
	135 Ba	490.939510	0.770	865593.343	ug/L	109.668		
>	165 Ho-1			1305163.474	ug/L	1276414.382		
	205 Tl	502.166409	1.935	9639754.856	ug/L	6961.439		
	208 Pb	517.448394	1.467	13654070.783	ug/L	6900.385		
	238 U	1136.885618	2.896	16979657.050	ug/L	47.334		
>	45 Sc-2			484994.066	ug/L	480857.849		
	54 Fe	662.493773	1.804	377197.151	ug/L	37101.824		
	67 Zn	492.663157	3.164	123012.606	ug/L	20205.161		
	137 Ba	480.411803	1.092	1463066.847	ug/L	196.003		
>	165 Ho-2			1305163.474	ug/L	1276414.382		
	203 Tl	484.035952	2.513	4035624.686	ug/L	2942.667		
	206 Pb	502.733084	1.880	3452007.705	ug/L	1714.787		
	207 Pb	510.845027	1.240	2974909.245	ug/L	1555.100		

### Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	100.860
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	87.151
	As	75	
	Ba	135	
>	Ho-1	165	102.252
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	100.860
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	102.252
	Tl	203	
	Pb	206	
	Pb	207	

### QC Out Of Limits

Analyte Mass Out of Limits Message



## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW0G7

Sample Date/Time: Friday, May 25, 2007 15:05:02

Autosampler Position: 59

Dataset File: D:\Elandata\Dataset\052507M1JW0G7.055

## Sample Result Summary

Mass	Analyte	Conc.	MeanConc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23 Na	17985.614125	1.162		80367647.318		ug/L	14340.338
[	24 Mg	727.768354	2.139		2475117.795		ug/L	4546.769
[	27 Al	1.732316	2.093		16108.905		ug/L	7803.209
[	39 K	374.709237	2.053		3387870.472		ug/L	787820.143
[	44 Ca	903.072538	1.100		291279.913		ug/L	72922.037
>	45 Sc-1				472212.419		ug/L	480857.849
[	51 V	2.137634	31.226		14162.121		ug/L	-3998.332
[	57 Fe	-3.835286	17.203		5653.235		ug/L	6512.532
[	66 Zn	0.820277	6.430		2134.848		ug/L	1229.399
>	72 Ge-1				569576.961		ug/L	583818.267
[	75 As	4.510430	5.030		6801.215		ug/L	441.860
[	135 Ba	0.220390	4.630		497.680		ug/L	109.668
>	165 Ho-1				1297293.244		ug/L	1276414.382
[	205 Tl	0.443464	43.028		15524.888		ug/L	6981.439
[	208 Pb	-0.111943	1.871		4078.599		ug/L	6900.385
[	238 U	0.318800	2.096		4780.848		ug/L	47.334
>	45 Sc-2				472212.419		ug/L	480857.849
[	54 Fe	6.521506	143.183		39683.390		ug/L	37101.824
[	67 Zn	2.626281	137.350		20373.398		ug/L	20205.161
[	137 Ba	0.228575	7.986		891.037		ug/L	196.003
>	165 Ho-2				1297293.244		ug/L	1276414.382
[	203 Tl	0.429164	49.243		6541.966		ug/L	2942.667
[	206 Pb	-0.101747	4.029		1048.716		ug/L	1714.787
[	207 Pb	-0.115890	2.355		910.038		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
[	Mg	24	
[	Al	27	
[	K	39	
[	Ca	44	
>	Sc-1	45	98.202
[	V	51	
[	Fe	57	
[	Zn	66	
>	Ge-1	72	97.561
[	As	75	
[	Ba	135	
>	Ho-1	165	101.636
[	Tl	205	
[	Pb	208	
[	U	238	
>	Sc-2	45	98.202
[	Fe	54	
[	Zn	67	
[	Ba	137	
>	Ho-2	165	101.636
[	Tl	203	
[	Pb	206	
[	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW0G7S

Sample Date/Time: Friday, May 25, 2007 15:09:24

Autosampler Position: 60

Dataset File: D:\Elandata\Dataset\052507M1\JW0G7S.056

## Sample Result Summary

Mass	Analyte	Conc.	MeanConc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23 Na	18704.788948	0.677		82827257.267	ug/L	14340.338	
	24 Mg	1199.355240	1.650		4039286.135	ug/L	4546.769	
	27 Al	20.724509	0.802		107731.102	ug/L	7803.209	
	39 K	879.314395	1.151		6846057.102	ug/L	787820.143	
	44 Ca	1414.751428	0.337		411991.753	ug/L	72922.037	
>	45 Sc-1				467944.825	ug/L	480857.849	
	51 V	6.082849	10.546		47062.242	ug/L	-3998.332	
	57 Fe	5.375453	7.621		7367.698	ug/L	6512.532	
	66 Zn	5.158066	0.500		6977.106	ug/L	1229.399	
>	72 Ge-1				567092.507	ug/L	583818.267	
	75 As	24.684226	1.597		35138.195	ug/L	441.860	
	135 Ba	18.921638	0.942		32974.676	ug/L	109.668	
>	165 Ho-1				1285900.299	ug/L	1276414.382	
	205 Tl	19.032533	3.446		366724.247	ug/L	6961.439	
	208 Pb	4.906390	1.679		134435.641	ug/L	6900.385	
	238 U	21.709154	1.297		319494.156	ug/L	47.334	
>	45 Sc-2				467944.825	ug/L	480857.849	
	54 Fe	17.769279	55.721		44896.447	ug/L	37101.824	
	67 Zn	5.901353	37.188		20849.082	ug/L	20205.161	
	137 Ba	18.768012	2.856		56498.446	ug/L	196.003	
>	165 Ho-2				1285900.299	ug/L	1276414.382	
	203 Tl	18.545124	3.792		155201.233	ug/L	2942.667	
	206 Pb	4.865964	1.774		34627.600	ug/L	1714.787	
	207 Pb	4.789882	1.503		29033.767	ug/L	1555.100	

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	97.315
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	97.135
	As	75	
	Ba	135	
>	Ho-1	165	100.743
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	97.315
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	100.743
	Tl	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW0G7D

Sample Date/Time: Friday, May 25, 2007 15:13:46

Autosampler Position: 61

Dataset File: D:\Elandata\Dataset\052507M1\JW0G7D.057

## Sample Result Summary

	Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23 Na	19263.932786		1.645	85870211.243		ug/L	14340.338
	24 Mg	1248.921990		1.384	4234074.801		ug/L	4546.789
	27 Al	21.888136		1.061	114116.495		ug/L	7803.209
	39 K	887.009874		1.513	6945279.038		ug/L	787820.143
	44 Ca	1459.575050		1.170	425621.940		ug/L	72922.037
>	45 Sc-1				471086.767		ug/L	480857.849
	51 V	7.195073		9.793	56771.146		ug/L	-3998.332
	57 Fe	5.442773		8.563	7430.329		ug/L	6512.532
	66 Zn	5.425741		1.634	7325.618		ug/L	1229.399
>	72 Ge-1				564408.280		ug/L	583818.267
	75 As	25.838305		1.406	36586.864		ug/L	441.860
	135 Ba	19.536454		0.368	33978.701		ug/L	109.668
>	165 Ho-1				1283469.964		ug/L	1276414.382
	205 Tl	19.753017		3.696	379676.829		ug/L	6961.439
	208 Pb	5.072990		0.746	138505.946		ug/L	6900.385
	238 U	23.187512		0.317	340614.588		ug/L	47.334
>	45 Sc-2				471086.767		ug/L	480857.849
	54 Fe	17.463480		51.950	45066.121		ug/L	37101.824
	67 Zn	4.611155		37.631	20729.241		ug/L	20205.161
	137 Ba	19.651411		1.692	59042.381		ug/L	196.003
>	165 Ho-2				1283469.964		ug/L	1276414.382
	203 Tl	18.943984		4.115	158195.229		ug/L	2942.667
	206 Pb	4.975126		1.514	35298.577		ug/L	1714.787
	207 Pb	5.001225		1.100	30188.165		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	97.968
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	96.675
	As	75	
	Ba	135	
>	Ho-1	165	100.553
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	97.968
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	100.553
	Tl	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

**QUANTITATIVE ANALYSIS REPORT**

Sample ID: JW0G7V

Sample Date/Time: Friday, May 25, 2007 15:18:09

Autosampler Position: 62

Dataset File: D:\Elandata\Dataset\052507M1\JW0G7V.058

**Sample Result Summary**

Mass	Analyte	Conc.	Mean	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23	Na	3753.378758	0.760	16827047.998		ug/L	14340.338
	24	Mg	157.463644	1.547	540442.573		ug/L	4546.769
	27	Al	0.475596	2.868	10007.938		ug/L	7803.209
	39	K	71.773715	3.353	1277692.504		ug/L	787820.143
	44	Ca	146.528356	3.155	107529.594		ug/L	72922.037
>	45	Sc-1			473436.163		ug/L	480857.849
	51	V	0.480526	80.187	135.899		ug/L	-3998.332
	57	Fe	-2.004905	10.844	6023.174		ug/L	6512.532
	66	Zn	0.067858	18.596	1287.404		ug/L	1229.399
>	72	Ge-1			567823.938		ug/L	583818.267
	75	As	0.535952	78.527	1183.040		ug/L	441.860
	135	Ba	0.050333	6.636	201.337		ug/L	109.668
>	165	Ho-1			1308125.982		ug/L	1276414.382
	205	Tl	-0.047889	107.881	6216.772		ug/L	6961.439
	208	Pb	-0.142923	2.415	3293.848		ug/L	6900.385
	238	U	0.059841	1.756	944.374		ug/L	47.334
>	45	Sc-2			473436.163		ug/L	480857.849
	54	Fe	6.850718	147.635	39959.828		ug/L	37101.824
	67	Zn	-1.786538	149.862	19529.542		ug/L	20205.161
	137	Ba	0.038958	23.212	319.673		ug/L	196.003
>	165	Ho-2			1308125.982		ug/L	1276414.382
	203	Tl	-0.044675	109.194	2643.942		ug/L	2942.667
	206	Pb	-0.133182	2.297	841.367		ug/L	1714.787
	207	Pb	-0.151182	4.356	711.692		ug/L	1555.100

**Internal Standard And QC Recoveries**

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	98.457
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	97.260
	As	75	
	Ba	135	
>	Ho-1	165	102.484
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	98.457
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	102.484
	Tl	203	
	Pb	206	
	Pb	207	

**QC Out Of Limits**

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW0G9

Sample Date/Time: Friday, May 25, 2007 15:22:32

Autosampler Position: 63

Dataset File: D:\Elandata\Dataset\052507M1\JW0G9.059

## Sample Result Summary

Mass	Analyte	Conc.	Mean	RSD	Meas. intens.	Mean	Sample Unit	Blank Intensity
[	23	Na	19635.633768	1.120	89222899.961		ug/L	14340.338
	24	Mg	795.668351	1.104	2751596.502		ug/L	4546.769
	27	Al	1.769007	3.969	16562.762		ug/L	7803.209
	39	K	396.187268	1.454	3597660.730		ug/L	787820.143
	44	Ca	995.705887	0.756	319133.184		ug/L	72922.037
>	45	Sc-1			480224.727		ug/L	480857.849
	51	V	2.415959	10.522	16776.105		ug/L	-3998.332
	57	Fe	128.567870	2.019	31785.893		ug/L	6512.532
	66	Zn	0.630850	2.940	1953.486		ug/L	1229.399
>	72	Ge-1			574386.336		ug/L	583818.267
	75	As	6.047437	5.173	9048.903		ug/L	441.860
[	135	Ba	0.302993	0.591	648.021		ug/L	109.668
>	165	Ho-1			1308659.655		ug/L	1276414.382
	205	Tl	-0.148475	19.438	4282.692		ug/L	6961.439
	208	Pb	-0.143720	1.435	3274.178		ug/L	6900.385
	238	U	0.317311	1.370	4800.521		ug/L	47.334
>	45	Sc-2			480224.727		ug/L	480857.849
	54	Fe	139.660969	8.062	107958.370		ug/L	37101.824
	67	Zn	0.406234	521.030	20259.894		ug/L	20205.161
[	137	Ba	0.282576	3.845	1063.717		ug/L	196.003
>	165	Ho-2			1308659.655		ug/L	1276414.382
	203	Tl	-0.146650	21.153	1792.465		ug/L	2942.667
	206	Pb	-0.135304	1.061	827.032		ug/L	1714.787
	207	Pb	-0.146274	1.357	740.693		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	99.868
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	98.384
	As	75	
[	Ba	135	
>	Ho-1	165	102.526
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	99.868
	Fe	54	
	Zn	67	
[	Ba	137	
>	Ho-2	165	102.526
	Tl	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6

Sample Date/Time: Friday, May 25, 2007 15:26:57

Autosampler Position: 7

Dataset File: D:\Elandata\Dataset\052507M1\QC Std 6.060

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
23 Na	2051.933378	1.635	9180750.579	ug/L	14340.338
24 Mg	1040.619922	2.149	3536873.502	ug/L	4546.769
27 Al	2004.898545	2.526	9782161.627	ug/L	7803.209
39 K	1990.790525	2.518	14661822.795	ug/L	787820.143
44 Ca	1079.328652	1.631	334137.344	ug/L	72922.037
> 45 Sc-1			472202.809	ug/L	480857.849
51 V	196.319233	2.243	1655603.457	ug/L	-3998.332
57 Fe	2171.682594	0.562	426359.110	ug/L	6512.532
66 Zn	197.551148	1.581	224605.894	ug/L	1229.399
> 72 Ge-1			561624.210	ug/L	583818.267
75 As	202.472432	0.552	282389.791	ug/L	441.860
135 Ba	192.657370	1.008	335587.621	ug/L	109.668
> 165 Ho-1			1289149.059	ug/L	1276414.382
205 Tl	192.040005	2.083	3645515.285	ug/L	6961.439
208 Pb	198.973912	1.265	5190100.527	ug/L	6900.385
238 U	206.073053	1.485	3040017.101	ug/L	47.334
> 45 Sc-2			472202.809	ug/L	480857.849
54 Fe	2142.139036	0.571	1106297.272	ug/L	37101.824
67 Zn	190.661747	1.259	58526.564	ug/L	20205.161
137 Ba	192.867925	1.238	580256.920	ug/L	196.003
> 165 Ho-2			1289149.059	ug/L	1276414.382
203 Tl	189.757141	1.735	1564463.033	ug/L	2942.667
206 Pb	205.784599	0.854	1396659.669	ug/L	1714.787
207 Pb	196.636233	0.834	1132013.541	ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte Mass	Int Std % Recovery	QC Std % Recovery
Na 23		102.597
Mg 24		104.062
Al 27		100.245
K 39		99.540
Ca 44		107.933
> Sc-1 45	98.200	
V 51		98.180
Fe 57		108.584
Zn 66		98.776
> Ge-1 72	96.198	
As 75		101.236
Ba 135		96.329
> Ho-1 165	100.998	
Tl 205		96.020
Pb 208		99.487
U 238		103.037
> Sc-2 45	98.200	
Fe 54		107.107
Zn 67		95.331
Ba 137		96.434
> Ho-2 165	100.998	
Tl 203		94.879
Pb 206		102.892
Pb 207		98.318

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 7

Sample Date/Time: Friday, May 25, 2007 15:31:52

Autosampler Position: 1

Dataset File: D:\Elandata\Dataset\052507M1\QC Std 7.061

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[ 23 Na	0.864456	3.958		17548.950		ug/L	14340.338
[ 24 Mg	0.122212	19.411		4771.511		ug/L	4546.769
[ 27 Al	0.077797	43.548		7863.910		ug/L	7803.209
[ 39 K	-5.588230	40.263		718306.333		ug/L	787820.143
[ 44 Ca	-55.542757	6.628		56808.966		ug/L	72922.037
> 45 Sc-1				461770.580		ug/L	480857.849
[ 51 V	0.110133	81.582		-2926.112		ug/L	-3998.332
[ 57 Fe	-0.926813	39.982		6078.530		ug/L	6512.532
[ 66 Zn	-0.086189	31.771		1085.052		ug/L	1229.399
> 72 Ge-1				554446.204		ug/L	583818.267
[ 75 As	0.052736	179.141		491.735		ug/L	441.860
[ 135 Ba	0.004611	53.753		116.335		ug/L	109.668
> 165 Ho-1				1262614.565		ug/L	1276414.382
[ 205 Tl	0.141654	55.704		9526.998		ug/L	6961.439
[ 208 Pb	-0.137993	0.948		3304.848		ug/L	6900.385
[ 238 U	0.006520	22.187		141.335		ug/L	47.334
> 45 Sc-2				461770.580		ug/L	480857.849
[ 54 Fe	3.738377	200.370		37468.715		ug/L	37101.824
[ 67 Zn	0.352301	395.116		19474.130		ug/L	20205.161
[ 137 Ba	0.000434	906.680		195.003		ug/L	196.003
> 165 Ho-2				1262614.565		ug/L	1276414.382
[ 203 Tl	0.137136	56.379		4021.617		ug/L	2942.667
[ 206 Pb	-0.130438	1.862		830.032		ug/L	1714.787
[ 207 Pb	-0.140709	2.825		746.027		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte Mass	Int Std % Recovery	QC Std % Recovery
[ Na 23		0.864
[ Mg 24		0.122
[ Al 27		0.078
[ K 39		-5.588
[ Ca 44		-55.543
> Sc-1 45	96.031	
[ V 51		11.013
[ Fe 57		-0.927
[ Zn 66		-8.819
> Ge-1 72	94.888	
[ As 75		5.274
[ Ba 135		0.461
> Ho-1 165	98.919	
[ Tl 205		14.165
[ Pb 208		-13.799
[ U 238		0.652
> Sc-2 45	96.031	
[ Fe 54		3.738
[ Zn 67		35.230
[ Ba 137		0.043
> Ho-2 165	98.919	
[ Tl 203		13.714
[ Pb 206		-13.044
[ Pb 207		-14.071

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW0HA

Sample Date/Time: Friday, May 25, 2007 15:36:45

Autosampler Position: 64

Dataset File: D:\Elandata\Dataset\052507M1\JW0HA.062

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[ 23 Na	19639.182512		2.285	88023575.840		ug/L	14340.338
24 Mg	3722.225073		0.655	12678608.196		ug/L	4546.769
27 Al	1.393542		0.955	14500.501		ug/L	7803.209
39 K	358.210328		2.215	3282720.949		ug/L	787820.143
44 Ca	7194.658173		0.949	1827059.823		ug/L	72922.037
> 45 Sc-1				473610.860		ug/L	480857.849
51 V	-2.924846	27.923		-28738.163		ug/L	-3998.332
57 Fe	-17.673020	3.777		2986.087		ug/L	6512.532
66 Zn	0.451811	11.397		1723.455		ug/L	1229.399
> 72 Ge-1				571270.350		ug/L	583818.267
75 As	1.071207	28.773		1952.635		ug/L	441.860
135 Ba	0.404971	7.295		824.699		ug/L	109.668
> 165 Ho-1				1302618.828		ug/L	1276414.382
205 Tl	-0.093849	45.343		5311.391		ug/L	6961.439
208 Pb	-0.140919	1.132		3332.517		ug/L	6900.385
238 U	0.268981	2.823		4057.617		ug/L	47.334
> 45 Sc-2				473610.860		ug/L	480857.849
54 Fe	13.624076	77.666		43352.249		ug/L	37101.824
67 Zn	-0.504306	649.760		19795.912		ug/L	20205.161
137 Ba	0.402601	2.542		1423.418		ug/L	196.003
> 165 Ho-2				1302618.828		ug/L	1276414.382
203 Tl	-0.094098	43.222		2222.198		ug/L	2942.667
206 Pb	-0.135094	2.783		824.699		ug/L	1714.787
207 Pb	-0.141245	4.557		766.362		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte Mass	Int Std % Recovery	QC Std % Recovery
[ Na 23		
Mg 24		
Al 27		
K 39		
Ca 44		
> Sc-1 45	98.493	
V 51		
Fe 57		
Zn 66		
> Ge-1 72	97.851	
As 75		
Ba 135		
> Ho-1 165	102.053	
Tl 205		
Pb 208		
U 238		
> Sc-2 45	98.493	
Fe 54		
Zn 67		
Ba 137		
> Ho-2 165	102.053	
Tl 203		
Pb 206		
Pb 207		

## QC Out Of Limits

Analyte Mass Out of Limits Message



## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW0HC

Sample Date/Time: Friday, May 25, 2007 15:41:09

Autosampler Position: 65

Dataset File: D:\Elandata\Dataset\052507M1\JW0HC.063

## Sample Result Summary

Mass	Analyte	Conc.	Mean	Conc.	RSD	Meas.	Intens.	Mean	Sample Unit	Blank Intensity
[	23	Na	20240.994127		1.710	89665231.550			ug/L	14340.338
	24	Mg	3935.162946		1.551	13248816.944			ug/L	4546.769
	27	Al	1.002668		3.490	12445.211			ug/L	7803.209
	39	K	375.581687		1.941	3364797.142			ug/L	787820.143
	44	Ca	7541.412789		0.699	1889707.577			ug/L	72922.037
>	45	Sc-1				468173.324			ug/L	480857.849
	51	V	-2.549725	34.202		-25233.787			ug/L	-3998.332
	57	Fe	-18.884369	4.470		2720.329			ug/L	6512.532
	66	Zn	0.453711	5.067		1705.786			ug/L	1229.399
>	72	Ge-1				561917.366			ug/L	583818.267
	75	As	0.930721	86.131		1727.215			ug/L	441.860
	135	Ba	0.418351	2.637		834.366			ug/L	109.668
>	165	Ho-1				1281667.092			ug/L	1276414.382
	205	Tl	-0.165511	22.367		3871.908			ug/L	6961.439
	208	Pb	-0.147644	0.628		3104.828			ug/L	6900.385
	238	U	0.292096	2.679		4331.033			ug/L	47.334
>	45	Sc-2				468173.324			ug/L	480857.849
	54	Fe	13.537193	87.893		42852.203			ug/L	37101.824
	67	Zn	-0.383649	292.979		19595.963			ug/L	20205.161
	137	Ba	0.422326	2.444		1459.756			ug/L	196.003
>	165	Ho-2				1281667.092			ug/L	1276414.382
	203	Tl	-0.165242	16.806		1602.774			ug/L	2942.667
	206	Pb	-0.135187	1.156		810.698			ug/L	1714.787
	207	Pb	-0.154628	1.095		677.690			ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	97.362
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	96.249
	As	75	
	Ba	135	
>	Ho-1	165	100.412
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	97.362
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	100.412
	Tl	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW0HD

Sample Date/Time: Friday, May 25, 2007 15:45:34

Autosampler Position: 66

Dataset File: D:\Elandata\Dataset\052507M1\JW0HD.064

## Sample Result Summary

Mass	Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23 Na	20631.226133		0.586	91548476.254		ug/L	14340.338
	24 Mg	4005.933687		0.774	13510608.282		ug/L	4546.769
	27 Al	0.803711		4.347	11501.077		ug/L	7803.209
	39 K	381.412983		1.146	3411191.991		ug/L	787820.143
	44 Ca	7637.950950		1.327	1916043.162		ug/L	72922.037
>	45 Sc-1				468949.229		ug/L	480857.849
	51 V	-3.668082	23.038		-34743.048		ug/L	-3998.332
	57 Fe	-18.173352	2.841		2861.204		ug/L	6512.532
	66 Zn	0.366286	15.865		1610.440		ug/L	1229.399
>	72 Ge-1				564121.900		ug/L	583818.267
	75 As	1.206236	4.891		2114.351		ug/L	441.860
	135 Ba	0.423274	8.488		844.033		ug/L	109.668
>	165 Ho-1				1283763.783		ug/L	1276414.382
	205 Tl	-0.188360	18.058		3449.461		ug/L	6961.439
	208 Pb	-0.152225	1.384		2991.151		ug/L	6900.385
	238 U	0.293308	1.403		4356.374		ug/L	47.334
>	45 Sc-2				468949.229		ug/L	480857.849
	54 Fe	15.055595	66.621		43613.709		ug/L	37101.824
	67 Zn	0.221868	1100.389		19745.836		ug/L	20205.161
	137 Ba	0.414188	2.202		1437.753		ug/L	196.003
>	165 Ho-2				1283763.783		ug/L	1276414.382
	203 Tl	-0.188441	14.594		1416.086		ug/L	2942.667
	206 Pb	-0.143924	4.728		753.027		ug/L	1714.787
	207 Pb	-0.154300	1.210		680.690		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	28	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	97.523
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	96.628
	As	75	
	Ba	135	
>	Ho-1	165	100.576
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	97.523
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	100.576
	Tl	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW0HE

Sample Date/Time: Friday, May 25, 2007 15:49:59

Autosampler Position: 67

Dataset File: D:\Elandata\Dataset\052507M1\JW0HE.065

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
23 Na	24389.856646		2.018	110409454.188		ug/L	14340.338
24 Mg	7486.115755		1.538	25752309.716		ug/L	4546.769
27 Al	7.851316		0.897	46548.851		ug/L	7803.209
39 K	651.203982		2.959	5386766.212		ug/L	787820.143
44 Ca	11612.197775		1.308	2934242.656		ug/L	72922.037
> 45 Sc-1				478408.445		ug/L	480857.849
51 V	1.616229	24.442		9859.370		ug/L	-3998.332
57 Fe	-23.215233	1.716		1931.000		ug/L	6512.532
66 Zn	0.544528	8.669		1847.138		ug/L	1229.399
> 72 Ge-1				566207.582		ug/L	583818.267
75 As	7.603937	4.335		11102.135		ug/L	441.860
135 Ba	1.380495	1.490		2525.248		ug/L	109.668
> 165 Ho-1				1294626.873		ug/L	1276414.382
205 Tl	-0.208524	13.164		3090.371		ug/L	6961.439
208 Pb	-0.147352	4.649		3143.165		ug/L	6900.385
238 U	1.638014	0.783		24315.922		ug/L	47.334
> 45 Sc-2				478408.445		ug/L	480857.849
54 Fe	13.123353	88.448		43554.669		ug/L	37101.824
67 Zn	0.560089	250.614		20217.166		ug/L	20205.161
137 Ba	1.368384	0.771		4332.033		ug/L	196.003
> 165 Ho-2				1294626.873		ug/L	1276414.382
203 Tl	-0.203025	13.839		1305.741		ug/L	2942.667
206 Pb	-0.133946	9.520		827.032		ug/L	1714.787
207 Pb	-0.154409	3.388		685.690		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
> Sc-1	45	99.491	
V	51		
Fe	57		
Zn	66		
> Ge-1	72	96.984	
As	75		
Ba	135		
> Ho-1	165	101.427	
Tl	205		
Pb	208		
U	238		
> Sc-2	45	99.491	
Fe	54		
Zn	67		
Ba	137		
> Ho-2	165	101.427	
Tl	203		
Pb	206		
Pb	207		

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW0HF

Sample Date/Time: Friday, May 25, 2007 15:54:24

Autosampler Position: 68

Dataset File: D:\Elandata\Dataset\052507M1\JW0HF.066

## Sample Result Summary

Mass	Analyte	Conc.	MeanConc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23 Na	24197.380480		1.115	108739267.578		ug/L	14340.338
	24 Mg	7418.315421		1.833	25332983.446		ug/L	4546.769
	27 Al	0.673557		4.770	11009.017		ug/L	7803.209
	39 K	648.503625		1.922	5328499.643		ug/L	787820.143
	44 Ca	11448.940796		0.328	2872861.330		ug/L	72922.037
>	45 Sc-1				474900.254		ug/L	480857.849
	51 V	1.564042	16.791		9352.753		ug/L	-3998.332
	57 Fe	-26.869746	3.504		1206.264		ug/L	6512.532
	66 Zn	0.509842	5.433		1794.131		ug/L	1229.399
>	72 Ge-1				563968.318		ug/L	583818.267
	75 As	6.934203	8.934		10122.335		ug/L	441.860
	135 Ba	1.386541	2.046		2518.914		ug/L	109.668
>	165 Ho-1				1286075.907		ug/L	1276414.382
	205 Tl	-0.212864	12.768		2989.349		ug/L	6961.439
	208 Pb	-0.155210	3.583		2918.479		ug/L	6900.385
	238 U	1.544997	1.425		22784.717		ug/L	47.334
>	45 Sc-2				474900.254		ug/L	480857.849
	54 Fe	10.022128	129.784		41662.564		ug/L	37101.824
	67 Zn	0.322281	414.560		20019.886		ug/L	20205.161
	137 Ba	1.394580	0.868		4381.716		ug/L	196.003
>	165 Ho-2				1286075.907		ug/L	1276414.382
	203 Tl	-0.207301	13.440		1262.403		ug/L	2942.667
	206 Pb	-0.146922	6.510		734.026		ug/L	1714.787
	207 Pb	-0.159052	1.788		654.688		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	98.761
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	96.600
	As	75	
	Ba	135	
>	Ho-1	165	100.757
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	98.761
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	100.757
	Tl	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW0HJ

Sample Date/Time: Friday, May 25, 2007 15:58:50

Autosampler Position: 69

Dataset File: D:\Elandata\Dataset\052507M1\JW0HJ.067

## Sample Result Summary

	Mass Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23 Na	24251.200914			0.912	108952120.412		ug/L	14340.338
	24 Mg	7354.964551			1.338	25109017.538		ug/L	4546.769
	27 Al	1.851806			4.780	16780.352		ug/L	7803.209
	39 K	653.028325			1.715	5358733.233		ug/L	787820.143
	44 Ca	11271.595111			1.927	2828586.480		ug/L	72922.037
>	45 Sc-1					474820.213		ug/L	480857.849
	51 V	0.851851			72.545	3244.621		ug/L	-3998.332
	57 Fe	-24.813761			7.506	1602.276		ug/L	6512.532
	66 Zn	0.455039			8.973	1731.789		ug/L	1229.399
>	72 Ge-1					567601.980		ug/L	583818.267
	75 As	6.854837			3.104	10075.994		ug/L	441.860
	135 Ba	1.353088			2.811	2482.241		ug/L	109.668
>	165 Ho-1					1297214.848		ug/L	1276414.382
	205 Tl	-0.218869			12.748	2898.662		ug/L	6961.439
	208 Pb	-0.157835			3.440	2874.474		ug/L	6900.385
	238 U	1.488255			1.684	22139.031		ug/L	47.334
>	45 Sc-2					474820.213		ug/L	480857.849
	54 Fe	11.622070			116.361	42430.027		ug/L	37101.824
	67 Zn	3.204975			54.104	20602.385		ug/L	20205.161
	137 Ba	1.343921			1.851	4267.013		ug/L	196.003
>	165 Ho-2					1297214.848		ug/L	1276414.382
	203 Tl	-0.208765			9.337	1261.069		ug/L	2942.667
	206 Pb	-0.149946			3.403	719.892		ug/L	1714.787
	207 Pb	-0.159013			3.412	660.355		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte Mass	Int Std % Recovery	QC Std % Recovery
[ Na 23		
Mg 24		
Al 27		
K 39		
Ca 44		
> Sc-1 45	98.744	
V 51		
Fe 57		
Zn 66		
> Ge-1 72	97.222	
As 75		
Ba 135		
> Ho-1 165	101.630	
Tl 205		
Pb 208		
U 238		
> Sc-2 45	98.744	
Fe 54		
Zn 67		
Ba 137		
> Ho-2 165	101.630	
Tl 203		
Pb 206		
Pb 207		

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW0HK

Sample Date/Time: Friday, May 25, 2007 16:03:17

Autosampler Position: 70

Dataset File: D:\Elandata\Dataset\052507M1\JW0HK.068

### Sample Result Summary

Mass	Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
23	Na	22982.712004			2.020	102150271.586		ug/L	14340.338
24	Mg	188.031486			1.274	639420.013		ug/L	4546.769
27	Al	5.659688			2.432	35072.356		ug/L	7803.209
39	K	439.877663			2.151	3822288.570		ug/L	787820.143
44	Ca	477.829560			1.945	188858.088		ug/L	72922.037
>	45 Sc-1					469739.768		ug/L	480857.849
	51 V	-0.567611	127.120			-8685.400		ug/L	-3998.332
	57 Fe	18.071508			7.249	9837.629		ug/L	6512.532
	66 Zn	0.523045			2.726	1789.463		ug/L	1229.399
>	72 Ge-1					567799.569		ug/L	583818.267
	75 As	6.704010			5.947	9872.013		ug/L	441.860
	135 Ba	0.217305			0.745	488.013		ug/L	109.668
>	165 Ho-1					1286200.797		ug/L	1276414.382
	205 Tl	-0.224110	12.234			2782.306		ug/L	6961.439
	208 Pb	-0.145877	0.534			3161.834		ug/L	6900.385
	238 U	0.415612			3.388	6163.391		ug/L	47.334
>	45 Sc-2					469739.768		ug/L	480857.849
	54 Fe	31.111632	32.651			51712.533		ug/L	37101.824
	67 Zn	2.585760	64.054			20260.897		ug/L	20205.161
	137 Ba	0.223110			5.057	866.702		ug/L	196.003
>	165 Ho-2					1286200.797		ug/L	1276414.382
	203 Tl	-0.218520	10.859			1172.394		ug/L	2942.667
	206 Pb	-0.132649	4.386			830.699		ug/L	1714.787
	207 Pb	-0.154554	4.707			680.690		ug/L	1555.100

### Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
Na	23		
Mg	24		
Al	27		
K	39		
Ca	44		
>	Sc-1	45	97.688
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	97.256
	As	75	
	Ba	135	
>	Ho-1	165	100.767
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	97.688
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	100.767
	Tl	203	
	Pb	206	
	Pb	207	

### QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW0HL

Sample Date/Time: Friday, May 25, 2007 16:07:40

Autosampler Position: 71

Dataset File: D:\Elandata\Dataset\052507M1\JW0HL.069

## Sample Result Summary

Mass	Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23	Na	22784.935702	1.695		102031427.043		ug/L	14340.338
	24	Mg	182.792215	0.958		626410.759		ug/L	4546.769
	27	Al	0.648151	35.416		10848.590		ug/L	7803.209
	39	K	431.148760	0.970		3790392.112		ug/L	787820.143
	44	Ca	471.398099	0.776		186696.572		ug/L	72922.037
>	45	Sc-1				473285.003		ug/L	480857.849
	51	V	0.008061	3754.903		-3881.857		ug/L	-3998.332
	57	Fe	1.781693	32.583		6754.603		ug/L	6512.532
	66	Zn	0.423425	6.877		1689.784		ug/L	1229.399
>	72	Ge-1				570223.991		ug/L	583818.267
	75	As	6.470435	7.313		9583.400		ug/L	441.860
	135	Ba	0.167521	5.227		404.010		ug/L	109.668
>	165	Ho-1				1294289.417		ug/L	1276414.382
	205	Tl	-0.232301	10.709		2637.941		ug/L	6961.439
	208	Pb	-0.158357	2.977		2854.806		ug/L	6900.385
	238	U	0.412301	1.923		6154.387		ug/L	47.334
>	45	Sc-2				473285.003		ug/L	480857.849
	54	Fe	11.276544	73.898		42137.048		ug/L	37101.824
	67	Zn	3.314402	110.119		20556.325		ug/L	20205.161
	137	Ba	0.155353	8.398		667.689		ug/L	196.003
>	165	Ho-2				1294289.417		ug/L	1276414.382
	203	Tl	-0.229864	8.346		1084.053		ug/L	2942.667
	206	Pb	-0.151054	1.902		710.691		ug/L	1714.787
	207	Pb	-0.161364	3.231		645.354		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	98.425
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	97.871
	As	75	
	Ba	135	
>	Ho-1	165	101.400
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	98.425
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	101.400
	Tl	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

### QUANTITATIVE ANALYSIS REPORT

Sample ID: JW0HN

Sample Date/Time: Friday, May 25, 2007 16:12:00

Autosampler Position: 72

Dataset File: D:\Elandata\Dataset\052507M1\JW0HN.070

### Sample Result Summary

Mass	Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23 Na	23698.339019			1.126	105177215.416		ug/L	14340.338
[	24 Mg	193.279428			2.041	656128.035		ug/L	4546.769
[	27 Al	3.876075			3.828	26380.605		ug/L	7803.209
[	39 K	447.947372			4.410	3872133.249		ug/L	787820.143
[	44 Ca	493.753102			2.464	190419.309		ug/L	72922.037
>	45 Sc-1					469055.844		ug/L	480857.849
	51 V	-0.282004	263.965			-6298.270		ug/L	-3998.332
	57 Fe	6.922439	12.935			7681.331		ug/L	6512.532
[	66 Zn	0.452497	13.080			1707.119		ug/L	1229.399
>	72 Ge-1					567728.353		ug/L	583818.267
[	75 As	6.987627	2.578			10265.554		ug/L	441.860
[	135 Ba	0.213275	8.470			476.348		ug/L	109.668
>	165 Ho-1					1273958.134		ug/L	1276414.382
	205 Tl	-0.236122	10.536			2527.254		ug/L	6961.439
	208 Pb	-0.149186	1.860			3046.822		ug/L	6900.385
[	238 U	0.438874	2.575			6444.852		ug/L	47.334
>	45 Sc-2					469055.844		ug/L	480857.849
	54 Fe	17.493636	47.426			44886.938		ug/L	37101.824
[	67 Zn	3.405497	72.436			20396.094		ug/L	20205.161
[	137 Ba	0.206623	5.538			809.698		ug/L	196.003
>	165 Ho-2					1273958.134		ug/L	1276414.382
	203 Tl	-0.232087	10.389			1049.717		ug/L	2942.667
	206 Pb	-0.138458	2.200			784.029		ug/L	1714.787
[	207 Pb	-0.151563	0.523			691.024		ug/L	1555.100

### Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	97.546
	V	51	
	Fe	57	
[	Zn	66	
>	Ge-1	72	97.244
[	As	75	
[	Ba	135	
>	Ho-1	165	99.808
	Tl	205	
	Pb	208	
[	U	238	
>	Sc-2	45	97.546
	Fe	54	
[	Zn	67	
[	Ba	137	
>	Ho-2	165	99.808
	Tl	203	
	Pb	206	
[	Pb	207	

### QC Out Of Limits

Analyte Mass Out of Limits Message



## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW0HP

Sample Date/Time: Friday, May 25, 2007 16:16:20

Autosampler Position: 73

Dataset File: D:\Elandata\Dataset\052507M1\JW0HP.071

## Sample Result Summary

Mass	Analyte	Conc.	Mean	Conc.	RSD	Meas.	Intens.	Mean	Sample Unit	Blank Intensity
[	23	Na	1646.568609		1.295		7609261.128		ug/L	14340.338
	24	Mg	184.590106		2.206		651521.476		ug/L	4546.769
	27	Al	49.779702		0.845		258480.609		ug/L	7803.209
	39	K	513.731462		1.237		4498860.807		ug/L	787820.143
	44	Ca	732.471230		0.843		257850.467		ug/L	72922.037
>	45	Sc-1					487476.532		ug/L	480857.849
	51	V	-0.940599		15.909		-12266.877		ug/L	-3998.332
	57	Fe	40.543421		2.084		14697.216		ug/L	6512.532
	66	Zn	82.165015		1.434		97176.440		ug/L	1229.399
>	72	Ge-1					575708.738		ug/L	583818.267
	75	As	-0.247233		75.975		81.636		ug/L	441.860
	135	Ba	3.576693		2.575		6373.485		ug/L	109.668
>	165	Ho-1					1296491.687		ug/L	1276414.382
	205	Tl	-0.190869		15.926		3433.121		ug/L	6961.439
	208	Pb	0.607004		3.738		22906.711		ug/L	6900.385
	238	U	0.014349		3.817		261.005		ug/L	47.334
>	45	Sc-2					487476.532		ug/L	480857.849
	54	Fe	118.047403		6.200		98461.145		ug/L	37101.824
	67	Zn	107.874235		2.854		43079.634		ug/L	20205.161
	137	Ba	3.535308		1.478		10892.594		ug/L	196.003
>	165	Ho-2					1296491.687		ug/L	1276414.382
	203	Tl	-0.186857		13.772		1442.088		ug/L	2942.667
	206	Pb	0.599051		2.382		5824.912		ug/L	1714.787
	207	Pb	0.599492		5.556		5043.941		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	101.376
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	98.611
	As	75	
	Ba	135	
>	Ho-1	165	101.573
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	101.376
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	101.573
	Tl	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6

Sample Date/Time: Friday, May 25, 2007 16:20:44

Autosampler Position: 7

Dataset File: D:\Elandata\Dataset\052507M1\QC Std 6.072

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
23 Na	2071.790976		2.106	9403837.463		ug/L	14340.338
24 Mg	1025.337190		2.096	3535608.843		ug/L	4546.769
27 Al	1969.042530		2.055	9747013.109		ug/L	7803.209
39 K	1945.646900		2.375	14554753.941		ug/L	787820.143
44 Ca	1055.755838		1.231	333177.155		ug/L	72922.037
> 45 Sc-1				479065.510		ug/L	480857.849
51 V	191.421236		2.445	1637598.078		ug/L	-3998.332
57 Fe	2126.933132		1.352	423751.154		ug/L	6512.532
66 Zn	194.097300		1.815	223903.357		ug/L	1229.399
> 72 Ge-1				566669.917		ug/L	583818.267
75 As	197.485074		2.381	277880.003		ug/L	441.860
135 Ba	191.132596		0.846	336293.213		ug/L	109.668
> 165 Ho-1				1302220.922		ug/L	1276414.382
205 Tl	187.133316		2.592	3588425.967		ug/L	6961.439
208 Pb	196.105538		1.094	5157234.843		ug/L	6900.385
238 U	207.194790		1.980	3087452.644		ug/L	47.334
> 45 Sc-2				479065.510		ug/L	480857.849
54 Fe	2112.122823		0.250	1107156.603		ug/L	37101.824
67 Zn	187.559275		1.358	58738.434		ug/L	20205.161
137 Ba	190.895777		0.765	579546.889		ug/L	196.003
> 165 Ho-2				1302220.922		ug/L	1276414.382
203 Tl	187.081419		2.308	1558033.440		ug/L	2942.667
206 Pb	202.474004		0.950	1388136.946		ug/L	1714.787
207 Pb	194.366475		1.873	1130263.933		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte Mass	Int Std % Recovery	QC Std % Recovery
Na 23		103.590
Mg 24		102.534
Al 27		98.452
K 39		97.282
Ca 44		105.576
> Sc-1 45	99.627	
V 51		96.711
Fe 57		106.347
Zn 66		97.049
> Ge-1 72	97.063	
As 75		98.743
Ba 135		95.566
> Ho-1 165	102.022	
Tl 205		93.567
Pb 208		98.053
U 238		103.597
> Sc-2 45	99.627	
Fe 54		105.608
Zn 67		93.780
Ba 137		95.348
> Ho-2 165	102.022	
Tl 203		93.541
Pb 206		101.237
Pb 207		97.183

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 7

Sample Date/Time: Friday, May 25, 2007 16:25:38

Autosampler Position: 1

Dataset File: D:\Elandata\Dataset\052507M1\QC Std 7.073

## Sample Result Summary

Mass	Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23	Na	0.817302	13.577		17555.959		ug/L	14340.338
	24	Mg	0.169341	22.617		4989.588		ug/L	4546.769
	27	Al	0.069702	40.499		7922.942		ug/L	7803.209
	39	K	-6.665224	8.873		719838.412		ug/L	787820.143
	44	Ca	-58.822733	3.657		56732.661		ug/L	72922.037
>	45	Sc-1				467540.171		ug/L	480857.849
	51	V	0.577556	88.879		938.360		ug/L	-3998.332
	57	Fe	-0.541560	35.802		6228.337		ug/L	6512.532
	66	Zn	-0.121054	16.185		1059.717		ug/L	1229.399
>	72	Ge-1				560287.785		ug/L	583818.267
	75	As	0.163284	304.949		649.273		ug/L	441.860
	135	Ba	0.024037	8.618		150.869		ug/L	109.668
>	165	Ho-1				1272560.626		ug/L	1276414.382
	205	Tl	0.126392	80.577		9292.524		ug/L	6961.439
	208	Pb	-0.146489	4.782		3111.495		ug/L	6900.385
	238	U	0.009289	16.403		182.336		ug/L	47.334
>	45	Sc-2				467540.171		ug/L	480857.849
	54	Fe	3.598890	257.953		37831.061		ug/L	37101.824
	67	Zn	2.114692	170.866		20066.625		ug/L	20205.161
	137	Ba	0.003050	230.134		204.337		ug/L	196.003
>	165	Ho-2				1272560.626		ug/L	1276414.382
	203	Tl	0.131439	68.918		3996.944		ug/L	2942.667
	206	Pb	-0.134593	5.037		808.698		ug/L	1714.787
	207	Pb	-0.151626	4.673		689.690		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	0.817
	Mg	24	0.169
	Al	27	0.070
	K	39	-6.685
	Ca	44	-58.823
>	Sc-1	45	97.230
	V	51	57.756
	Fe	57	-0.542
	Zn	66	-12.105
>	Ge-1	72	95.988
	As	75	16.328
	Ba	135	2.404
>	Ho-1	165	99.698
	Tl	205	12.639
	Pb	208	-14.649
	U	238	0.929
>	Sc-2	45	97.230
	Fe	54	3.598
	Zn	67	211.469
	Ba	137	0.305
>	Ho-2	165	99.698
	Tl	203	13.144
	Pb	206	-13.459
	Pb	207	-15.163

## QC Out Of Limits

Analyte Mass Out of Limits Message  
Zn 67 Q

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW3MLB

Sample Date/Time: Friday, May 25, 2007 16:30:30

Autosampler Position: 74

Dataset File: D:\Elandata\Dataset\052507M1\JW3MLB.074

## Sample Result Summary

Mass	Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23	Na	4.418863	5.283		34300.486		ug/L	14340.338
	24	Mg	-0.045161	84.019		4372.380		ug/L	4546.769
	27	Al	0.978016	2.907		12608.021		ug/L	7803.209
	39	K	-5.528153	8.837		745562.464		ug/L	787820.143
	44	Ca	-43.582058	3.469		81878.015		ug/L	72922.037
>	45	Sc-1				478932.882		ug/L	480857.849
	51	V	-1.975404	28.814		-20933.636		ug/L	-3998.332
	57	Fe	1.348562	35.082		6751.051		ug/L	6512.532
	66	Zn	1.040374	2.238		2417.895		ug/L	1229.399
>	72	Ge-1				565687.342		ug/L	583818.267
	75	As	-0.689865	30.979		-541.508		ug/L	441.860
	135	Ba	0.110508	2.514		304.340		ug/L	109.668
>	165	Ho-1				1294133.494		ug/L	1276414.382
	205	Ti	-0.002215	3190.258		7022.842		ug/L	6961.439
	208	Pb	-0.112871	1.777		4044.261		ug/L	6900.385
	238	U	0.000898	64.486		61.334		ug/L	47.334
>	45	Sc-2				478932.882		ug/L	480857.849
	54	Fe	70.848067	9.166		72826.240		ug/L	37101.824
	67	Zn	46.557158	8.048		29709.849		ug/L	20205.161
	137	Ba	0.101246	5.124		504.347		ug/L	196.003
>	165	Ho-2				1294133.494		ug/L	1276414.382
	203	Ti	-0.005712	1261.083		2939.341		ug/L	2942.667
	206	Pb	-0.103634	2.215		1033.381		ug/L	1714.787
	207	Pb	-0.114638	4.593		915.038		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	99.600
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	96.894
	As	75	
	Ba	135	
>	Ho-1	165	101.388
	Ti	205	
	Pb	208	
	U	238	
>	Sc-2	45	99.600
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	101.388
	Ti	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JW3MLC

Sample Date/Time: Friday, May 25, 2007 16:34:51

Autosampler Position: 75

Dataset File: D:\Elandata\Dataset\052507M1\JW3MLC.075

## Sample Result Summary

Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[	23 Na	10270.773288	2.252	48063483.705	ug/L	14340.338
	24 Mg	10035.935712	2.688	35680430.152	ug/L	4546.769
	27 Al	492.615204	3.603	2523131.534	ug/L	7803.209
	39 K	9671.100126	3.040	71462627.130	ug/L	787820.143
	44 Ca	9871.579477	3.446	2589370.125	ug/L	72922.037
>	45 Sc-1			494453.581	ug/L	480857.849
	51 V	467.407883	2.778	4133537.995	ug/L	-3998.332
	57 Fe	489.959847	0.344	105911.571	ug/L	6512.532
	66 Zn	428.412722	1.045	508595.756	ug/L	1229.399
>	72 Ge-1			564908.172	ug/L	583818.267
	75 As	494.948253	0.832	693729.668	ug/L	441.860
	135 Ba	465.798918	3.251	819309.403	ug/L	109.668
>	165 Ho-1			1302198.602	ug/L	1276414.382
	205 Tl	484.269145	3.038	9275241.499	ug/L	6961.439
	208 Pb	489.637330	2.099	12891174.688	ug/L	6900.385
	238 U	1052.819388	0.977	15688504.537	ug/L	47.334
>	45 Sc-2			494453.581	ug/L	480857.849
	54 Fe	602.456176	1.058	353215.304	ug/L	37101.824
	67 Zn	462.566986	2.548	119057.390	ug/L	20205.161
	137 Ba	459.675942	1.911	1396658.386	ug/L	196.003
>	165 Ho-2			1302198.602	ug/L	1276414.382
	203 Tl	462.272650	3.381	3845364.850	ug/L	2942.667
	206 Pb	478.530920	2.094	3278356.625	ug/L	1714.787
	207 Pb	481.432458	1.985	2797417.977	ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	102.827
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	96.761
	As	75	
	Ba	135	
>	Ho-1	165	102.020
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	102.827
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	102.020
	Tl	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRGX

Sample Date/Time: Friday, May 25, 2007 16:39:12

Autosampler Position: 76

Dataset File: D:\Elandata\Dataset\052507M1\JWRGX.076

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[ 23 Na	23592.376911		0.725	107390515.431		ug/L	14340.338
[ 24 Mg	4245.830738		0.615	14688334.951		ug/L	4546.769
[ 27 Al	1.645871		1.048	15981.427		ug/L	7803.209
[ 39 K	491.623839		0.997	4282257.753		ug/L	787820.143
[ 44 Ca	8634.760532		1.142	2212653.616		ug/L	72922.037
> 45 Sc-1				481046.546		ug/L	480857.849
[ 51 V	5.600325	5.267		44226.916		ug/L	-3998.332
[ 57 Fe	-21.878250	6.472		2204.378		ug/L	6512.532
[ 66 Zn	1.843841	1.712		3354.094		ug/L	1229.399
> 72 Ge-1				568119.280		ug/L	583818.267
[ 75 As	6.852788	5.770		10083.085		ug/L	441.860
[ 135 Ba	0.859903	4.592		1614.107		ug/L	109.668
> 165 Ho-1				1294260.791		ug/L	1276414.382
[ 205 Tl	0.484014	51.954		16259.942		ug/L	6961.439
[ 208 Pb	-0.121456	5.053		3819.903		ug/L	6900.385
[ 238 U	2.295497	1.394		34044.191		ug/L	47.334
> 45 Sc-2				481046.546		ug/L	480857.849
[ 54 Fe	8.214533	108.851		41294.556		ug/L	37101.824
[ 67 Zn	4.537214	63.504		21150.531		ug/L	20205.161
[ 137 Ba	0.855099	3.108		2780.298		ug/L	196.003
> 165 Ho-2				1294260.791		ug/L	1276414.382
[ 203 Tl	0.447603	49.421		6679.372		ug/L	2942.667
[ 206 Pb	-0.112684	6.905		971.709		ug/L	1714.787
[ 207 Pb	-0.124799	3.925		856.368		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte Mass	Int Std % Recovery	QC Std % Recovery
[ Na 23		
[ Mg 24		
[ Al 27		
[ K 39		
[ Ca 44		
> Sc-1 45	100.039	
[ V 51		
[ Fe 57		
[ Zn 68		
> Ge-1 72	97.311	
[ As 75		
[ Ba 135		
> Ho-1 165	101.398	
[ Tl 205		
[ Pb 208		
[ U 238		
> Sc-2 45	100.039	
[ Fe 54		
[ Zn 67		
[ Ba 137		
> Ho-2 165	101.398	
[ Tl 203		
[ Pb 206		
[ Pb 207		

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRGXS

Sample Date/Time: Friday, May 25, 2007 16:43:34

Autosampler Position: 77

Dataset File: D:\Elandata\Dataset\052507M1\JWRGXS.077

## Sample Result Summary

Mass	Analyte	Conc.	MeanConc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23	Na	24455.929031	1.325	111889982.150		ug/L	14340.338
	24	Mg	5250.698155	1.359	18256125.034		ug/L	4546.769
	27	Al	50.157189	1.012	258249.097		ug/L	7803.209
	39	K	1690.549980	1.775	12869856.312		ug/L	787820.143
	44	Ca	9595.260581	1.690	2463353.253		ug/L	72922.037
>	45	Sc-1			483494.154		ug/L	480857.849
	51	V	16.795559	0.306	141363.082		ug/L	-3998.332
	57	Fe	-0.193563	823.406	6508.166		ug/L	6512.532
	66	Zn	12.305866	1.081	15486.546		ug/L	1229.399
>	72	Ge-1			568829.837		ug/L	583818.267
	75	As	57.650502	1.689	81714.766		ug/L	441.860
	135	Ba	46.042199	1.680	82211.715		ug/L	109.668
>	165	Ho-1			1320195.872		ug/L	1276414.382
	205	Tl	46.793247	3.515	915141.377		ug/L	6961.439
	208	Pb	12.088167	1.249	329608.615		ug/L	6900.385
	238	U	54.565383	1.127	824392.788		ug/L	47.334
>	45	Sc-2			483494.154		ug/L	480857.849
	54	Fe	33.306142	31.514	54310.589		ug/L	37101.824
	67	Zn	13.835282	24.062	23186.372		ug/L	20205.161
	137	Ba	46.372863	1.008	143029.555		ug/L	196.003
>	165	Ho-2			1320195.872		ug/L	1276414.382
	203	Tl	46.893160	3.069	398237.824		ug/L	2942.667
	206	Pb	11.959648	1.472	84796.129		ug/L	1714.787
	207	Pb	11.914716	1.698	71752.813		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	100.548
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	97.388
	As	75	
	Ba	135	
>	Ho-1	165	103.430
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	100.548
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	103.430
	Tl	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRGXD

Sample Date/Time: Friday, May 25, 2007 16:47:56

Autosampler Position: 78

Dataset File: D:\Elandata\Dataset\052507M1\JWRGXD.078

## Sample Result Summary

	Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23 Na	24845.463494		2.210	114114160.853		ug/L	14340.338
	24 Mg	5443.996552		2.206	19002017.436		ug/L	4546.769
	27 Al	53.485729		1.129	275953.697		ug/L	7803.209
	39 K	1716.615771		1.436	13105911.819		ug/L	787820.143
	44 Ca	9748.700034		0.464	2511260.528		ug/L	72922.037
>	45 Sc-1				485407.198		ug/L	480857.849
	51 V	17.076406		3.709	144375.220		ug/L	-3998.332
	57 Fe	2.184521		56.210	7008.299		ug/L	6512.532
	66 Zn	12.294867		2.015	15533.597		ug/L	1229.399
>	72 Ge-1				572415.129		ug/L	583818.267
	75 As	58.788583		1.106	83878.000		ug/L	441.860
	135 Ba	47.915969		0.818	84960.084		ug/L	109.668
>	165 Ho-1				1310955.811		ug/L	1276414.382
	205 Tl	48.533580		2.049	942245.355		ug/L	6961.439
	208 Pb	12.541814		0.536	339329.488		ug/L	6900.385
	238 U	55.609859		0.627	834304.624		ug/L	47.334
>	45 Sc-2				485407.198		ug/L	480857.849
	54 Fe	35.537281		28.569	55692.627		ug/L	37101.824
	67 Zn	13.002818		11.301	23108.241		ug/L	20205.161
	137 Ba	48.127918		0.216	147400.003		ug/L	196.003
>	165 Ho-2				1310955.811		ug/L	1276414.382
	203 Tl	47.982786		2.844	404547.122		ug/L	2942.667
	206 Pb	12.312613		1.251	86634.779		ug/L	1714.787
	207 Pb	12.412362		1.878	74160.092		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	100.946
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	98.047
	As	75	
	Ba	135	
>	Ho-1	165	102.706
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	100.946
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	102.706
	Tl	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message



## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRGXV

Sample Date/Time: Friday, May 25, 2007 16:52:19

Autosampler Position: 79

Dataset File: D:\Elandata\Dataset\052507M1\JWRGXV.079

## Sample Result Summary

Mass	Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23	Na	5012.624980		0.793	22471676.308		ug/L	14340.338
	24	Mg	907.684492		1.996	3094727.934		ug/L	4546.769
	27	Al	0.639363		5.550	10809.863		ug/L	7803.209
	39	K	100.005011		1.731	1475523.883		ug/L	787820.143
	44	Ca	1864.553437		1.504	526608.986		ug/L	72922.037
>	45	Sc-1				473526.223		ug/L	480857.849
	51	V	0.985809		14.966	4419.066		ug/L	-3998.332
	57	Fe	-5.912777		3.943	5266.758		ug/L	6512.532
	66	Zn	0.510512		6.307	1789.463		ug/L	1229.399
>	72	Ge-1				567045.572		ug/L	583818.267
	75	As	1.035510		37.200	1881.441		ug/L	441.860
	135	Ba	0.193458		7.591	450.345		ug/L	109.668
>	165	Ho-1				1296709.367		ug/L	1276414.382
	205	Ti	0.036832		206.670	7777.579		ug/L	6961.439
	208	Pb	-0.148252		1.987	3125.497		ug/L	6900.385
	238	U	0.459997		0.006	6874.056		ug/L	47.334
>	45	Sc-2				473526.223		ug/L	480857.849
	54	Fe	6.845559		182.611	39936.301		ug/L	37101.824
	67	Zn	0.660016		364.249	20029.569		ug/L	20205.161
	137	Ba	0.178669		4.966	739.693		ug/L	196.003
>	165	Ho-2				1296709.367		ug/L	1276414.382
	203	Ti	0.035564		202.402	3285.086		ug/L	2942.667
	206	Pb	-0.138693		0.891	796.363		ug/L	1714.787
	207	Pb	-0.152478		6.074	698.024		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	98.475
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	97.127
	As	75	
	Ba	135	
>	Ho-1	165	101.590
	Ti	205	
	Pb	208	
	U	238	
>	Sc-2	45	98.475
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	101.590
	Ti	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRG3

Sample Date/Time: Friday, May 25, 2007 16:56:43

Autosampler Position: 80

Dataset File: D:\Elandata\Dataset\052507M1\JWRG3.080

## Sample Result Summary

Mass	Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23	Na	24204.015478	0.925		109860593.552		ug/L	14340.338
	24	Mg	4338.354857	1.043		14965503.156		ug/L	4546.769
	27	Al	1.089085	3.270		13178.542		ug/L	7803.209
	39	K	498.549813	1.145		4319200.727		ug/L	787820.143
	44	Ca	8799.832407	1.252		2247136.713		ug/L	72922.037
>	45	Sc-1				479679.864		ug/L	480857.849
	51	V	5.330184	1.212		41786.655		ug/L	-3998.332
	57	Fe	-21.596441	5.109		2253.923		ug/L	6512.532
	66	Zn	0.513666	5.620		1816.467		ug/L	1229.399
>	72	Ge-1				567800.126		ug/L	583818.267
	75	As	7.112249	3.208		10442.260		ug/L	441.860
	135	Ba	0.894514	3.463		1685.450		ug/L	109.668
>	165	Ho-1				1302429.964		ug/L	1276414.382
	205	Tl	-0.132312	35.531		4571.129		ug/L	6961.439
	208	Pb	-0.158117	2.201		2879.808		ug/L	6900.385
	238	U	2.203665	1.599		32894.500		ug/L	47.334
>	45	Sc-2				479679.864		ug/L	480857.849
	54	Fe	9.594360	111.306		41883.879		ug/L	37101.824
	67	Zn	2.164595	54.573		20602.052		ug/L	20205.161
	137	Ba	0.863612	1.818		2824.307		ug/L	196.003
>	165	Ho-2				1302429.964		ug/L	1276414.382
	203	Tl	-0.133418	29.314		1893.814		ug/L	2942.667
	206	Pb	-0.148811	3.803		730.693		ug/L	1714.787
	207	Pb	-0.161861	1.066		646.688		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	99.755
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	97.256
	As	75	
	Ba	135	
>	Ho-1	165	102.038
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	99.755
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	102.038
	Tl	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRG3S

Sample Date/Time: Friday, May 25, 2007 17:01:07

Autosampler Position: 81

Dataset File: D:\Elandata\Dataset\052507M1\JWRG3S.081

## Sample Result Summary

Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
23 Na	25419.685686	2.109	115027765.450	ug/L	14340.338
24 Mg	5527.426287	2.452	19008233.321	ug/L	4546.769
27 Al	52.988606	1.187	269415.078	ug/L	7803.209
39 K	1733.210575	2.268	13029597.754	ug/L	787820.143
44 Ca	9867.806672	0.953	2503388.890	ug/L	72922.037
> 45 Sc-1			478207.931	ug/L	480857.849
51 V	17.055955	5.504	142054.698	ug/L	-3998.332
57 Fe	2.895284	21.873	7043.637	ug/L	6512.532
66 Zn	12.257902	1.397	15261.301	ug/L	1229.399
> 72 Ge-1			569922.325	ug/L	583818.267
75 As	57.985156	0.164	82376.107	ug/L	441.860
135 Ba	48.199802	1.054	84624.094	ug/L	109.668
> 165 Ho-1			1298112.481	ug/L	1276414.382
205 Tl	49.298099	3.549	947667.331	ug/L	6961.439
208 Pb	12.732845	0.740	341017.075	ug/L	6900.385
238 U	56.224041	0.815	835258.236	ug/L	47.334
> 45 Sc-2			478207.931	ug/L	480857.849
54 Fe	36.895492	35.217	55550.525	ug/L	37101.824
67 Zn	15.632851	18.139	23304.899	ug/L	20205.161
137 Ba	48.712806	1.465	147722.705	ug/L	196.003
> 165 Ho-2			1298112.481	ug/L	1276414.382
203 Tl	48.719774	3.022	406721.471	ug/L	2942.667
206 Pb	12.623905	1.532	87911.911	ug/L	1714.787
207 Pb	12.564475	0.290	74318.224	ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte Mass	Int Std % Recovery	QC Std % Recovery
Na 23		
Mg 24		
Al 27		
K 39		
Ca 44		
> Sc-1 45	98.449	
V 51		
Fe 57		
Zn 66		
> Ge-1 72	97.620	
As 75		
Ba 135		
> Ho-1 165	101.700	
Tl 205		
Pb 208		
U 238		
> Sc-2 45	98.449	
Fe 54		
Zn 67		
Ba 137		
> Ho-2 165	101.700	
Tl 203		
Pb 206		
Pb 207		

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRG3D

Sample Date/Time: Friday, May 25, 2007 17:05:31

Autosampler Position: 82

Dataset File: D:\Elandata\Dataset\052507M1\JWRG3D.082

## Sample Result Summary

Mass	Analyte	Conc.	MeanConc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23	Na	25206.959954	1.568	114884700.430		ug/L	14340.338
	24	Mg	5499.895477	1.676	19049298.357		ug/L	4546.769
	27	Al	52.247122	0.884	267664.364		ug/L	7803.209
	39	K	1724.436686	2.627	13080633.822		ug/L	787820.143
	44	Ca	9744.854192	2.235	2490874.896		ug/L	72922.037
>	45	Sc-1			481658.293		ug/L	480857.849
	51	V	17.554879	0.806	147376.451		ug/L	-3998.332
	57	Fe	1.018232	70.409	6724.362		ug/L	6512.532
	66	Zn	12.316844	1.792	15439.828		ug/L	1229.399
>	72	Ge-1			570914.904		ug/L	583818.267
	75	As	57.893718	1.530	82387.213		ug/L	441.860
	135	Ba	48.722914	1.806	85492.248		ug/L	109.668
>	165	Ho-1			1297497.018		ug/L	1276414.382
	205	Tl	49.011655	3.649	941520.476		ug/L	6961.439
	208	Pb	12.681035	1.987	339459.894		ug/L	6900.385
	238	U	57.533305	1.129	854252.042		ug/L	47.334
>	45	Sc-2			481658.293		ug/L	480857.849
	54	Fe	36.198056	33.233	55606.612		ug/L	37101.824
	67	Zn	13.942648	11.846	23124.602		ug/L	20205.161
	137	Ba	48.644888	1.626	147437.407		ug/L	196.003
>	165	Ho-2			1297497.018		ug/L	1276414.382
	203	Tl	47.964446	4.105	400163.386		ug/L	2942.667
	206	Pb	12.439364	1.770	86603.252		ug/L	1714.787
	207	Pb	12.466354	1.212	73709.742		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	100.166
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	97.790
	As	75	
	Ba	135	
>	Ho-1	165	101.652
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	100.166
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	101.652
	Tl	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRG5

Sample Date/Time: Friday, May 25, 2007 17:09:56

Autosampler Position: 83

Dataset File: D:\Elandata\Dataset\052507M1\JWRG5.083

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[ 23 Na	24498.370154		1.067	111792073.951		ug/L	14340.338
[ 24 Mg	4395.505691		1.730	15243939.486		ug/L	4546.769
[ 27 Al	1.604451		2.196	15814.574		ug/L	7803.209
[ 39 K	492.553409		0.725	4299585.501		ug/L	787820.143
[ 44 Ca	8857.391089		0.558	2273453.088		ug/L	72922.037
> 45 Sc-1				482238.773		ug/L	480857.849
[ 51 V	4.995528	20.265		39137.652		ug/L	-3998.332
[ 57 Fe	-21.127232	1.710		2358.706		ug/L	6512.532
[ 66 Zn	0.634580	3.127		1965.822		ug/L	1229.399
> 72 Ge-1				566254.502		ug/L	583818.267
[ 75 As	7.183674	4.494		10515.398		ug/L	441.860
[ 135 Ba	0.848927	0.905		1601.106		ug/L	109.668
> 165 Ho-1				1301802.893		ug/L	1276414.382
[ 205 Tl	-0.011449	610.642		6878.098		ug/L	6961.439
[ 208 Pb	-0.158999	1.601		2854.806		ug/L	6900.385
[ 238 U	2.237374	0.907		33379.956		ug/L	47.334
> 45 Sc-2				482238.773		ug/L	480857.849
[ 54 Fe	9.945731	124.289		42266.969		ug/L	37101.824
[ 67 Zn	1.886441	106.624		20653.128		ug/L	20205.161
[ 137 Ba	0.861792	1.437		2817.306		ug/L	196.003
> 165 Ho-2				1301802.893		ug/L	1276414.382
[ 203 Tl	-0.014722	464.975		2877.659		ug/L	2942.667
[ 206 Pb	-0.151665	0.940		710.691		ug/L	1714.787
[ 207 Pb	-0.160144	1.607		656.355		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte Mass	Int Std % Recovery	QC Std % Recovery
[ Na 23		
[ Mg 24		
[ Al 27		
[ K 39		
[ Ca 44		
> Sc-1 45	100.287	
[ V 51		
[ Fe 57		
[ Zn 66		
> Ge-1 72	96.992	
[ As 75		
[ Ba 135		
> Ho-1 165	101.989	
[ Tl 205		
[ Pb 208		
[ U 238		
> Sc-2 45	100.287	
[ Fe 54		
[ Zn 67		
[ Ba 137		
> Ho-2 165	101.989	
[ Tl 203		
[ Pb 206		
[ Pb 207		

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 6

Sample Date/Time: Friday, May 25, 2007 17:14:22

Autosampler Position: 7

Dataset File: D:\Elandata\Dataset\052507M1\QC Std 6.084

## Sample Result Summary

	Mass Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
[	23 Na	2074.791573	2.436	9376958.250	ug/L	14340.338
	24 Mg	1026.991176	3.051	3526000.900	ug/L	4546.769
	27 Al	1989.181261	2.288	9705903.473	ug/L	7803.209
	39 K	1954.020503	2.496	14551084.876	ug/L	787820.143
	44 Ca	1060.774081	1.740	332978.995	ug/L	72922.037
>	45 Sc-1			477030.409	ug/L	480857.849
	51 V	192.164422	1.299	1637066.327	ug/L	-3998.332
	57 Fe	2138.623243	0.626	424259.567	ug/L	6512.532
	66 Zn	195.576870	2.702	224618.293	ug/L	1229.399
>	72 Ge-1			560059.159	ug/L	583818.267
	75 As	200.717906	0.933	279153.180	ug/L	441.860
	135 Ba	190.278303	1.829	334629.413	ug/L	109.668
>	165 Ho-1			1301673.703	ug/L	1276414.382
	205 Tl	190.247393	1.787	3646984.304	ug/L	6961.439
	208 Pb	199.549824	0.524	5255742.716	ug/L	6900.385
	238 U	205.620716	2.603	3063030.272	ug/L	47.334
>	45 Sc-2			477030.409	ug/L	480857.849
	54 Fe	2089.845227	0.611	1091185.420	ug/L	37101.824
	67 Zn	189.518790	2.259	58885.368	ug/L	20205.161
	137 Ba	191.580783	1.261	581969.288	ug/L	196.003
>	165 Ho-2			1301673.703	ug/L	1276414.382
	203 Tl	190.024443	1.623	1581981.979	ug/L	2942.667
	206 Pb	204.302820	0.213	1400110.961	ug/L	1714.787
	207 Pb	198.251138	1.126	1152353.283	ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	103.740
	Mg	24	102.689
	Al	27	98.459
	K	39	97.701
	Ca	44	106.077
>	Sc-1	45	99.204
	V	51	96.082
	Fe	57	106.931
	Zn	66	97.788
>	Ge-1	72	95.930
	As	75	100.359
	Ba	135	95.139
>	Ho-1	165	101.979
	Tl	205	95.124
	Pb	208	99.775
	U	238	102.810
>	Sc-2	45	99.204
	Fe	54	104.492
	Zn	67	94.759
	Ba	137	95.790
>	Ho-2	165	101.979
	Tl	203	95.012
	Pb	206	102.151
	Pb	207	99.126

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: QC Std 7

Sample Date/Time: Friday, May 25, 2007 17:19:17

Autosampler Position: 1

Dataset File: D:\Elandata\Dataset\052507M1\QC Std 7.085

## Sample Result Summary

Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[ 23 Na	1.205440		5.893	19003.822		ug/L	14340.338
[ 24 Mg	0.100267	23.436		4691.150		ug/L	4546.769
[ 27 Al	-0.009769	155.669		7434.675		ug/L	7803.209
[ 39 K	-7.810835	1.857		702106.989		ug/L	787820.143
[ 44 Ca	-60.153246	3.841		55622.631		ug/L	72922.037
> 45 Sc-1				461011.409		ug/L	480857.849
[ 51 V	0.063308	392.324		-3294.087		ug/L	-3998.332
[ 57 Fe	0.183755	978.117		6280.406		ug/L	6512.532
[ 66 Zn	-0.104830	15.109		1063.050		ug/L	1229.399
> 72 Ge-1				555054.347		ug/L	583818.267
[ 75 As	0.261391	176.777		779.218		ug/L	441.860
[ 135 Ba	0.006820	189.570		123.002		ug/L	109.668
> 165 Ho-1				1294009.439		ug/L	1276414.382
[ 205 Tl	0.120496	66.171		9353.544		ug/L	6961.439
[ 208 Pb	-0.156538	2.221		2902.478		ug/L	6900.385
[ 238 U	0.004910	23.646		120.668		ug/L	47.334
> 45 Sc-2				461011.409		ug/L	480857.849
[ 54 Fe	0.505026	1498.932		35787.299		ug/L	37101.824
[ 67 Zn	1.681629	227.951		19698.107		ug/L	20205.161
[ 137 Ba	-0.007756	67.765		175.336		ug/L	196.003
> 165 Ho-2				1294009.439		ug/L	1276414.382
[ 203 Tl	0.113912	62.315		3925.920		ug/L	2942.667
[ 206 Pb	-0.148414	3.757		728.693		ug/L	1714.787
[ 207 Pb	-0.162642	2.184		638.021		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte Mass	Int Std % Recovery	QC Std % Recovery
[ Na 23		1.205
[ Mg 24		0.100
[ Al 27		-0.010
[ K 39		-7.811
[ Ca 44		-60.153
> Sc-1 45	95.873	
[ V 51		6.331
[ Fe 57		0.184
[ Zn 66		-10.483
> Ge-1 72	95.073	
[ As 75		28.139
[ Ba 135		0.682
> Ho-1 165	101.378	
[ Tl 205		12.050
[ Pb 208		-15.654
[ U 238		0.491
> Sc-2 45	95.873	
[ Fe 54		0.505
[ Zn 67		188.163
[ Ba 137		-0.776
> Ho-2 165	101.378	
[ Tl 203		11.391
[ Pb 206		-14.841
[ Pb 207		-16.264

## QC Out Of Limits

Analyte Mass Out of Limits Message  
Zn 67 Q

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRG7

Sample Date/Time: Friday, May 25, 2007 17:36:08

Autosampler Position: 84

Dataset File: D:\Elandata\Dataset\052507M1\JWRG7.086

## Sample Result Summary

Mass	Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23 Na	18694.889286	1.723		84047722.990	ug/L	14340.338	
	24 Mg	8705.750929	2.322		29740455.120	ug/L	4546.769	
	27 Al	0.812379	3.088		11694.568	ug/L	7803.209	
	39 K	197.155740	5.677		2162394.561	ug/L	787820.143	
	44 Ca	7761.070871	1.703		1971411.744	ug/L	72922.037	
>	45 Sc-1				475104.168	ug/L	480857.849	
	51 V	-0.314568	105.369		-6611.976	ug/L	-3998.332	
	57 Fe	-10.790676	14.544		4334.671	ug/L	6512.532	
	66 Zn	0.477114	6.715		1757.792	ug/L	1229.399	
>	72 Ge-1				565388.101	ug/L	583818.267	
	75 As	2.497495	5.041		3930.216	ug/L	441.860	
	135 Ba	0.465285	1.374		928.706	ug/L	109.668	
>	165 Ho-1				1300109.957	ug/L	1276414.382	
	205 Tl	-0.209897	7.327		3081.032	ug/L	6981.439	
	208 Pb	-0.158746	1.123		2858.142	ug/L	6900.385	
	238 U	0.531087	1.997		7948.957	ug/L	47.334	
>	45 Sc-2				475104.168	ug/L	480857.849	
	54 Fe	14.701059	80.995		44037.211	ug/L	37101.824	
	67 Zn	3.258940	90.899		20626.091	ug/L	20205.161	
	137 Ba	0.447324	0.571		1556.434	ug/L	196.003	
>	165 Ho-2				1300109.957	ug/L	1276414.382	
	203 Tl	-0.205128	6.190		1295.405	ug/L	2942.667	
	206 Pb	-0.151780	2.111		709.025	ug/L	1714.787	
	207 Pb	-0.167989	2.046		610.019	ug/L	1555.100	

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	98.803
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	96.843
	As	75	
	Ba	135	
>	Ho-1	165	101.856
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	98.803
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	101.856
	Tl	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message



## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRG8

Sample Date/Time: Friday, May 25, 2007 17:40:33

Autosampler Position: 85

Dataset File: D:\Elandata\Dataset\052507M1\JWRG8.087

## Sample Result Summary

Mass	Analyte	Conc.	Mean	Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23	Na	18555.460637		1.442	84302448.513		ug/L	14340.338
	24	Mg	8672.866451		1.108	29940472.199		ug/L	4546.769
	27	Al	0.397076		4.464	9759.430		ug/L	7803.209
	39	K	195.824586		1.874	2175689.233		ug/L	787820.143
	44	Ca	7653.966311		1.967	1965627.991		ug/L	72922.037
>	45	Sc-1				480100.580		ug/L	480857.849
	51	V	-0.793346		66.197	-10824.036		ug/L	-3998.332
	57	Fe	-12.044631		1.526	4134.059		ug/L	6512.532
	66	Zn	0.322644		7.592	1598.439		ug/L	1229.399
>	72	Ge-1				569922.300		ug/L	583818.267
	75	As	2.463307		14.842	3915.120		ug/L	441.860
	135	Ba	0.468338		4.976	931.373		ug/L	109.668
>	165	Ho-1				1296912.064		ug/L	1276414.382
	205	Tl	-0.233331		6.341	2622.268		ug/L	6961.439
	208	Pb	-0.157490		4.403	2881.808		ug/L	6900.385
	238	U	0.521423		1.445	7787.534		ug/L	47.334
>	45	Sc-2				480100.580		ug/L	480857.849
	54	Fe	15.121326		80.003	44707.456		ug/L	37101.824
	67	Zn	0.996822		323.576	20377.067		ug/L	20205.161
	137	Ba	0.445359		3.768	1546.099		ug/L	196.003
>	165	Ho-2				1296912.064		ug/L	1276414.382
	203	Tl	-0.227515		8.808	1104.388		ug/L	2942.667
	206	Pb	-0.149415		3.205	723.026		ug/L	1714.787
	207	Pb	-0.159764		6.370	655.355		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
>	Sc-1	45	99.843
	V	51	
	Fe	57	
	Zn	66	
>	Ge-1	72	97.620
	As	75	
	Ba	135	
>	Ho-1	165	101.606
	Tl	205	
	Pb	208	
	U	238	
>	Sc-2	45	99.843
	Fe	54	
	Zn	67	
	Ba	137	
>	Ho-2	165	101.606
	Tl	203	
	Pb	206	
	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

## QUANTITATIVE ANALYSIS REPORT

Sample ID: JWRHC

Sample Date/Time: Friday, May 25, 2007 17:44:56

Autosampler Position: 86

Dataset File: D:\Elandata\Dataset\052507M1\JWRHC.088

## Sample Result Summary

	Mass Analyte	Conc.	Mean Conc.	RSD	Meas. Intens.	Mean	Sample Unit	Blank Intensity
[	23 Na	19304.946105		1.284	87468557.456		ug/L	14340.338
	24 Mg	9099.703933		0.530	31328173.836		ug/L	4546.769
	27 Al	0.798981		6.009	11717.588		ug/L	7803.209
	39 K	206.086507		0.488	2242319.781		ug/L	787820.143
	44 Ca	7907.958990		0.976	2023085.938		ug/L	72922.037
[>	45 Sc-1				478782.773		ug/L	480857.849
	51 V	-0.387870	102.791		-7319.027		ug/L	-3998.332
	57 Fe	-8.863562	8.821		4747.474		ug/L	6512.532
[	66 Zn	0.323719		8.100	1595.105		ug/L	1229.399
[>	72 Ge-1				572488.463		ug/L	583818.267
[	75 As	2.227476		12.324	3592.584		ug/L	441.860
[	135 Ba	0.484786		9.375	961.375		ug/L	109.668
[>	165 Ho-1				1297787.103		ug/L	1276414.382
	205 Tl	-0.242788	4.588		2445.568		ug/L	6961.439
	208 Pb	-0.147238	0.423		3154.499		ug/L	6900.385
[	238 U	0.511837		2.742	7648.124		ug/L	47.334
[>	45 Sc-2				478782.773		ug/L	480857.849
	54 Fe	14.253645	51.781		44129.120		ug/L	37101.824
[	67 Zn	4.276327	92.003		20990.960		ug/L	20205.161
[	137 Ba	0.470187		3.309	1623.109		ug/L	196.003
[>	165 Ho-2				1297787.103		ug/L	1276414.382
	203 Tl	-0.239703	3.069		1005.712		ug/L	2942.667
	206 Pb	-0.136877	2.390		809.364		ug/L	1714.787
[	207 Pb	-0.150058	0.393		712.692		ug/L	1555.100

## Internal Standard And QC Recoveries

Analyte	Mass	Int Std % Recovery	QC Std % Recovery
[	Na	23	
	Mg	24	
	Al	27	
	K	39	
	Ca	44	
[>	Sc-1	45	99.568
	V	51	
	Fe	57	
[	Zn	66	
[>	Ge-1	72	98.059
[	As	75	
[	Ba	135	
[>	Ho-1	165	101.674
	Tl	205	
	Pb	208	
[	U	238	
[>	Sc-2	45	99.568
	Fe	54	
[	Zn	67	
[	Ba	137	
[>	Ho-2	165	101.674
	Tl	203	
	Pb	206	
[	Pb	207	

## QC Out Of Limits

Analyte Mass Out of Limits Message

Analytical Runlog for Mercury Analysis										
Run #: AA0517E										
Instrument ID:										
Seq	Sample ID	Run Date/Time		Instr Conc.	Dilution	Final Conc.		QC Expected		% Recovery
1	S0	5/17/2007	14:35:44		1					
2	S0.2	5/17/2007	14:38:13		1					
3	S0.5	5/17/2007	14:41:31		1					
4	S1	5/17/2007	14:43:33		1					
5	S5	5/17/2007	14:45:36		1					
6	S10	5/17/2007	14:47:38		1					
7	ICV	5/17/2007	14:49:59	2.57	1	2.57	ppb	2.5	ppb	102.8%
8	CCB	5/17/2007	14:52:07	0.141	1	0.141	ppb	<0.2	ppb	
9	CRA	5/17/2007	14:54:14	0.187	1	0.187	ppb	0.2	ppb	93.5%
10	CCV	5/17/2007	14:56:17	4.99	1	4.99	ppb	5	ppb	99.8%
11	CCB	5/17/2007	14:58:49	0.007	1	0.007	ppb	<0.2	ppb	✓
12	JW5NRB	5/17/2007	15:00:53	-0.093	1	-0.093	ppb			
13	JW5NRC	5/17/2007	15:03:16	0.877	1	0.877	ppb	1		87.7
14	JW280	5/17/2007	15:05:20	0.045	1	0.045	ppb			
15	JW280S	5/17/2007	15:07:35	1.12	1	1.12	ppb	1		112
16	JW280D	5/17/2007	15:10:11	0.952	1	0.952	ppb	1		95.2
17	JW280V	5/17/2007	15:12:26	-0.137	5	-0.685	ppb			
18	JW5N0B	5/17/2007	15:15:19	0.059	1	0.059	ppb			
19	JW5N0C	5/17/2007	15:17:52	0.994	1	0.994	ppb	1		99.4
20	JW2N7	5/17/2007	15:20:31	0.034	1	0.034	ppb			
21	JW2N7S	5/17/2007	15:22:37	1.09	1	1.09	ppb	1		109
22	CCV	5/17/2007	15:24:40	5	1	5	ppb	5	ppb	100.0%
23	CCB	5/17/2007	15:26:44	-0.13	1	-0.13	ppb	<0.2	ppb	✓
24	JW2N7D	5/17/2007	15:29:09	1.11	1	1.11	ppb	1		111
25	JW2N7V	5/17/2007	15:31:38	-0.016	5	-0.08	ppb			
26	JW2P3	5/17/2007	15:33:46	-0.009	1	-0.009	ppb			
27	<del>JW5N5B</del>	5/17/2007	15:35:51	-0.024	1	-0.024	ppb			
28	JW5N5C	5/17/2007	15:39:38	1.02	1	1.02	ppb	1		102
29	JW0G7	5/17/2007	15:42:43	0.144	1	0.144	ppb			
30	JW0G7S	5/17/2007	15:45:27	1.23	1	1.23	ppb	1		108.6
31	JW0G7D	5/17/2007	15:47:35	1.22	1	1.22	ppb	1		107.6
32	JW0G7V	5/17/2007	15:49:44	-0.063	5	-0.315	ppb			
33	JW0G9	5/17/2007	15:51:48	0.108	1	0.108	ppb			
34	CCV	5/17/2007	15:53:51	4.95	1	4.95	ppb	5	ppb	99.0%
35	CCB	5/17/2007	15:55:54	0.038	1	0.038	ppb	<0.2	ppb	✓
36	JW0HA	5/17/2007	15:58:41	0.08	1	0.08	ppb			
37	JW0HC	5/17/2007	16:00:45	-0.043	1	-0.043	ppb			
38	JW0HD	5/17/2007	16:02:51	0.06	1	0.06	ppb			
39	JW0HE	5/17/2007	16:04:54	0.024	1	0.024	ppb			
40	JW0HF	5/17/2007	16:06:59	0.098	1	0.098	ppb			
41	JW0HJ	5/17/2007	16:09:14	0.088	1	0.088	ppb			
42	JW0HK	5/17/2007	16:11:27	-0.035	1	-0.035	ppb			
43	JW0HL	5/17/2007	16:13:41	0.027	1	0.027	ppb			
44	JW0HN	5/17/2007	16:15:48	-0.023	1	-0.023	ppb			
45	<del>JW0HP</del>	5/17/2007	16:18:23	0.039	1	0.039	ppb			
46	CCV	5/17/2007	16:20:30	4.8	1	4.8	ppb	5	ppb	96.0%
47	CCB	5/17/2007	16:22:37	-0.025	1	-0.025	ppb	<0.2	ppb	✓

Analyst: C. Buffington 5/18/07

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Reviewed by: FC 5/18/07

Analytical Runlog for Mercury Analysis									
Run #: AA0517E									
Instrument ID:									
Seq	Sample ID	Run Date/Time		Instr Conc.	Dilution	Final Conc.		QC Expected	% Recovery
48	JW5N9B	5/17/2007	16:24:43	0.01	1	0.01	ppb		
49	JW5N9C	5/17/2007	16:27:00	1.04	1	1.04	ppb	1	104
50	JWRGX	5/17/2007	16:29:19	0.008	1	0.008	ppb		
51	JWRGXS	5/17/2007	16:32:16	1.1	1	1.1	ppb	1	110
52	JWRGXD	5/17/2007	16:34:22	1.13	1	1.13	ppb	1	113
53	JWRGXV	5/17/2007	16:36:51	-0.12	5	-0.6	ppb		
54	JWRG3	5/17/2007	16:39:01	0.035	1	0.035	ppb		
55	JWRG3S	5/17/2007	16:41:05	1.21	1	1.21	ppb	1	121
56	JWRG3D	5/17/2007	16:43:07	1.07	1	1.07	ppb	1	107
57	JWRG5	5/17/2007	16:45:10	0.075	1	0.075	ppb		
58	CCV	5/17/2007	16:47:29	4.87	1	4.87	ppb	5 ppb	97.4%
59	CCB	5/17/2007	16:49:33	0.029	1	0.029	ppb	<0.2 ppb	✓
60	JWRG7	5/17/2007	16:51:40	0.161	1	0.161	ppb		
61	JWRG8	5/17/2007	16:53:55	-0.041	1	-0.041	ppb		
62	JWRHC	5/17/2007	16:56:03	0.055	1	0.055	ppb		
63	JWRHD	5/17/2007	16:58:59	0.279	1	0.279	ppb		
64	CCV	5/17/2007	17:01:16	4.85	1	4.85	ppb	5 ppb	97.0%
65	CCB	5/17/2007	17:03:21	-0.011	1	-0.011	ppb	<0.2 ppb	✓
66	JWRHH	5/17/2007	17:05:23	0.243	1	0.243	ppb		
67	JWRHL	5/17/2007	17:07:29	0.156	1	0.156	ppb		
68	JWRHR	5/17/2007	17:09:32	0.077	1	0.077	ppb		
69	JWRHW	5/17/2007	17:11:40	0.134	1	0.134	ppb		
70	JWRHX	5/17/2007	17:13:44	0.138	1	0.138	ppb		
71	JWRH0	5/17/2007	17:15:47	-0.027	1	-0.027	ppb		
72	JWRH1	5/17/2007	17:18:31	0.006	1	0.006	ppb		
73	JWRH2	5/17/2007	17:21:30	0.018	1	0.018	ppb		
74	JWRH3	5/17/2007	17:23:45	-0.023	1	-0.023	ppb		
75	JWRH5	5/17/2007	17:25:49	0.059	1	0.059	ppb		
76	CCV	5/17/2007	17:27:53	4.89	1	4.89	ppb	5 ppb	97.8%
77	CCB	5/17/2007	17:29:58	-0.042	1	-0.042	ppb	<0.2 ppb	✓
78	JWRH6	5/17/2007	17:32:02	0.01	1	0.01	ppb		
79	JWRH8	5/17/2007	17:34:49	0.058	1	0.058	ppb		
80	JWRH9	5/17/2007	17:36:53	0.014	1	0.014	ppb		
81	JWQGNB	5/17/2007	17:39:09	0.007	1	0.007	ppb		
82	JW5PCC	5/17/2007	17:41:15	5.27	1	5.27	ppb	5	105.4
83	JWJ22	5/17/2007	17:43:20	0.012	1	0.012	ppb		
84	JWJ22S	5/17/2007	17:45:43	4.72	1	4.72	ppb	5	94.4
85	JWJ22D	5/17/2007	17:47:57	4.74	1	4.74	ppb	5	94.8
86	JWJ22V	5/17/2007	17:50:01	-0.118	5	-0.59	ppb		
87	JWJ3A	5/17/2007	17:52:19	0.025	1	0.025	ppb		
88	CCV	5/17/2007	17:54:45	4.87	1	4.87	ppb	5 ppb	97.4%
89	CCB	5/17/2007	17:56:57	0.023	1	0.023	ppb	<0.2 ppb	✓
90	JWJ3G	5/17/2007	17:59:26	0.55	1	0.55	ppb		
91	JWJ3H	5/17/2007	18:01:32	-0.087	1	-0.087	ppb		
92	JWRMV	5/17/2007	18:03:37	0.043	1	0.043	ppb		
93	JWRM3	5/17/2007	18:05:51	-0.088	1	-0.088	ppb		
94	JWVFK	5/17/2007	18:08:17	0.028	1	0.028	ppb		

Analyst: CRuffington 5/17/07

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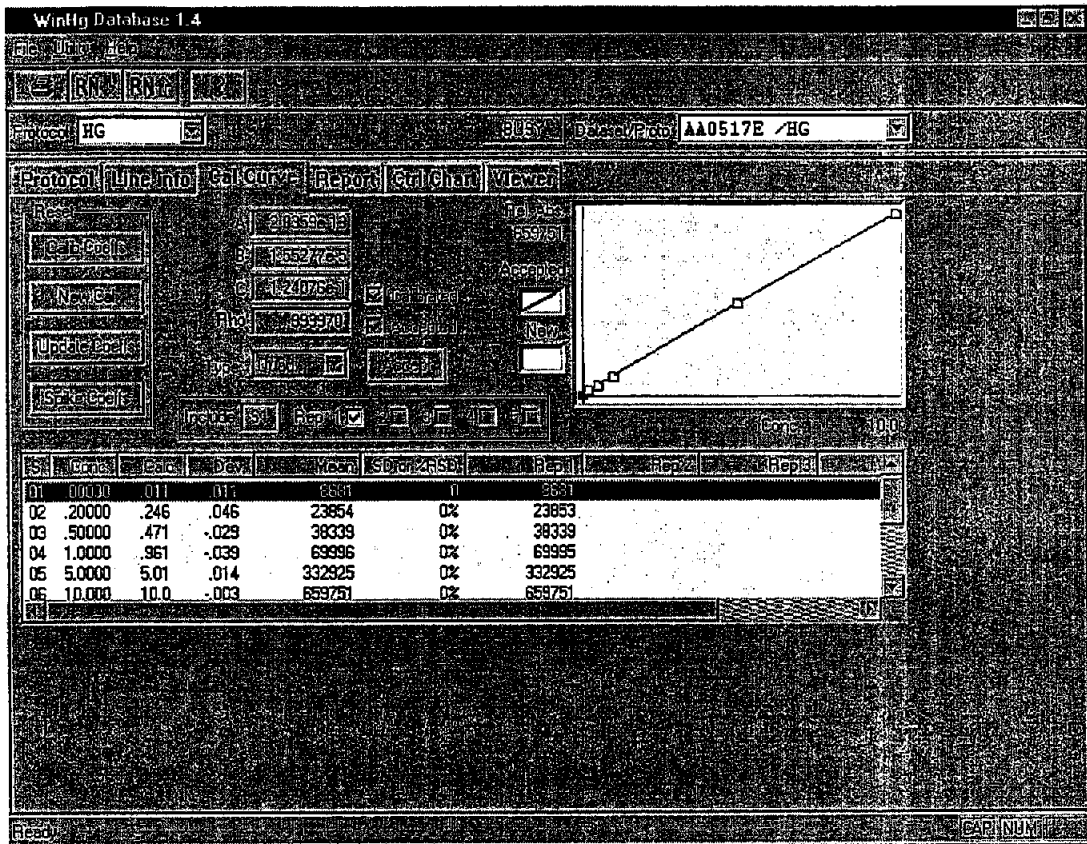
Reviewed by: E. Slidin

Analytical Runlog for Mercury Analysis										
Run #: AA0517E										
Instrument ID:										
Seq	Sample ID	Run Date/Time		Instr Conc.	Dilution	Final Conc.		QC Expected		% Recovery
95	JWVFT	5/17/2007	18:10:23	0.064	1	0.064	ppb			
96	JWW7DB	5/17/2007	18:12:34	0.019	1	0.019	ppb			
97	JW5PLC	5/17/2007	18:14:39	5.29	1	5.29	ppb	5		105.8
98	JV9XA	5/17/2007	18:17:05	-0.06	1	-0.06	ppb			
99	JV9XAS	5/17/2007	18:19:43	5.1	1	5.1	ppb	5		102
100	CCV	5/17/2007	18:21:47	4.65	1	4.65	ppb	5 ppb		93.0%
101	CCB	5/17/2007	18:23:54	-0.033	1	-0.033	ppb	<0.2 ppb		✓
102	JV9XAX	5/17/2007	18:25:59	0.03	1	0.03	ppb			
103	JV9XAV	5/17/2007	18:28:14	-0.003	5	-0.015	ppb			
104	JW1THB	5/17/2007	18:31:02	0.066	1	0.066	ppb			
105	JW5PNC	5/17/2007	18:33:10	5.22	1	5.22	ppb	5		104.4
106	JWGJF	5/17/2007	18:35:48	-0.028	1	-0.028	ppb			
107	JWGJFS	5/17/2007	18:38:12	5.1	1	5.1	ppb	5		102
108	JWGJFD	5/17/2007	18:40:20	4.85	1	4.85	ppb	5		97
109	JWGJFV	5/17/2007	18:42:25	-0.133	5	-0.665	ppb			
110	CCV	5/17/2007	18:44:31	4.76	1	4.76	ppb	5 ppb		95.2%
111	CCB	5/17/2007	18:46:33	0.033	1	0.033	ppb	<0.2 ppb		✓

Analyst: C Buffington 5/18/07

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Reviewed by: RL 5/18/07



C Buffington  
 7470A/p45.2 5/17/07  
 Std. Hg 051707

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 1 Rep: 1				Seq: 1		14:35:44	17 May 07	HG
Hg	.000	ppb	8681					=
*** Standard: 2 Rep: 1				Seq: 2		14:38:13	17 May 07	HG
Hg	.200	ppb	23853					=
*** Standard: 3 Rep: 1				Seq: 3		14:41:31	17 May 07	HG
Hg	.500	ppb	38339					=
*** Standard: 4 Rep: 1				Seq: 4		14:43:33	17 May 07	HG
Hg	1.00	ppb	69995					=
*** Standard: 5 Rep: 1				Seq: 5		14:45:36	17 May 07	HG
Hg	5.00	ppb	332925					=
*** Standard: 6 Rep: 1				Seq: 6		14:47:38	17 May 07	HG
Hg	10.0	ppb	659751					=
*** Check Standard: 4 Ck4ICV				Seq: 7		14:49:59	17 May 07	HG
Line Flag %Rcv. Found True Units SD/RSD								=
Hg		103.	2.57	2.50	ppb	.000	%	=
*** Check Standard: 1 Ck1CCB				Seq: 8		14:52:07	17 May 07	HG
Line Flag Found Range(+/-) Units SD/RSD								=
Hg		.141	.200	ppb		.000	%	=
*** Check Standard: 5 Ck5CRA				Seq: 9		14:54:14	17 May 07	HG
Line Flag %Rcv. Found True Units SD/RSD								=
Hg		93.3	.187	.200	ppb	.000	%	=
*** Check Standard: 2 Ck2CCV				Seq: 10		14:56:17	17 May 07	HG
Line Flag %Rcv. Found True Units SD/RSD								=
Hg		99.8	4.99	5.00	ppb	.000	%	=
*** Check Standard: 1 Ck1CCB				Seq: 11		14:58:49	17 May 07	HG
Line Flag Found Range(+/-) Units SD/RSD								=
Hg		.007	.200	ppb		.000	%	=
*** Sample ID: JWSNRB				Seq: 12		15:00:53	17 May 07	HG
Hg	-.093	ppb	.000	%	-.093			=

C Buffington  
 7.470A/245.2 5/18/07  
 Std. Hg 051707

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: JW5NRC								
				Seq: 13	15:03:16	17 May 07	HG	
Hg	.877	ppb	.000 %	.877				
=====								
*** Sample ID: JW280								
				Seq: 14	15:05:20	17 May 07	HG	
Hg	.045	ppb	.000 %	.045				
=====								
*** Sample ID: JW280S								
				Seq: 15	15:07:35	17 May 07	HG	
Hg	1.12	ppb	.000 %	1.12				
=====								
*** Sample ID: JW280D								
				Seq: 16	15:10:11	17 May 07	HG	
Hg	.952	ppb	.000 %	.952				
=====								
*** Sample ID: JW280V								
				Seq: 17	15:12:26	17 May 07	HG	
Hg	-.137	ppb	.000 %	-.137				
=====								
*** Sample ID: JW5N0B								
				Seq: 18	15:15:19	17 May 07	HG	
Hg	.059	ppb	.000 %	.059				
=====								
*** Sample ID: JW5N0C								
				Seq: 19	15:17:52	17 May 07	HG	
Hg	.994	ppb	.000 %	.994				
=====								
*** Sample ID: JW2N7								
				Seq: 20	15:20:31	17 May 07	HG	
Hg	.034	ppb	.000 %	.034				
=====								
*** Sample ID: JW2N7S								
				Seq: 21	15:22:37	17 May 07	HG	
Hg	1.09	ppb	.000 %	1.09				
=====								
*** Check Standard: 2 Ck2CCV								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		100.	5.00	5.00	ppb	.000 %		



Folder: AA0517E  
 Protocol: HG  
 \*\*\*POST-RUN REPORT\*\*\*

Page 3

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Check Standard: 1 Ck1CCB								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.130	.200	ppb	.000	%		
Seq: 23 15:26:44 17 May 07 HG								
*** Sample ID: JW2N7D								
Seq: 24 15:29:09 17 May 07 HG								
Hg	1.11	ppb	.000	%	1.11			
=====								
*** Sample ID: JW2N7V								
Seq: 25 15:31:38 17 May 07 HG								
Hg	-.016	ppb	.000	%	-.016			
=====								
*** Sample ID: JW2P3								
Seq: 26 15:33:46 17 May 07 HG								
Hg	-.009	ppb	.000	%	-.009			
=====								
*** Sample ID: JW5N5B								
Seq: 27 15:35:51 17 May 07 HG								
Hg	-.024	ppb	.000	%	-.024			
=====								
*** Sample ID: JW5N5C								
Seq: 28 15:39:38 17 May 07 HG								
Hg	1.02	ppb	.000	%	1.02			
=====								
*** Sample ID: JW0G7								
Seq: 29 15:42:43 17 May 07 HG								
Hg	.144	ppb	.000	%	.144			
=====								
*** Sample ID: JW0G7S								
Seq: 30 15:45:27 17 May 07 HG								
Hg	1.23	ppb	.000	%	1.23			
=====								
*** Sample ID: JW0G7D								
Seq: 31 15:47:35 17 May 07 HG								
Hg	1.22	ppb	.000	%	1.22			
=====								
*** Sample ID: JW0G7V								
Seq: 32 15:49:44 17 May 07 HG								
Hg	-.063	ppb	.000	%	-.063			
=====								

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: JW0G9								
				Seq: 33	15:51:48	17 May 07	HG	
Hg	.108	ppb	.000 %	.108				
*** Check Standard: 2 Ck2CCV								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		99.0	4.95	5.00	ppb	.000 %		
*** Check Standard: 1 Ck1CCB								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		.038	.200	ppb	.000 %			
*** Sample ID: JW0HA								
				Seq: 36	15:58:41	17 May 07	HG	
Hg	.080	ppb	.000 %	.080				
=====								
*** Sample ID: JW0HC								
				Seq: 37	16:00:45	17 May 07	HG	
Hg	-.043	ppb	.000 %	-.043				
=====								
*** Sample ID: JW0HD								
				Seq: 38	16:02:51	17 May 07	HG	
Hg	.060	ppb	.000 %	.060				
=====								
*** Sample ID: JW0HE								
				Seq: 39	16:04:54	17 May 07	HG	
Hg	.024	ppb	.000 %	.024				
=====								
*** Sample ID: JW0HF								
				Seq: 40	16:06:59	17 May 07	HG	
Hg	.098	ppb	.000 %	.098				
=====								
*** Sample ID: JW0HJ								
				Seq: 41	16:09:14	17 May 07	HG	
Hg	.088	ppb	.000 %	.088				
=====								
*** Sample ID: JW0HK								
				Seq: 42	16:11:27	17 May 07	HG	
Hg	-.035	ppb	.000 %	-.035				
=====								

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: JW0HL								
				Seq: 43	16:13:41	17	May 07	HG
Hg	.027	ppb	.000 %	.027				
=====								
*** Sample ID: JW0HN								
				Seq: 44	16:15:48	17	May 07	HG
Hg	-.023	ppb	.000 %	-.023				
=====								
*** Sample ID: JW0HP								
				Seq: 45	16:18:23	17	May 07	HG
Hg	.039	ppb	.000 %	.039				
=====								
*** Check Standard: 2 Ck2CCV								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		96.0	4.80	5.00	ppb	.000 %		
=====								
*** Check Standard: 1 Ck1CCB								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.025	.200	ppb	.000 %			
=====								
*** Sample ID: JW5N9B								
				Seq: 48	16:24:43	17	May 07	HG
Hg	.010	ppb	.000 %	.010				
=====								
*** Sample ID: JW5N9C								
				Seq: 49	16:27:00	17	May 07	HG
Hg	1.04	ppb	.000 %	1.04				
=====								
*** Sample ID: JWRGX								
				Seq: 50	16:29:19	17	May 07	HG
Hg	.008	ppb	.000 %	.008				
=====								
*** Sample ID: JWRGXS								
				Seq: 51	16:32:16	17	May 07	HG
Hg	1.10	ppb	.000 %	1.10				
=====								
*** Sample ID: JWRGXD								
				Seq: 52	16:34:22	17	May 07	HG
Hg	1.13	ppb	.000 %	1.13				
=====								

Line	Conc.	Units	SD/RSD	1	2	3	4	5
=====								
*** Sample ID: JWRGXV					Seq: 53		16:36:51 17 May 07	HG
			5X					
Hg	-.120	ppb	.000 %		-.120			
=====								
*** Sample ID: JWRG3					Seq: 54		16:39:01 17 May 07	HG
Hg	.035	ppb	.000 %		.035			
=====								
*** Sample ID: JWRG3S					Seq: 55		16:41:05 17 May 07	HG
Hg	1.21	ppb	.000 %		1.21			
=====								
*** Sample ID: JWRG3D					Seq: 56		16:43:07 17 May 07	HG
Hg	1.07	ppb	.000 %		1.07			
=====								
*** Sample ID: JWRG5					Seq: 57		16:45:10 17 May 07	HG
Hg	.075	ppb	.000 %		.075			
=====								
*** Check Standard: 2 Ck2CCV					Seq: 58		16:47:29 17 May 07	HG
Line Flag %Rcv. Found True Units SD/RSD								
Hg	97.4	4.87	5.00	ppb	.000 %			
=====								
*** Check Standard: 1 Ck1CCB					Seq: 59		16:49:33 17 May 07	HG
Line Flag Found Range(+/-) Units SD/RSD								
Hg	.029	.200	ppb	.000 %				
=====								
*** Sample ID: JWRG7					Seq: 60		16:51:40 17 May 07	HG
Hg	.161	ppb	.000 %		.161			
=====								
*** Sample ID: JWRG8					Seq: 61		16:53:55 17 May 07	HG
Hg	-.041	ppb	.000 %		-.041			
=====								
*** Sample ID: JWRHC					Seq: 62		16:56:03 17 May 07	HG
Hg	.055	ppb	.000 %		.055			
=====								

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: JWRHD								
				Seq: 63	16:58:59	17 May 07	HG	
Hg	.279	ppb	.000 %	.279				
*** Check Standard: 2 Ck2CCV								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		97.0	4.85	5.00	ppb	.000 %		
*** Check Standard: 1 Ck1CCB								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.011	.200	ppb	.000 %			
*** Sample ID: JWRHH								
				Seq: 66	17:05:23	17 May 07	HG	
Hg	.243	ppb	.000 %	.243				
*** Sample ID: JWRHL								
				Seq: 67	17:07:29	17 May 07	HG	
Hg	.156	ppb	.000 %	.156				
*** Sample ID: JWRHR								
				Seq: 68	17:09:32	17 May 07	HG	
Hg	.077	ppb	.000 %	.077				
*** Sample ID: JWRHW								
				Seq: 69	17:11:40	17 May 07	HG	
Hg	.134	ppb	.000 %	.134				
*** Sample ID: JWRHX								
				Seq: 70	17:13:44	17 May 07	HG	
Hg	.138	ppb	.000 %	.138				
*** Sample ID: JWRHO								
				Seq: 71	17:15:47	17 May 07	HG	
Hg	-.027	ppb	.000 %	-.027				
*** Sample ID: JWRH1								
				Seq: 72	17:18:31	17 May 07	HG	
Hg	.006	ppb	.000 %	.006				

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: JWRH2								
				Seq: 73	17:21:30	17 May 07	HG	
Hg	.018	ppb	.000 %	.018				
=====								
*** Sample ID: JWRH3								
				Seq: 74	17:23:45	17 May 07	HG	
Hg	-.023	ppb	.000 %	-.023				
=====								
*** Sample ID: JWRH5								
				Seq: 75	17:25:49	17 May 07	HG	
Hg	.059	ppb	.000 %	.059				
*** Check Standard: 2 Ck2CCV								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		97.9	4.89	5.00	ppb	.000 %		
Seq: 76 17:27:53 17 May 07 HG								
*** Check Standard: 1 Ck1CCB								
Line	Flag	Found	Range (+/-)	Units	SD/RSD			
Hg		-.042	.200	ppb	.000 %			
Seq: 77 17:29:58 17 May 07 HG								
*** Sample ID: JWRH6								
				Seq: 78	17:32:02	17 May 07	HG	
Hg	.010	ppb	.000 %	.010				
=====								
*** Sample ID: JWRH8								
				Seq: 79	17:34:49	17 May 07	HG	
Hg	.058	ppb	.000 %	.058				
=====								
*** Sample ID: JWRH9								
				Seq: 80	17:36:53	17 May 07	HG	
Hg	.014	ppb	.000 %	.014				
=====								
*** Sample ID: JWQGNB								
				Seq: 81	17:39:09	17 May 07	HG	
Hg	.007	ppb	.000 %	.007				
=====								
*** Sample ID: JW5PCC								
				Seq: 82	17:41:15	17 May 07	HG	
Hg	5.27	ppb	.000 %	5.27				
=====								

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: JWJ22								
				Seq: 83	17:43:20	17	May	07 HG
Hg	.012	ppb	.000 %	.012				
=====								
*** Sample ID: JWJ22S								
				Seq: 84	17:45:43	17	May	07 HG
Hg	4.72	ppb	.000 %	4.72				
=====								
*** Sample ID: JWJ22D								
				Seq: 85	17:47:57	17	May	07 HG
Hg	4.74	ppb	.000 %	4.74				
=====								
*** Sample ID: JWJ22V								
				Seq: 86	17:50:01	17	May	07 HG
Hg	-.118	ppb	.000 %	-.118				
=====								
*** Sample ID: JWJ3A								
				Seq: 87	17:52:19	17	May	07 HG
Hg	.025	ppb	.000 %	.025				
=====								
*** Check Standard: 2 Ck2CCV								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		97.4	4.87	5.00	ppb	.000 %		
Seq: 88 17:54:45 17 May 07 HG								
=====								
*** Check Standard: 1 Ck1CCB								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		.023	.200	ppb	.000 %			
Seq: 89 17:56:57 17 May 07 HG								
=====								
*** Sample ID: JWJ3G								
				Seq: 90	17:59:26	17	May	07 HG
Hg	.550	ppb	.000 %	.550				
=====								
*** Sample ID: JWJ3H								
				Seq: 91	18:01:32	17	May	07 HG
Hg	-.087	ppb	.000 %	-.087				
=====								
*** Sample ID: JWRMV								
				Seq: 92	18:03:37	17	May	07 HG
Hg	.043	ppb	.000 %	.043				
=====								

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: JW3RM3								
				Seq: 93	18:05:51	17 May 07	HG	
Hg	-.088	ppb	.000 %	-.088				
=====								
*** Sample ID: JWVFK								
				Seq: 94	18:08:17	17 May 07	HG	
Hg	.028	ppb	.000 %	.028				
=====								
*** Sample ID: JWVFT								
				Seq: 95	18:10:23	17 May 07	HG	
Hg	.064	ppb	.000 %	.064				
=====								
*** Sample ID: JW7DB								
				Seq: 96	18:12:34	17 May 07	HG	
Hg	.019	ppb	.000 %	.019				
=====								
*** Sample ID: JW5PLC								
				Seq: 97	18:14:39	17 May 07	HG	
Hg	5.29	ppb	.000 %	5.29				
=====								
*** Sample ID: JV9XA								
				Seq: 98	18:17:05	17 May 07	HG	
Hg	-.060	ppb	.000 %	-.060				
=====								
*** Sample ID: JV9XAS								
				Seq: 99	18:19:43	17 May 07	HG	
Hg	5.10	ppb	.000 %	5.10				
=====								
*** Check Standard: 2 Ck2CCV								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		93.0	4.65	5.00	ppb	.000 %		
=====								
*** Check Standard: 1 Ck1CCB								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.033	.200	ppb	.000 %			
=====								
*** Sample ID: JV9XAX								
				Seq: 102	18:25:59	17 May 07	HG	
Hg	.030	ppb	.000 %	.030				
=====								



Line	Conc.	Units	SD/RSD	1	2	3	4	5
-----								
*** Sample ID: JV9XAV				Seq: 103	18:28:14	17 May 07	HG	
			5X					
Hg	-.003	ppb	.000 %	-.003				
=====								
*** Sample ID: JW1THB				Seq: 104	18:31:02	17 May 07	HG	
Hg	.066	ppb	.000 %	.066				
=====								
*** Sample ID: JW5PNC				Seq: 105	18:33:10	17 May 07	HG	
Hg	5.22	ppb	.000 %	5.22				
=====								
*** Sample ID: JWGJF				Seq: 106	18:35:48	17 May 07	HG	
Hg	-.028	ppb	.000 %	-.028				
=====								
*** Sample ID: JWGJFS				Seq: 107	18:38:12	17 May 07	HG	
Hg	5.10	ppb	.000 %	5.10				
=====								
*** Sample ID: JWGJFD				Seq: 108	18:40:20	17 May 07	HG	
Hg	4.85	ppb	.000 %	4.85				
=====								
*** Sample ID: JWGJFV				Seq: 109	18:42:25	17 May 07	HG	
			5X					
Hg	-.133	ppb	.000 %	-.133				
=====								
*** Check Standard: 2 Ck2CCV				Seq: 110	18:44:31	17 May 07	HG	
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		95.2	4.76	5.00	ppb	.000 %		
=====								
*** Check Standard: 1 Ck1CCB				Seq: 111	18:46:33	17 May 07	HG	
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		.033	.200	ppb	.000 %			
=====								

**METALS MISCELLANEOUS DATA**



Metals Prep Report for Batch # 7135271

STL St. Louis  
13715 Rider Trail North  
Earth City, MO 63045

**Prep Method:** SW-846 6020, Water 2%

**SOP Number:**

STL-IP-0013, Rev 6

**Extraction Code:** GJ

**Extraction:** TOTAL

**Matrix:** WATER

**Prep Date:** 5/15/2007

**Standard Log Ref#:** MET-05/07-H2O

Lot ID	Work Order #	Initial Wt/Vol	Final Volume	Lab Filtered	Due Date	Sample Location	Target List
F7E150000-271B	JW057B	50 mL	50 mL	<input type="checkbox"/>			AG AL AS
F7E150000-271C	JW057C	50 mL	50 mL	<input type="checkbox"/>			B BA BE
80X F7E150126-001	JW0G7	50 mL	50 mL	<input type="checkbox"/>	05/28/2007	METS	CA CD CO CR CU FE K
F7E150126-001D	JW0G7D	50 mL	50 mL	<input type="checkbox"/>		METS	MG MN MO
F7E150126-001S	JW0G7S	50 mL	50 mL	<input type="checkbox"/>		METS	NA NI PB PT SB SE SN
↓ F7E150126-002	JW0G9	50 mL	50 mL	<input type="checkbox"/>	05/28/2007	METS	SR TI TL U V W ZN
100X F7E150126-003	JW0HA	50 mL	50 mL	<input type="checkbox"/>	05/28/2007	METS	
↓ F7E150126-004	JW0HC	50 mL	50 mL	<input type="checkbox"/>	05/28/2007	METS	
↓ F7E150126-005	JW0HD	50 mL	50 mL	<input type="checkbox"/>	05/28/2007	METS	
25X F7E150126-006	JW0HE	50 mL	50 mL	<input type="checkbox"/>	05/28/2007	METS	
↓ F7E150126-007	JW0HF	50 mL	50 mL	<input type="checkbox"/>	05/28/2007	METS	
↓ F7E150126-008	JW0HJ	50 mL	50 mL	<input type="checkbox"/>	05/28/2007	METS	
100X F7E150126-009	JW0HK	50 mL	50 mL	<input type="checkbox"/>	05/28/2007	METS	
↓ F7E150126-010	JW0HL	50 mL	50 mL	<input type="checkbox"/>	05/28/2007	METS	
↓ F7E150126-011	JW0HN	50 mL	50 mL	<input type="checkbox"/>	05/28/2007	METS	
F7E150126-012	JW0HP	50 mL	50 mL	<input type="checkbox"/>	05/28/2007	METS	

QC Suffix: B=reagent blank, C=lab control sample, L=lab control sample duplicate, X=sample duplicate, S=matrix spike, D=matrix spike duplicate  
PrepSheet Generator 1.22, updated 8/21/2006

Comments:

**Chemical Lot Information**

<u>Chemical</u>	<u>Lot Number</u>
Hydrochloric Acid	C42A22
Nitric Acid	E02054

**Custody Information**

Relinquished By:	<u>AS</u>
Review/Received By:	<u>R</u>
Date of Transfer:	<u>5-16-07</u>

SEVERN  
TRENT

STL

Mercury Prep Report for Batch # 7137175STL St. Louis  
13715 Rider Trail North  
Earth City, MO 63045Prep Method: SW-846 7470ASOP Number: STL-MT-0005, Rev 0Extraction Code: 19Extraction: TOTALMatrix: WATERPrep Date: 5/17/2007Time In: 12:15Temp In: 95 °CTime Out: 14:15Temp Out: 95 °CStandard Log Ref#: Hg051707

<u>Lot ID</u>	<u>Work Order #</u>	<u>Initial Wt/Vol</u>	<u>Final Volume</u>	<u>Lab Filtered</u>	<u>Due Date</u>	<u>Sample Location</u>
F7E150126-001	JW0G7	30 mL	30 mL	<input type="checkbox"/>	05/28/2007	METS
F7E150126-001D	JW0G7D	30 mL	30 mL	<input type="checkbox"/>		METS
F7E150126-001S	JW0G7S	30 mL	30 mL	<input type="checkbox"/>		METS
F7E150126-002	JW0G9	30 mL	30 mL	<input type="checkbox"/>	05/28/2007	METS
F7E150126-003	JW0HA	30 mL	30 mL	<input type="checkbox"/>	05/28/2007	METS
F7E150126-004	JW0HC	30 mL	30 mL	<input type="checkbox"/>	05/28/2007	METS
F7E150126-005	JW0HD	30 mL	30 mL	<input type="checkbox"/>	05/28/2007	METS
F7E150126-006	JW0HE	30 mL	30 mL	<input type="checkbox"/>	05/28/2007	METS
F7E150126-007	JW0HF	30 mL	30 mL	<input type="checkbox"/>	05/28/2007	METS
F7E150126-008	JW0HJ	30 mL	30 mL	<input type="checkbox"/>	05/28/2007	METS
F7E150126-009	JW0HK	30 mL	30 mL	<input type="checkbox"/>	05/28/2007	METS
F7E150126-010	JW0HL	30 mL	30 mL	<input type="checkbox"/>	05/28/2007	METS
F7E150126-011	JW0HN	30 mL	30 mL	<input type="checkbox"/>	05/28/2007	METS
F7E150126-012	JW0HP	30 mL	30 mL	<input type="checkbox"/>	05/28/2007	METS
F7E170000-175B	JW5N5B	30 mL	30 mL	<input type="checkbox"/>		
F7E170000-175C	JW5N5C	30 mL	30 mL	<input type="checkbox"/>		

QC Suffix: B=reagent blank, C=lab control sample, L=lab control sample duplicate, X=sample duplicate, S=matrix spike, D=matrix spike duplicate

PrepSheet Generator 1.16, updated 2/7/2005

Page 1 of 2

Comments:

**Custody Information**

Relinquished By: CB  
Review/Received By: CB  
Date of Transfer: 5/17/07

**WET CHEMISTRY**  
(ALPHABETICALLY BY ANALYSIS)

STL Los Angeles  
1721 South Grand Avenue

Santa Ana, CA 92705  
phone 714-258-8610 fax 714-258-0921



F7E150119  
F7E150117 see 28 6/4/07  
F7E14019 5/15/07

Chain of Custody Record

Severn Trent Laboratories, Inc.

Client Contact		Project Manager: Robert Kennedy Tel/Fax: (978) 589-3324		Site Contact: Brian Ho Date: 5-11-07		COC No: 051107-3	
2 Technology Park Dr. Westford/MA/01886-3140		Analysis Turnaround Time Calendar (C) or Work Days (W) 21 DAYS		Lab Contact: Melissa Hooper Carrier: FedEx		Job No. _____ of _____ COCs	
(978) 589-3324 Phone		TAT if different from Below		Jenny Everett		SDG No. 04020-023-401	
(978) 589-3282 FAX		<input type="checkbox"/> 2 weeks					
Project Name: Source Area Investigation		<input type="checkbox"/> 1 week					
Site: Henderson, NV		<input type="checkbox"/> 2 days					
P O # _____		<input type="checkbox"/> 1 day					
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Sample Specific Notes:	
M11-F	5/11/07	1325		W	1		
M11-Z		1320		W	1		
M89-L		1335		W	1		
M89-F		1340		W	1		
M89-Z		1345		W	1		
M97-L		1410		W	1		
M97-F		1415		W	1		
M97-Z		1420		W	1		
M12A-L		1335		W	1		
M12A-F		1300		W	1		
M12A-Z		1250		W	1		
F.B051107-Z		1435		W	1		

Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Special Instructions/QC Requirements & Comments:  
 Coordinate sample reception with ~~McNamee~~ Harris (STL - St. Louis)  
 Jenny Everett

Relinquished by: ZOE DIERMIER	Company: ENSR	Date/Time: 5/14/07 16:15	Received by: Jenny Everett	Company: STL	Date/Time: 5/12/07 1045
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:



**STL LOS ANGELES - PROJECT RECEIPT CHECKLIST** Date: 5/12/07

Single Cooler Only

LIMS Lot #: F7E40197 F7E15017 5/15/06 F7E150119 Quote #: \_\_\_\_\_

Client Name: ST. LOUIS ENSR 6-4-07 Project: Source Area Investigation

Received by: CA Date/Time Received: 5/12/07 1045

Delivered by:  Client  STL  DHL  Fed Ex  UPS  Other \_\_\_\_\_

\*\*\*\*\* Initial / Date  
 Custody Seal Status Cooler:  Intact  Broken  None ..... CA 5/12/07

Custody Seal Status Samples:  Intact  Broken  None .....

Custody Seal #(s): N/A  No Seal #.....

Sampler Signature on COC  Yes  No  N/A.....

IR Gun # B Correction Factor -.2 °C IR passed daily verification  Yes  No .....

Temperature - BLANK 2.2 °C - .2 CF = 2.0 °C Cooler #1 ID N/A .....

Temperature - COOLER ( \_\_\_\_\_ °C \_\_\_\_\_ °C \_\_\_\_\_ °C \_\_\_\_\_ °C ) = \_\_\_\_\_ avg °C - .2 CF = \_\_\_\_\_ °C.....

Samples outside temperature criteria but received within 6 hours of final sampling  Yes  N/A.....

Sample Container(s):  STL-LA  Client .....

pH measured:  Yes  Anomaly (if checked, notify lab and file NCM)  N/A..

Anomalies:  No  Yes - complete CUR and Create NCM .....

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times.  Yes  No.....

Labeled by: SG .....

\*\*\*\*\*  
 Turn Around Time:  RUSH-24HR  RUSH-48HR  RUSH-72HR  NORMAL.....

\*\*\*\*\* LEAVE NO BLANK SPACES ; USE N/A \*\*\*\*\*

Headspace Anomaly			Headspace Anomaly		
Lab ID	Container(s) #	Headspace	Lab ID	Container(s) #	Headspace
		<input type="checkbox"/> > 6mm			<input type="checkbox"/> > 6mm
		<input type="checkbox"/> > 6mm			<input type="checkbox"/> > 6mm
		<input type="checkbox"/> > 6mm			<input type="checkbox"/> > 6mm
		<input type="checkbox"/> > 6mm			<input type="checkbox"/> > 6mm
		<input type="checkbox"/> > 6mm			<input type="checkbox"/> > 6mm
		<input type="checkbox"/> > 6mm			<input type="checkbox"/> > 6mm
		<input type="checkbox"/> > 6mm			<input type="checkbox"/> > 6mm
		<input type="checkbox"/> > 6mm			<input type="checkbox"/> > 6mm

~~F7E150117~~ ~~RS 6-4-07~~ ~~5/15/07~~  
~~F7E140199~~

F7E150119

Fraction	1-12															
VOAH																
250 Pb	1															
										CA 5/12/07						
/																
/																
/																
/																
/																
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H: HCL, S: H2SO4, N: HNO3, V: VOA, SL, Sleeve, E: Encore, PB: Poly Bottle, CGB: Clear Glass Bottle, AGJ: Amber Glass Jar, T: Terracore  
 AGB: Amber Glass Bottle, n/f/l: HNO3-Lab filtered, n/f: HNO3-Field filtered, znna: Zinc Acetate/Sodium Hydroxide, Na2s2o3: sodium thiosulfate

Condition Upon Receipt Anomaly Form		Anomalies <input type="checkbox"/> YES <input checked="" type="checkbox"/> N/A CA 5/12/07
<ul style="list-style-type: none"> <li>▪ COOLERS                             <ul style="list-style-type: none"> <li><input type="checkbox"/> Not Received (received COC only)</li> <li><input type="checkbox"/> Leaking</li> <li><input type="checkbox"/> Other:</li> </ul> </li> <li>▪ TEMPERATURE (SPECS 4 ± 2°C)                             <ul style="list-style-type: none"> <li><input type="checkbox"/> Cooler Temp(s)</li> <li><input type="checkbox"/> Temperature Blank(s)</li> </ul> </li> <li>▪ CONTAINERS                             <ul style="list-style-type: none"> <li><input type="checkbox"/> Leaking <span style="margin-left: 100px;"><input type="checkbox"/> Voa Vials with Bubbles &gt; 6mm</span></li> <li><input type="checkbox"/> Broken</li> <li><input type="checkbox"/> Extra</li> <li><input type="checkbox"/> Without Labels</li> <li><input type="checkbox"/> Other:</li> </ul> </li> <li>▪ SAMPLES                             <ul style="list-style-type: none"> <li><input type="checkbox"/> Samples NOT RECEIVED but listed on COC</li> <li><input type="checkbox"/> Samples received but NOT LISTED on COC</li> <li><input type="checkbox"/> Logged based on Label Information</li> <li><input type="checkbox"/> Logged based on info from other samples on COC</li> <li><input type="checkbox"/> Logged according to Work Plan</li> <li><input type="checkbox"/> Logged on HOLD UNTIL FURTHER NOTICE</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>▪ CUSTODY SEALS (COOLER(S) CONTAINER(S))                             <ul style="list-style-type: none"> <li><input type="checkbox"/> None <span style="margin-left: 100px;"><input type="checkbox"/> None</span></li> <li><input type="checkbox"/> Not Intact <span style="margin-left: 100px;"><input type="checkbox"/> Not Intact</span></li> <li><input type="checkbox"/> Other <span style="margin-left: 100px;"><input type="checkbox"/> Other</span></li> </ul> </li> <li>▪ CHAIN OF CUSTODY (COC)                             <ul style="list-style-type: none"> <li><input type="checkbox"/> Not relinquished by Client; No date/time relinquished</li> <li><input type="checkbox"/> Incomplete information provided</li> <li><input type="checkbox"/> Other <input type="checkbox"/> COC not received – notify PM</li> </ul> </li> <li>▪ LABELS                             <ul style="list-style-type: none"> <li><input type="checkbox"/> Not the same ID/info as in COC</li> <li><input type="checkbox"/> Incomplete Information</li> <li><input type="checkbox"/> Markings/Info illegible</li> <li><input type="checkbox"/> Torn</li> </ul> </li> <li> <ul style="list-style-type: none"> <li><input type="checkbox"/> Will be noted on COC--Client to send samples with new COC</li> <li><input type="checkbox"/> Misabeled as to tests, preservatives, etc.</li> <li><input type="checkbox"/> Holding time expired – list sample ID and test</li> <li><input type="checkbox"/> Improper container used</li> <li><input type="checkbox"/> Not preserved/Improper preservative used</li> <li><input type="checkbox"/> Improper pH _____ Lab to preserve sample and document</li> <li><input type="checkbox"/> Insufficient quantities for analysis <span style="float: right;"><input type="checkbox"/> Other</span></li> </ul> </li> </ul>	
Comments: <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>		
□ Corrective Action Implemented: □ Client Informed: verbally on _____ By: _____ <input type="checkbox"/> In writing on _____ By: _____ □ Sample(s) on hold until: _____ <input type="checkbox"/> Sample(s) processed "as is."		
Logged by/Date: _____ Logged in by other STL <input checked="" type="checkbox"/> <u>SS</u> 5/12/07 RM Review/Date: <u>CE</u> 5/16/07		

**STL**

**STL LA Raw Data**

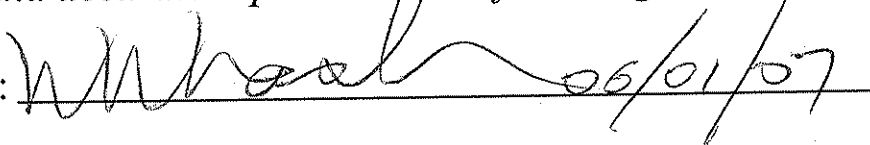
# STL

## Classical Chemistry Extended Raw Data

Lot ID: F7E150119

*I certify that, to the best of my knowledge, the attached package is a complete and accurate representation of the original data.*

Signature / Date:

 06/01/07

# STL

## **Classical Chemistry**

**Preparation Notes**  
**Initial Calibration**  
**Sample Raw Data**

**STL Los Angeles**  
Hexavalent Chromium by Ion Chromatography

SOP: SANA-WC-0009  
 Analytical Method: 7199  
 218.6  
 ICV 7.5  
 CCV 15  
 Calibration Check Standards (ug/L)  
 Batch(s): 7134251 7134280  
 EPA 218.6 SW 7199 SW 7199  
 Analyst: YZ  
 Reviewer/Date:

For Soil Sample Data Reduction				EPA 218.6		SW 7199		Soil	
Beaker Number	Sample Name	Wet Sample Weight (g)	Cr+6 ug/L	Average Cr+6 mg/L	Total Cr+6 mg/Kg	RPD <20% for 7199	Calibration Check % Recovery ICV/CCV		
1	ICV/LCS 7.50 ppb	#N/A	7.257445102				96.8		
2	ICB/MB 051207	#N/A		0.00363	#N/A	100.00000			
3	JWTLL	#N/A		0.00000	#N/A	#DIV/0!			
4	JWTLL	#N/A		0.00000	#N/A	#DIV/0!			
5	JWTL3	#N/A		0.00000	#N/A	#DIV/0!			
6	JWTL3	#N/A	0.607385428						
7	JWTGA	#N/A	0.629825104		#N/A	3.62746			
8	JWTGA	#N/A	0.631042479		#N/A	2.75548			
9	JWTGAX	#N/A	0.613890554		#N/A				
10	JWTGAX	#N/A	12.25304051		#N/A	1.95434			111.8
11	JWTGAS	#N/A	12.49486967		#N/A				
12	JWTGAS	#N/A	16.77377671		#N/A				
13	CCV 15.0 ppb REF.	#N/A		0.00839	#N/A	100.00000			
14	CCB <i>Ref</i>	#N/A		0.00720	#N/A	100.00000			
15	CCV 15.0 ppb	#N/A	14.40348844		#N/A				
16	CCB	#N/A	15745.64405		#N/A				
17	JW0F5	#N/A	13170.37703		#N/A	17.81204			
18	JW0F5	#N/A	17811.11859		#N/A				
19	JW0F7 REF.	#N/A	13964.13693		#N/A	24.21369			
20	JW0F7 REF.	#N/A	14370.52034		#N/A				
21	JW0F8	#N/A	13698.65304		#N/A	4.78723			
22	JW0F8	#N/A	2345.376024		#N/A				
23	JW0FH	#N/A	2379.902912		#N/A	1.46137			
24	JW0FH	#N/A	13015.06155		#N/A				
25	JW0F7	#N/A	13039.57915		#N/A	0.18820			
26	JW0F7	#N/A	15.12712159		#N/A				
27	CCV 15.0 ppb	#N/A		13.02732	#N/A				

For Soil Sample Data Reduction  
 n:\Inorganic\Wetchem\Wtshs\VA\_IC Cr+6.xls  
 ver=04/04/2003

Saved as: IC\_Cr+6051207.xls  
 Saved on: 5/18/07

STL Los Angeles  
Hexavalent Chromium by Ion Chromatography

SOP: SANA-WC-009

Calibration Check Standards (ug/L)

Analyst: YZ

Batch(s): 7134251

Analytical Method: 7199

ICV 7.5

Reviewer/Date:

218.6

CCV 15

7134280

IC File: CVI051207

For Soil Sample Data Reduction		EPA 218.6		7134251		7134280						
Date/Time Collected	Dilution Factor	Injection Number	Sample Name	Beaker Number	Sample Name	Wet Sample Weight (g)	Cr+6 ug/L	Average Cr+6 mg/L	Total Cr+6 mg/kg	Soil	RPD <20% for 7199 % Recovery ICV/CCV	Calibration Check
5/12/07 13:05	1	28	CCB	#N/A	#N/A	#N/A	2520.107059	0.00756	#N/A	#N/A	100.00000	
5/12/07 13:15	125	29	JW0FP	#N/A	#N/A	#N/A	2499.837238	2.50997	#N/A	#N/A	0.80757	
5/12/07 13:24	125	30	JW0FP	#N/A	#N/A	#N/A	22372.26583					
5/12/07 13:34	2500	31	JW0FR	#N/A	#N/A	#N/A	21892.41936	22.13234	#N/A	#N/A	2.16808	
5/12/07 13:43	2500	32	JW0FR	#N/A	#N/A	#N/A	21252.01593					
5/12/07 13:53	2500	33	JW0FV	#N/A	#N/A	#N/A	21612.75879	21.43239	#N/A	#N/A	1.68317	
5/12/07 14:02	2500	34	JW0FV	#N/A	#N/A	#N/A	21889.91452					
5/12/07 14:11	2500	35	JW0FX	#N/A	#N/A	#N/A	21580.03056	21.73497	#N/A	#N/A	1.42574	
5/12/07 14:21	2500	36	JW0FX	#N/A	#N/A	#N/A	60.82871611					
5/12/07 14:30	5	37	JW0F0	#N/A	#N/A	#N/A	61.25943019	0.06104	#N/A	#N/A	0.70558	
5/12/07 14:40	5	38	JW0F0	#N/A	#N/A	#N/A	15.20946003					101.4
5/12/07 14:49	1	39	CCV 15.0 ppb	#N/A	#N/A	#N/A	63.18853636	0.00760	#N/A	#N/A	100.00000	
5/12/07 14:59	1	40	CCB	#N/A	#N/A	#N/A	65.06226672	0.06413	#N/A	#N/A	2.92198	
5/12/07 15:08	5	41	JW0F2	#N/A	#N/A	#N/A	60.50432718					
5/12/07 15:18	5	42	JW0F2	#N/A	#N/A	#N/A	60.4893474	0.06050	#N/A	#N/A	0.00823	
5/12/07 15:27	5	43	JW0F4	#N/A	#N/A	#N/A	1.387417268					
5/12/07 15:37	5	44	JW0F4	#N/A	#N/A	#N/A	1.416817444	0.00140	#N/A	#N/A	2.09684	
5/12/07 15:46	1	45	JW0GA	#N/A	#N/A	#N/A	2519.513373	2.51796	#N/A	#N/A	0.12377	
5/12/07 15:56	1	46	JW0GA	#N/A	#N/A	#N/A	4405.6301					
5/12/07 16:05	125	47	JW0FPX	#N/A	#N/A	#N/A	4231.585243	4.31861	#N/A	#N/A	4.03012	
5/12/07 16:14	125	48	JW0FPX	#N/A	#N/A	#N/A	15.42912979					102.9
5/12/07 16:24	200	49	JW0FPS	#N/A	#N/A	#N/A						
5/12/07 16:33	200	50	JW0FPS	#N/A	#N/A	#N/A						
5/12/07 16:43	1	51	CCV 15.0 ppb	#N/A	#N/A	#N/A						
5/12/07 16:52	1	52	CCB	#N/A	#N/A	#N/A	0.00771		#N/A	#N/A	100.00000	
5/12/07 17:02	5	53	JW0Q97	#N/A	#N/A	#N/A	0.00000		#N/A	#N/A		
5/12/07 17:11	5	54	JW0Q97	#N/A	#N/A	#N/A						

OrganiswetchernWikistsisV\_IC\_Cr+6.xls  
Saved as: IC\_Cr+6051207.xls  
Saved on: 5/18/07

STL Los Angeles  
Hexavalent Chromium by Ion Chromatography

SOP: SANA-WC-0009

Calibration Check Standards (ug/L)

Analyst: YZ

ICV 7.5

Reviewer/Date:

CCV 15

218.6

Batch(s):

IC File: CrVI051207

EPA 218.6	SW 7199	SW 7199	Soil
Cr+6 ug/L	Average Cr+6 mg/L	Total Cr+6 mg/kg	

For Soil Sample Data Reduction	Reactor Number	Sample Name	Wet Sample Weight (g)	Cr+6 ug/L	Average Cr+6 mg/L	Total Cr+6 mg/kg	RPD <20% for 7199	Calibration Check % Recovery ICV/CCV
#N/A	#N/A	#N/A	#N/A					
#N/A	#N/A	#N/A	#N/A		0.00000	#N/A	#DIV/0!	
#N/A	#N/A	#N/A	#N/A	50.16093841				
#N/A	#N/A	#N/A	#N/A	47.7135158	0.04894	#N/A	5.00115	
#N/A	#N/A	#N/A	#N/A		0.00000	#N/A	#DIV/0!	
#N/A	#N/A	#N/A	#N/A	501.6864709				
#N/A	#N/A	#N/A	#N/A	500.515831	0.50110	#N/A	0.23361	
#N/A	#N/A	#N/A	#N/A	15.0982388	0.00755	#N/A	100.00000	100.7
#N/A	#N/A	#N/A	#N/A		0.00755	#N/A		
#N/A	#N/A	#N/A	#N/A	45.10216579	0.04099	#N/A	20.08659	
#N/A	#N/A	#N/A	#N/A	36.86950825				
#N/A	#N/A	#N/A	#N/A		0.00000	#N/A	#DIV/0!	
#N/A	#N/A	#N/A	#N/A	506.15889				
#N/A	#N/A	#N/A	#N/A	508.1921782	0.50718	#N/A	0.40088	
#N/A	#N/A	#N/A	#N/A	37.5631303				
#N/A	#N/A	#N/A	#N/A	40.20367172	0.03888	#N/A	6.79092	
#N/A	#N/A	#N/A	#N/A	7.712447972	0.00386	#N/A	100.00000	100.3
#N/A	#N/A	#N/A	#N/A	15.0419837				
#N/A	#N/A	#N/A	#N/A		0.00752	#N/A	100.00000	
#N/A	#N/A	#N/A	#N/A					
#N/A	#N/A	#N/A	#N/A		0.00000	#N/A	#DIV/0!	
#N/A	#N/A	#N/A	#N/A					
#N/A	#N/A	#N/A	#N/A		0.00000	#N/A	#DIV/0!	
#N/A	#N/A	#N/A	#N/A					
#N/A	#N/A	#N/A	#N/A					
#N/A	#N/A	#N/A	#N/A					
#N/A	#N/A	#N/A	#N/A					
#N/A	#N/A	#N/A	#N/A					

Date/Time Collected	Dilution Factor	Injection Number	Sample Name
5/12/07 17:20	5	55	JWQ98
5/12/07 17:30	5	56	JWQ98
5/12/07 17:39	5	57	JWQ97 spkd 5 ppb
5/12/07 17:49	5	58	JWQ97 spkd 5 ppb
5/12/07 17:58	100	59	JWTLL
5/12/07 18:08	100	60	JWTLL
5/12/07 18:17	100	61	JWTLL spkd 5 ppb
5/12/07 18:27	100	62	JWTLL spkd 5 ppb
5/12/07 18:36	1	63	CCV 15.0 ppb
5/12/07 18:46	1	64	CCB
5/12/07 18:55	20	65	JWTLL spkd 5 ppb
5/12/07 19:04	20	66	JWTLL spkd 5 ppb
5/12/07 19:14	100	67	JWTLL3
5/12/07 19:23	100	68	JWTLL3
5/12/07 19:33	100	69	JWTLL3 spkd 5 ppb
5/12/07 19:42	100	70	JWTLL3 spkd 5 ppb
5/12/07 19:52	20	71	JWTLL3 spkd 5 ppb
5/12/07 20:01	20	72	JWTLL3 spkd 5 ppb
5/12/07 20:11	1	73	LCS 7.50 ppb
5/12/07 20:20	1	74	MB 051207
5/12/07 20:30	1	75	CCV 15.0 ppb
5/12/07 20:39	1	76	CCB

Save as: Cr+6051207.xls  
 Saved on: 5/18/07  
 n:\inorganic\wchem\WkstisV\_IC Cr+6.xls  
 ver: 01/04/2003



Run Date: 5/15/07  
Time: 9:53:56

Severn Trent Laboratories, Inc.  
WET CHEM BATCHSHEET

STL Los Angeles

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MLSC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: 2X Chromium, Hexavalent by Ion Chromatography (7199)  
 QC BATCH #: 7134251  
 PREP DATE: 5/12/07  
 COMP DATE: 5/12/07  
 USER: ZAKHRABY

DATA ENTRY:  
 INITIALS \_\_\_\_\_  
 DATE \_\_\_\_\_

Sample pH

Adj. pH

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
JWWS7-1-AA	E-7E140000-251-B	XX I 87 2X 01			INTRA-LAB BLANK
JWWS7-1-AC	E-7E140000-251-C	XX I 87 2X 01			INTRA-LAB CHECK
JWQ97-1-AA	F-7E110199-004	XX I 87 2X 01	Y-D		M5A-L
JWQ98-1-AA	F-7E110199-005	XX I 87 2X 01	Y-D		M5A-F
JWOFH-1-AA	F-7E150119-001	XX I 87 2X 01	Y-D		M11-F
JWOFP-1-AA	F-7E150119-002	XX I 87 2X 01	Y-D		M11-Z
JWOFP-1-AC	F-7E150119-002-S	XX I 87 2X 01	Y-D		M11-Z
JWOFP-1-AD	F-7E150119-002-X	XX I 87 2X 01	Y-D		M11-Z DUP
JWOFR-1-AA	F-7E150119-003	XX I 87 2X 01	Y-D		M89-L
JWOFV-1-AA	F-7E150119-004	XX I 87 2X 01	Y-D		M89-F
JWOFX-1-AA	F-7E150119-005	XX I 87 2X 01	Y-D		M89-Z
JWOF0-1-AA	F-7E150119-006	XX I 87 2X 01	Y-D		M97-L
JWOF2-1-AA	F-7E150119-007	XX I 87 2X 01	Y-D		M97-F
JWOF4-1-AA	F-7E150119-008	XX I 87 2X 01	Y-D		M97-Z
JWOF5-1-AA	F-7E150119-009	XX I 87 2X 01	Y-D		M12A-L
JWOF7-1-AA	F-7E150119-010	XX I 87 2X 01	Y-D		M12A-F
JWOF8-1-AA	F-7E150119-011	XX I 87 2X 01	Y-D		M12A-Z
JWOGA-1-AA	F-7E150119-012	XX I 87 2X 01	Y-D		EB051107-Z

7.66  
7.22  
8.08  
7.98  
7.98  
7.98  
7.21  
7.12  
7.50  
7.50  
7.56  
7.48  
7.90  
7.95  
7.86  
4.90

9.31  
9.43  
9.37  
9.40  
9.40  
9.40  
9.55  
9.50  
9.43  
9.38  
9.42  
9.55  
9.51  
9.48  
9.35

Control Limits

(90-110)  
(80-120)

Run Date: 5/14/07  
Time: 11:37:10

Severn Trent Laboratories, Inc.  
WET CHEM BATCHSHEET

STL Los Angeles

RQC050

PRODUCTION FIGURES : WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE
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METHOD: 2X Chromium, Hexavalent by Ion Chromatography (7199)  
 QC BATCH #: 7134280  
 PREP DATE: 5/12/07 7:52  
 COMP DATE: 5/12/07 7:52  
 USER: ZAKHRABY

INITIALS: \_\_\_\_\_  
 PREP \_\_\_\_\_  
 ANAL \_\_\_\_\_  
 DATA ENTRY: \_\_\_\_\_  
 INITIALS \_\_\_\_\_  
 DATE \_\_\_\_\_

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	sample ID:
JWTL1-1-A3	A-7E110312-017	XX I 87 2X 01	B		MW DBE 10B 0407
JWTL3-1-AA	A-7E110312-020	XX I 87 2X 01	B		EB5 IW3-051007
JWW70-1-AA	E-7E140000-280-B	XX I 87 2X 01			INTRA-LAB BLANK
JWW70-1-AC	E-7E140000-280-C	XX I 87 2X 01			INTRA-LAB CHECK

Control Limits

(90-110)

Application Name: MASSBAT32  
Report Name: Work Order Backlog  
Page: 1  
Run Date: Tuesday, May 15 2007 08:47:47

Days	ExpDate	DueDate	XRef	WorkOrder	Lot	Smp	Sfx	Mat	Prep	Mth	QC	SampDate	SampTime
2			CR+6DS	JWP001AD	A7E100375	022		I	87	2X	01	05/09/07	14:20
-5	2007/05/24	2007/05/24	CR+6DS	JWP0X1AD	A7E100375	021		I	87	2X	01	05/09/07	15:10
-3	2007/05/28	2007/05/28	CR+6DS	JW0F01AA	F7E150119	006		I	87	2X	01	05/11/07	14:10
-3	2007/05/28	2007/05/28	CR+6DS	JW0F21AA	F7E150119	007		I	87	2X	01	05/11/07	14:15
-3	2007/05/28	2007/05/28	CR+6DS	JW0F41AA	F7E150119	008		I	87	2X	01	05/11/07	14:20
-3	2007/05/28	2007/05/28	CR+6DS	JW0F51AA	F7E150119	009		I	87	2X	01	05/11/07	12:35
-3	2007/05/28	2007/05/28	CR+6DS	JW0F71AA	F7E150119	010		I	87	2X	01	05/11/07	13:00
-3	2007/05/28	2007/05/28	CR+6DS	JW0F81AA	F7E150119	011		I	87	2X	01	05/11/07	12:50
-3	2007/05/28	2007/05/28	CR+6DS	JW0FH1AA	F7E150119	001		I	87	2X	01	05/11/07	13:25
-3	2007/05/28	2007/05/28	CR+6DS	JW0FP1AA	F7E150119	002		I	87	2X	01	05/11/07	13:20
-3	2007/05/28	2007/05/28	CR+6DS	JW0FR1AA	F7E150119	003		I	87	2X	01	05/11/07	13:35
-3	2007/05/28	2007/05/28	CR+6DS	JW0FX1AA	F7E150119	004		I	87	2X	01	05/11/07	13:40
-3	2007/05/28	2007/05/28	CR+6DS	JW0GA1AA	F7E150119	005		I	87	2X	01	05/11/07	13:45
0	2007/05/24	2007/05/24	CR+6DS	JWX401AK	E7E140192	012		I	87	2X	01	05/14/07	11:25
0	2007/05/24	2007/05/24	CR+6DS	JWX421AK	E7E140192	003		I	87	2X	01	05/14/07	14:45
0	2007/05/24	2007/05/24	CR+6DS	JWX431AK	E7E140192	005		I	87	2X	01	05/14/07	14:45
0	2007/05/24	2007/05/24	CR+6DS	JWX431AK	E7E140192	006		I	87	2X	01	05/14/07	16:30

Schedule File: C:\PeakNet\schedule\Cr VI Schedule\crvi 051207.SCH

Line	Sample	Sample Type	Level	Method	Data File	Volume	Dilution	Comment
1	ICV/LCS 7.50 ppb	Sample		crvi 050107a.met	crvi051207_001.dxd	1		
2	ICB/MB 051207	Sample		crvi 050107a.met	crvi051207_002.dxd	1		
3	JWTL	Sample		crvi 050107a.met	crvi051207_003.dxd	20		
4	JWTL	Sample		crvi 050107a.met	crvi051207_004.dxd	20		
5	JWTL3	Sample		crvi 050107a.met	crvi051207_005.dxd	20		
6	JWTL3	Sample		crvi 050107a.met	crvi051207_006.dxd	20		
7	JWGA	Sample		crvi 050107a.met	crvi051207_007.dxd	1		
8	JWGA	Sample		crvi 050107a.met	crvi051207_008.dxd	1		
9	JWGA	Sample		crvi 050107a.met	crvi051207_009.dxd	1		
10	JWGA	Sample		crvi 050107a.met	crvi051207_010.dxd	1		
11	JWGA	Sample		crvi 050107a.met	crvi051207_011.dxd	1		
12	JWGA	Sample		crvi 050107a.met	crvi051207_012.dxd	1		
13	CCV 15.0 ppb REF.	Sample		crvi 050107a.met	crvi051207_013.dxd	1		
14	CCB	Sample		crvi 050107a.met	crvi051207_014.dxd	1		
15	CCB	Sample		crvi 050107a.met	crvi051207_015.dxd	1		
16	CCB	Sample		crvi 050107a.met	crvi051207_016.dxd	1		
17	JW0F5	Sample		crvi 050107a.met	crvi051207_017.dxd	2500		
18	JW0F5	Sample		crvi 050107a.met	crvi051207_018.dxd	2500		
19	JW0F7 REF.	Sample		crvi 050107a.met	crvi051207_019.dxd	2500		
20	JW0F7 REF.	Sample		crvi 050107a.met	crvi051207_020.dxd	2500		
21	JW0F8	Sample		crvi 050107a.met	crvi051207_021.dxd	2500		
22	JW0F8	Sample		crvi 050107a.met	crvi051207_022.dxd	2500		
23	JW0FH	Sample		crvi 050107a.met	crvi051207_023.dxd	125		
24	JW0FH	Sample		crvi 050107a.met	crvi051207_024.dxd	125		
25	JW0F7	Sample		crvi 050107a.met	crvi051207_025.dxd	2500		
26	JW0F7	Sample		crvi 050107a.met	crvi051207_026.dxd	1		
27	CCV 15.0 ppb	Sample		crvi 050107a.met	crvi051207_027.dxd	1		
28	CCB	Sample		crvi 050107a.met	crvi051207_028.dxd	1		
29	JW0FP	Sample		crvi 050107a.met	crvi051207_029.dxd	125		
30	JW0FP	Sample		crvi 050107a.met	crvi051207_030.dxd	125		
31	JW0FR	Sample		crvi 050107a.met	crvi051207_031.dxd	2500		
32	JW0FR	Sample		crvi 050107a.met	crvi051207_032.dxd	2500		
33	JW0FV	Sample		crvi 050107a.met	crvi051207_033.dxd	2500		
34	JW0FV	Sample		crvi 050107a.met	crvi051207_034.dxd	2500		
35	JW0FX	Sample		crvi 050107a.met	crvi051207_035.dxd	2500		
36	JW0FX	Sample		crvi 050107a.met	crvi051207_036.dxd	2500		
37	JW0F0	Sample		crvi 050107a.met	crvi051207_037.dxd	5		
38	JW0F0	Sample		crvi 050107a.met	crvi051207_038.dxd	5		
39	CCV 15.0 ppb	Sample		crvi 050107a.met	crvi051207_039.dxd	1		
40	CCB	Sample		crvi 050107a.met	crvi051207_040.dxd	1		
41	JW0F2	Sample		crvi 050107a.met	crvi051207_041.dxd	1		
42	JW0F2	Sample		crvi 050107a.met	crvi051207_042.dxd	5		
43	JW0F4	Sample		crvi 050107a.met	crvi051207_043.dxd	5		
44	JW0F4	Sample		crvi 050107a.met	crvi051207_044.dxd	5		
45	JW0GA	Sample		crvi 050107a.met	crvi051207_045.dxd	1		
46	JW0GA	Sample		crvi 050107a.met	crvi051207_046.dxd	1		
47	JW0FPX	Sample		crvi 050107a.met	crvi051207_047.dxd	125		
48	JW0FPX	Sample		crvi 050107a.met	crvi051207_048.dxd	125		
49	JW0FPS	Sample		crvi 050107a.met	crvi051207_049.dxd	200		
50	JW0FPS	Sample		crvi 050107a.met	crvi051207_050.dxd	200		
51	CCV 15.0 ppb	Sample		crvi 050107a.met	crvi051207_051.dxd	1		
52	CCB	Sample		crvi 050107a.met	crvi051207_052.dxd	1		

Schedule File: C:\PeakNet\Schedule\Cr VI Schedule\crvi 051207.SCH

Line	Sample	Sample Type	Level	Method	Data File	Volume	Dilution	Comment
53	JWQ97	Sample		crvi 050107a.met	crvi051207_053.dxd	1	5	
54	JWQ97	Sample		crvi 050107a.met	crvi051207_054.dxd	1	5	
55	JWQ98	Sample		crvi 050107a.met	crvi051207_055.dxd	1	5	
56	JWQ98	Sample		crvi 050107a.met	crvi051207_056.dxd	1	5	
57	JWQ97 spkd 5 ppb	Sample		crvi 050107a.met	crvi051207_057.dxd	1	5	
58	JWQ97 spkd 5 ppb	Sample		crvi 050107a.met	crvi051207_058.dxd	1	100	
59	JWTL3	Sample		crvi 050107a.met	crvi051207_059.dxd	1	100	
60	JWTL3	Sample		crvi 050107a.met	crvi051207_060.dxd	1	100	
61	JWTL3 spkd 5 ppb	Sample		crvi 050107a.met	crvi051207_061.dxd	1	100	
62	JWTL3 spkd 5 ppb	Sample		crvi 050107a.met	crvi051207_062.dxd	1	100	
63	CCV 15.0 ppb	Sample		crvi 050107a.met	crvi051207_063.dxd	1	1	
64	CCB	Sample		crvi 050107a.met	crvi051207_064.dxd	1	1	
65	JWTL3 spkd 5 ppb	Sample		crvi 050107a.met	crvi051207_065.dxd	1	20	
66	JWTL3 spkd 5 ppb	Sample		crvi 050107a.met	crvi051207_066.dxd	1	20	
67	JWTL3	Sample		crvi 050107a.met	crvi051207_067.dxd	1	100	
68	JWTL3	Sample		crvi 050107a.met	crvi051207_068.dxd	1	100	
69	JWTL3 spkd 5 ppb	Sample		crvi 050107a.met	crvi051207_069.dxd	1	100	
70	JWTL3 spkd 5 ppb	Sample		crvi 050107a.met	crvi051207_070.dxd	1	100	
71	JWTL3 spkd 5 ppb	Sample		crvi 050107a.met	crvi051207_071.dxd	1	20	
72	JWTL3 spkd 5 ppb	Sample		crvi 050107a.met	crvi051207_072.dxd	1	20	
73	LCS 7.50 ppb	Sample		crvi 050107a.met	crvi051207_073.dxd	1	1	
74	MB 051207	Sample		crvi 050107a.met	crvi051207_074.dxd	1	1	
75	CCV 15.0 ppb	Sample		crvi 050107a.met	crvi051207_075.dxd	1	1	
76	CCB	Sample		crvi 050107a.met	crvi051207_076.dxd	1	1	

Default Method Path: C:\PEAKNET\METHOD  
 Default Data Path: C:\PEAKNET\CRVI\CRVI 2  
 Comment:

Schedule File: C:\PeakNet\schedule\Cr VI Schedule\crvi 051207.SCH

Sample	Sample Type	Level	Method	Data File	Volume	Dilution	Comment
ICV/LCS 7.50 ppb	Sample		crvi 050107a.met	crvi051207_001.dxd	1	1	
ICB/MB 051207	Sample		crvi 050107a.met	crvi051207_002.dxd	1	1	
JWTLL	Sample		crvi 050107a.met	crvi051207_003.dxd	1	20	
JWTLL	Sample		crvi 050107a.met	crvi051207_004.dxd	1	20	
JWTLL	Sample		crvi 050107a.met	crvi051207_005.dxd	1	20	
JWTL3	Sample		crvi 050107a.met	crvi051207_006.dxd	1	20	
JWTL3	Sample		crvi 050107a.met	crvi051207_007.dxd	1	1	
JWTGA	Sample		crvi 050107a.met	crvi051207_008.dxd	1	1	
JWTGA	Sample		crvi 050107a.met	crvi051207_009.dxd	1	1	
JWTGAX	Sample		crvi 050107a.met	crvi051207_010.dxd	1	1	
JWTGAX	Sample		crvi 050107a.met	crvi051207_011.dxd	1	1	
JWTGAS	Sample		crvi 050107a.met	crvi051207_012.dxd	1	1	
JWTGAS	Sample		crvi 050107a.met	crvi051207_013.dxd	1	1	
CCV 15.0 ppb REF.	Sample		crvi 050107a.met	crvi051207_014.dxd	1	1	
CCB	Sample		crvi 050107a.met	crvi051207_015.dxd	1	1	
CCV 15.0 ppb	Sample		crvi 050107a.met	crvi051207_016.dxd	1	1	
CCB	Sample		crvi 050107a.met	crvi051207_017.dxd	1	2500	
M12A-L	Sample		crvi 050107a.met	crvi051207_018.dxd	1	2500	
M12A-L	Sample		crvi 050107a.met	crvi051207_019.dxd	1	2500	
M12A-F	Sample		crvi 050107a.met	crvi051207_020.dxd	1	2500	
M12A-F	Sample		crvi 050107a.met	crvi051207_021.dxd	1	2500	
M12A-Z	Sample		crvi 050107a.met	crvi051207_022.dxd	1	2500	
M12A-Z	Sample		crvi 050107a.met	crvi051207_023.dxd	1	125	
M11-F	Sample		crvi 050107a.met	crvi051207_024.dxd	1	125	
M11-F	Sample		crvi 050107a.met	crvi051207_025.dxd	1	2500	
M12A-F	Sample		crvi 050107a.met	crvi051207_026.dxd	1	2500	
M12A-F	Sample		crvi 050107a.met	crvi051207_027.dxd	1	1	
CCV 15.0 ppb	Sample		crvi 050107a.met	crvi051207_028.dxd	1	1	
CCB	Sample		crvi 050107a.met	crvi051207_029.dxd	1	125	
M11-Z	Sample		crvi 050107a.met	crvi051207_030.dxd	1	125	
M11-Z	Sample		crvi 050107a.met	crvi051207_031.dxd	1	2500	
M89-L	Sample		crvi 050107a.met	crvi051207_032.dxd	1	2500	
M89-L	Sample		crvi 050107a.met	crvi051207_033.dxd	1	2500	
M89-F	Sample		crvi 050107a.met	crvi051207_034.dxd	1	2500	
M89-F	Sample		crvi 050107a.met	crvi051207_035.dxd	1	2500	
M89-Z	Sample		crvi 050107a.met	crvi051207_036.dxd	1	2500	
M89-Z	Sample		crvi 050107a.met	crvi051207_037.dxd	1	2500	
M97-L	Sample		crvi 050107a.met	crvi051207_038.dxd	1	5	
M97-L	Sample		crvi 050107a.met	crvi051207_039.dxd	1	5	
CCV 15.0 ppb	Sample		crvi 050107a.met	crvi051207_040.dxd	1	1	
CCB	Sample		crvi 050107a.met	crvi051207_041.dxd	1	1	
M97-F	Sample		crvi 050107a.met	crvi051207_042.dxd	1	5	
M97-F	Sample		crvi 050107a.met	crvi051207_043.dxd	1	5	
M97-Z	Sample		crvi 050107a.met	crvi051207_044.dxd	1	5	
M97-Z	Sample		crvi 050107a.met	crvi051207_045.dxd	1	5	
EB051107	Sample		crvi 050107a.met	crvi051207_046.dxd	1	1	
EB051107	Sample		crvi 050107a.met	crvi051207_047.dxd	1	1	
M11-ZX	Sample		crvi 050107a.met	crvi051207_048.dxd	1	125	
M11-ZX	Sample		crvi 050107a.met	crvi051207_049.dxd	1	125	
M11-ZS	Sample		crvi 050107a.met	crvi051207_050.dxd	1	200	
M11-ZS	Sample		crvi 050107a.met	crvi051207_051.dxd	1	200	
CCV 15.0 ppb	Sample		crvi 050107a.met	crvi051207_052.dxd	1	1	
CCB	Sample		crvi 050107a.met	crvi051207_053.dxd	1	1	

Schedule File: C:\PeakNet\Schedule\Cr VI Schedule\crvi 051207.SCH

Sample	Sample Type	Level	Method	Data File	Volume	Dilution	Comment
JWQ97	Sample		crvi 050107a.met	crvi051207_053.dxd	1	5	
JWQ97	Sample		crvi 050107a.met	crvi051207_054.dxd	1	5	
JWQ97	Sample		crvi 050107a.met	crvi051207_055.dxd	1	5	
JWQ98	Sample		crvi 050107a.met	crvi051207_056.dxd	1	5	
JWQ98	Sample		crvi 050107a.met	crvi051207_057.dxd	1	5	
JWQ97 spkd 5 ppb	Sample		crvi 050107a.met	crvi051207_058.dxd	1	5	
JWQ97 spkd 5 ppb	Sample		crvi 050107a.met	crvi051207_059.dxd	1	100	
JWTLL	Sample		crvi 050107a.met	crvi051207_060.dxd	1	100	
JWTLL	Sample		crvi 050107a.met	crvi051207_061.dxd	1	100	
JWTLL spkd 5 ppb	Sample		crvi 050107a.met	crvi051207_062.dxd	1	100	
JWTLL spkd 5 ppb	Sample		crvi 050107a.met	crvi051207_063.dxd	1	1	
CCV 15.0 ppb	Sample		crvi 050107a.met	crvi051207_064.dxd	1	1	
CCB	Sample		crvi 050107a.met	crvi051207_065.dxd	1	20	
JWTLL spkd 5 ppb	Sample		crvi 050107a.met	crvi051207_066.dxd	1	20	
JWTLL spkd 5 ppb	Sample		crvi 050107a.met	crvi051207_067.dxd	1	100	
JWTL3	Sample		crvi 050107a.met	crvi051207_068.dxd	1	100	
JWTL3	Sample		crvi 050107a.met	crvi051207_069.dxd	1	100	
JWTL3 spkd 5 ppb	Sample		crvi 050107a.met	crvi051207_070.dxd	1	100	
JWTL3 spkd 5 ppb	Sample		crvi 050107a.met	crvi051207_071.dxd	1	20	
JWTL3 spkd 5 ppb	Sample		crvi 050107a.met	crvi051207_072.dxd	1	20	
JWTL3 spkd 5 ppb	Sample		crvi 050107a.met	crvi051207_073.dxd	1	1	
LCS 7.50 ppb	Sample		crvi 050107a.met	crvi051207_074.dxd	1	1	
MB 051207	Sample		crvi 050107a.met	crvi051207_075.dxd	1	1	
CCV 15.0 ppb	Sample		crvi 050107a.met	crvi051207_076.dxd	1	1	
CCB	Sample		crvi 050107a.met		1	1	

Default Method Path: C:\PEAKNET\METHOD  
 Default Data Path: C:\PEAKNET\CRVI\CRVI 2  
 Comment:



### Hexavalent Chromium by Ion Chromatography Standards and Reagent Log

Method EPA 218.6 \_\_\_\_\_ SW 846 7199 ✓

Analyst: XDate: 5/12/07

#### Reagent Lot Numbers/Expiration Dates

Chromatographic Eluent: 2007-17-3-41 | 5/11/08  
 Post-column Reagent: 2007-17-4-43 | 5/15/07  
 Buffer Solution: 2007-17-1-1 | 1/2/08  
 Dilution Water: 2 liters of DI water adjusted to a pH of 9.0 to 9.5 with buffer solution.  
 Final pH: 9.05

#### Preparation of Intermediate Calibration and Check (ICV/LCS) Standard:

Analyte	Stock Concentration (mg/L)	Volume of Stock (mL)	Final Volume (mL)	Final Concentration (mg/L)
Calibration	1000	0.1	1000	0.1
Check	1000	0.1	1000	0.1

#### Intermediate Standard Lot Numbers/Expiration Dates

Calibration Standard: 2007-17-5-19 | 5/15/07  
 Check (ICV/LCS) Standard: 2007-17-6-19 | 5/15/07

#### Preparation of Calibration and Check Standards:

All standards and blanks are prepared with dilution water at a pH of 9.0 to 9.5.

Standard Name	Standard Conc.	Source Conc. (mg/L)	Source Solution	mL of Source	Final Volume
Cal Blank	0 mg/L	NA	Dilution water	10	10 mL
Cal Std 1	0.0002 mg/L	0.1	Intermediate Calib Stock	0.02	10 mL
Cal Std 2	0.001 mg/L	0.1	Intermediate Calib Stock	0.1	10 mL
Cal Std 3	0.010 mg/L	0.1	Intermediate Calib Stock	1.0	10 mL
Cal Std 4	0.025 mg/L	0.1	Intermediate Calib Stock	2.5	10 mL
ICV/LCS	0.0075 mg/L	0.1	Intermediate ICV Stock	0.75	10 mL
ICB/CCB/MB	0 mg/L	NA	Dilution water	10	10 mL
CCV	0.015 mg/L	0.1	Intermediate Calib Stock	1.5	10 mL
MS/MSD	0.010 mg/L	0.1	Intermediate ICV Stock	1.0	10 mL Sample

## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : ICV/LCS 7.50 ppb

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_001.DXD

Method File Name : ...crvi 050107a.met

Date Time Collected : 5/12/07 07:52:59

System Operator : YZ/W18

Calibration Date : 5/1/07 12:27:33

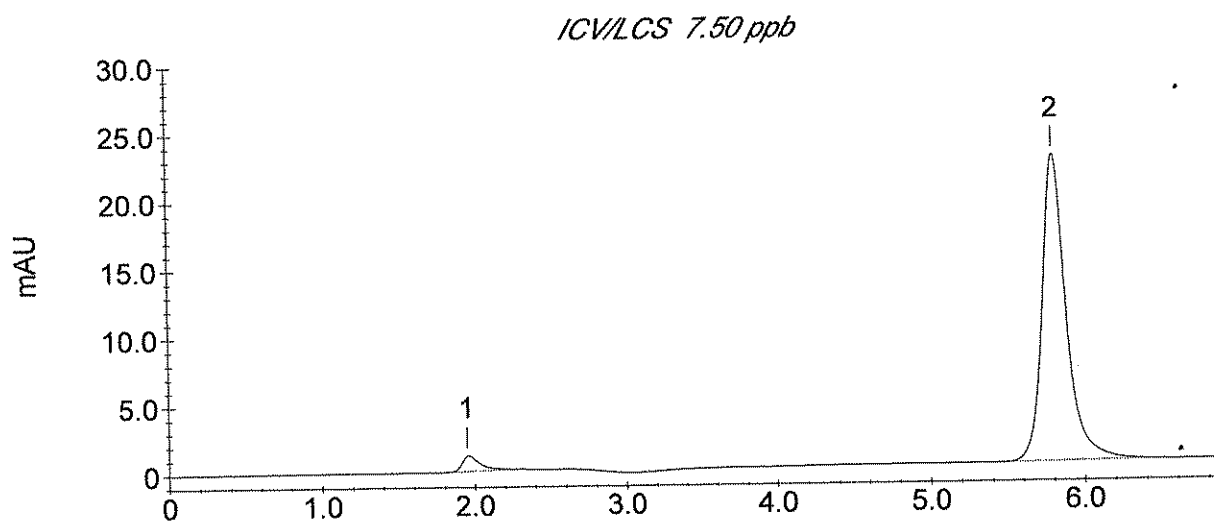
Column Type : AS7-11445, NG1-19183

Injection Number : 1

Dilution Factor : 1.00

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.95	0.00	9594	1106
2	CRVI	5.80	7.26	242196	22367



## STL Los Angeles Cr VI Sample Analysis Report

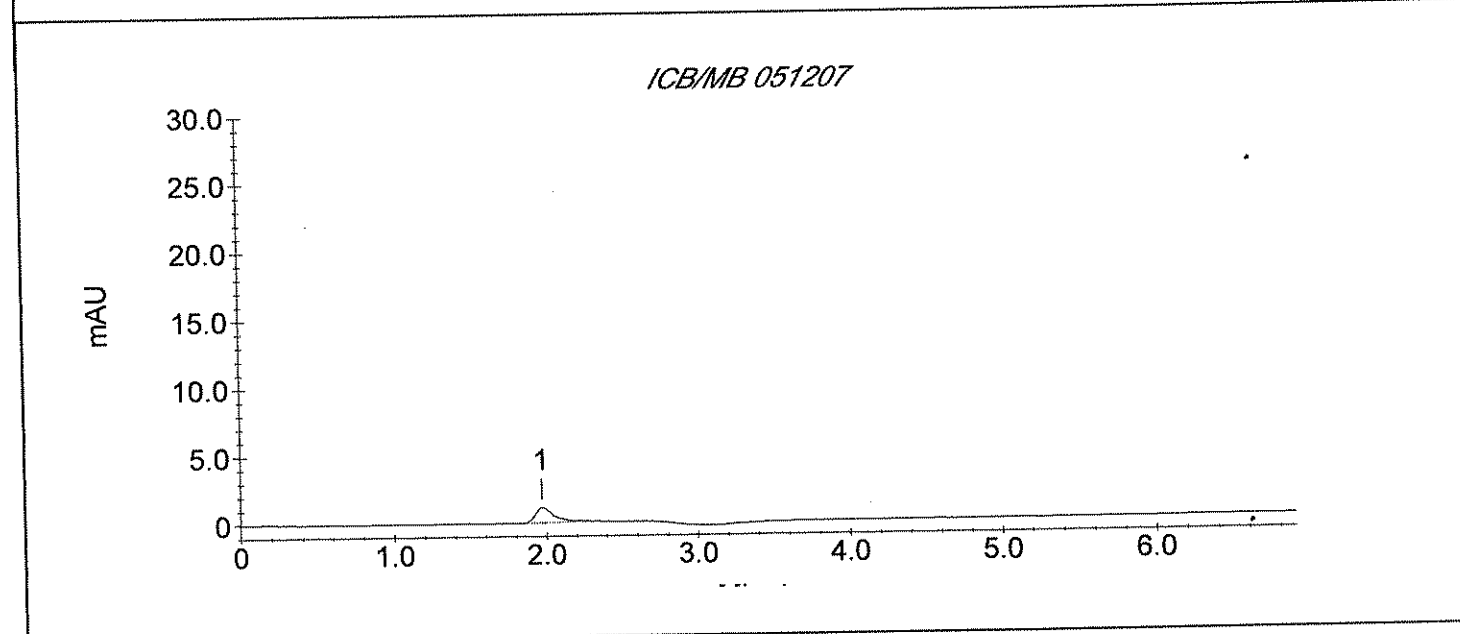
Sample Name : ICB/MB 051207

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_002.DXD

Method File Name : ...crvi 050107a.met  
 Date Time Collected : 5/12/07 08:02:26  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 2  
 Dilution Factor : 1.00

Peak Information : All Peaks				
Peak #	Component	Retention Time	Amount (PPB)	Peak Area
1		1.97	0.00	9672



### STL Los Angeles Cr VI Sample Analysis Report

Sample Name : JWTL

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_003.DXD

Method File Name : ...crvi 050107a.met

Date Time Collected : 5/12/07 08:11:53

System Operator : YZ/W18

Calibration Date : 5/1/07 12:27:33

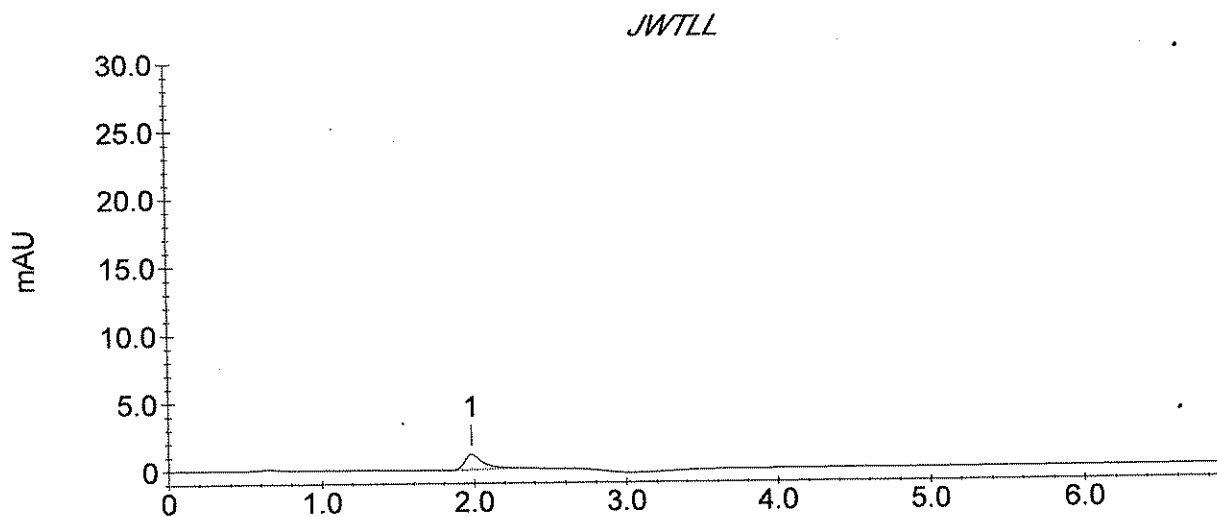
Column Type : AS7-11445, NG1-19183

Injection Number : 3

Dilution Factor : 20.00

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.98	0.00	9466	1126



## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : JWTL

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_004.DXD

Method File Name : ...crvi 050107a.met

Column Type : AS7-11445, NG1-19183

Date Time Collected : 5/12/07 08:21:17

Injection Number : 4

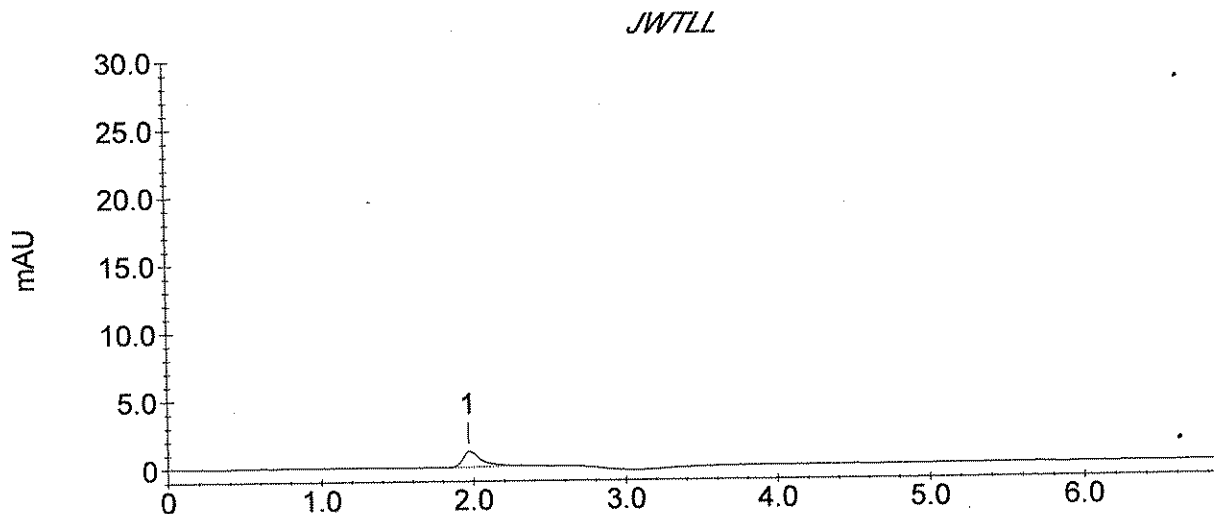
System Operator : YZ/W18

Dilution Factor : 20.00

Calibration Date : 5/1/07 12:27:33

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9796	1119



## STL Los Angeles Cr VI Sample Analysis Report

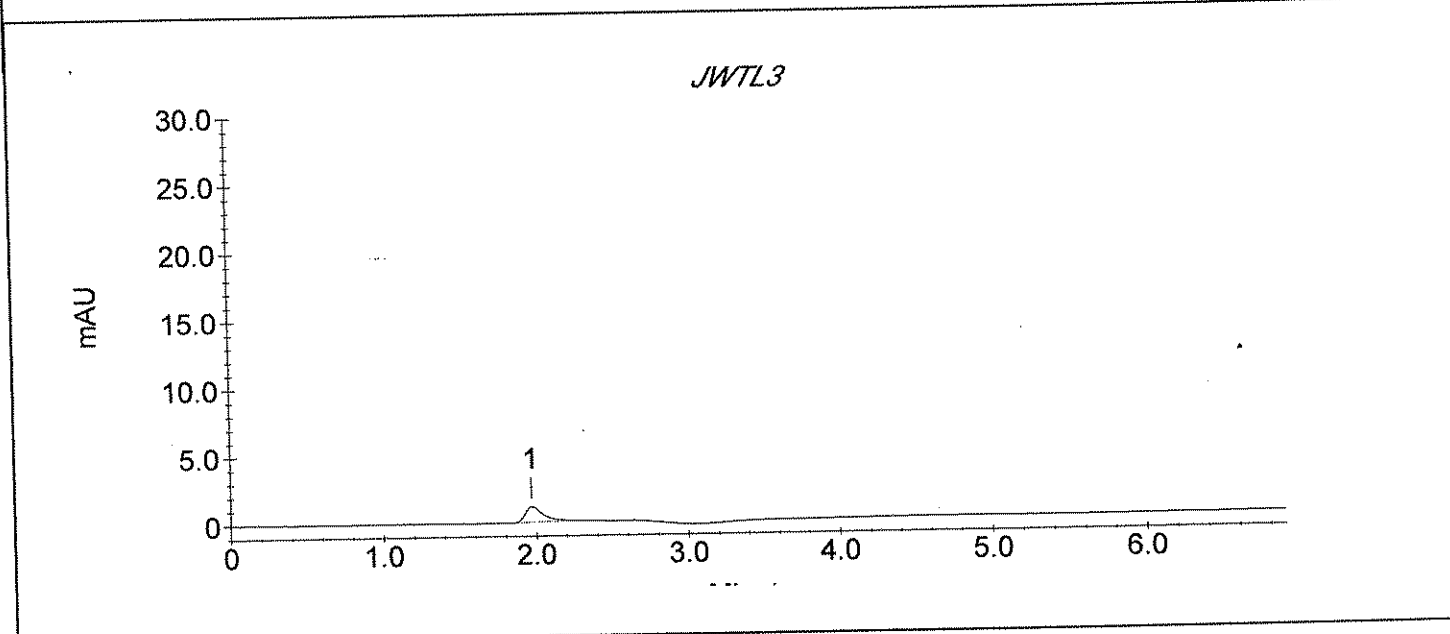
Sample Name : JWTL3

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_005.DXD

Method File Name : ...crvi 050107a.met  
 Date Time Collected : 5/12/07 08:30:45  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 5  
 Dilution Factor : 20.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9386	1125



### STL Los Angeles Cr VI Sample Analysis Report

Sample Name : JWTL3

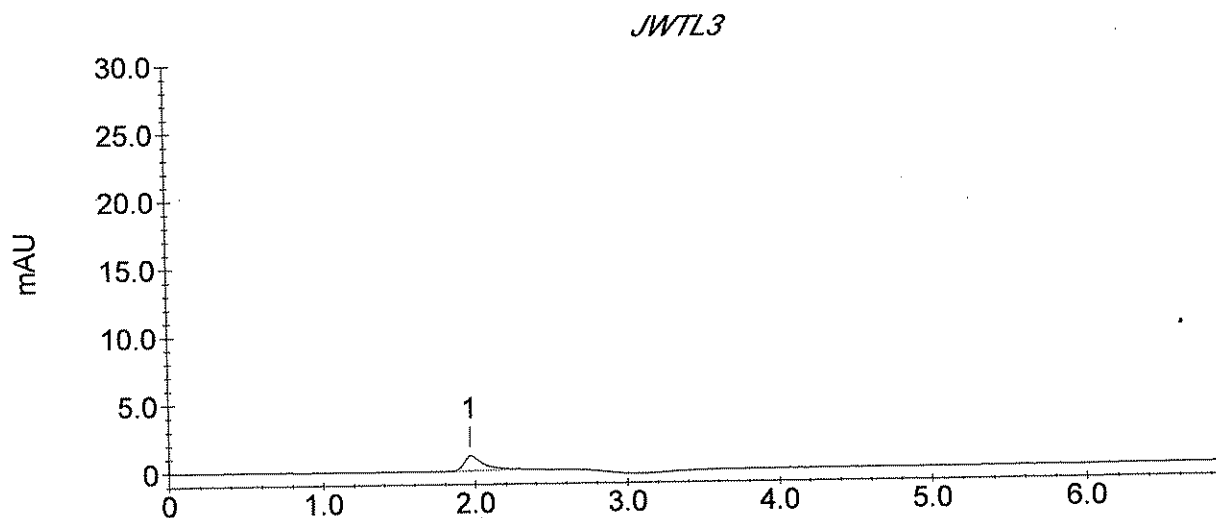
Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_006.DXD

Method File Name : ...\crvi 050107a.met  
Date Time Collected : 5/12/07 08:40:09  
System Operator : YZ/W18  
Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
Injection Number : 6  
Dilution Factor : 20.00

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9475	1083



JWTL3



## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : JWTGA

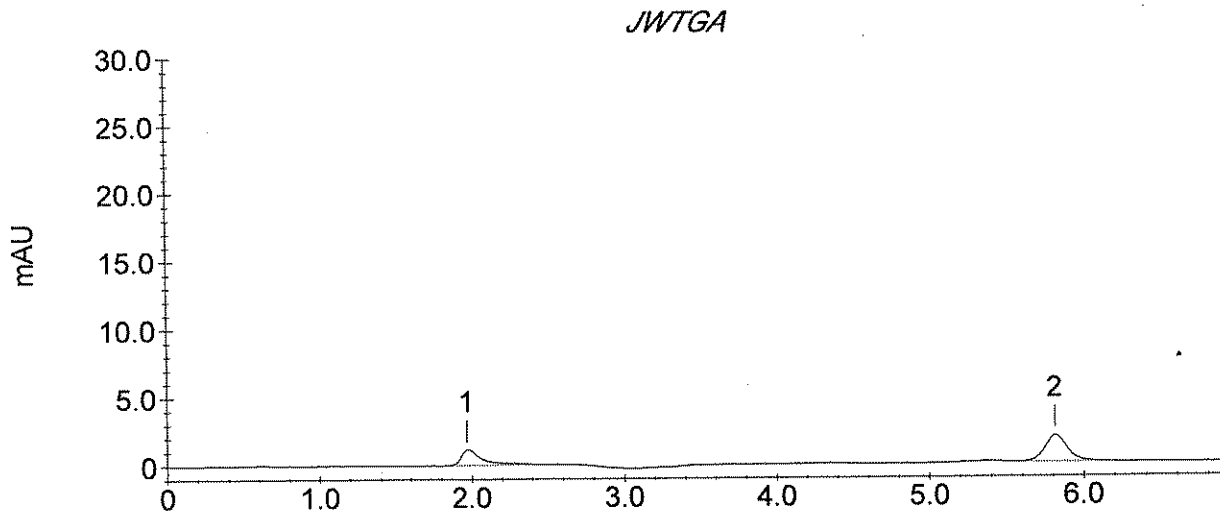
Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_007.DXD

Method File Name : ...crvi 050107a.met  
Date Time Collected : 5/12/07 08:49:36  
System Operator : YZ/W18  
Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
Injection Number : 7  
Dilution Factor : 1.00

## Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	11165	1120
2	CRVI	5.82	0.61	19850	1927





## STL Los Angeles Cr VI Sample Analysis Report

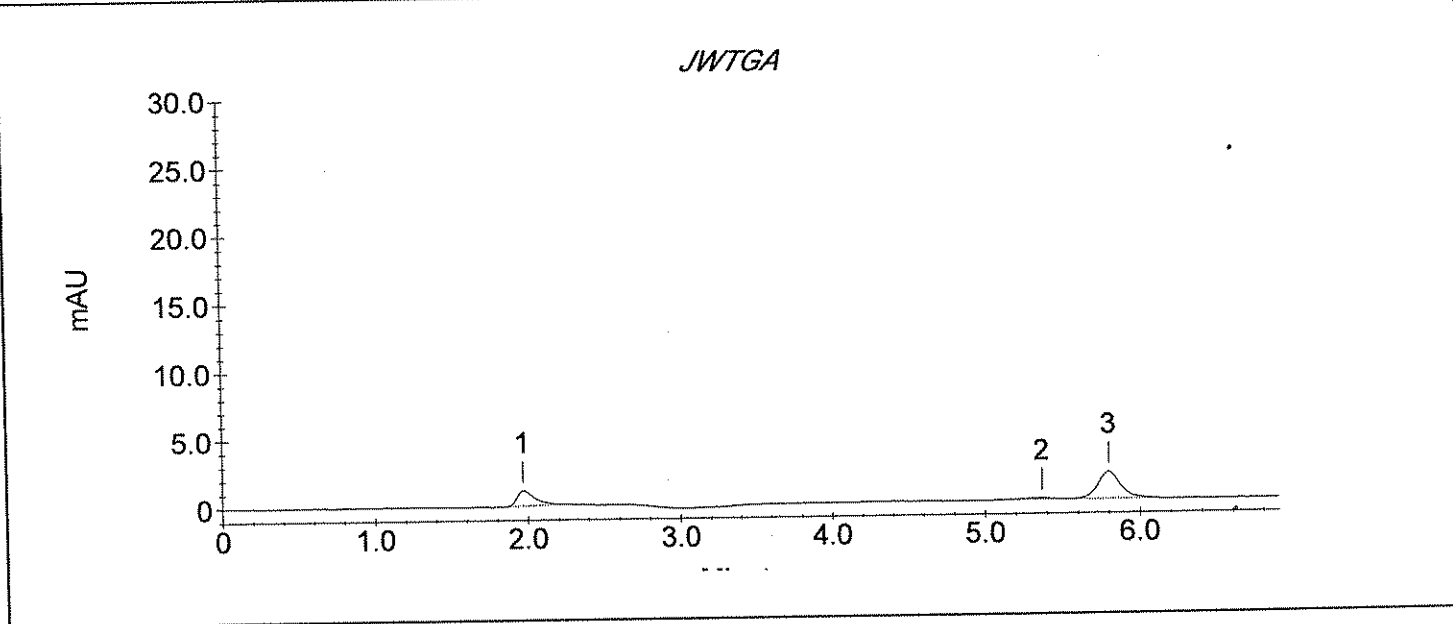
Sample Name : **JWTGA**

Data File Name : **C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_008.DXD**

Method File Name : ...crvi 050107a.met  
 Date Time Collected : 5/12/07 09:27:34  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 8  
 Dilution Factor : 1.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9092	1112
2		5.37	0.00	1799	112
3	CRVI	5.80	0.63	20600	1975



## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : JWTGAX

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_009.DXD

Method File Name : ...crvi 050107a.met

Date Time Collected : 5/12/07 09:36:59

System Operator : YZ/W18

Calibration Date : 5/1/07 12:27:33

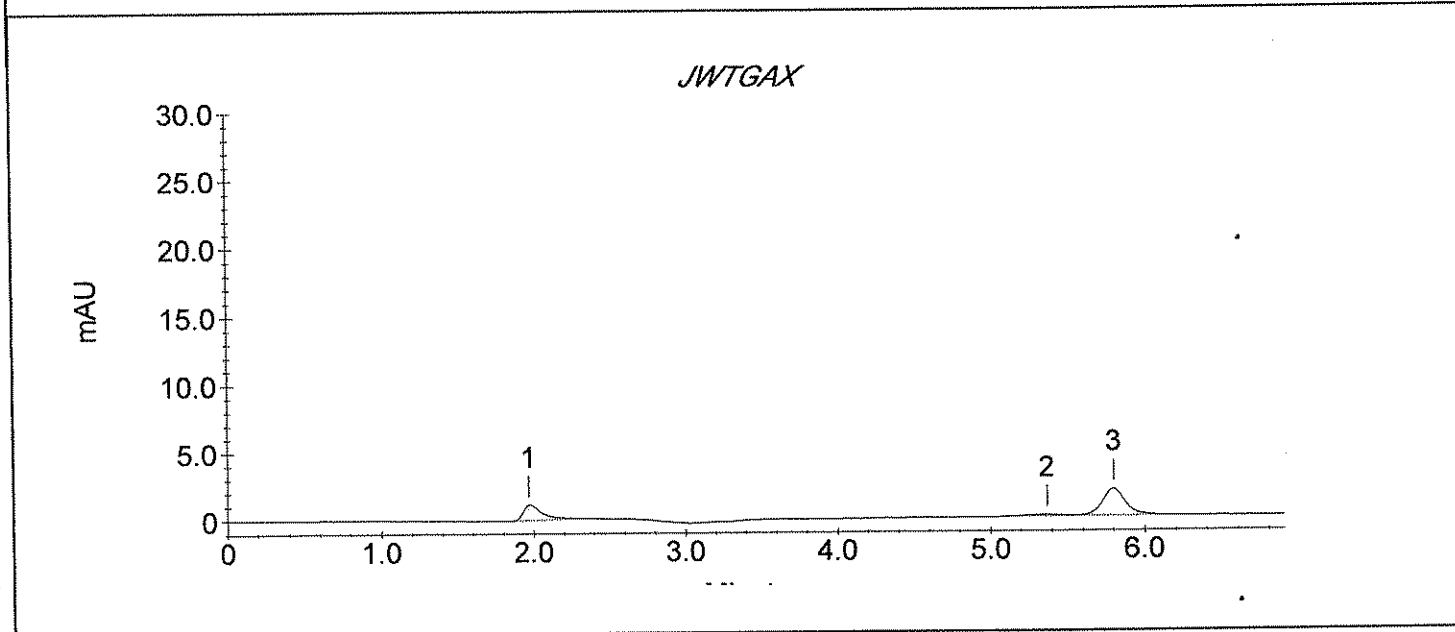
Column Type : AS7-11445, NG1-19183

Injection Number : 9

Dilution Factor : 1.00

## Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9881	1111
2		5.37	0.00	2208	125
3	CRVI	5.80	0.63	20641	1966



## STL Los Angeles Cr VI Sample Analysis Report

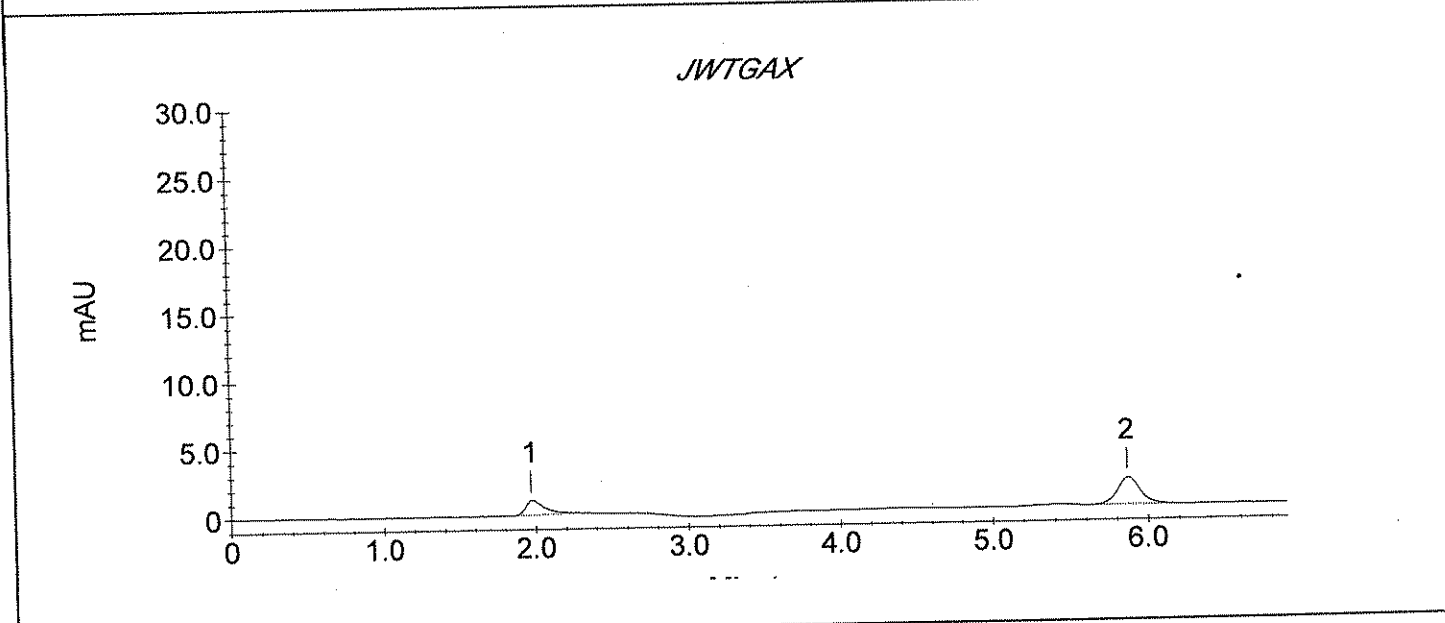
Sample Name : JWTGAX

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_010.DXD

Method File Name : ...crvi 050107a.met  
 Date Time Collected : 5/12/07 09:46:27  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 10  
 Dilution Factor : 1.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9376	1041
2	CRVI	5.87	0.61	20068	1946



## STL Los Angeles Cr VI Sample Analysis Report

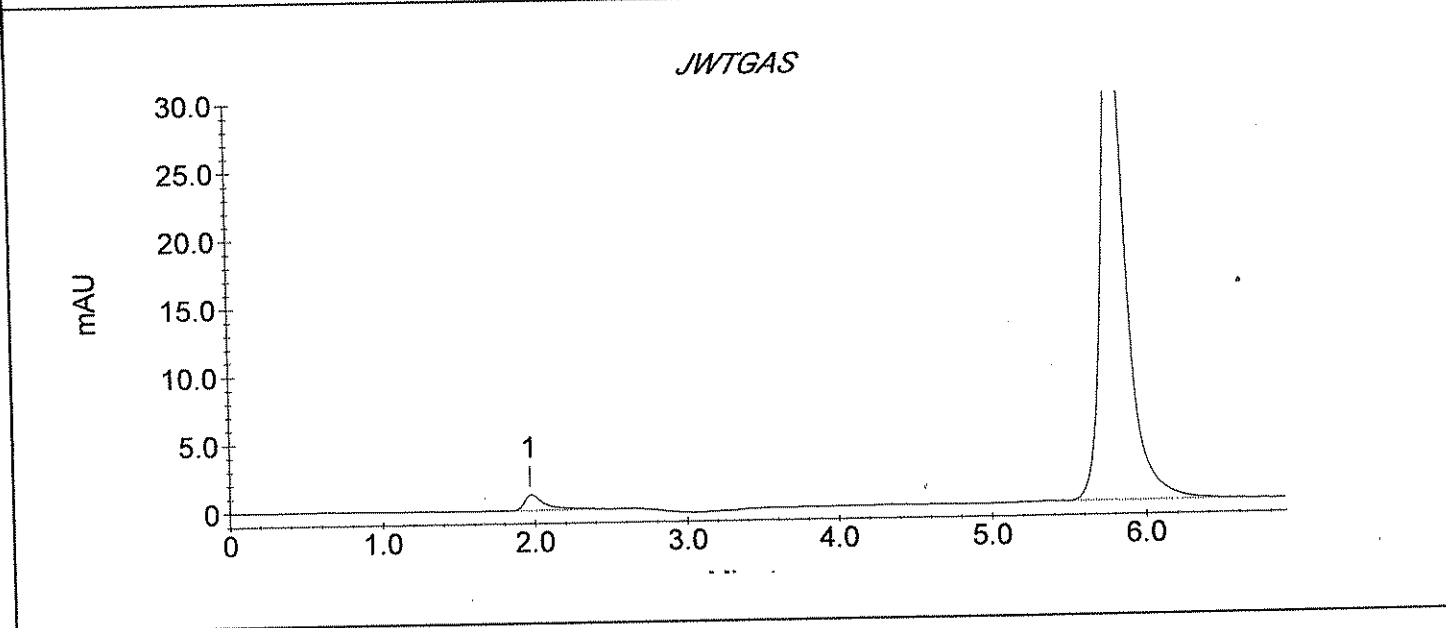
Sample Name : JWTGAS

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_011.DXD

Method File Name : ...\crvi 050107a.met  
 Date Time Collected : 5/12/07 09:55:51  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 11  
 Dilution Factor : 1.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	11011	1110
2	CRVI	5.80	12.25	409225	37878



## STL Los Angeles Cr VI Sample Analysis Report

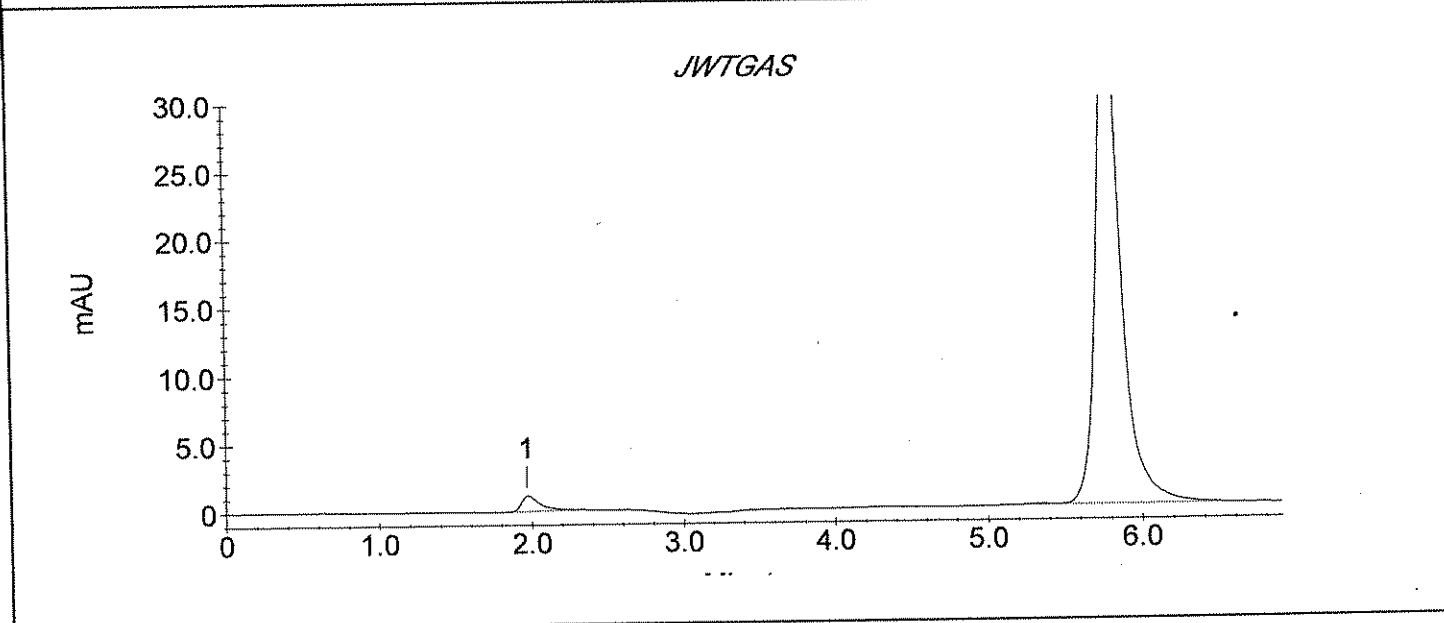
Sample Name : JWTGAS

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_012.DXD

Method File Name : ...\crvi 050107a.met  
 Date Time Collected : 5/12/07 10:05:20  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 12  
 Dilution Factor : 1.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9902	1126
2	CRVI	5.78	12.49	417310	38142



## STL Los Angeles Cr VI Sample Analysis Report

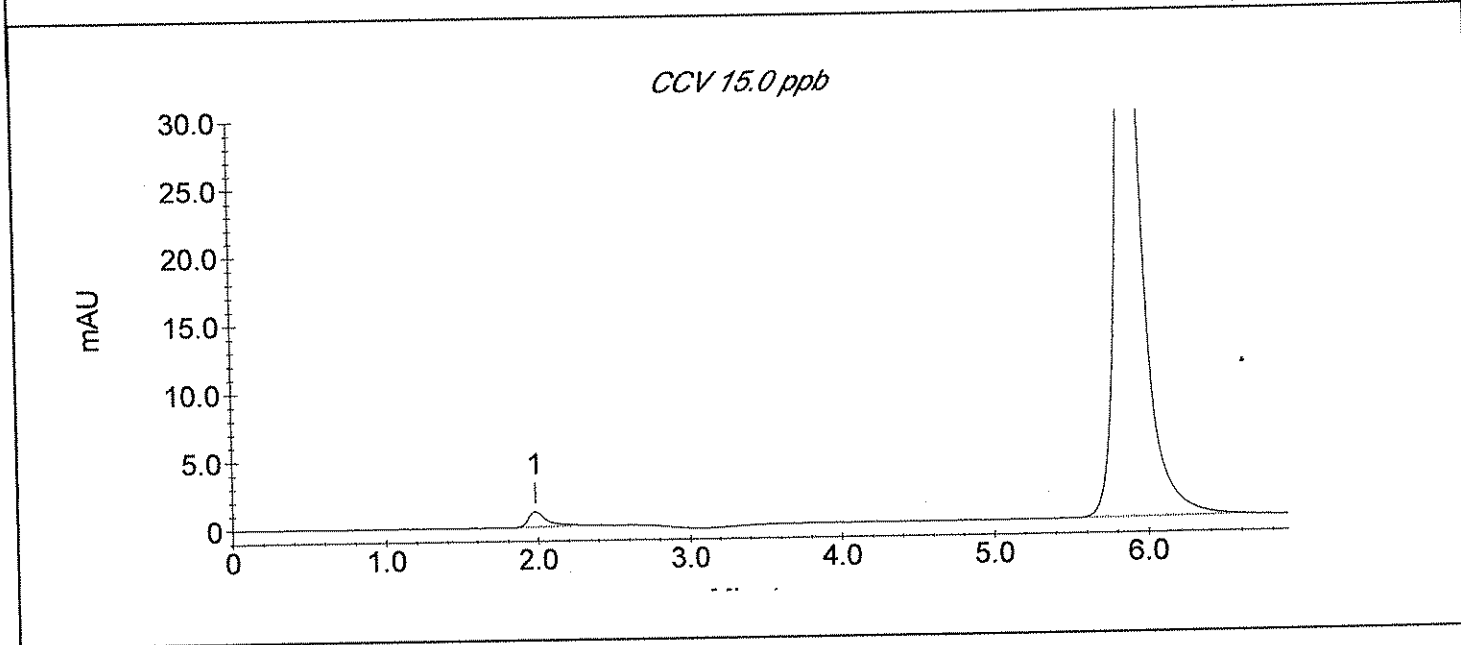
Sample Name : CCV 15.0 ppb

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_013.DXD

Method File Name : ...crvi 050107a.met  
 Date Time Collected : 5/12/07 10:14:49  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 13  
 Dilution Factor : 1.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.98	0.00	9960	1114
2	CRVI	5.88	16.77	560376	51000



# STL Los Angeles Cr VI Sample Analysis Report

Sample Name : CCB

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_014.DXD

Method File Name : ...crvi 050107a.met

Column Type : AS7-11445, NG1-19183

Date Time Collected : 5/12/07 10:24:18

Injection Number : 14

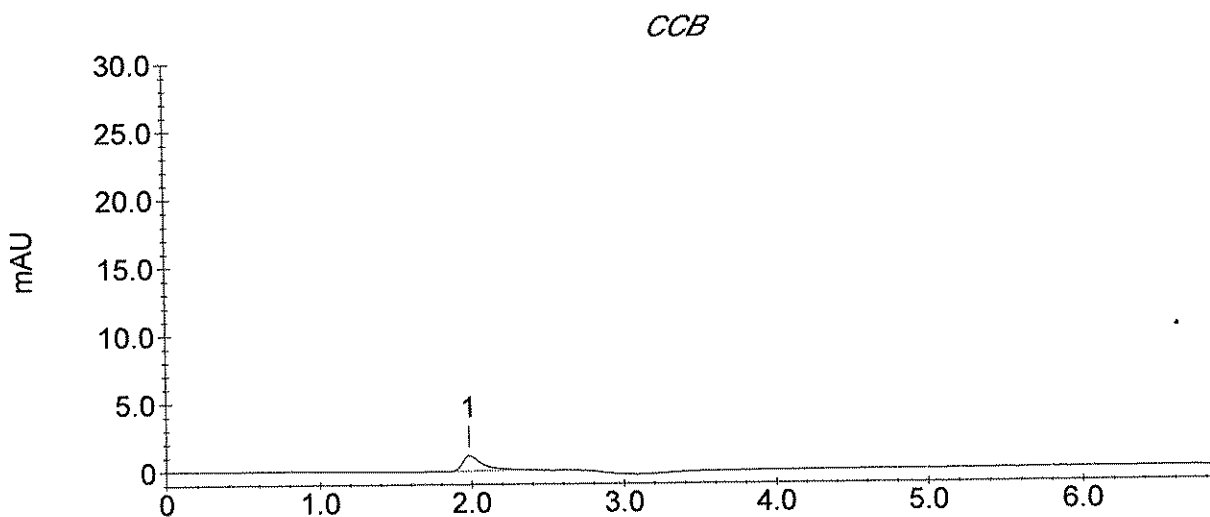
System Operator : YZ/W18

Dilution Factor : 1.00

Calibration Date : 5/1/07 12:27:33

### Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.98	0.00	10275	1138



## STL Los Angeles Cr VI Sample Analysis Report

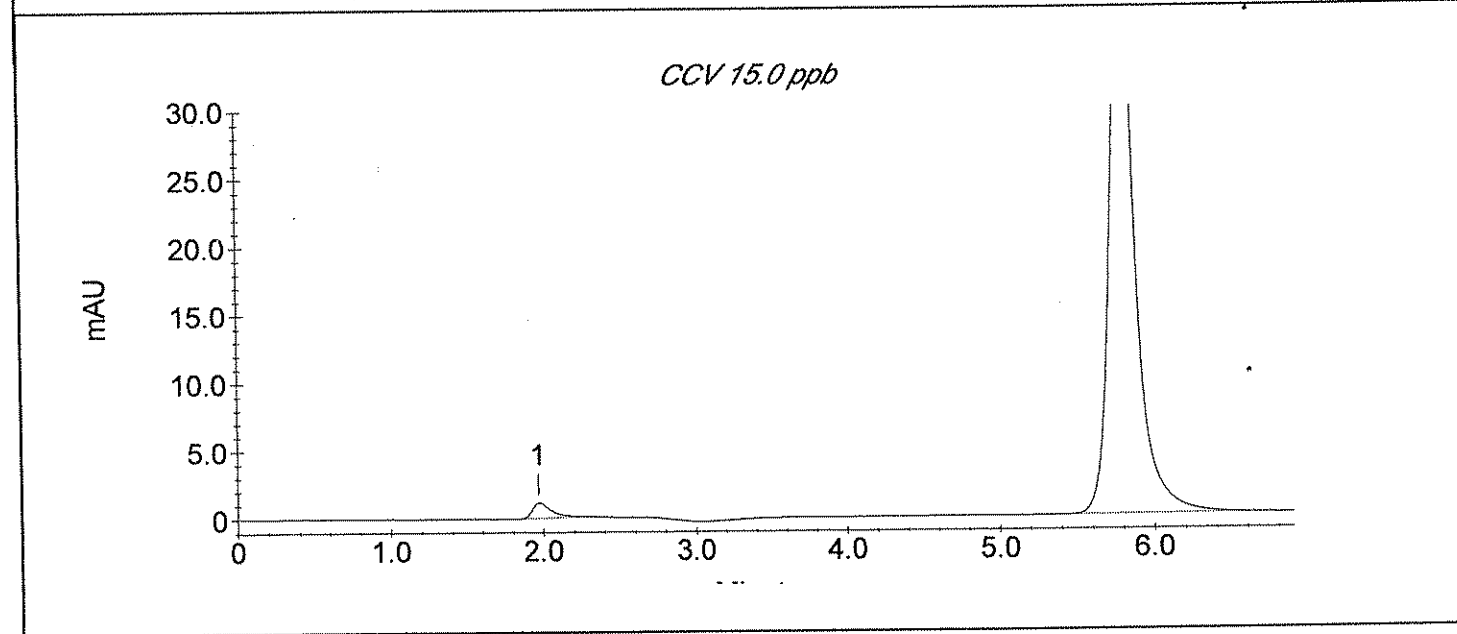
Sample Name : CCV 15.0 ppb

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_015.DXD

Method File Name : ...crvi 050107a.met  
 Date Time Collected : 5/12/07 10:42:30  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 15  
 Dilution Factor : 1.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9636	1112
2	CRVI	5.80	14.40	481125	44604





### STL Los Angeles Cr VI Sample Analysis Report

Sample Name : CCB

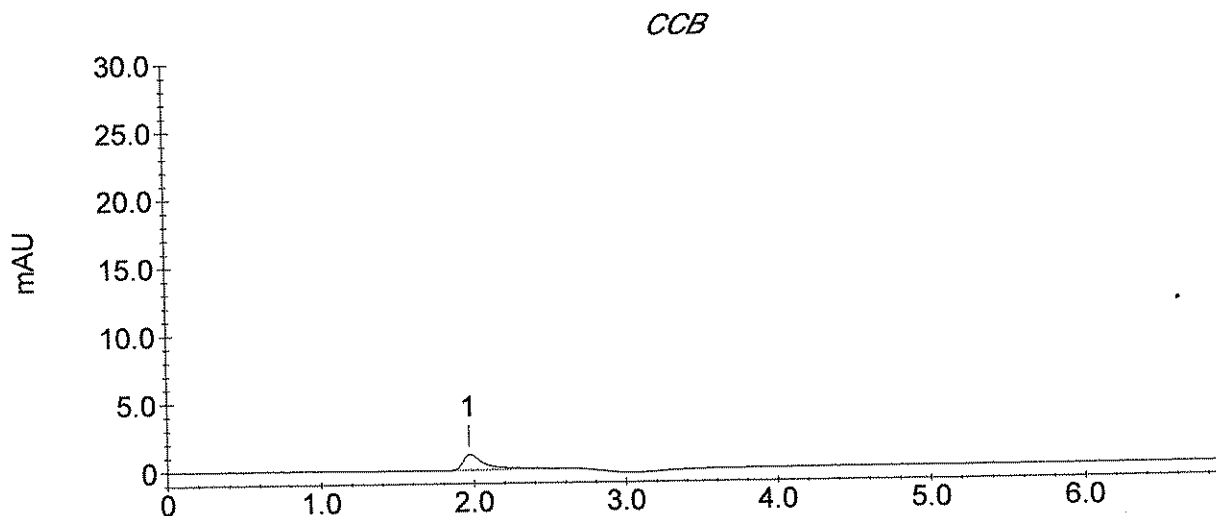
Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_016.DXD

Method File Name : ...crvi 050107a.met  
Date Time Collected : 5/12/07 10:51:53  
System Operator : YZ/W18  
Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
Injection Number : 16  
Dilution Factor : 1.00

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	11363	1134



## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : JW0F5

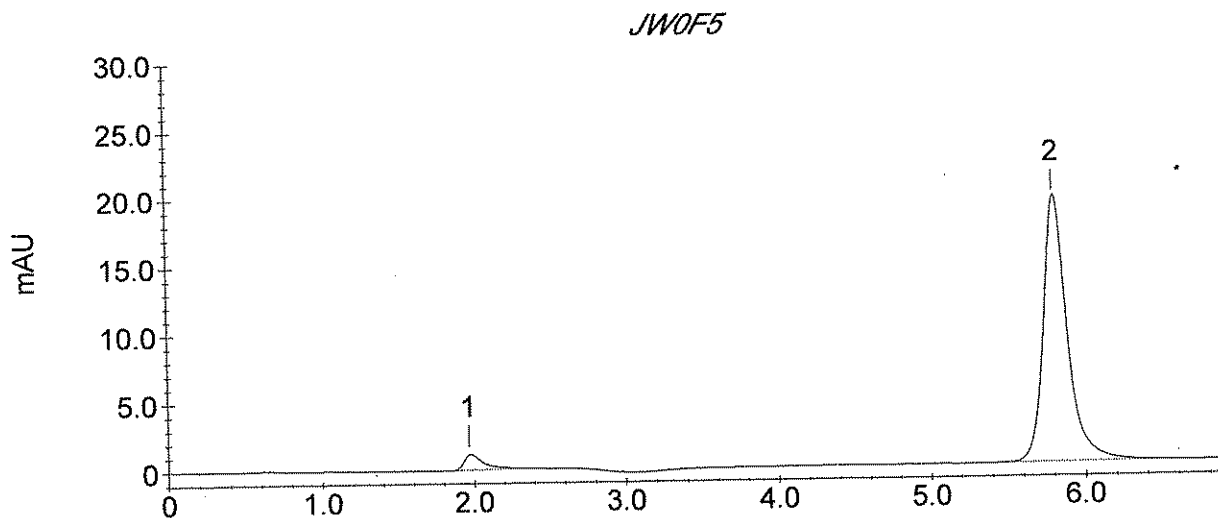
Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_017.DXD

Method File Name : ... \CRVI 050107A.met  
 Date Time Collected : 5/12/07 11:01:19  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 17  
 Dilution Factor : 2500.00

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	10235	1097
2	CRVI	5.80	15745.64	210125	19250



## STL Los Angeles Cr VI Sample Analysis Report

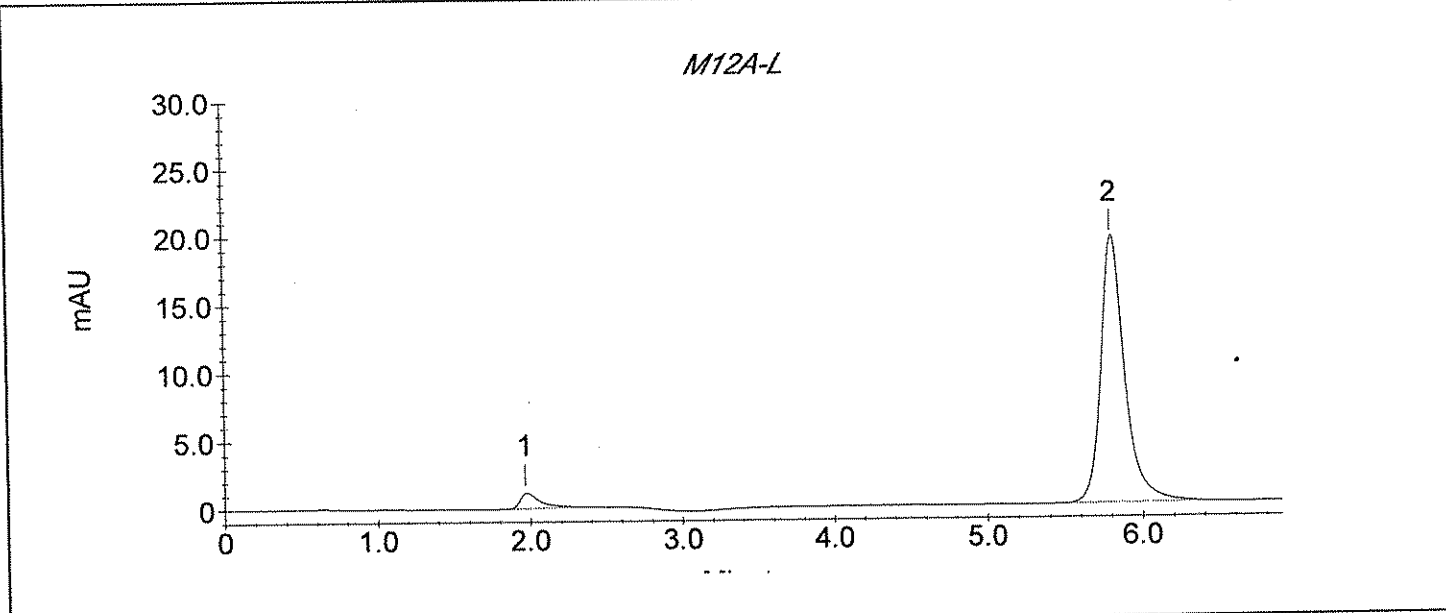
Sample Name : M12A-L

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_017.DXD

Method File Name : ...\crvi 050107a.met  
 Date Time Collected : 5/12/07 11:01:19  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 17  
 Dilution Factor : 2500.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	10235	1097
2	CRVI	5.80	15745.64	210125	19250



## STL Los Angeles Cr VI Sample Analysis Report

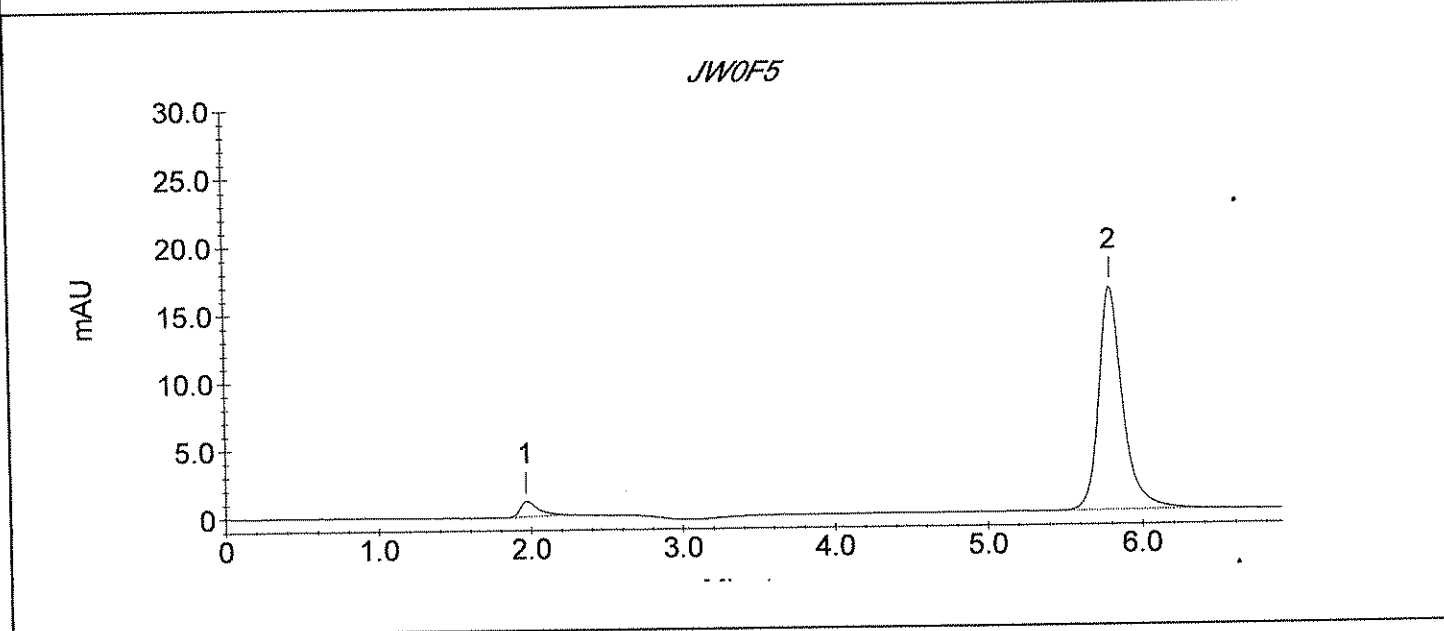
Sample Name : JW0F5

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_018.DXD

Method File Name : ...\CRVI 050107A.met  
 Date Time Collected : 5/12/07 11:10:46  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 18  
 Dilution Factor : 2500.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9301	1112
2	CRVI	5.80	13170.38	175684	16379



## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : M12A-L

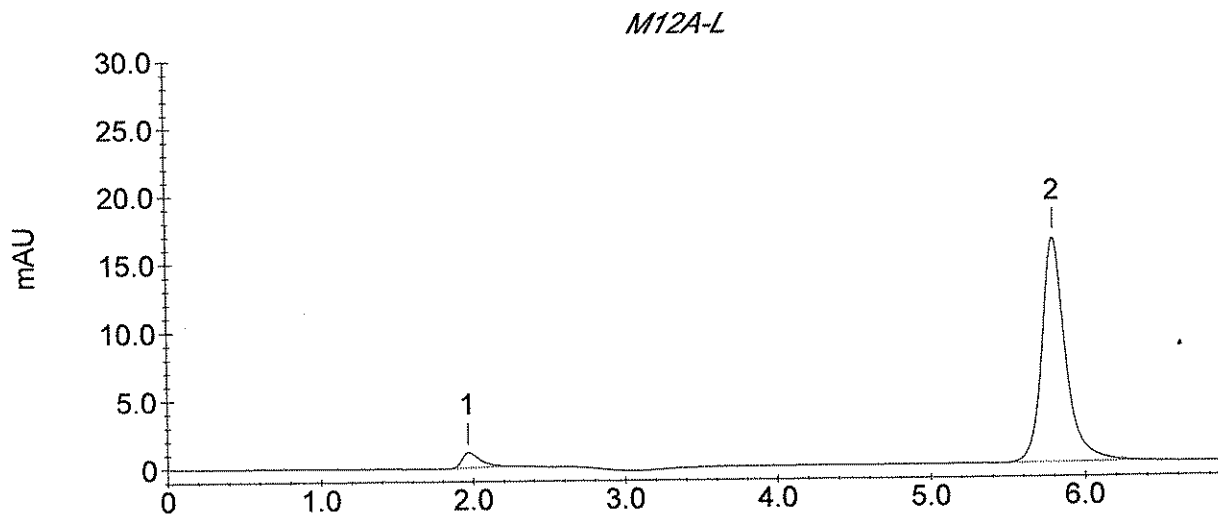
Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_018.DXD

Method File Name : ...\crvi 050107a.met  
 Date Time Collected : 5/12/07 11:10:46  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 18  
 Dilution Factor : 2500.00

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9301	1112
2	CRVI	5.80	13170.38	175684	16379



## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : JW0F7 REF.

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_019.DXD

Method File Name : ...\CRVI 050107A.met

Date Time Collected : 5/12/07 11:20:14

System Operator : YZ/W18

Calibration Date : 5/1/07 12:27:33

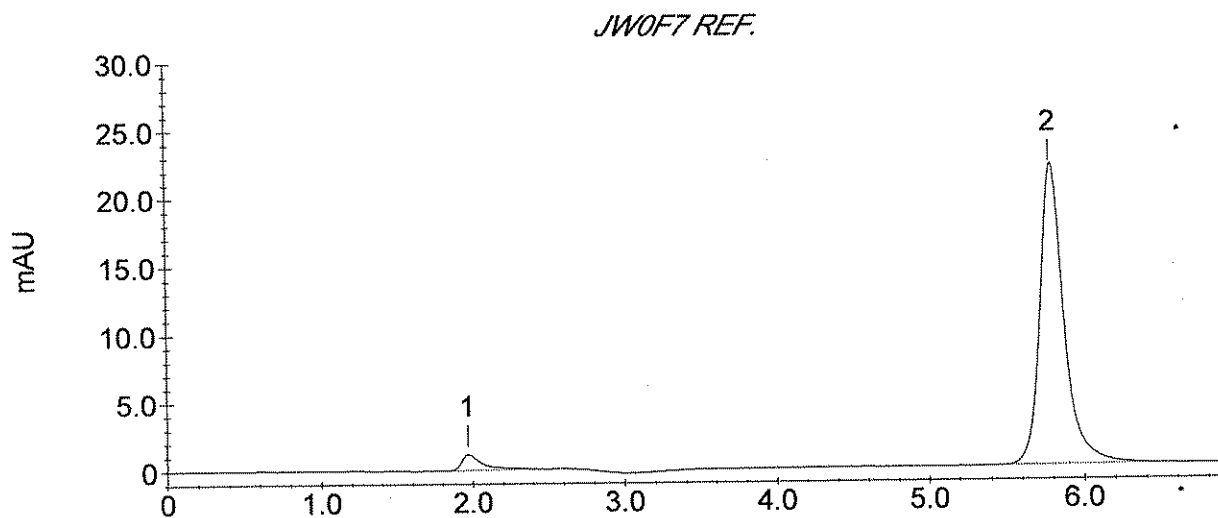
Column Type : AS7-11445, NG1-19183

Injection Number : 19

Dilution Factor : 2500.00

## Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	11535	1146
2	CRVI	5.78	17811.12	237749	21606



## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : M12A-F

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_019.DXD

Method File Name : ...crvi 050107a.met

Date Time Collected : 5/12/07 11:20:14

System Operator : YZ/W18

Calibration Date : 5/1/07 12:27:33

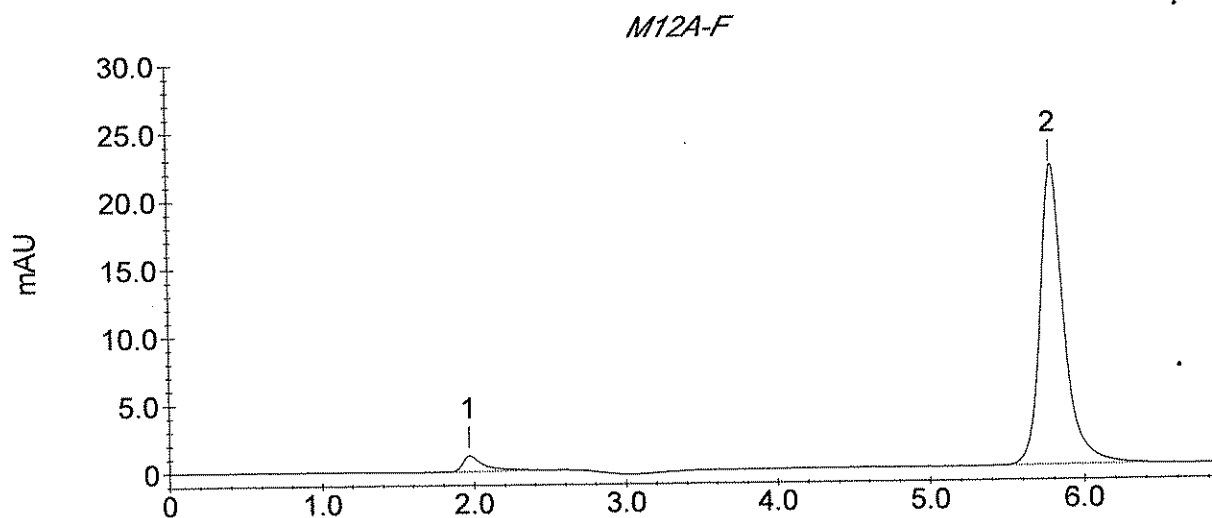
Column Type : AS7-11445, NG1-19183

Injection Number : 19

Dilution Factor : 2500.00

## Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	11535	1146
2	CRVI	5.78	17811.12	237749	21606



### STL Los Angeles Cr VI Sample Analysis Report

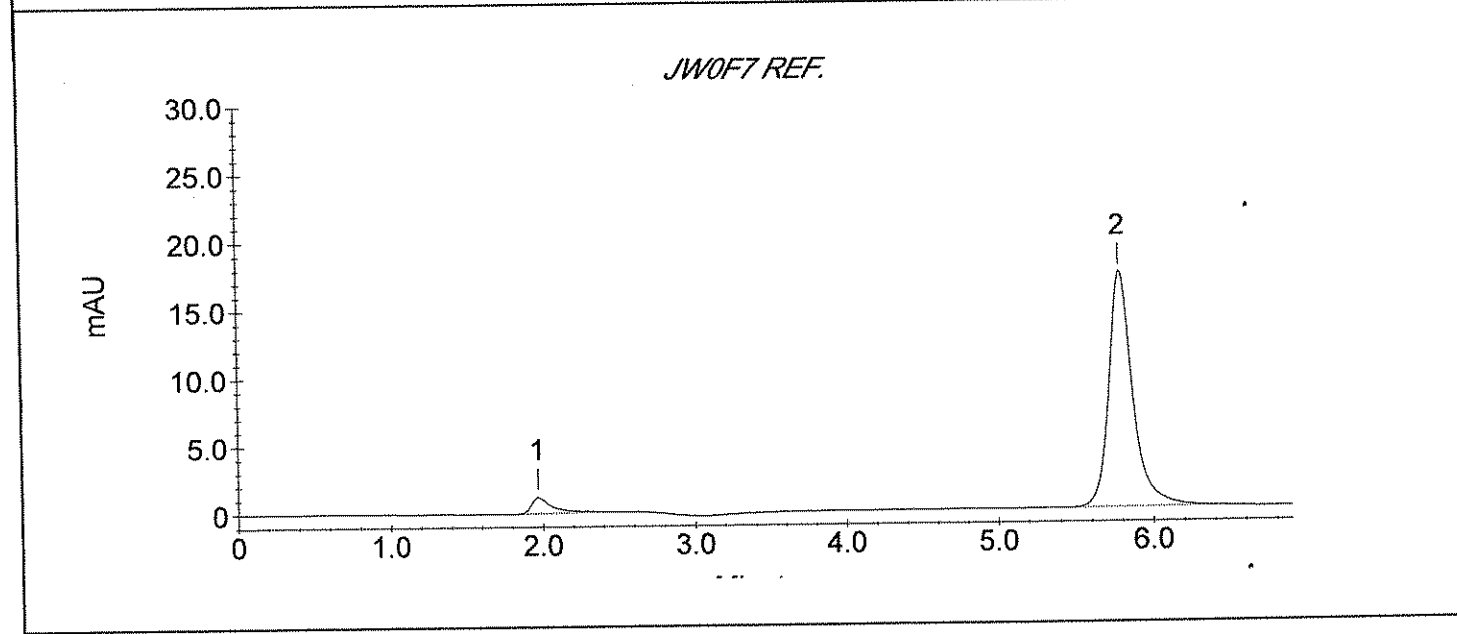
Sample Name : JW0F7 REF.

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_020.DXD

Method File Name : ...\CRVI 050107A.met  
Date Time Collected : 5/12/07 11:29:49  
System Operator : YZ/W18  
Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
Injection Number : 20  
Dilution Factor : 2500.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	11523	1149
2	CRVI	5.78	13964.14	186299	17178





## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : M12A-F

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_020.DXD

Method File Name : ...crvi 050107a.met

Date Time Collected : 5/12/07 11:29:49

System Operator : YZ/W18

Calibration Date : 5/1/07 12:27:33

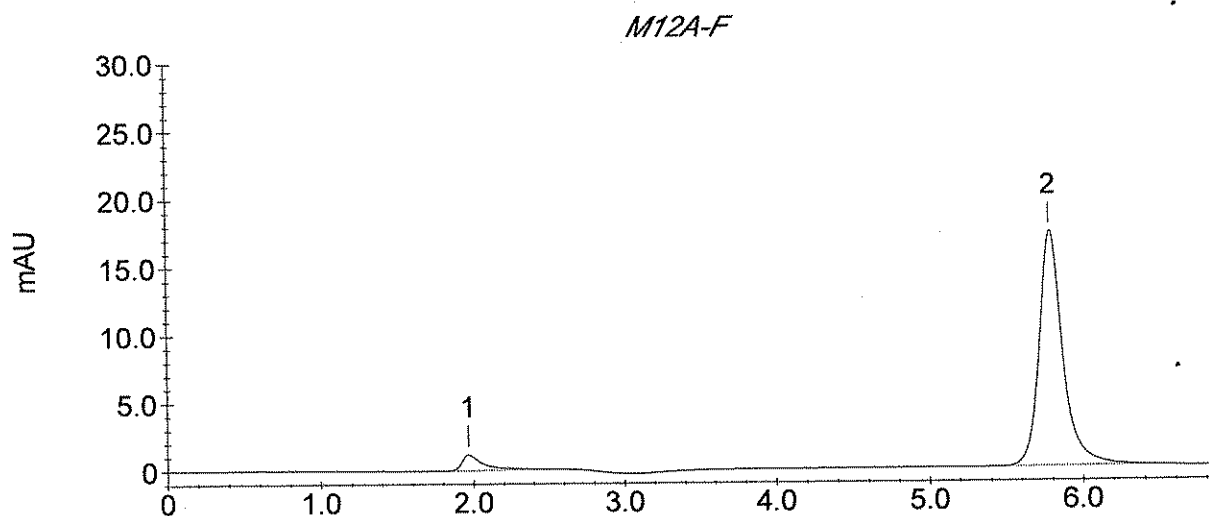
Column Type : AS7-11445, NG1-19183

Injection Number : 20

Dilution Factor : 2500.00

## Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	11523	1149
2	CRVI	5.78	13964.14	186299	17178



## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : JW0F8

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_021.DXD

Method File Name : ...\CRVI 050107A.met

Column Type : AS7-11445, NG1-19183

Date Time Collected : 5/12/07 11:39:16

Injection Number : 21

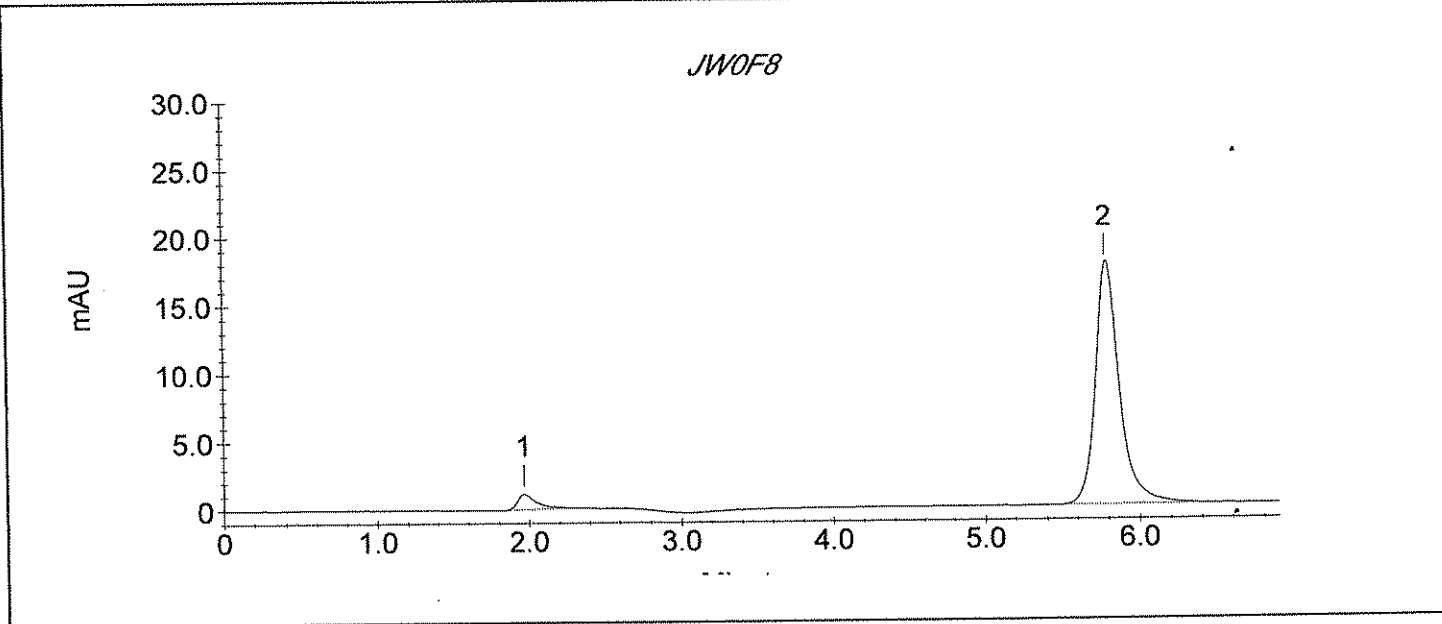
System Operator : YZ/W18

Dilution Factor : 2500.00

Calibration Date : 5/1/07 12:27:33

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9943	1124
2	CRVI	5.78	14370.52	191734	17575



## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : M12A-Z

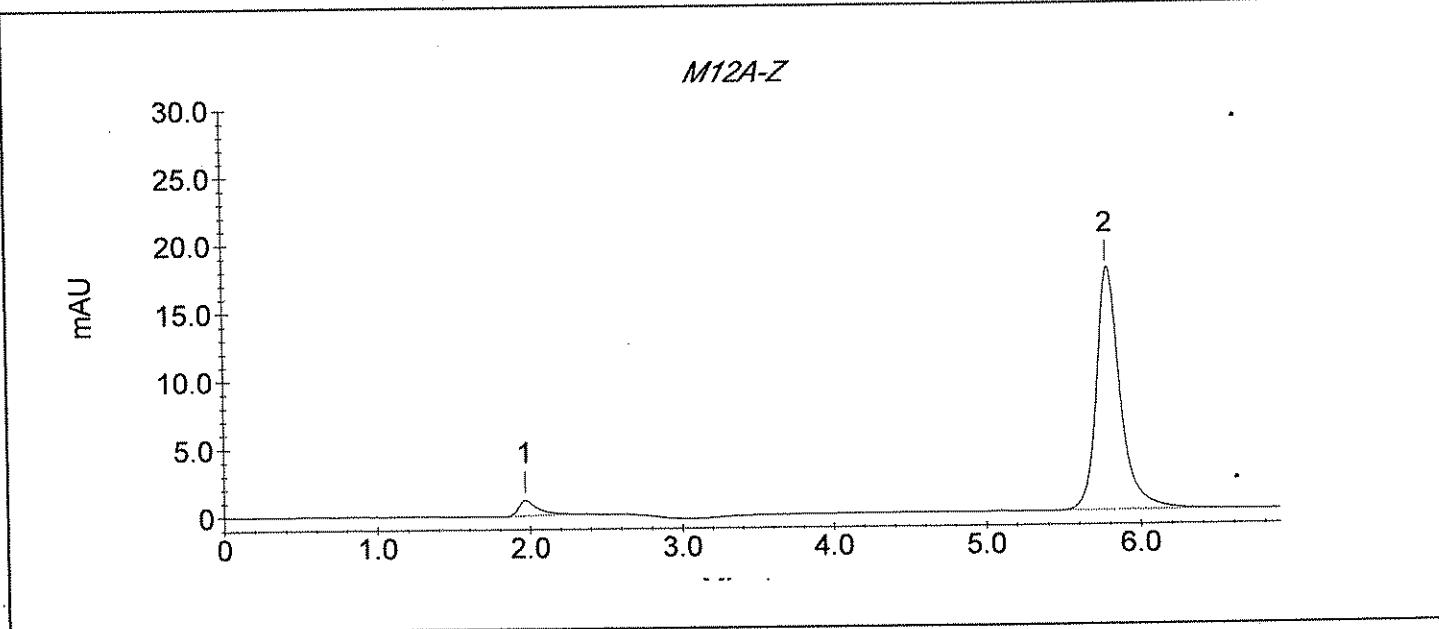
Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_021.DXD

Method File Name : ...\crvi 050107a.met  
 Date Time Collected : 5/12/07 11:39:16  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 21  
 Dilution Factor : 2500.00

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9943	1124
2	CRVI	5.78	14370.52	191734	17575



## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : JW0F8

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_022.DXD

Method File Name : ...\CRVI 050107A.met

Column Type : AS7-11445, NG1-19183

Date Time Collected : 5/12/07 11:48:44

Injection Number : 22

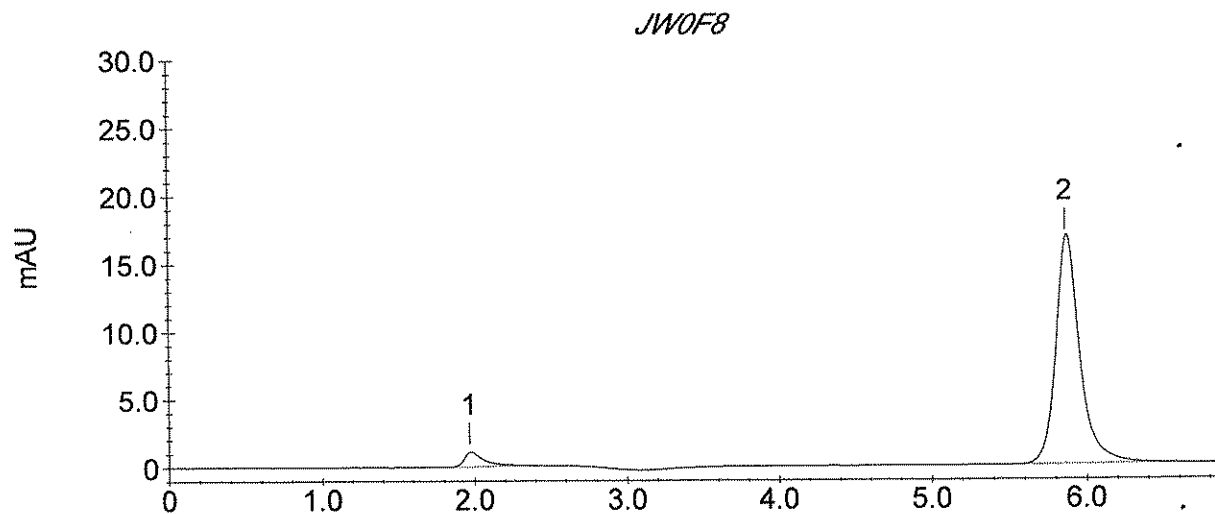
System Operator : YZ/W18

Dilution Factor : 2500.00

Calibration Date : 5/1/07 12:27:33

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	10064	1044
2	CRVI	5.87	13698.65	182749	16584



## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : M12A-Z

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_022.DXD

Method File Name : ... \crvi 050107a.met

Date Time Collected : 5/12/07 11:48:44

System Operator : YZ/W18

Calibration Date : 5/1/07 12:27:33

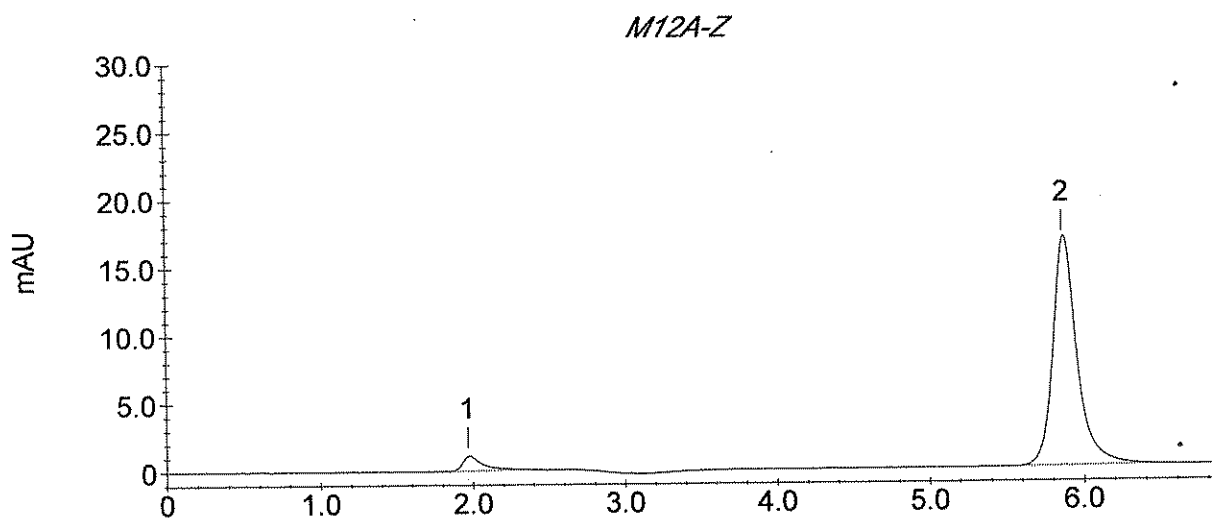
Column Type : AS7-11445, NG1-19183

Injection Number : 22

Dilution Factor : 2500.00

## Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	10064	1044
2	CRVI	5.87	13698.65	182749	16584



## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : JW0FH

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_023.DXD

Method File Name : ...\CRVI 050107A.met

Column Type : AS7-11445, NG1-19183

Date Time Collected : 5/12/07 11:58:12

Injection Number : 23

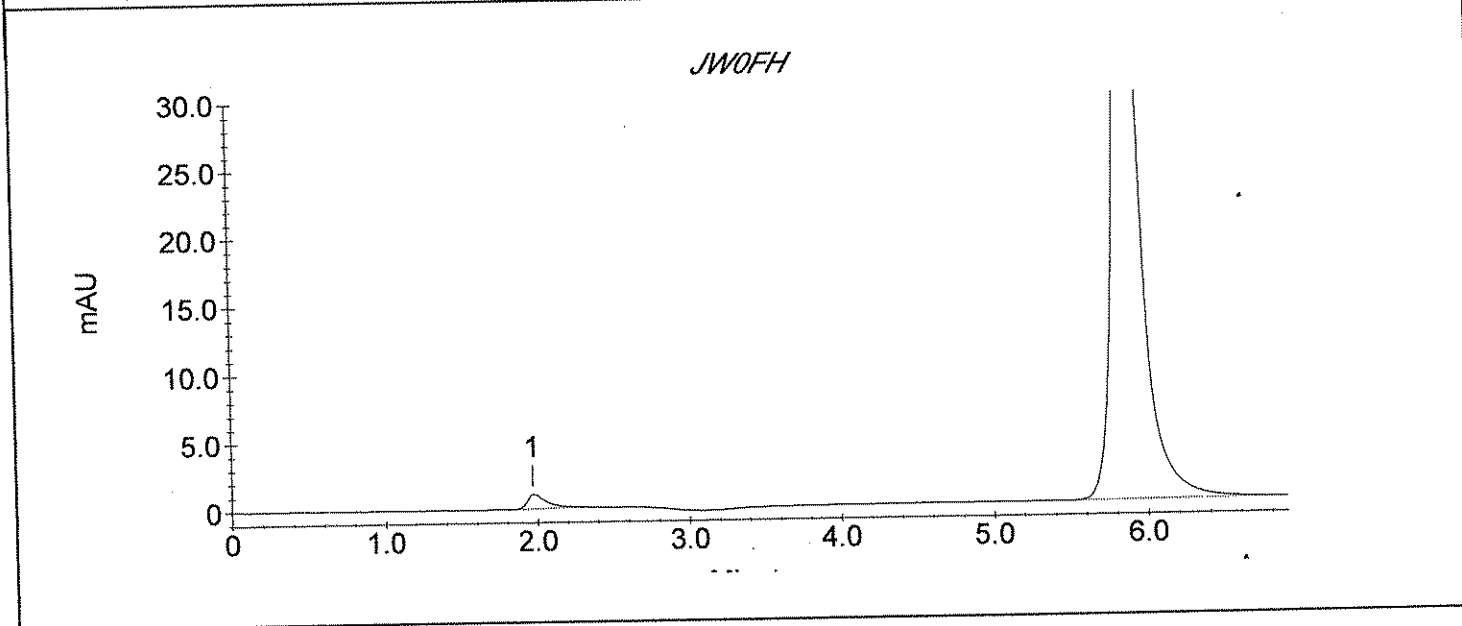
System Operator : YZ/W18

Dilution Factor : 125.00

Calibration Date : 5/1/07 12:27:33

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9617	1035
2	CRVI	5.87	2345.38	626887	56917



## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : M11-F

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_023.DXD

Method File Name : ... \crvi 050107a.met

Column Type : AS7-11445, NG1-19183

Date Time Collected : 5/12/07 11:58:12

Injection Number : 23

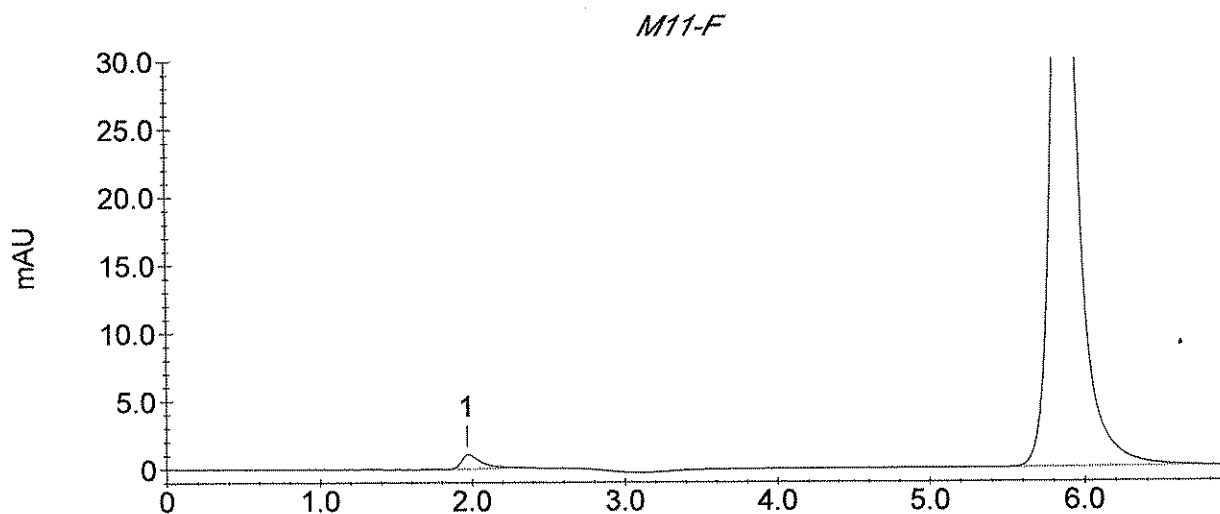
System Operator : YZ/W18

Dilution Factor : 125.00

Calibration Date : 5/1/07 12:27:33

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9617	1035
2	CRVI	5.87	2345.38	626887	56917



# STL Los Angeles Cr VI Sample Analysis Report

Sample Name : JWOFH

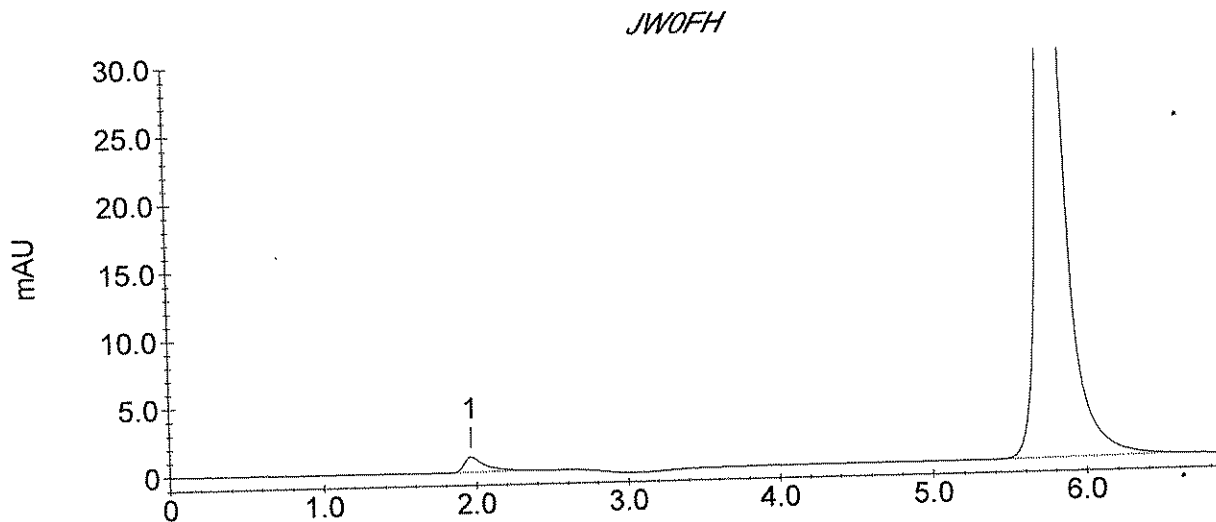
Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_024.DXD

Method File Name : ...\CRVI 050107A.met  
Date Time Collected : 5/12/07 12:07:39  
System Operator : YZ/W18  
Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
Injection Number : 24  
Dilution Factor : 125.00

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	10523	1115
2	CRVI	5.78	2379.90	636122	58440





## STL Los Angeles Cr VI Sample Analysis Report

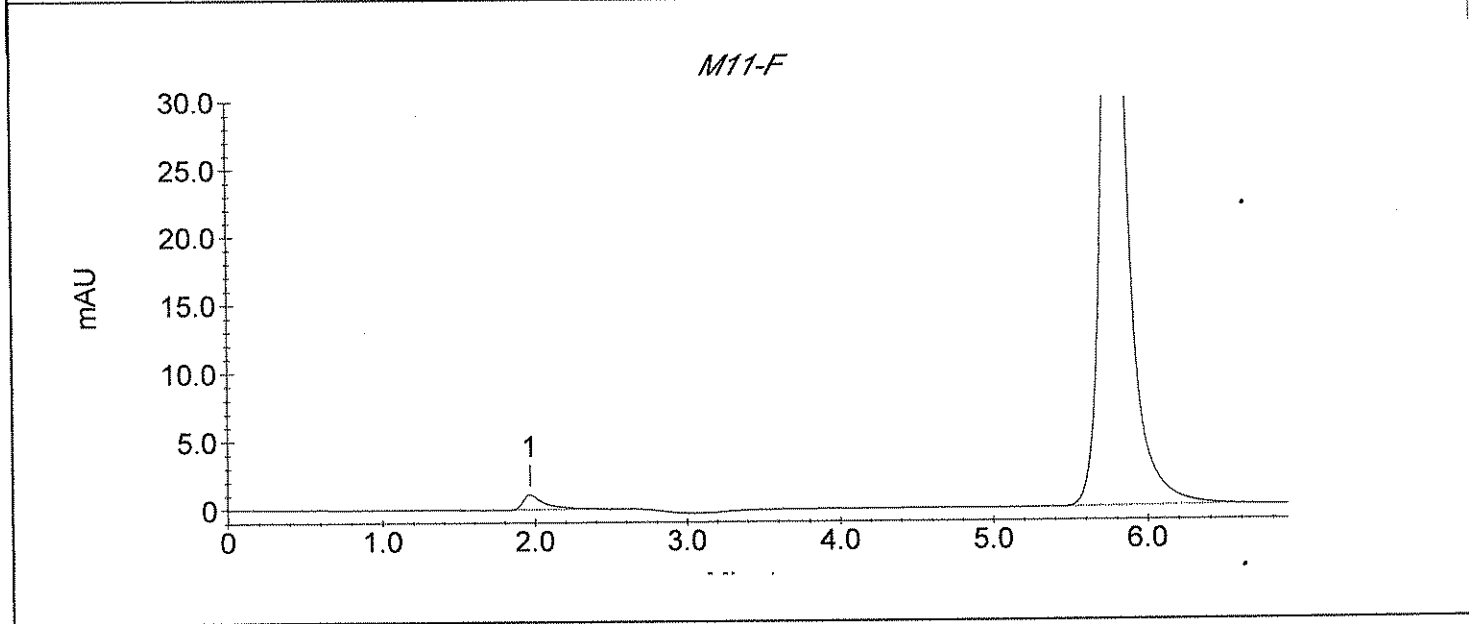
Sample Name : M11-F

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_024.DXD

Method File Name : ...\crvi 050107a.met  
 Date Time Collected : 5/12/07 12:07:39  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 24  
 Dilution Factor : 125.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	10523	1115
2	CRVI	5.78	2379.90	636122	58440



## STL Los Angeles Cr VI Sample Analysis Report

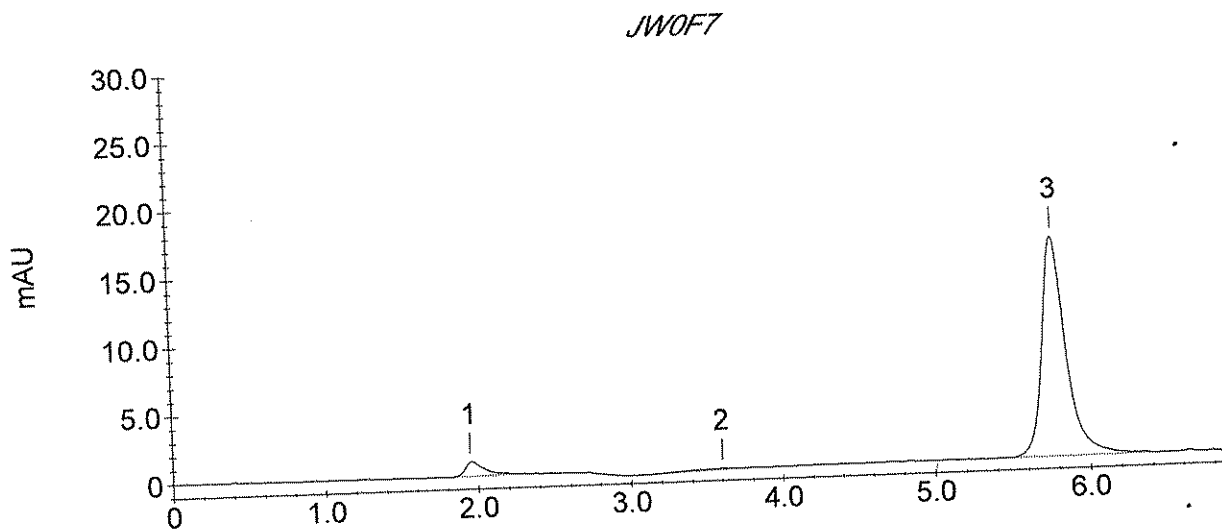
Sample Name : JW0F7

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_025.DXD

Method File Name : ...\CRVI 050107A.met  
 Date Time Collected : 5/12/07 12:37:34  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 25  
 Dilution Factor : 2500.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.95	0.00	9687	1038
2		3.60	0.00	2187	117
3	CRVI	5.78	13015.06	173606	16093



## STL Los Angeles Cr VI Sample Analysis Report

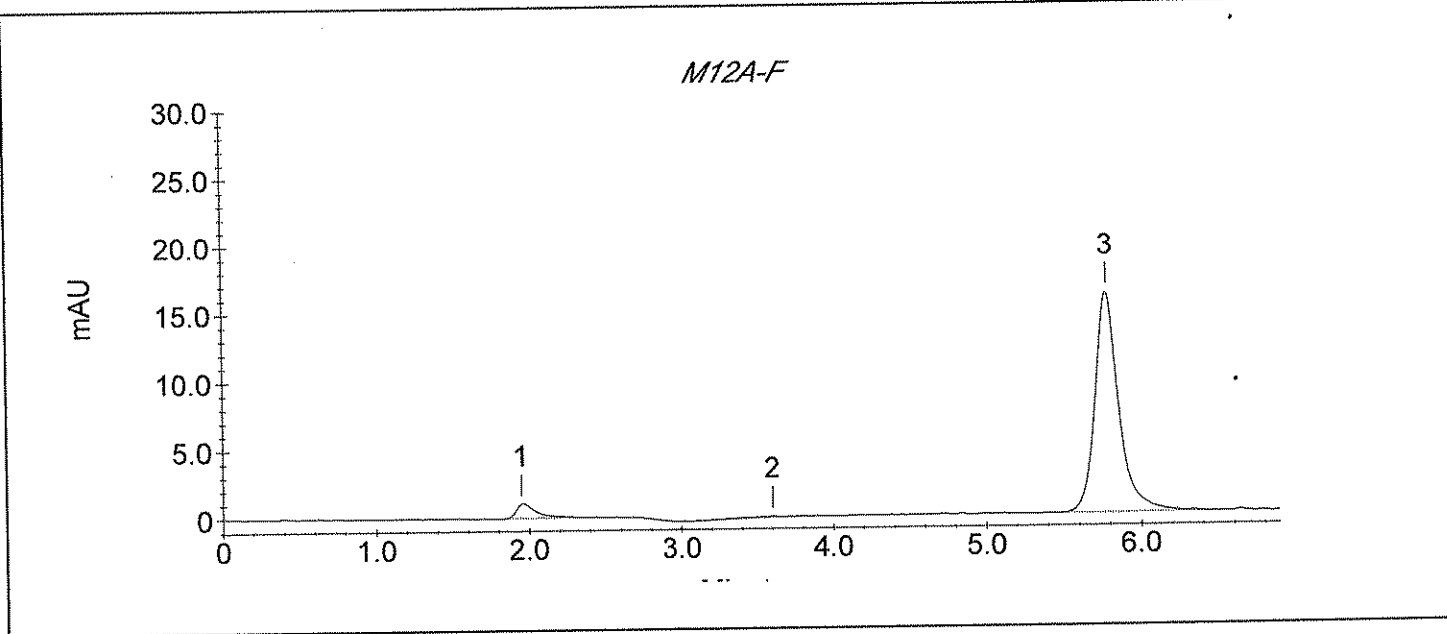
Sample Name : M12A-F

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_025.DXD

Method File Name : ...\crvi 050107a.met  
 Date Time Collected : 5/12/07 12:37:34  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 25  
 Dilution Factor : 2500.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.95	0.00	9687	1038
2		3.60	0.00	2187	117
3	CRVI	5.78	13015.06	173606	16093



## STL Los Angeles Cr VI Sample Analysis Report

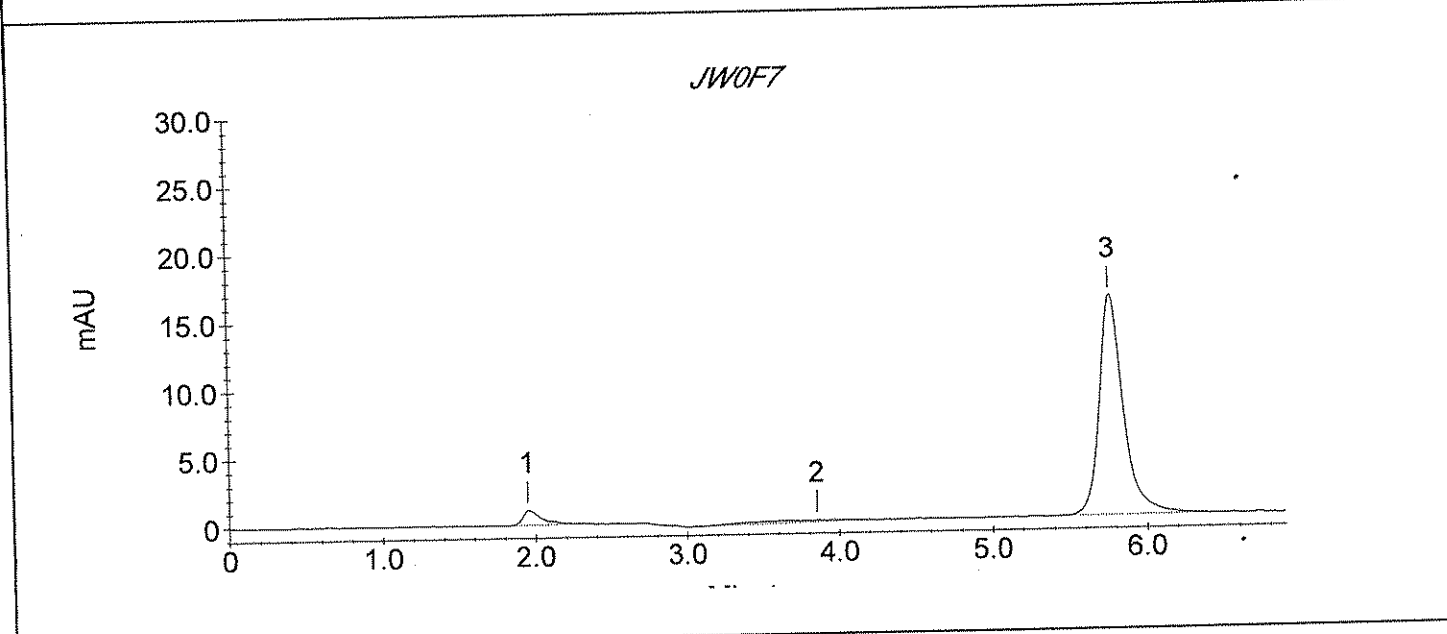
Sample Name : JW0F7

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_026.DXD

Method File Name : ...CRVI 050107A.met  
 Date Time Collected : 5/12/07 12:47:01  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 26  
 Dilution Factor : 2500.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.95	0.00	9235	1046
2		3.85	0.00	6455	127
3	CRVI	5.77	13039.58	173934	16005



## STL Los Angeles Cr VI Sample Analysis Report

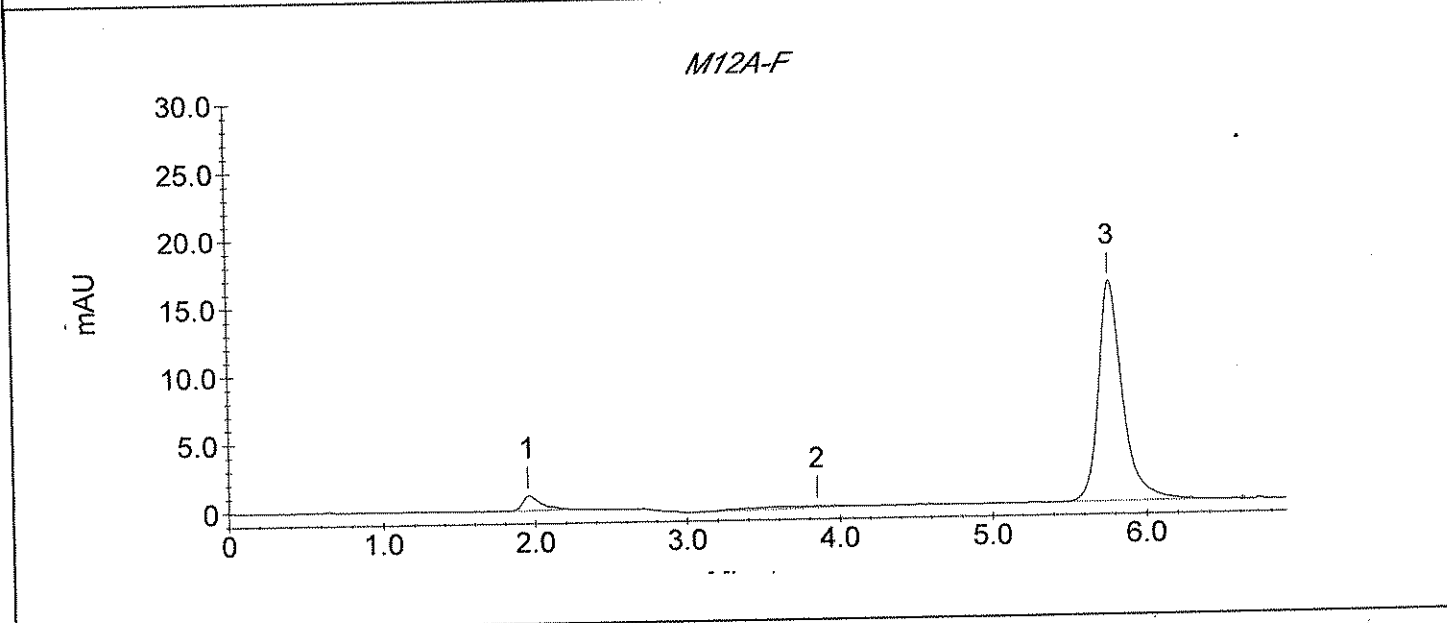
Sample Name : M12A-F

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_026.DXD

Method File Name : ...crvi 050107a.met  
 Date Time Collected : 5/12/07 12:47:01  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 26  
 Dilution Factor : 2500.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.95	0.00	9235	1046
2		3.85	0.00	6455	127
3	CRVI	5.77	13039.58	173934	16005



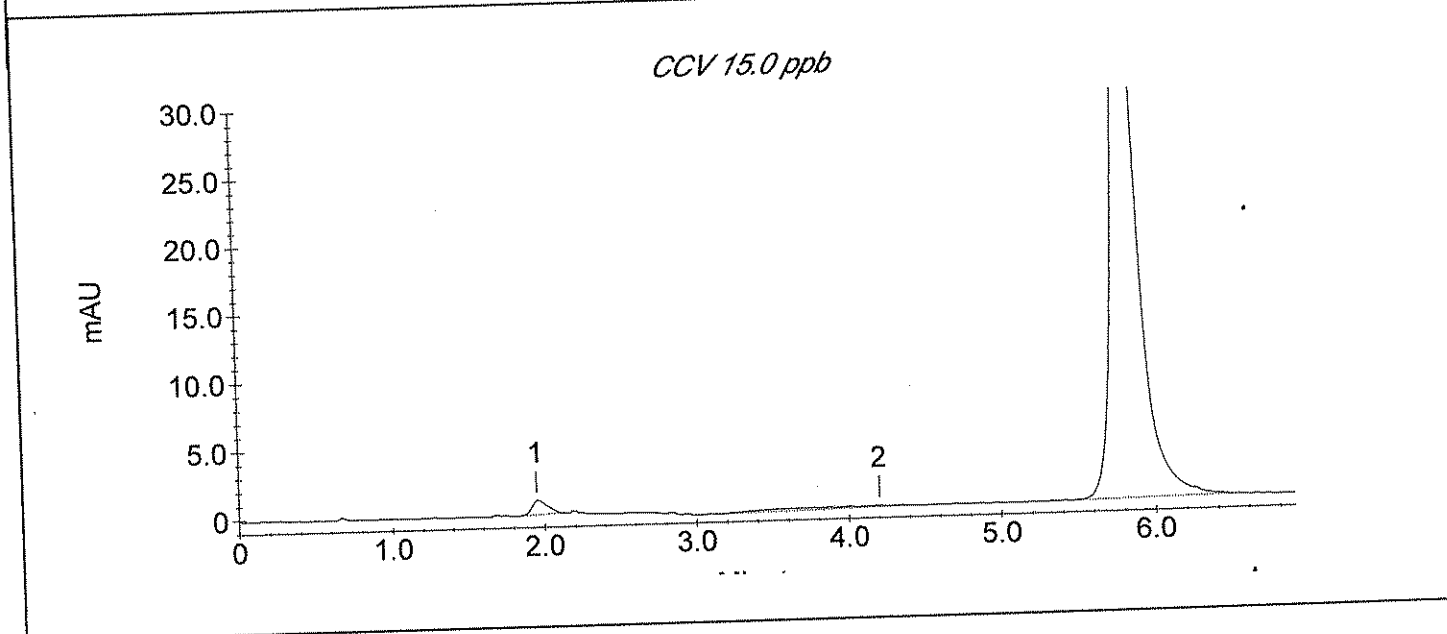
## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : CCV 15.0 ppb

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_027.DXD

Method File Name : ...crvi 050107a.met	Column Type : AS7-11445, NG1-19183
Date Time Collected : 5/12/07 12:56:24	Injection Number : 27
System Operator : YZ/W18	Dilution Factor : 1.00
Calibration Date : 5/1/07 12:27:33	

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.95	0.00	7457	1016
2		4.20	0.00	8466	122
3	CRVI	5.82	15.13	505320	45742



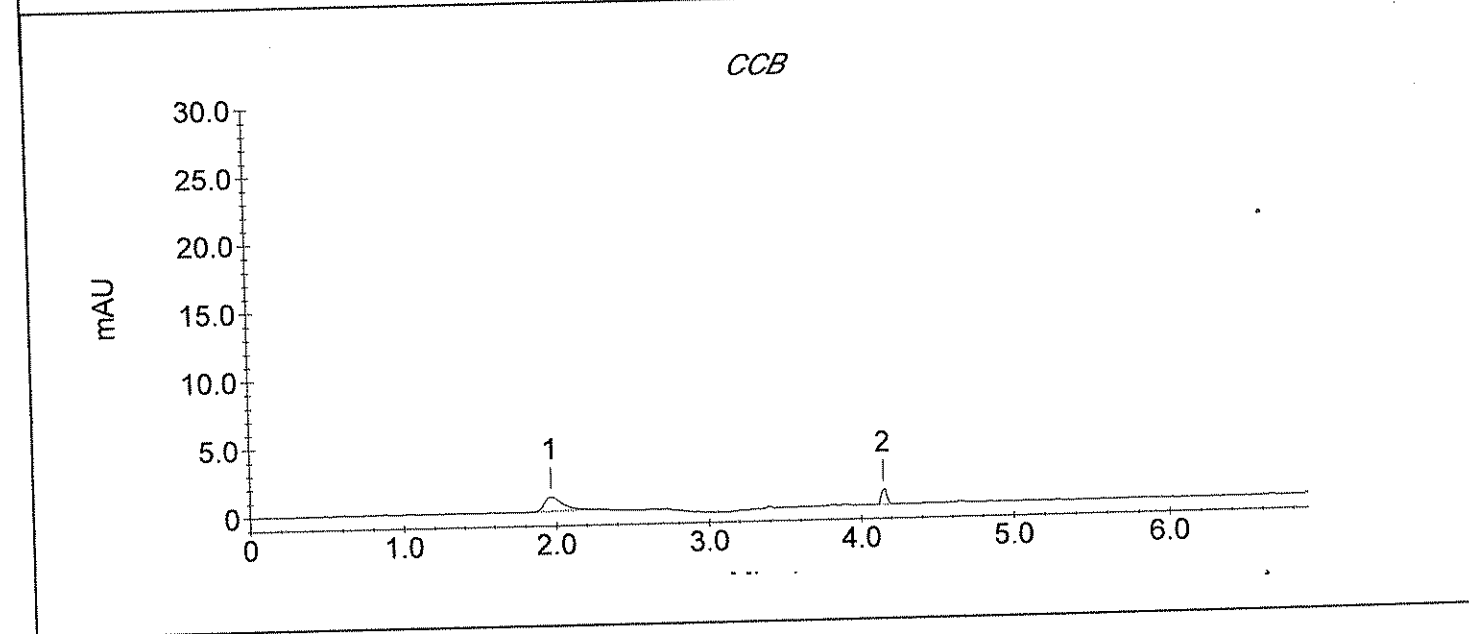
## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : CCB

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_028.DXD

Method File Name : ...crvi 050107a.met	Column Type : AS7-11445, NG1-19183
Date Time Collected : 5/12/07 13:05:52	Injection Number : 28
System Operator : YZ/W18	Dilution Factor : 1.00
Calibration Date : 5/1/07 12:27:33	

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	8726	1043
2		4.15	0.00	2791	1081



## STL Los Angeles Cr VI Sample Analysis Report

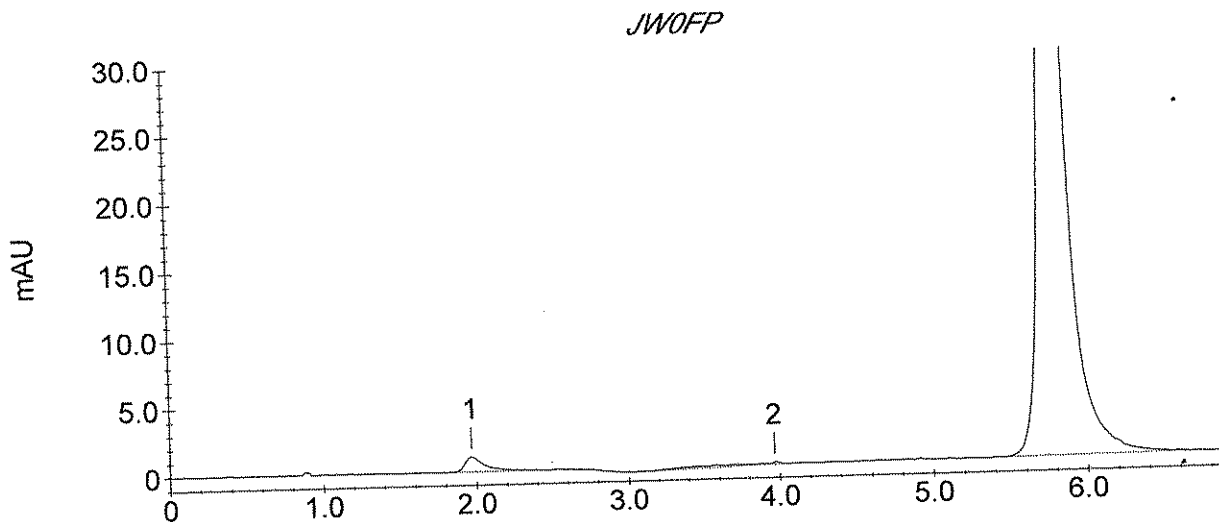
Sample Name : JW0FP

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_029.DXD

Method File Name : ...\CRVI 050107A.met  
 Date Time Collected : 5/12/07 13:15:19  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 29  
 Dilution Factor : 125.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	10647	1104
2		3.97	0.00	5460	151
3	CRVI	5.80	2520.11	673624	62328





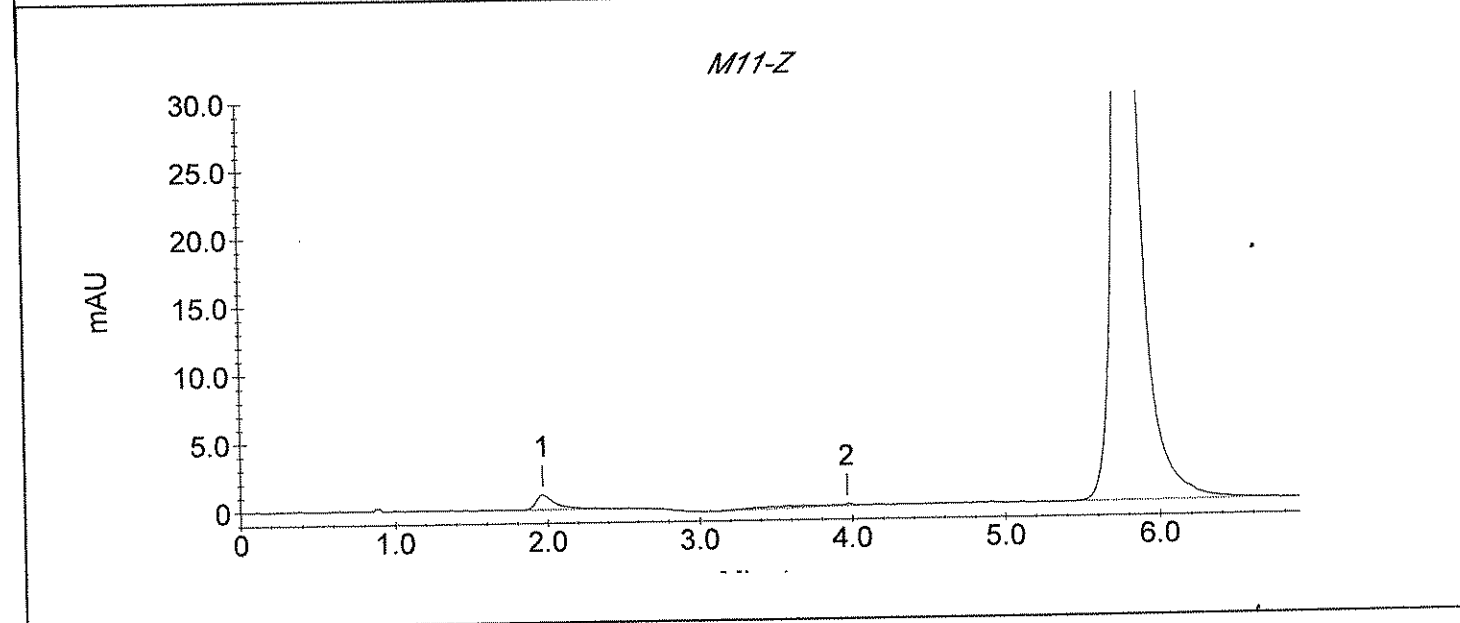
## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : M11-Z

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_029.DXD

Method File Name : ...crvi 050107a.met	Column Type : AS7-11445, NG1-19183
Date Time Collected : 5/12/07 13:15:19	Injection Number : 29
System Operator : YZ/W18	Dilution Factor : 125.00
Calibration Date : 5/1/07 12:27:33	

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	10647	1104
2		3.97	0.00	5460	151
3	CRVI	5.80	2520.11	673624	62328



## STL Los Angeles Cr VI Sample Analysis Report

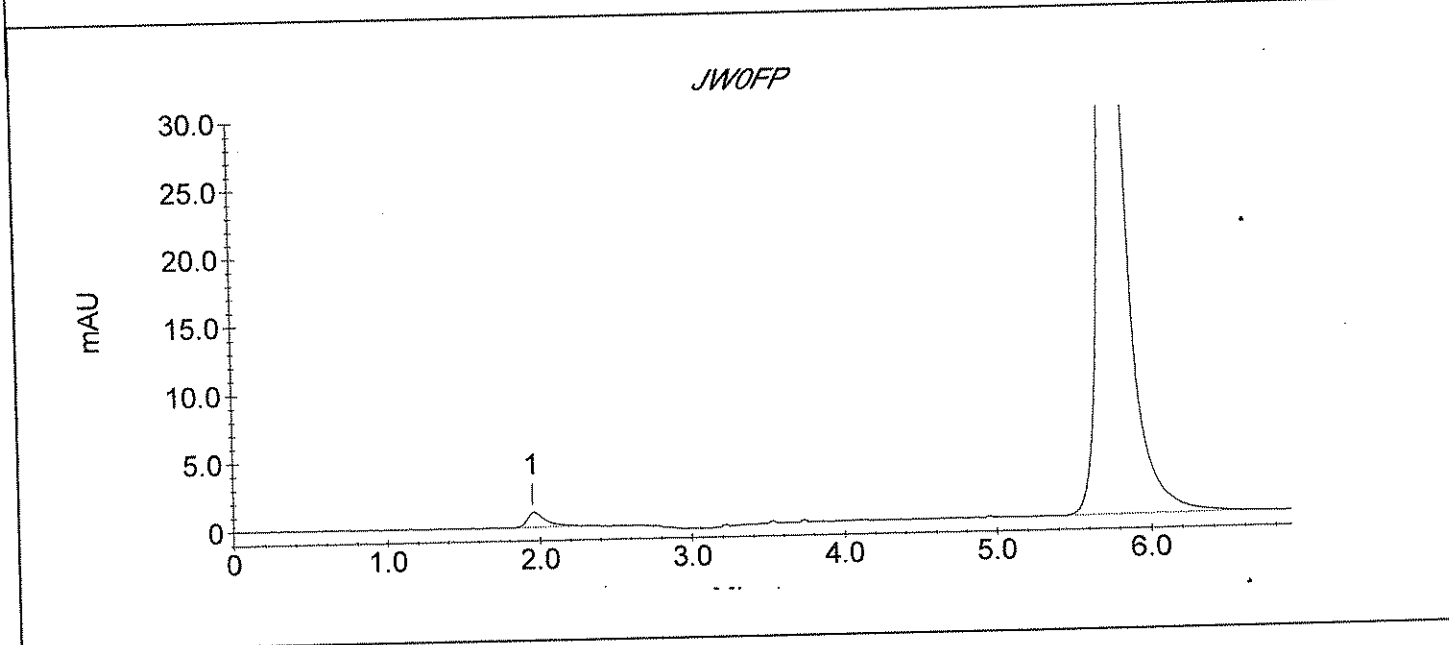
Sample Name : JW0FP

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_030.DXD

Method File Name : ... \CRVI 050107A.met  
 Date Time Collected : 5/12/07 13:24:46  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 30  
 Dilution Factor : 125.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.95	0.00	9254	1053
2	CRVI	5.77	2499.84	668202	61836



## STL Los Angeles Cr VI Sample Analysis Report

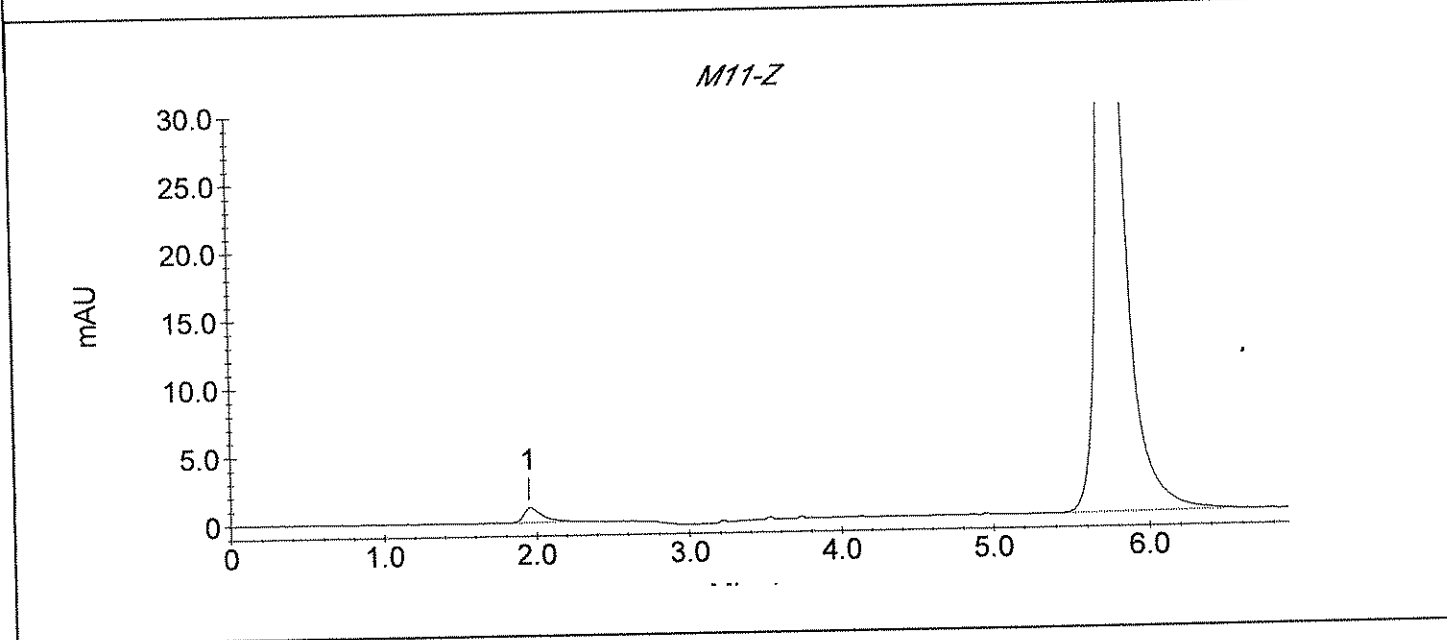
Sample Name : M11-Z

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_030.DXD

Method File Name : ...\crvi 050107a.met  
 Date Time Collected : 5/12/07 13:24:46  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 30  
 Dilution Factor : 125.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.95	0.00	9254	1053
2	CRVI	5.77	2499.84	668202	61836



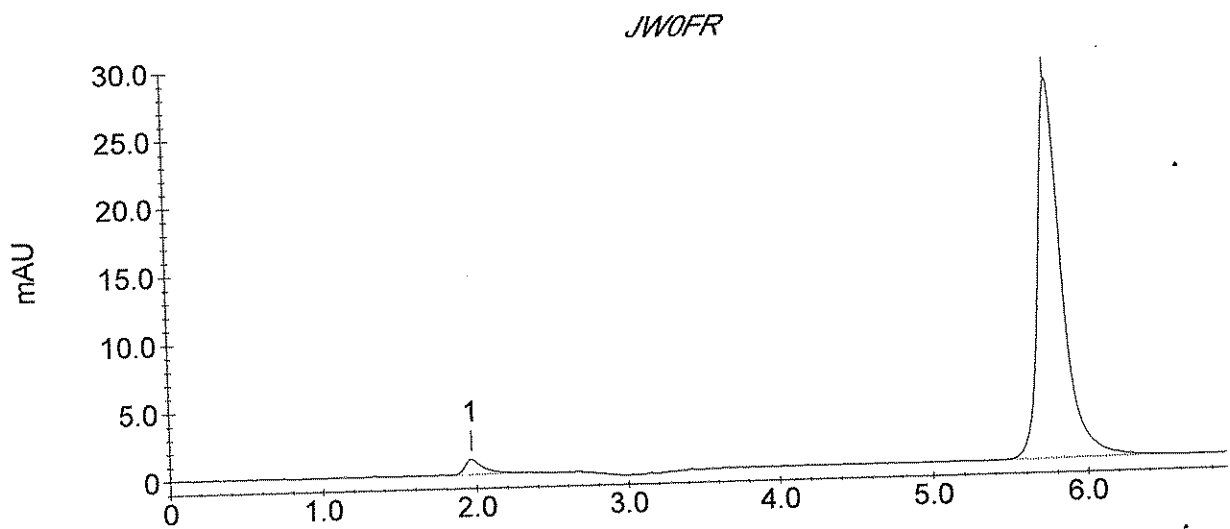
## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : JW0FR  
 Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_031.DXD

Method File Name : ...\CRVI 050107A.met  
 Date Time Collected : 5/12/07 13:34:14  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 31  
 Dilution Factor : 2500.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9295	1101
2	CRVI	5.77	22372.27	298750	27275



## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : M89-L

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_031.DXD

Method File Name : ...crvi 050107a.met

Date Time Collected : 5/12/07 13:34:14

System Operator : YZ/W18

Calibration Date : 5/1/07 12:27:33

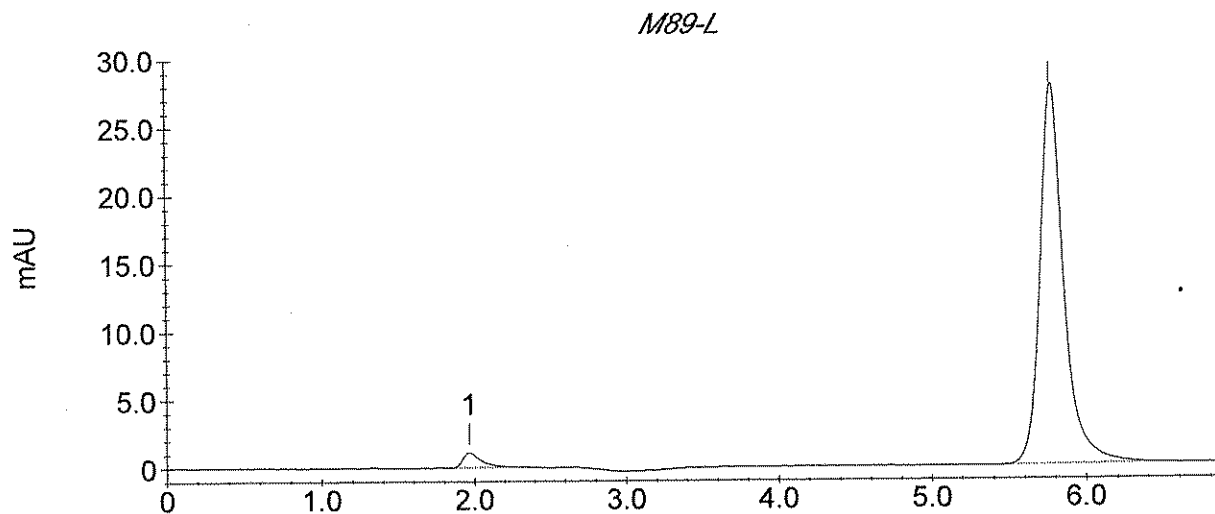
Column Type : AS7-11445, NG1-19183

Injection Number : 31

Dilution Factor : 2500.00

## Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9295	1101
2	CRVI	5.77	22372.27	298750	27275



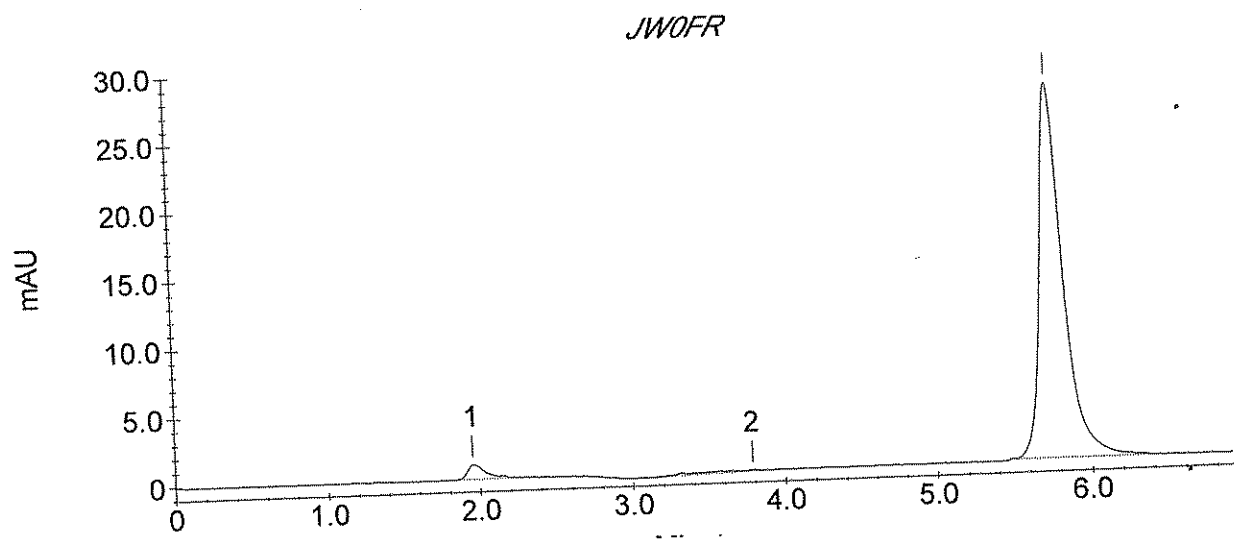
## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : JW0FR  
 Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_032.DXD

Method File Name : ...\CRVI 050107A.met  
 Date Time Collected : 5/12/07 13:43:41  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 32  
 Dilution Factor : 2500.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.95	0.00	9151	1051
2		3.78	0.00	4142	92
3	CRVI	5.77	21892.42	292333	27474



## STL Los Angeles Cr VI Sample Analysis Report

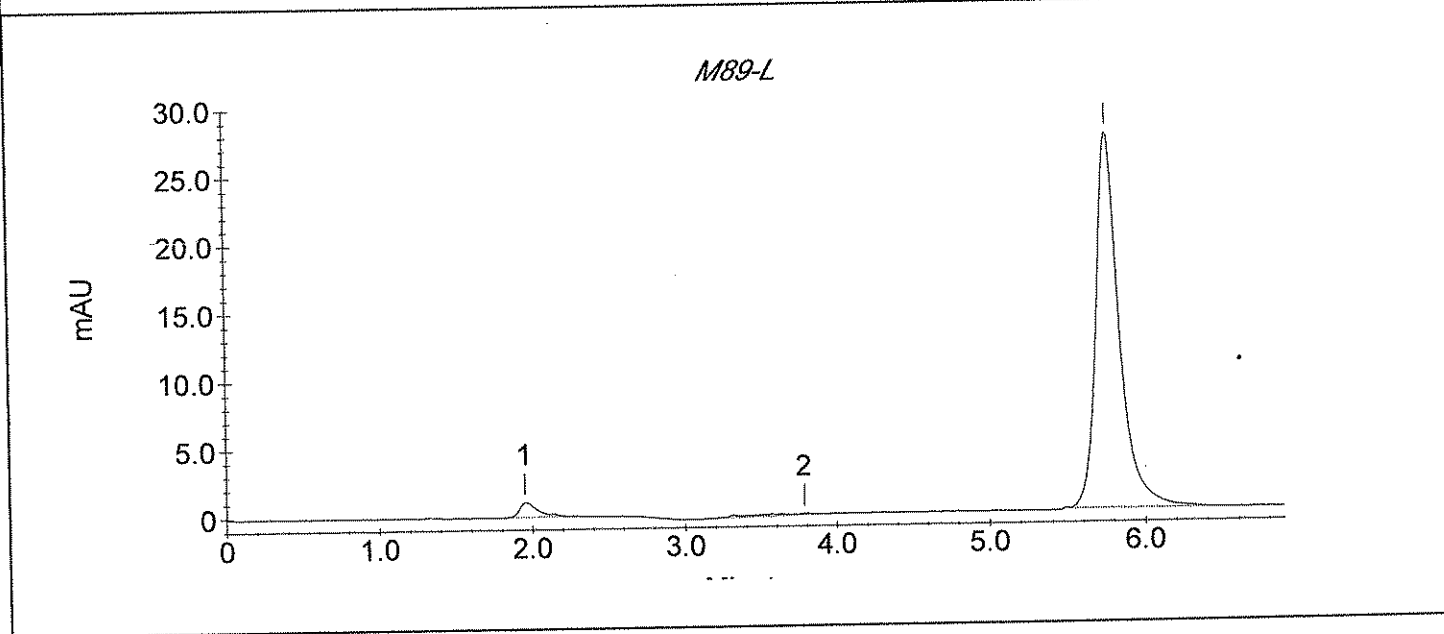
Sample Name : M89-L

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_032.DXD

Method File Name : ...crvi 050107a.met  
 Date Time Collected : 5/12/07 13:43:41  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 32  
 Dilution Factor : 2500.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.95	0.00	9151	1051
2		3.78	0.00	4142	92
3	CRVI	5.77	21892.42	292333	27474



## STL Los Angeles Cr VI Sample Analysis Report

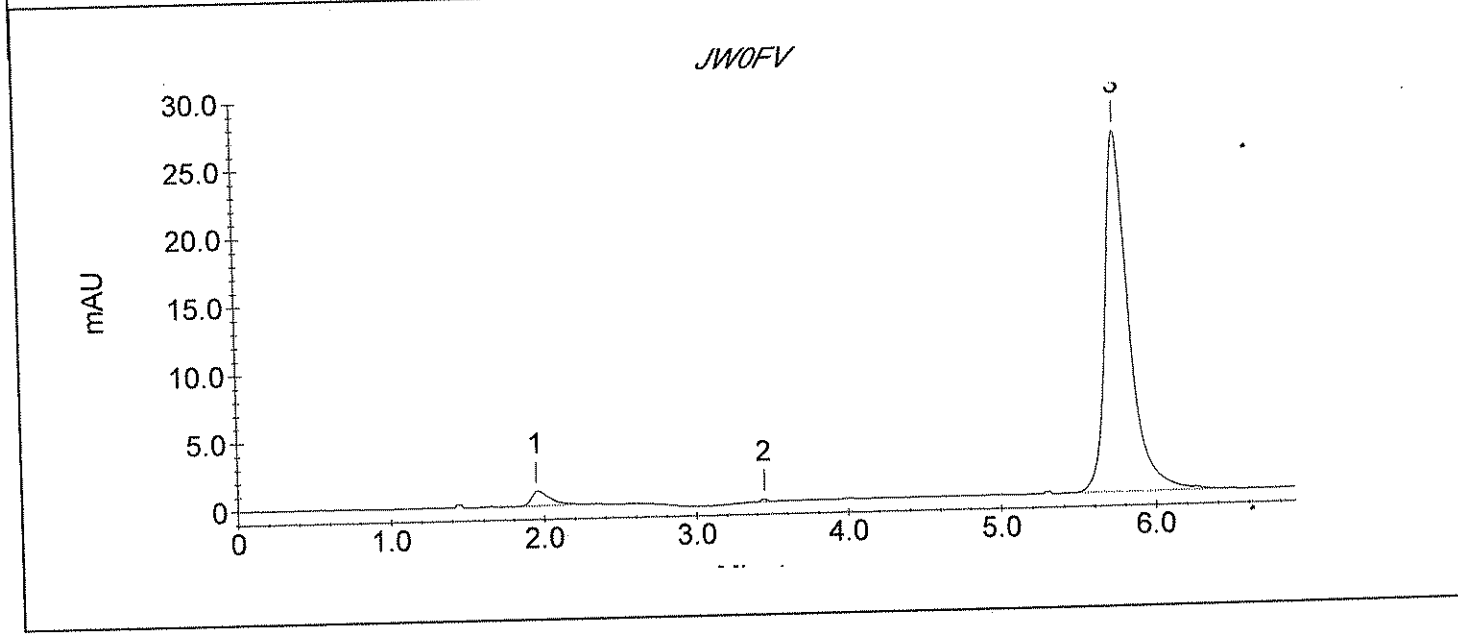
Sample Name : JW0FV

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_033.DXD

Method File Name : ...\CRVI 050107A.met  
 Date Time Collected : 5/12/07 13:53:09  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 33  
 Dilution Factor : 2500.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.95	0.00	9353	1056
2		3.45	0.00	1112	203
3	CRVI	5.77	21252.02	283768	26454





## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : M89-F

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_033.DXD

Method File Name : ...\crvi 050107a.met

Column Type : AS7-11445, NG1-19183

Date Time Collected : 5/12/07 13:53:09

Injection Number : 33

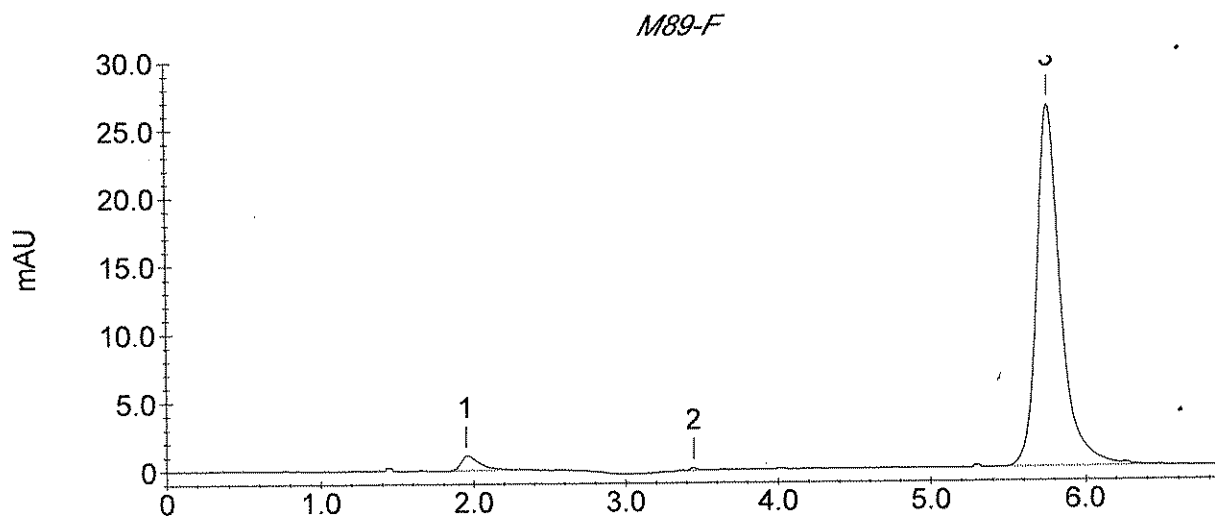
System Operator : YZ/W18

Dilution Factor : 2500.00

Calibration Date : 5/1/07 12:27:33

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.95	0.00	9353	1056
2		3.45	0.00	1112	203
3	CRVI	5.77	21252.02	283768	26454



## STL Los Angeles Cr VI Sample Analysis Report

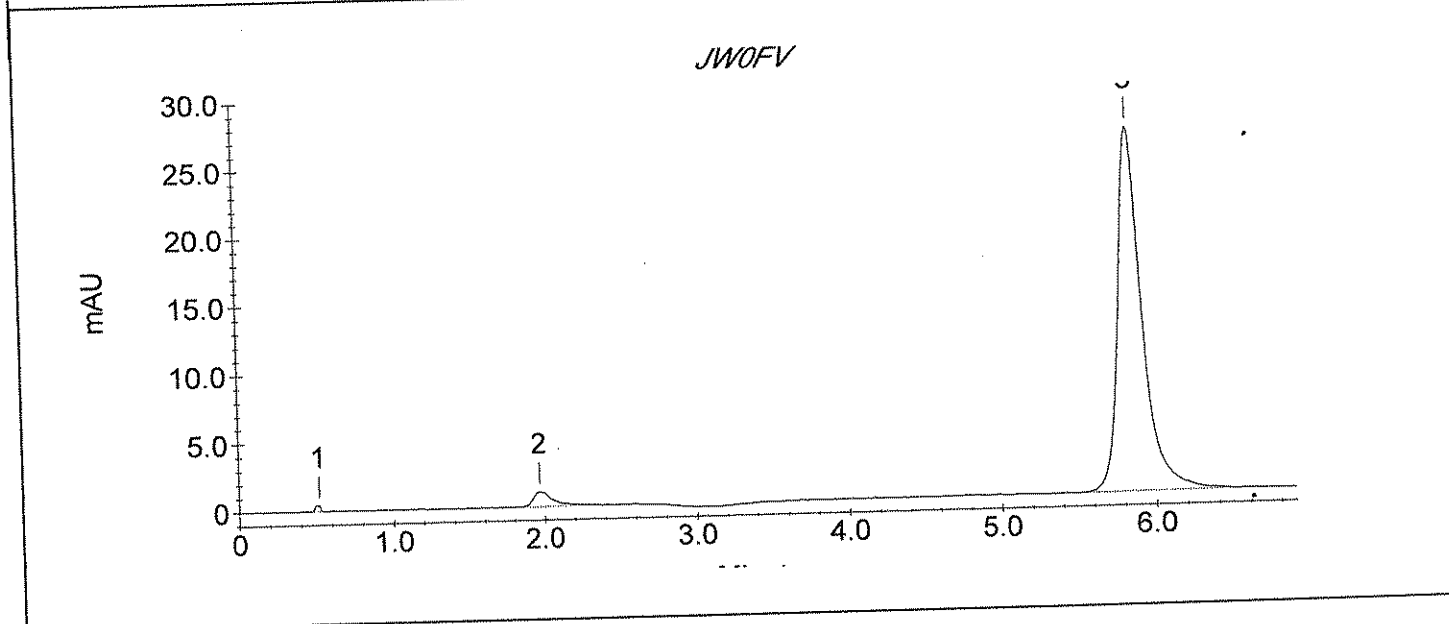
Sample Name : JW0FV

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_034.DXD

Method File Name : ...\CRVI 050107A.met  
 Date Time Collected : 5/12/07 14:02:36  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 34  
 Dilution Factor : 2500.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		0.52	0.00	1037	405
2		1.97	0.00	9744	1071
3	CRVI	5.85	21612.76	288593	26678



## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : M89-F

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_034.DXD

Method File Name : ... \crvi 050107a.met

Date Time Collected : 5/12/07 14:02:36

System Operator : YZ/W18

Calibration Date : 5/1/07 12:27:33

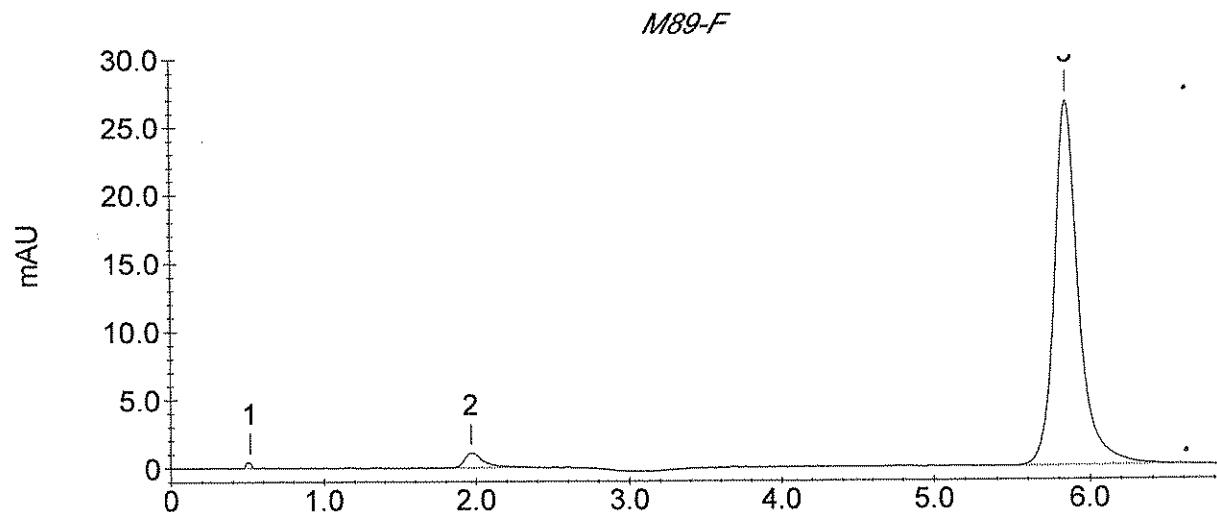
Column Type : AS7-11445, NG1-19183

Injection Number : 34

Dilution Factor : 2500.00

## Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		0.52	0.00	1037	405
2		1.97	0.00	9744	1071
3	CRVI	5.85	21612.76	288593	26678



## STL Los Angeles Cr VI Sample Analysis Report

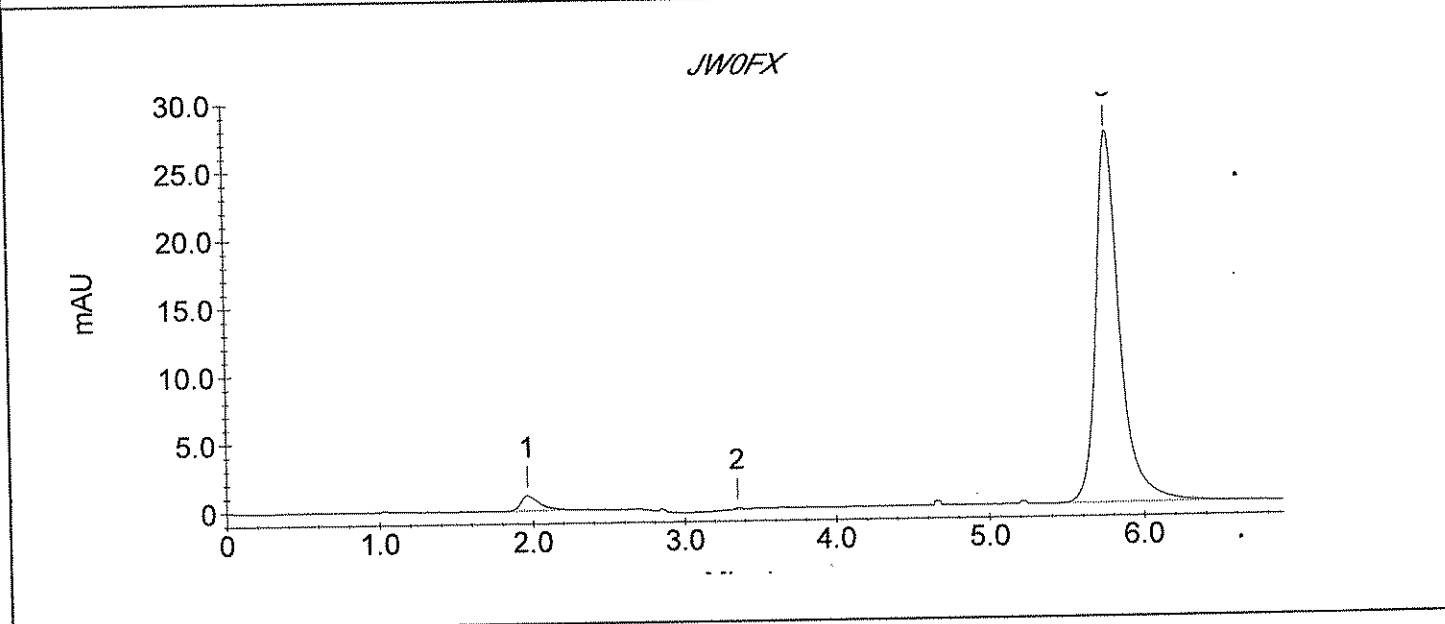
Sample Name : JW0FX

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_035.DXD

Method File Name : ...\CRVI 050107A.met  
 Date Time Collected : 5/12/07 14:11:58  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 35  
 Dilution Factor : 2500.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9351	1104
2		3.35	0.00	347	152
3	CRVI	5.77	21889.91	292299	26917



## STL Los Angeles Cr VI Sample Analysis Report

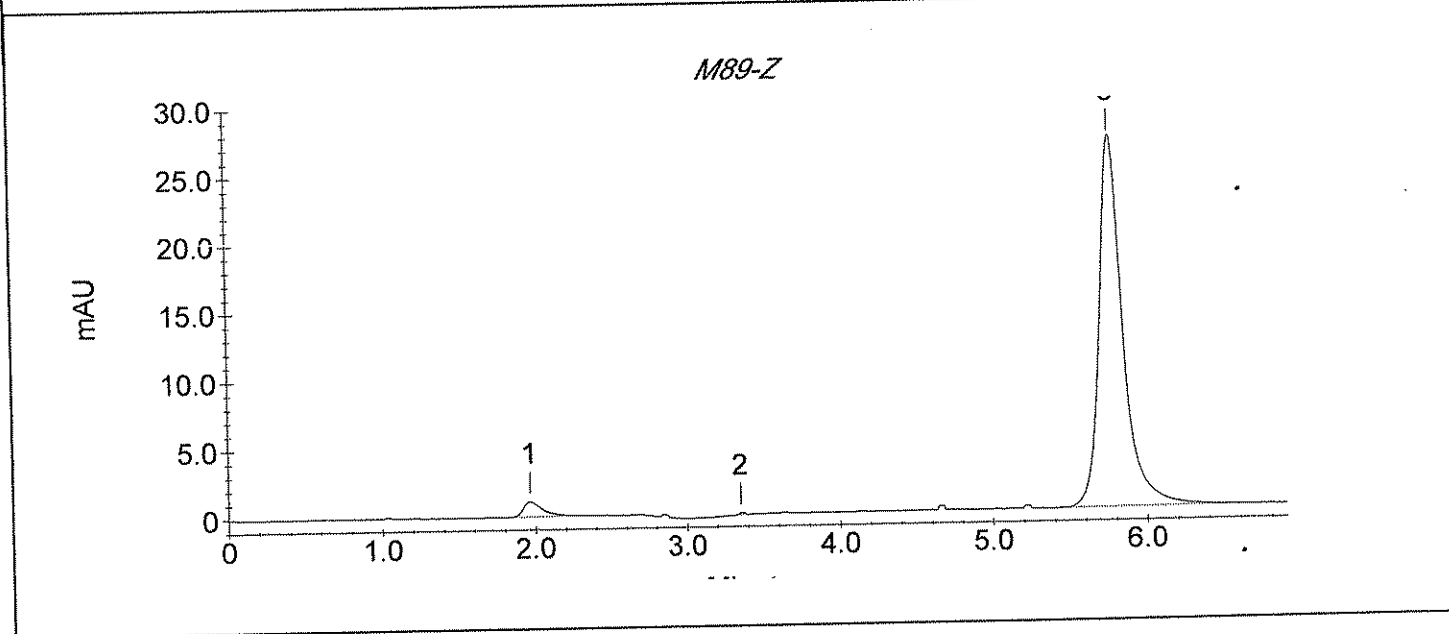
Sample Name : M89-Z

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_035.DXD

Method File Name : ...\crvi 050107a.met  
 Date Time Collected : 5/12/07 14:11:58  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 35  
 Dilution Factor : 2500.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9351	1104
2		3.35	0.00	347	152
3	CRVI	5.77	21889.91	292299	26917



## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : JW0FX

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_036.DXD

Method File Name : ...\CRVI 050107A.met

Column Type : AS7-11445, NG1-19183

Date Time Collected : 5/12/07 14:21:25

Injection Number : 36

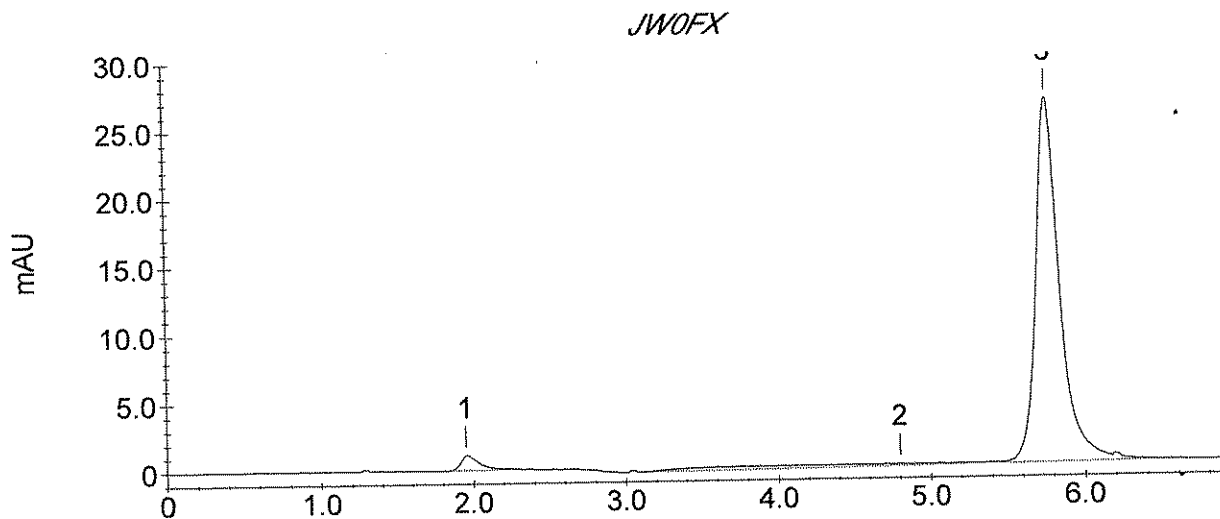
System Operator : YZ/W18

Dilution Factor : 2500.00

Calibration Date : 5/1/07 12:27:33

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.95	0.00	9557	1057
2		4.80	0.00	20312	155
3	CRVI	5.77	21580.03	288155	26601



## STL Los Angeles Cr VI Sample Analysis Report

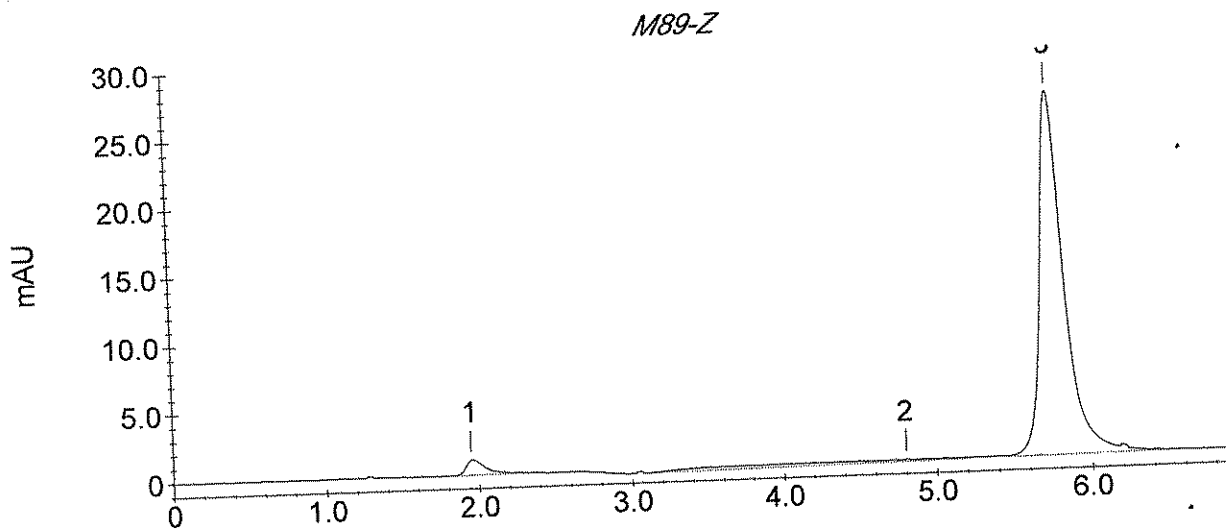
Sample Name : M89-Z

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_036.DXD

Method File Name : ...crvi 050107a.met  
 Date Time Collected : 5/12/07 14:21:25  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 36  
 Dilution Factor : 2500.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.95	0.00	9557	1057
2		4.80	0.00	20312	155
3	CRVI	5.77	21580.03	288155	26601



## STL Los Angeles Cr VI Sample Analysis Report

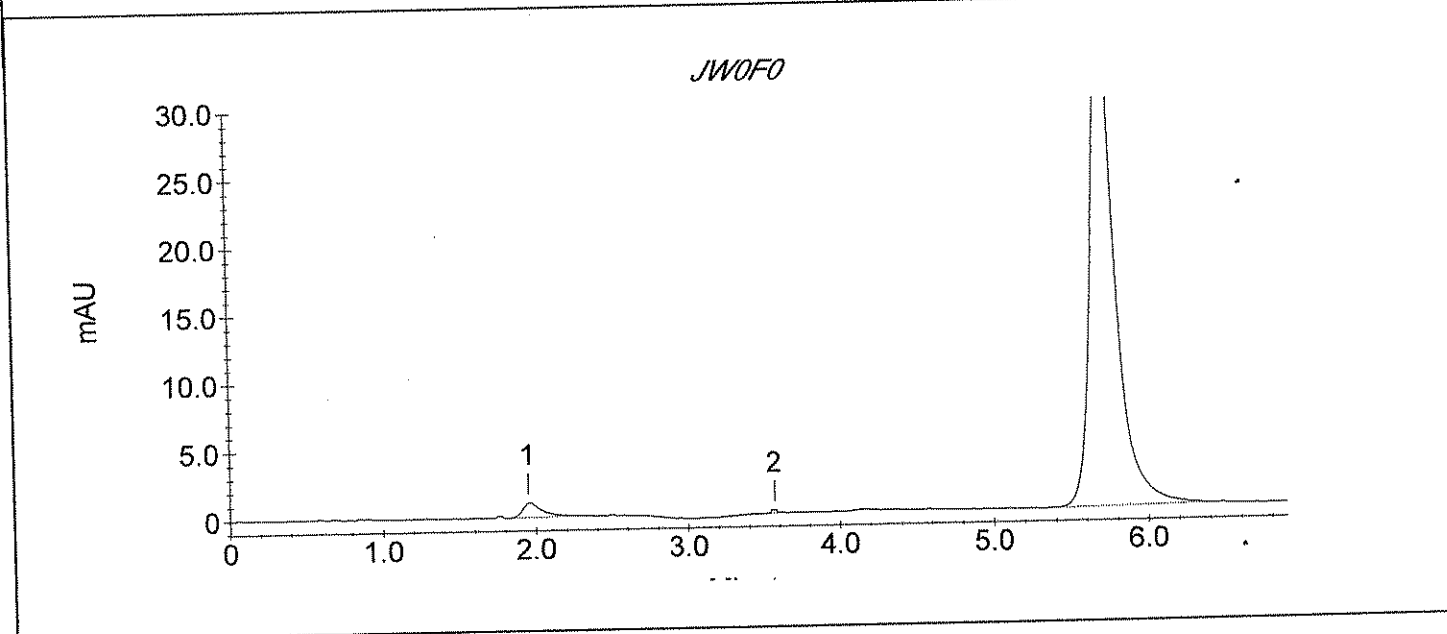
Sample Name : JW0F0

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_037.DXD

Method File Name : ...\CRVI 050107A.met  
 Date Time Collected : 5/12/07 14:30:53  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 37  
 Dilution Factor : 5.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.95	0.00	9408	1048
2		3.57	0.00	1508	221
3	CRVI	5.72	60.83	406306	37376





## STL Los Angeles Cr VI Sample Analysis Report

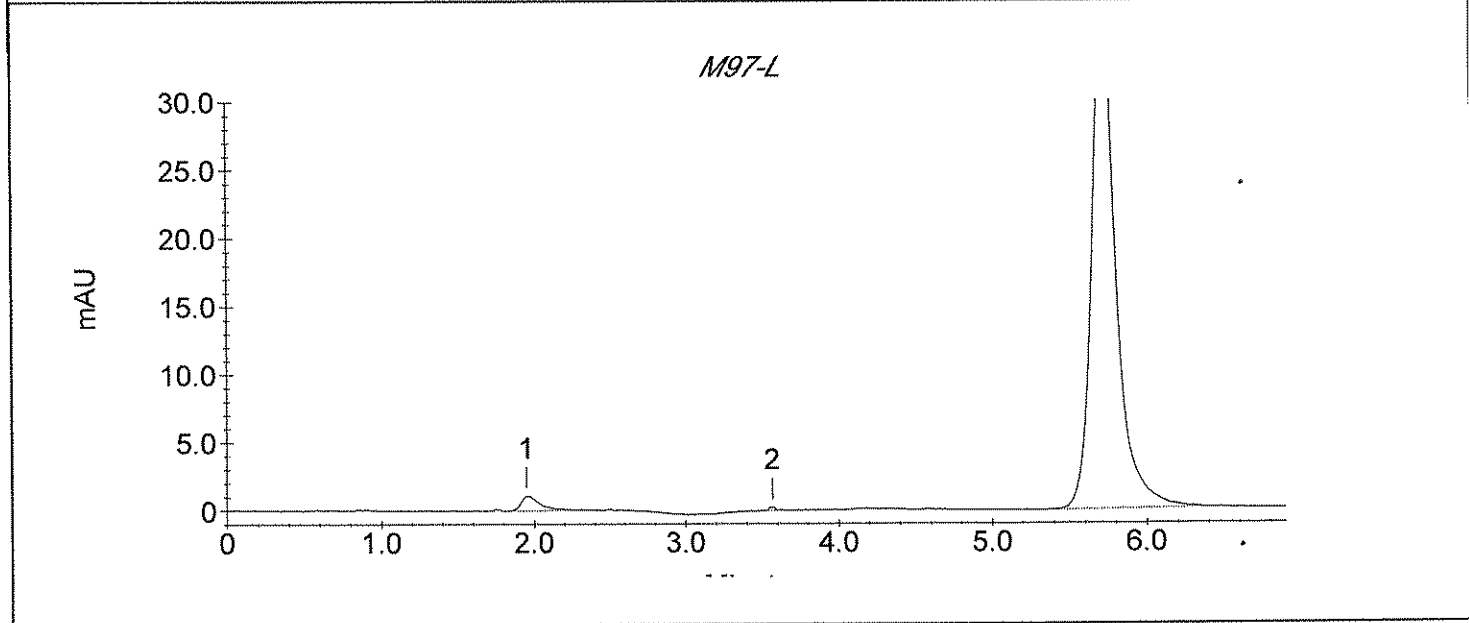
Sample Name : M97-L

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_037.DXD

Method File Name : ...\crvi 050107a.met  
 Date Time Collected : 5/12/07 14:30:53  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 37  
 Dilution Factor : 5.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.95	0.00	9408	1048
2		3.57	0.00	1508	221
3	CRVI	5.72	60.83	406306	37376



## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : JW0F0

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_038.DXD

Method File Name : ... \CRVI 050107A.met

Column Type : AS7-11445, NG1-19183

Date Time Collected : 5/12/07 14:40:21

Injection Number : 38

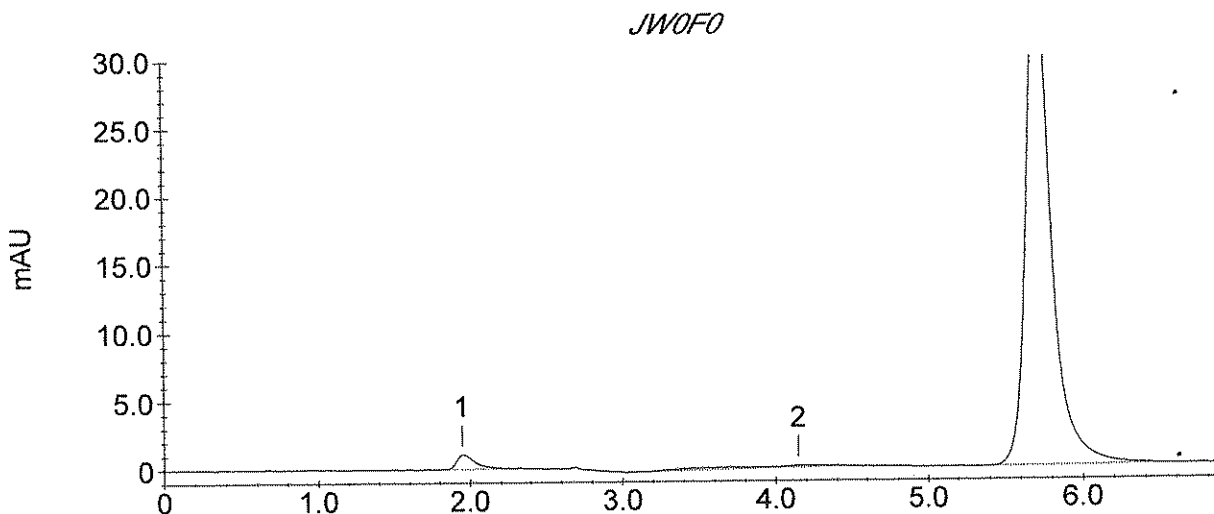
System Operator : YZ/W18

Dilution Factor : 5.00

Calibration Date : 5/1/07 12:27:33

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.95	0.00	8821	1034
2		4.15	0.00	8162	145
3	CRVI	5.72	61.26	409186	37514



## STL Los Angeles Cr VI Sample Analysis Report

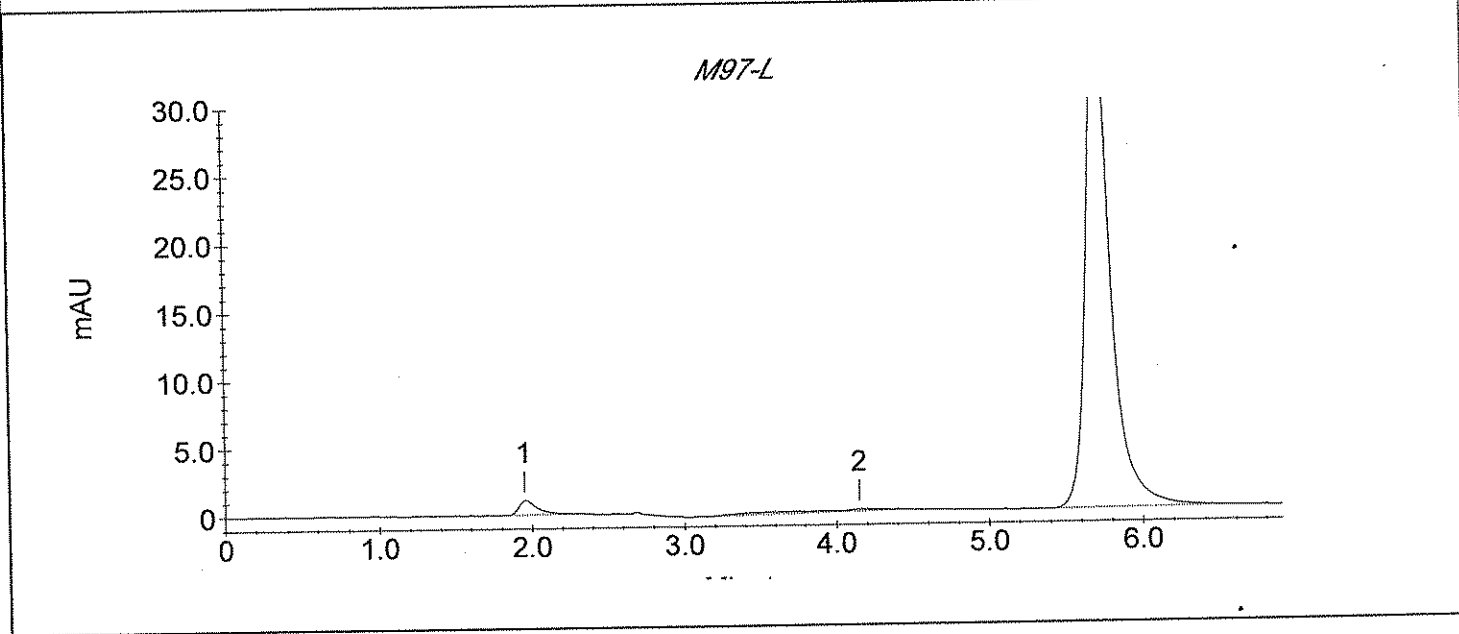
Sample Name : M97-L

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_038.DXD

Method File Name : ...lcrvi 050107a.met  
 Date Time Collected : 5/12/07 14:40:21  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 38  
 Dilution Factor : 5.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.95	0.00	8821	1034
2		4.15	0.00	8162	145
3	CRVI	5.72	61.26	409186	37514



## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : CCV 15.0 ppb

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_039.DXD

Method File Name : ...crvi 050107a.met

Date Time Collected : 5/12/07 14:49:48

System Operator : YZ/W18

Calibration Date : 5/1/07 12:27:33

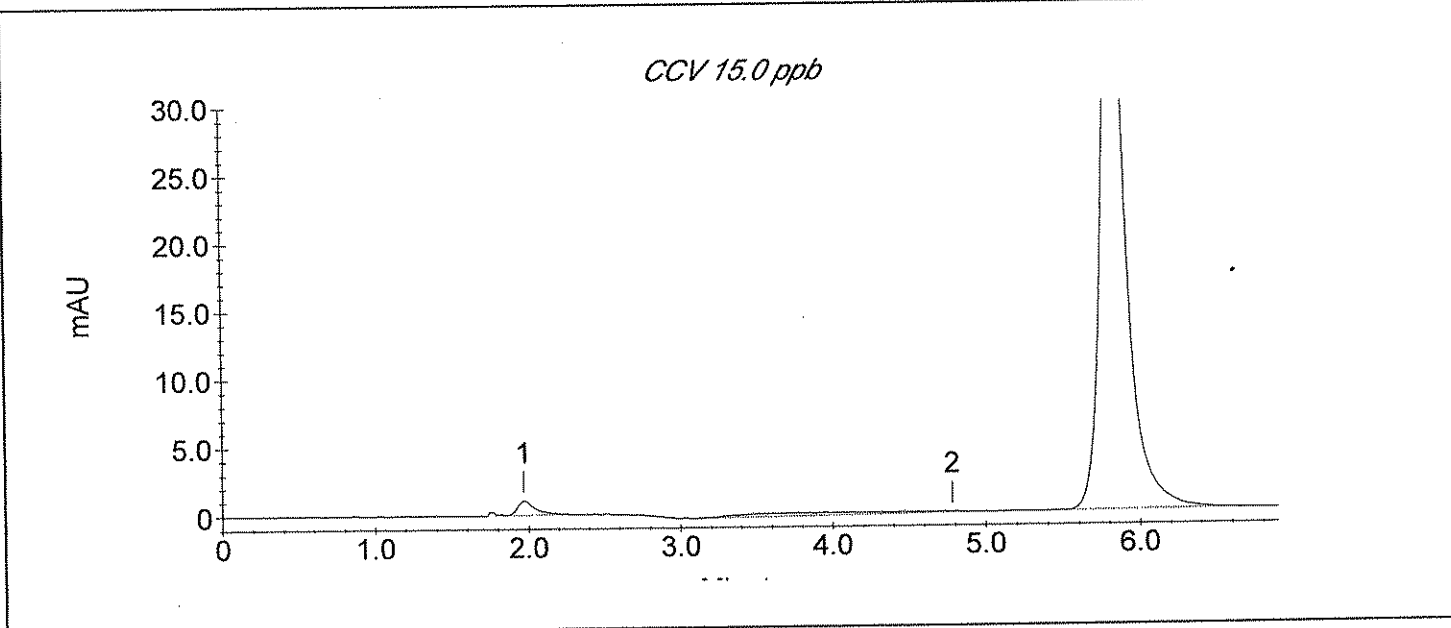
Column Type : AS7-11445, NG1-19183

Injection Number : 39

Dilution Factor : 1.00

## Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	8576	1027
2		4.78	0.00	15071	87
3	CRVI	5.83	15.21	508073	47324



## STL Los Angeles Cr VI Sample Analysis Report

**Sample Name : CCB**

**Data File Name : C:\PEAKNET\CRVI\CRVI 2\CRVI051207\_040.DXD**

Method File Name : ...\CRVI 050107A.met

Column Type : AS7-11445, NG1-19183

Date Time Collected : 5/12/07 14:59:16

Injection Number : 40

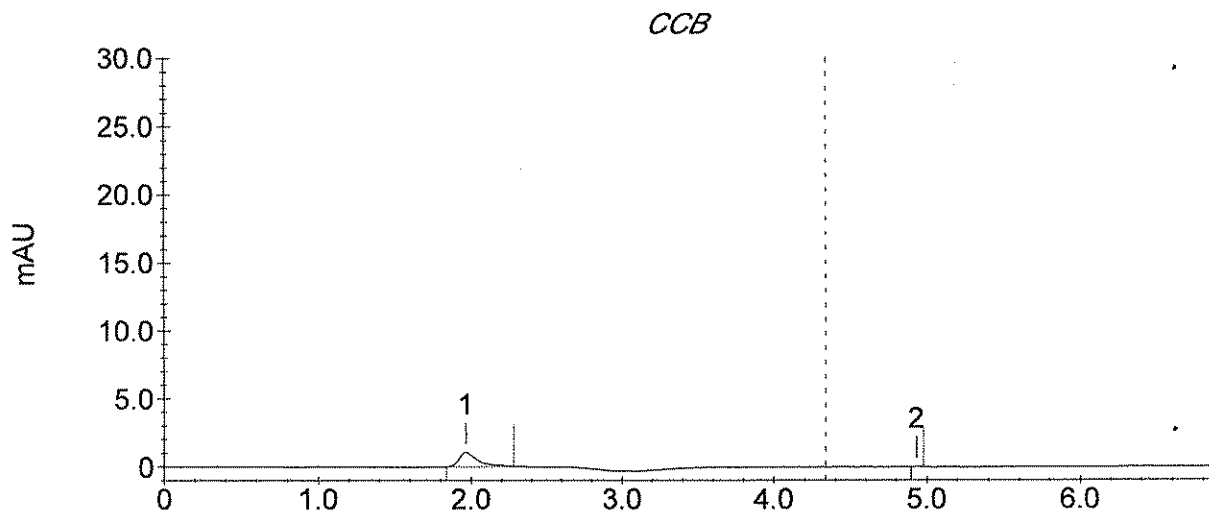
System Operator : YZ/W18

Dilution Factor : 1.00

Calibration Date : 5/1/07 12:27:33

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9066	1053
2		4.93	0.00	142	56



**MANUAL INTEGRATION CODES**

1 Poor Peak Shape	5 Column Bleed
2 Poor Peak Resolution	6 Instrument Noise
3 Peak Not Integrated	7 Poor Baseline
4 Sample Matrix Interf.	8 Other

Initials: YZ Date: 5/18/07

*After*



## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : CCB

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CRVI051207\_040.DXD

Method File Name : ...\CRVI 050107A.met

Column Type : AS7-11445, NG1-19183

Date Time Collected : 5/12/07 14:59:16

Injection Number : 40

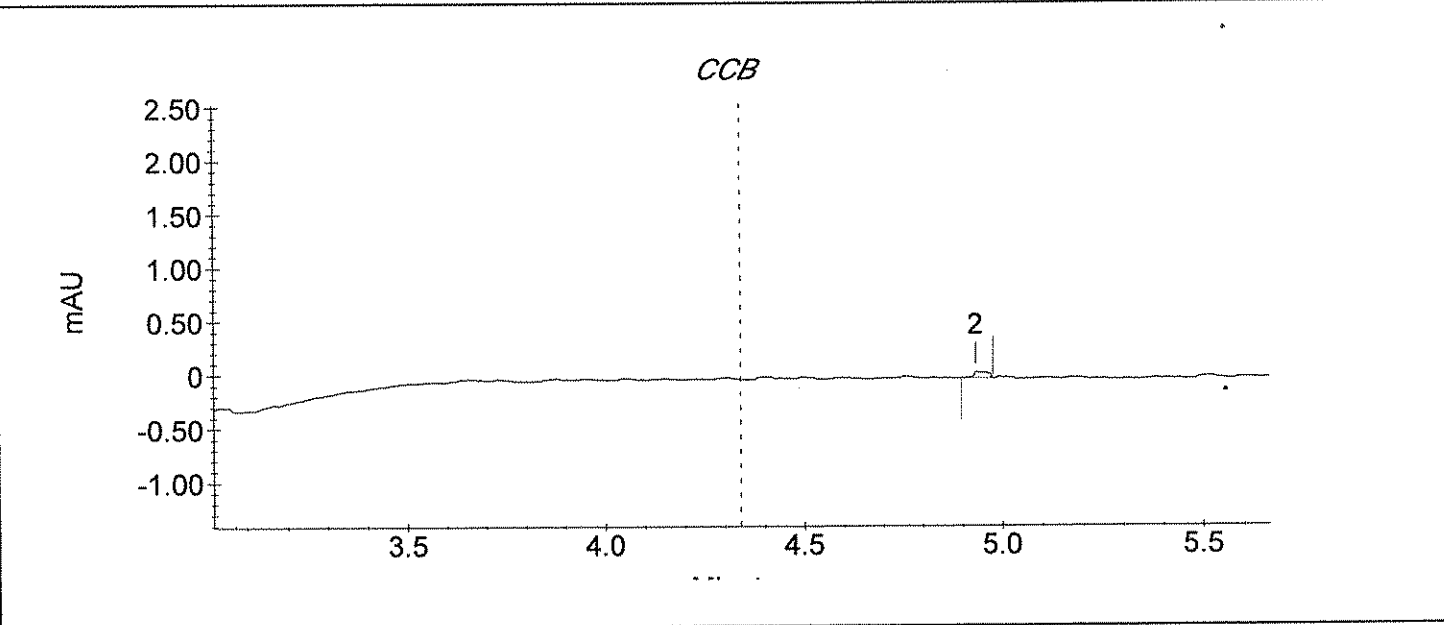
System Operator : YZ/W18

Dilution Factor : 1.00

Calibration Date : 5/1/07 12:27:33

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9066	1053
2		4.93	0.00	142	56



MANUAL INTEGRATION CODES	
1 Poor Peak Shape	5 Column Bleed
2 Poor Peak Resolution	6 Instrument Noise
3 Peak Not Integrated	7 Poor Baseline
4 Sample Matrix Interf.	8 Other
Initials: <u>X</u>	Date: <u>5/18/07</u>



# STL Los Angeles Cr VI Sample Analysis Report

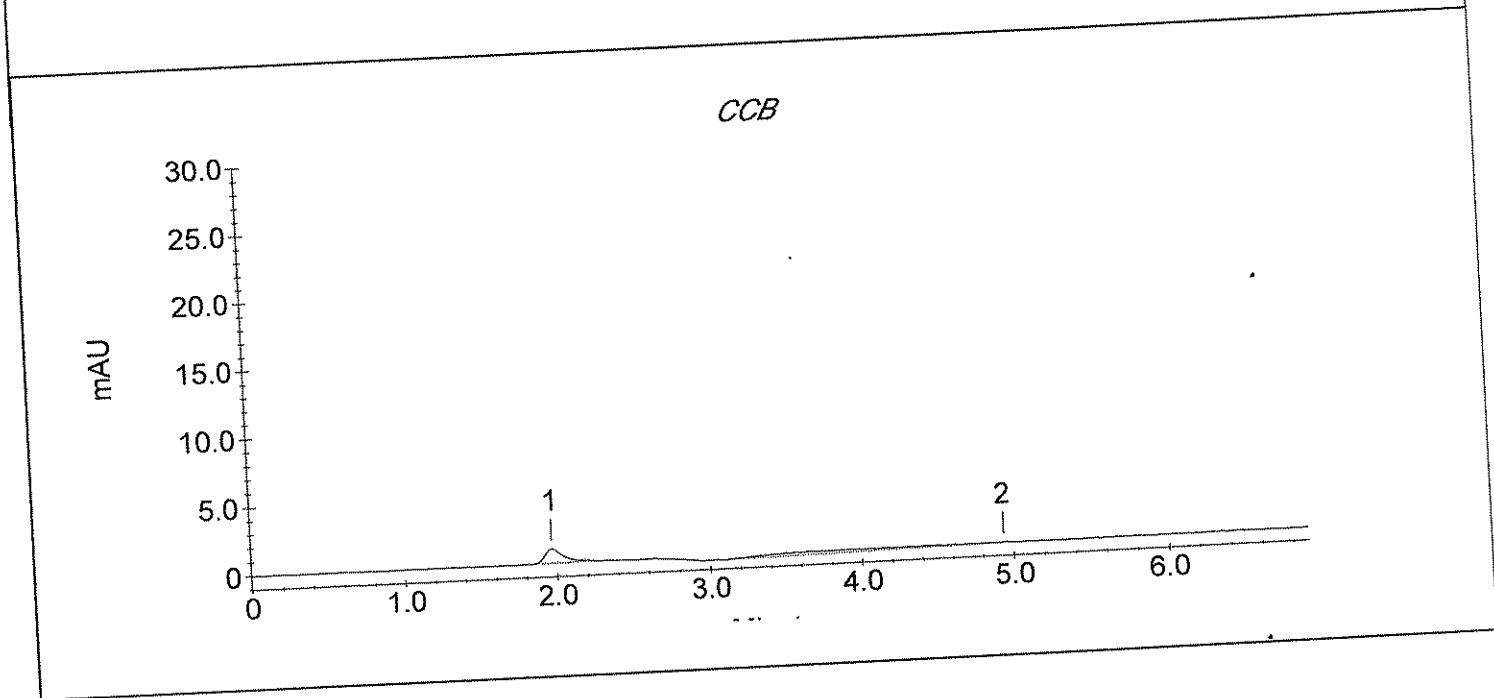
Sample Name : CCB  
 Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_040.DXD

Method File Name : ...crvi 050107a.met  
 Date Time Collected : 5/12/07 14:59:16  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 40  
 Dilution Factor : 1.00

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9066	1053
2	CRVI	4.93	0.42	13668	80



### STL Los Angeles Cr VI Sample Analysis Report

Sample Name : CCB

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CRVI051207\_040.DXD

Method File Name : ...\CRVI 050107A.met

Column Type : AS7-11445, NG1-19183

Date Time Collected : 5/12/07 14:59:16

Injection Number : 40

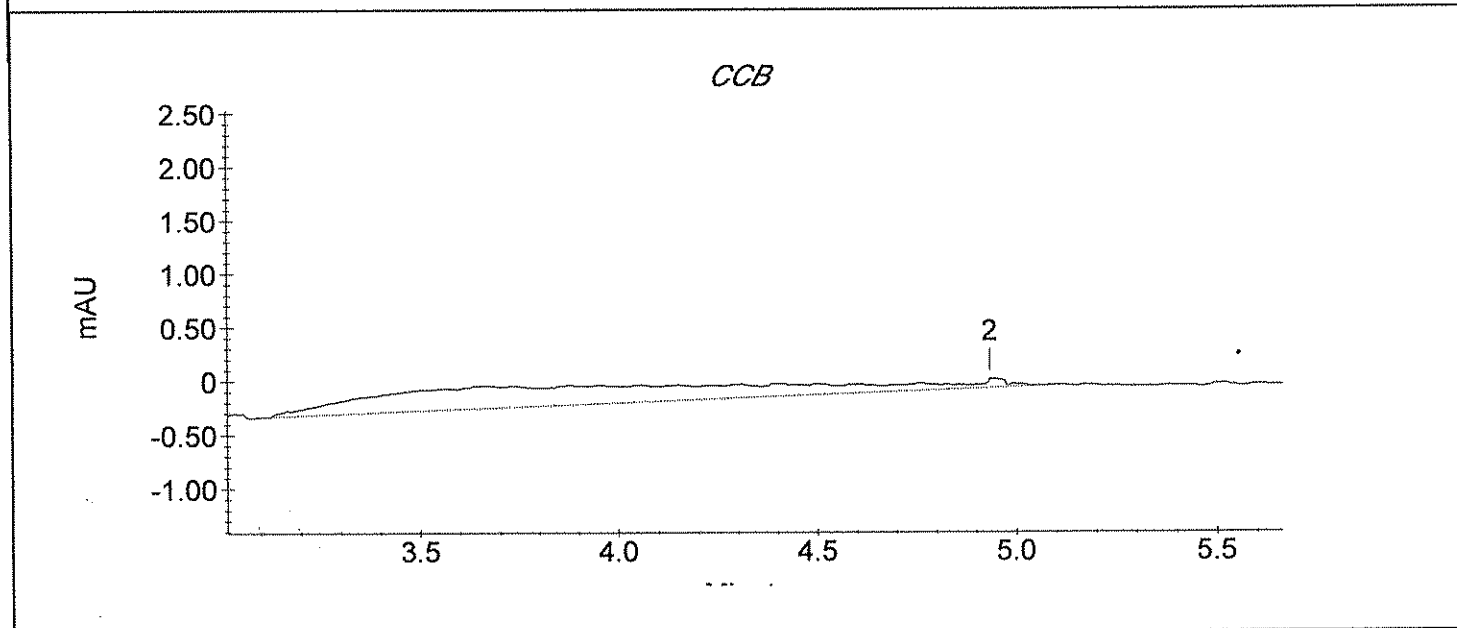
System Operator : YZ/W18

Dilution Factor : 1.00

Calibration Date : 5/1/07 12:27:33

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9066	1053
2	CRVI	4.93	0.42	13668	80



BY





## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : JW0F2

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_041.DXD

Method File Name : ... \CRVI 050107A.met

Date Time Collected : 5/12/07 15:08:43

System Operator : YZ/W18

Calibration Date : 5/1/07 12:27:33

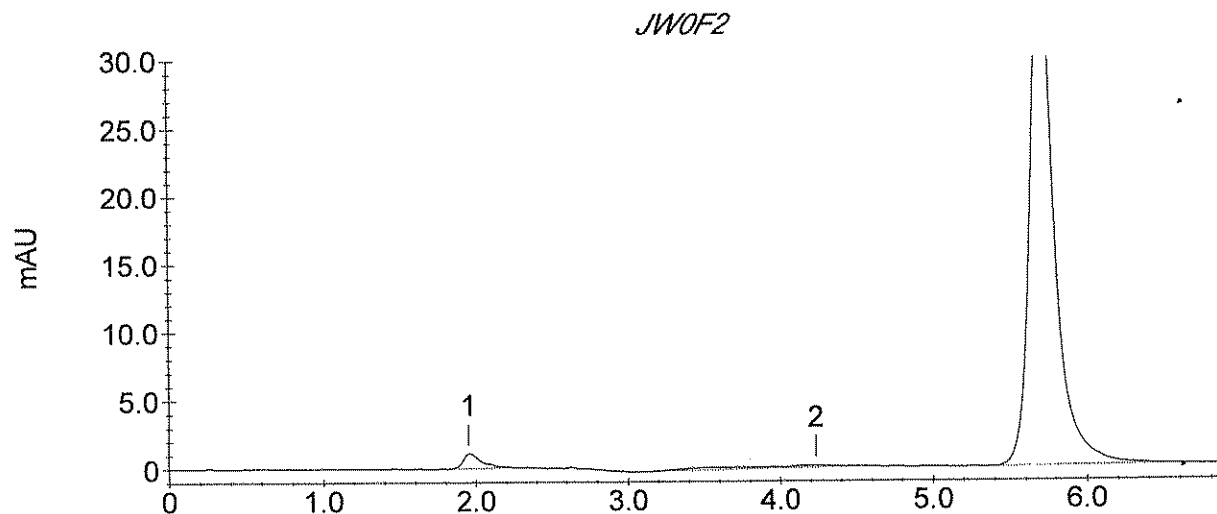
Column Type : AS7-11445, NG1-19183

Injection Number : 41

Dilution Factor : 5.00

## Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.95	0.00	9494	1058
2		4.23	0.00	8319	145
3	CRVI	5.72	63.19	422086	39119



# STL Los Angeles Cr VI Sample Analysis Report

Sample Name : M97-F

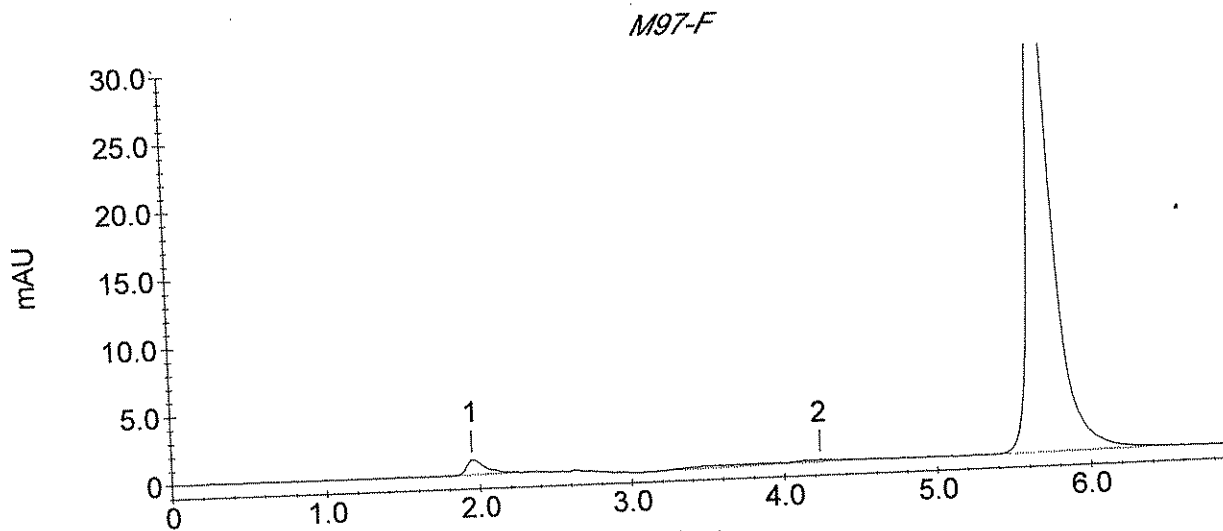
Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_041.DXD

Method File Name : ...crvi 050107a.met  
 Date Time Collected : 5/12/07 15:08:43  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 41  
 Dilution Factor : 5.00

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.95	0.00	9494	1058
2		4.23	0.00	8319	145
3	CRVI	5.72	63.19	422086	39119



## STL Los Angeles Cr VI Sample Analysis Report

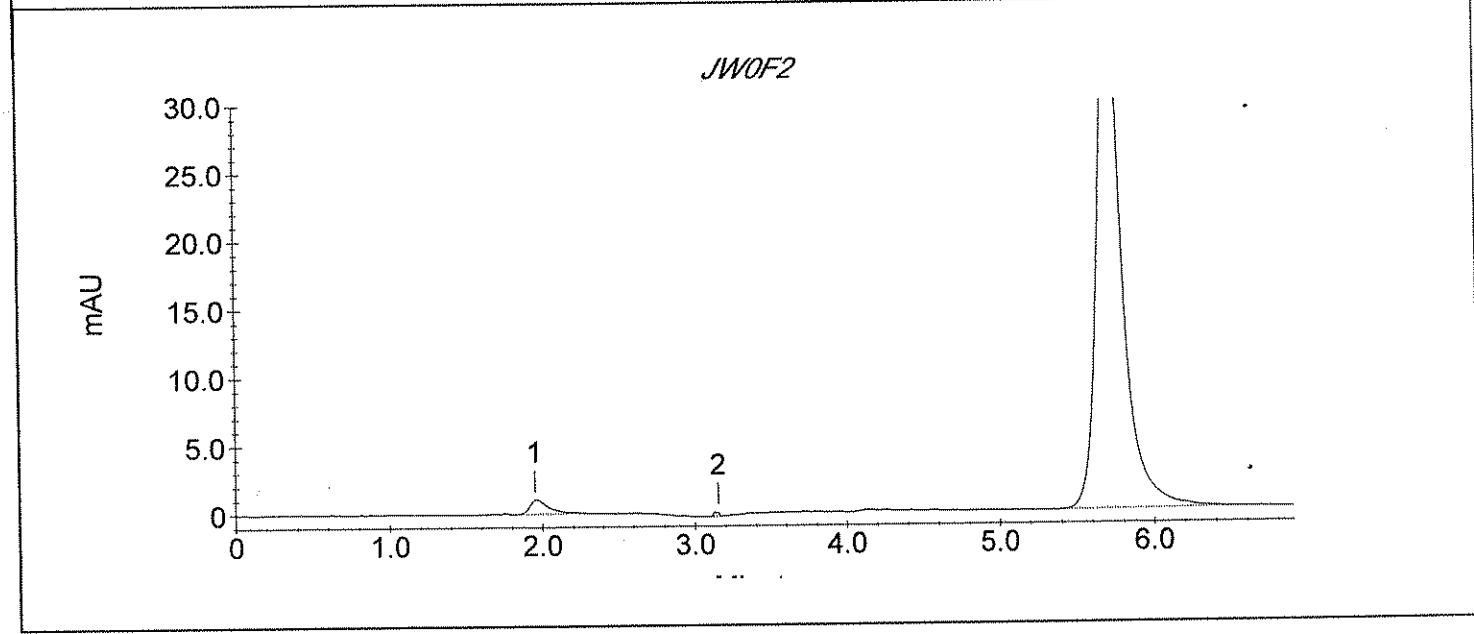
Sample Name : JW0F2

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_042.DXD

Method File Name : ...\CRVI 050107A.met  
 Date Time Collected : 5/12/07 15:18:10  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 42  
 Dilution Factor : 5.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.95	0.00	9208	1005
2		3.15	0.00	655	259
3	CRVI	5.72	65.06	434616	40242



## STL Los Angeles Cr VI Sample Analysis Report

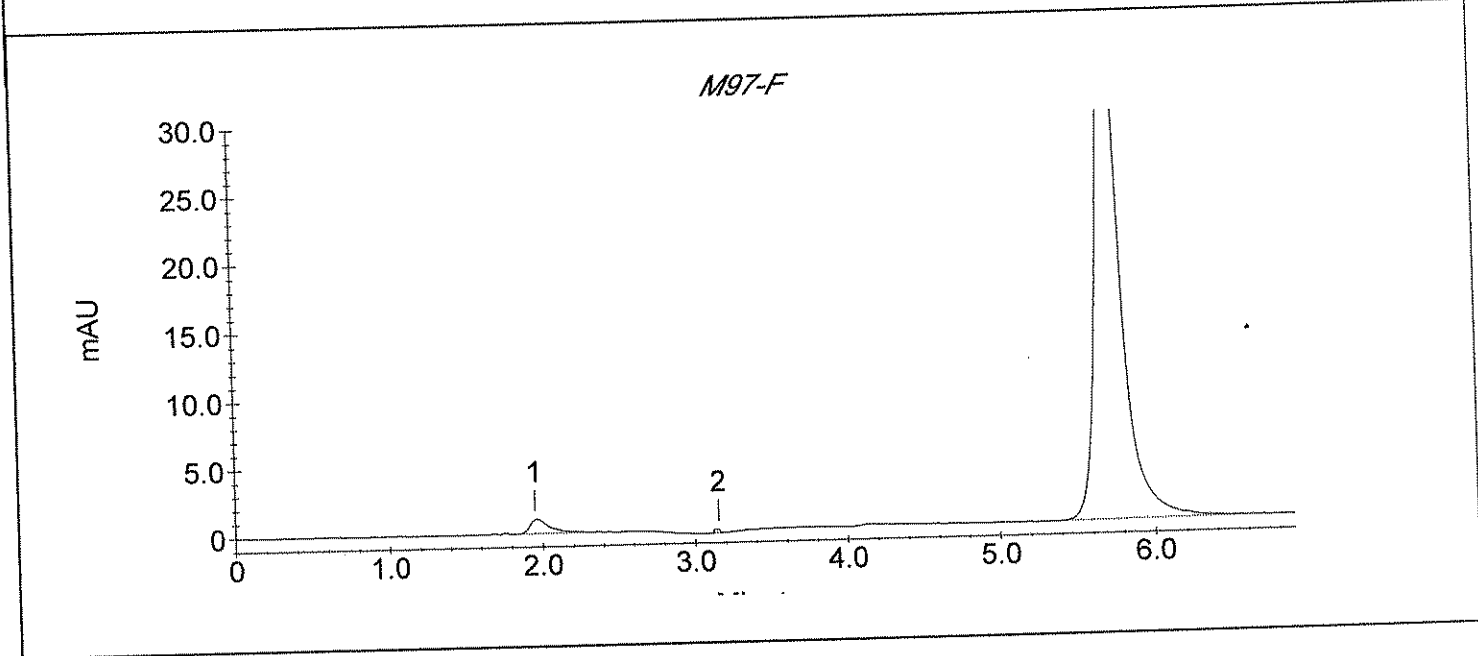
Sample Name : M97-F

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_042.DXD

Method File Name : ...\crvi 050107a.met  
 Date Time Collected : 5/12/07 15:18:10  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 42  
 Dilution Factor : 5.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.95	0.00	9208	1005
2		3.15	0.00	655	259
3	CRVI	5.72	65.06	434616	40242



## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : JWOF4

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_043.DXD

Method File Name : ...\CRVI 050107A.met

Column Type : AS7-11445, NG1-19183

Date Time Collected : 5/12/07 15:27:38

Injection Number : 43

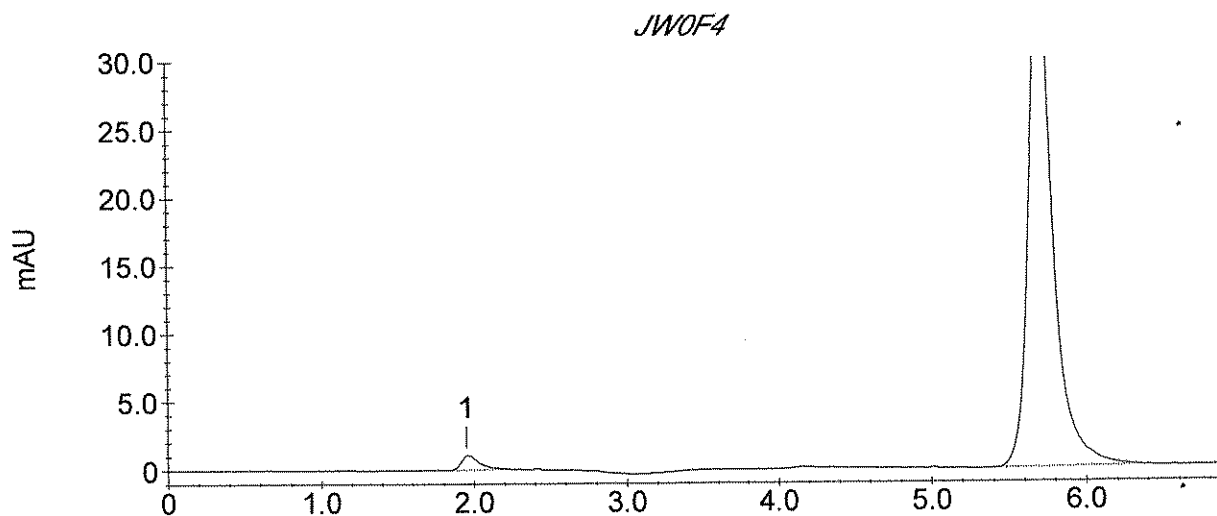
System Operator : YZ/W18

Dilution Factor : 5.00

Calibration Date : 5/1/07 12:27:33

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.95	0.00	8781	1006
2	CRVI	5.70	60.50	404137	36663



## STL Los Angeles Cr VI Sample Analysis Report

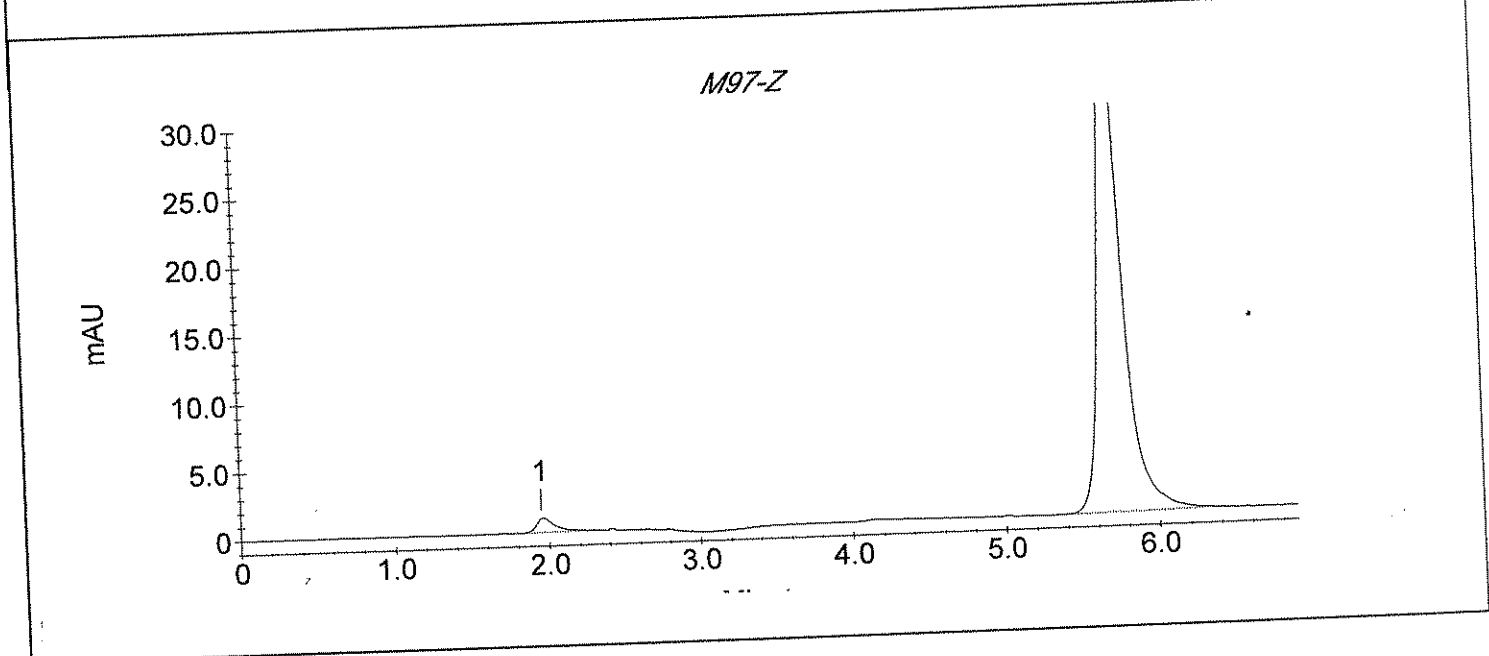
Sample Name : M97-Z

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_043.DXD

Method File Name : ...\crvi 050107a.met  
 Date Time Collected : 5/12/07 15:27:38  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 43  
 Dilution Factor : 5.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.95	0.00	8781	1006
2	CRVI	5.70	60.50	404137	36663



## STL Los Angeles Cr VI Sample Analysis Report

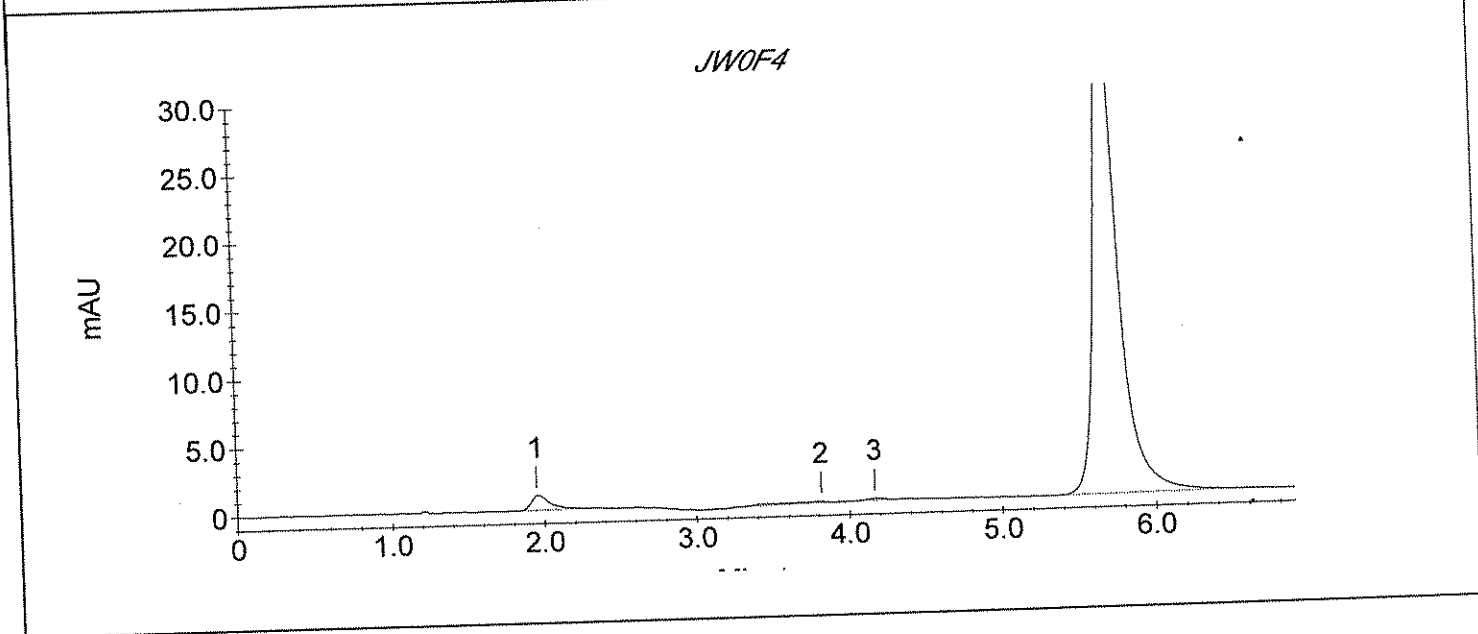
Sample Name : JW0F4

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_044.DXD

Method File Name : ... \CRVI 050107A.met  
 Date Time Collected : 5/12/07 15:37:06  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 44  
 Dilution Factor : 5.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.95	0.00	9120	1045
2		3.82	0.00	3106	118
3		4.17	0.00	1083	123
4	CRVI	5.70	60.50	404103	37390



## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : M97-Z

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_044.DXD

Method File Name : ...crvi 050107a.met

Date Time Collected : 5/12/07 15:37:06

System Operator : YZ/W18

Calibration Date : 5/1/07 12:27:33

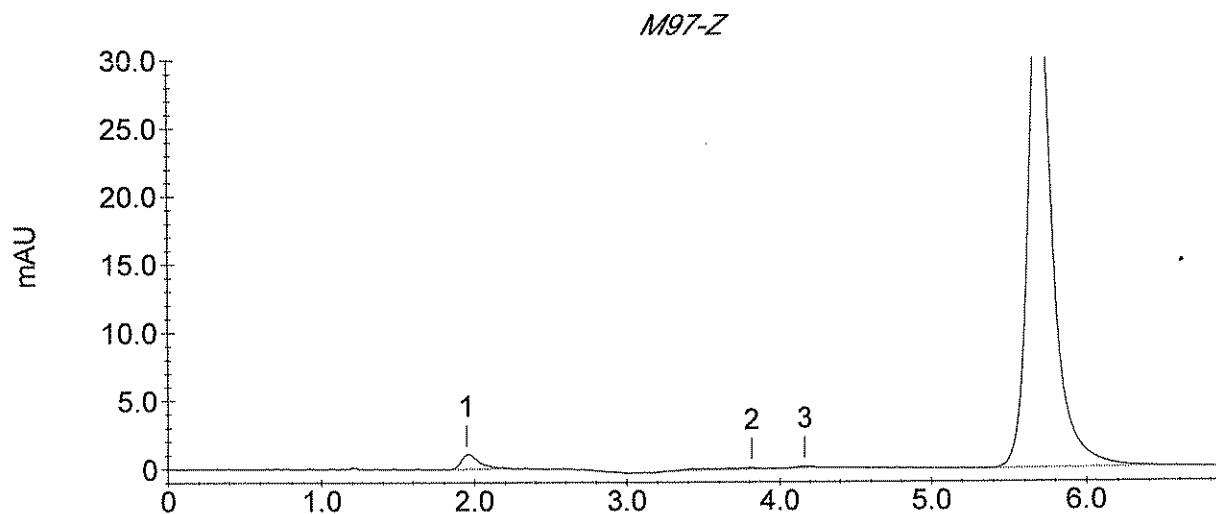
Column Type : AS7-11445, NG1-19183

Injection Number : 44

Dilution Factor : 5.00

## Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.95	0.00	9120	1045
2		3.82	0.00	3106	118
3		4.17	0.00	1083	123
4	CRVI	5.70	60.50	404103	37390





# STL Los Angeles Cr VI Sample Analysis Report

Sample Name : JW0GA

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_045.DXD

Method File Name : ...CRVI 050107A.met

Date Time Collected : 5/12/07 15:46:33

System Operator : YZ/W18

Calibration Date : 5/1/07 12:27:33

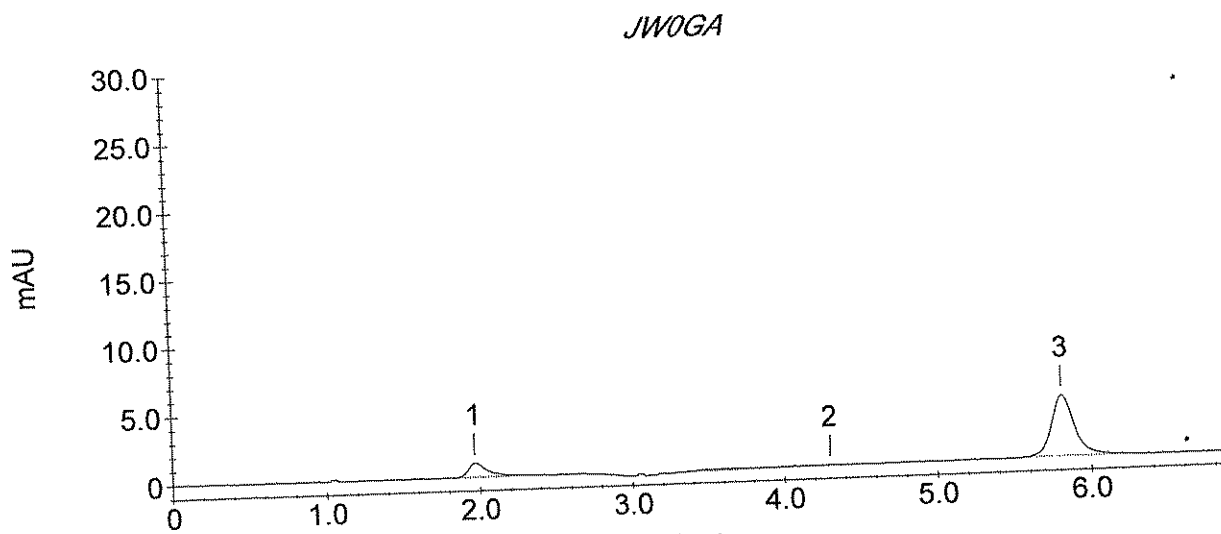
Column Type : AS7-11445, NG1-19183

Injection Number : 45

Dilution Factor : 1.00

### Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9395	1018
2		4.30	0.00	4896	65
3	CRVI	5.82	1.39	45931	4411



## STL Los Angeles Cr VI Sample Analysis Report

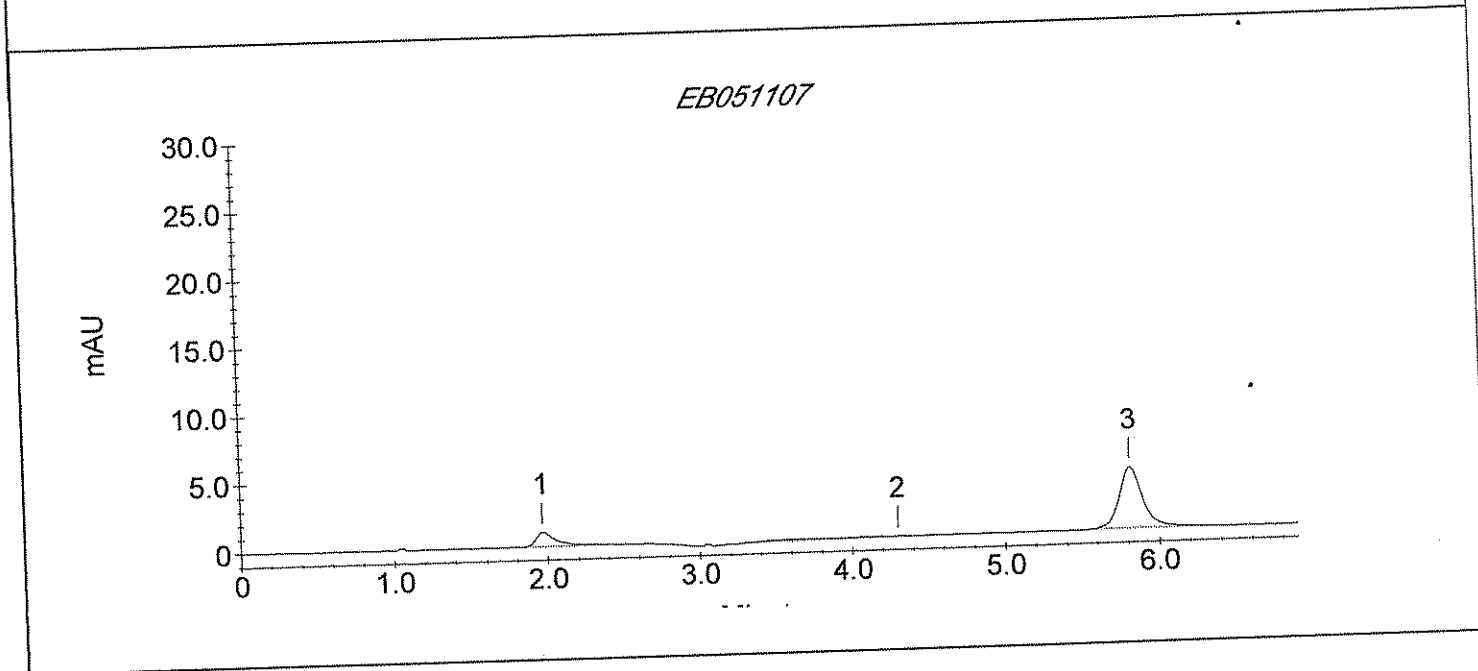
Sample Name : EB051107

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_045.DXD

Method File Name : ...\crvi 050107a.met  
 Date Time Collected : 5/12/07 15:46:33  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 45  
 Dilution Factor : 1.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9395	1018
2		4.30	0.00	4896	65
3	CRVI	5.82	1.39	45931	4411



## STL Los Angeles Cr VI Sample Analysis Report

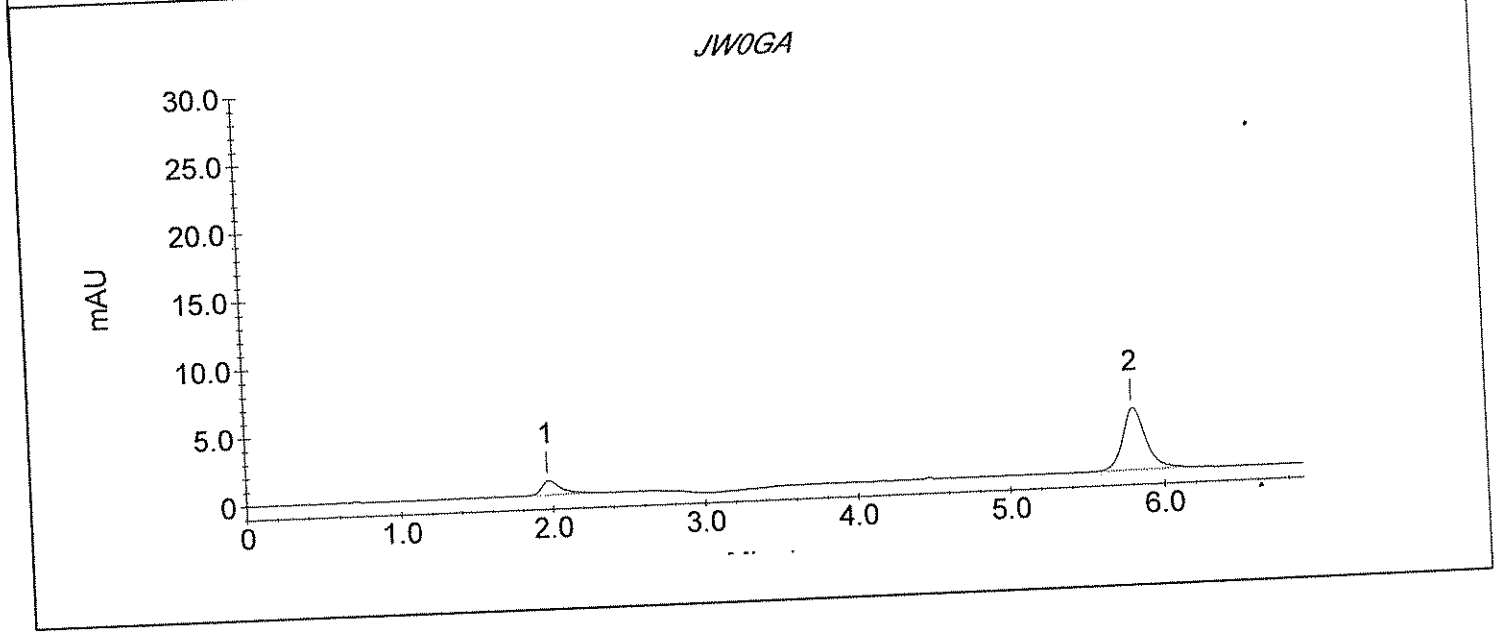
Sample Name : JW0GA

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_046.DXD

Method File Name : ...CRVI 050107A.met  
 Date Time Collected : 5/12/07 15:56:01  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 46  
 Dilution Factor : 1.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9336	996
2	CRVI	5.80	1.42	46914	4483



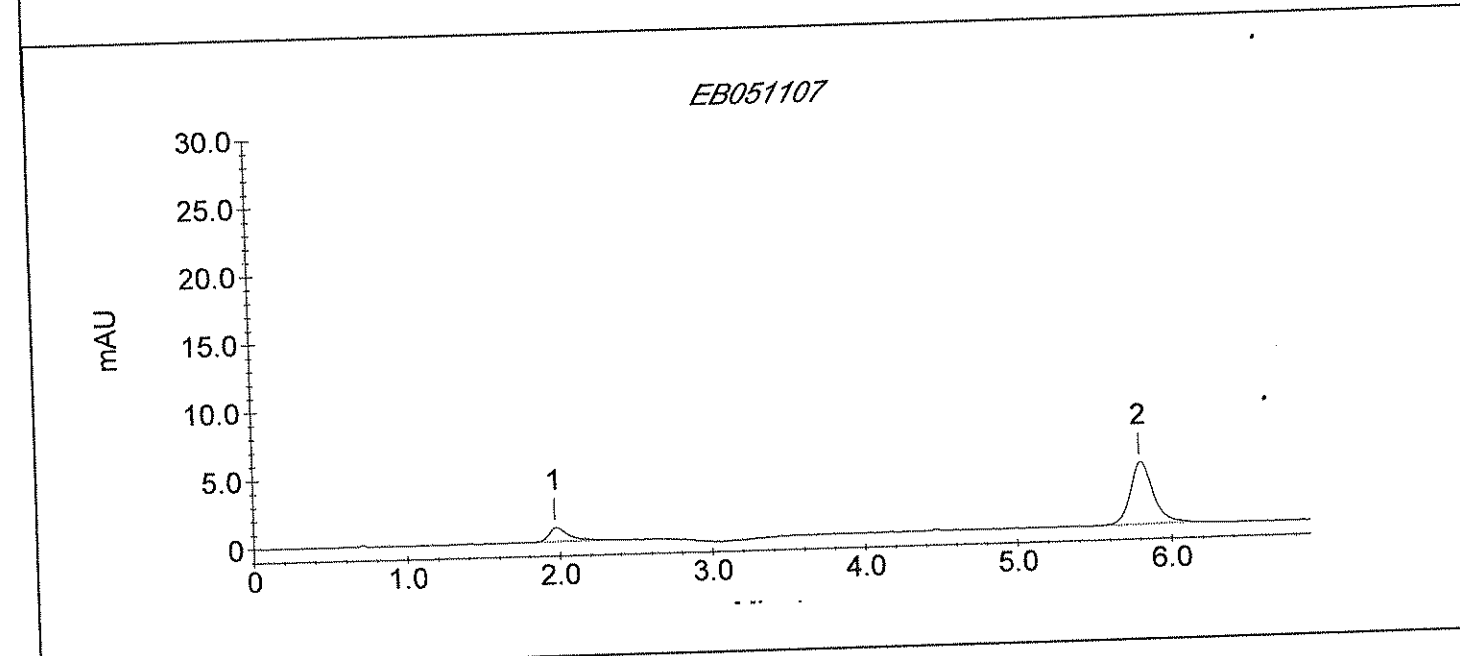
## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : EB051107

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_046.DXD

Method File Name : ...\crvi 050107a.met	Column Type : AS7-11445, NG1-19183
Date Time Collected : 5/12/07 15:56:01	Injection Number : 46
System Operator : YZ/W18	Dilution Factor : 1.00
Calibration Date : 5/1/07 12:27:33	

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9336	996
2	CRVI	5.80	1.42	46914	4483



# STL Los Angeles Cr VI Sample Analysis Report

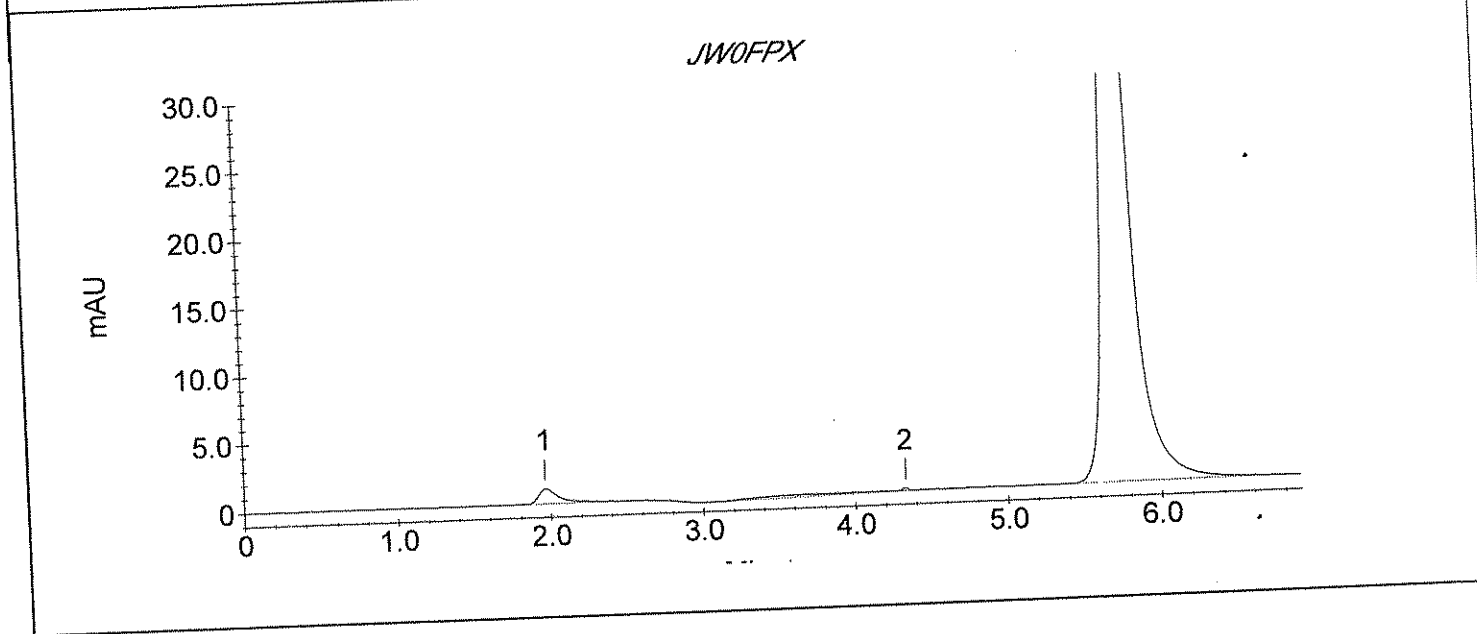
Sample Name : JW0FPX

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_047.DXD

Method File Name : ...\CRVI 050107A.met  
 Date Time Collected : 5/12/07 16:05:28  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 47  
 Dilution Factor : 125.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	10329	1095
2		4.33	0.00	8039	188
3	CRVI	5.75	2519.51	673465	63910



## STL Los Angeles Cr VI Sample Analysis Report

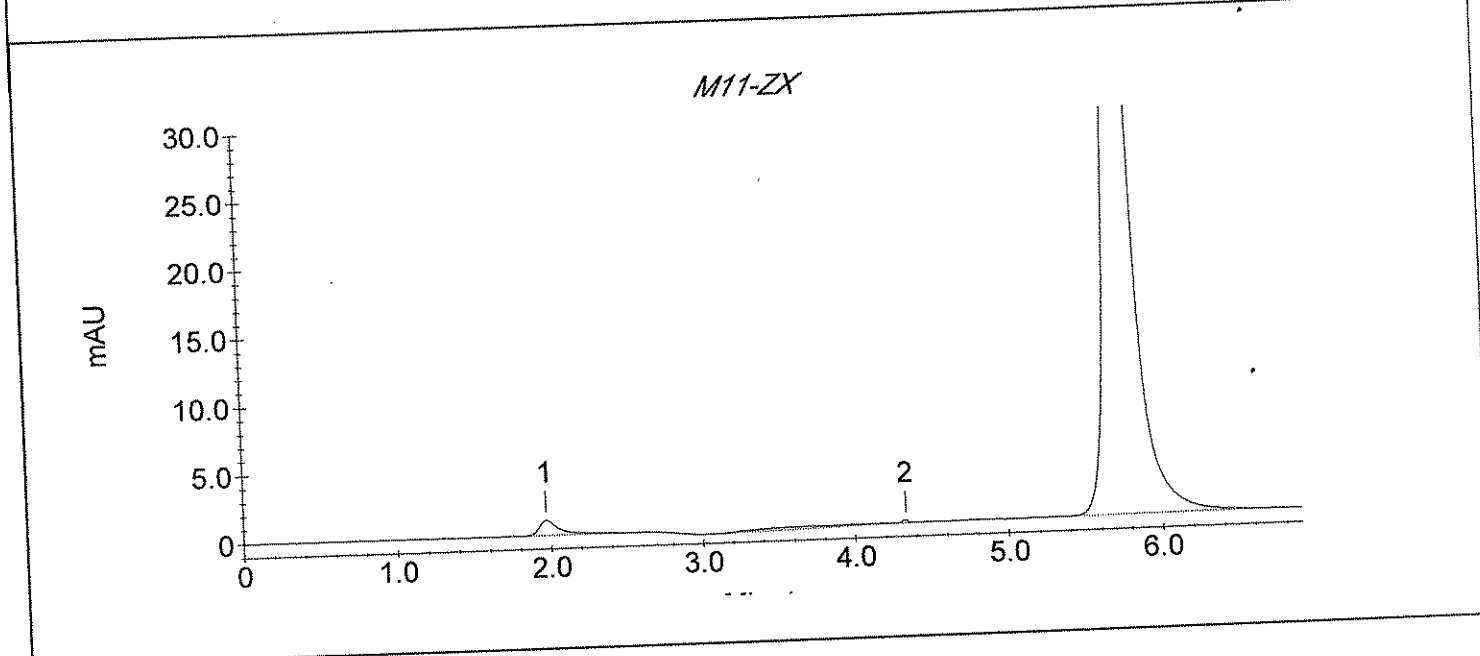
Sample Name : M11-ZX

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_047.DXD

Method File Name : ...\crvi 050107a.met  
 Date Time Collected : 5/12/07 16:05:28  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 47  
 Dilution Factor : 125.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	10329	1095
2		4.33	0.00	8039	188
3	CRVI	5.75	2519.51	673465	63910



## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : JW0FPX

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_048.DXD

Method File Name : ... \CRVI 050107A.met

Column Type : AS7-11445, NG1-19183

Date Time Collected : 5/12/07 16:14:56

Injection Number : 48

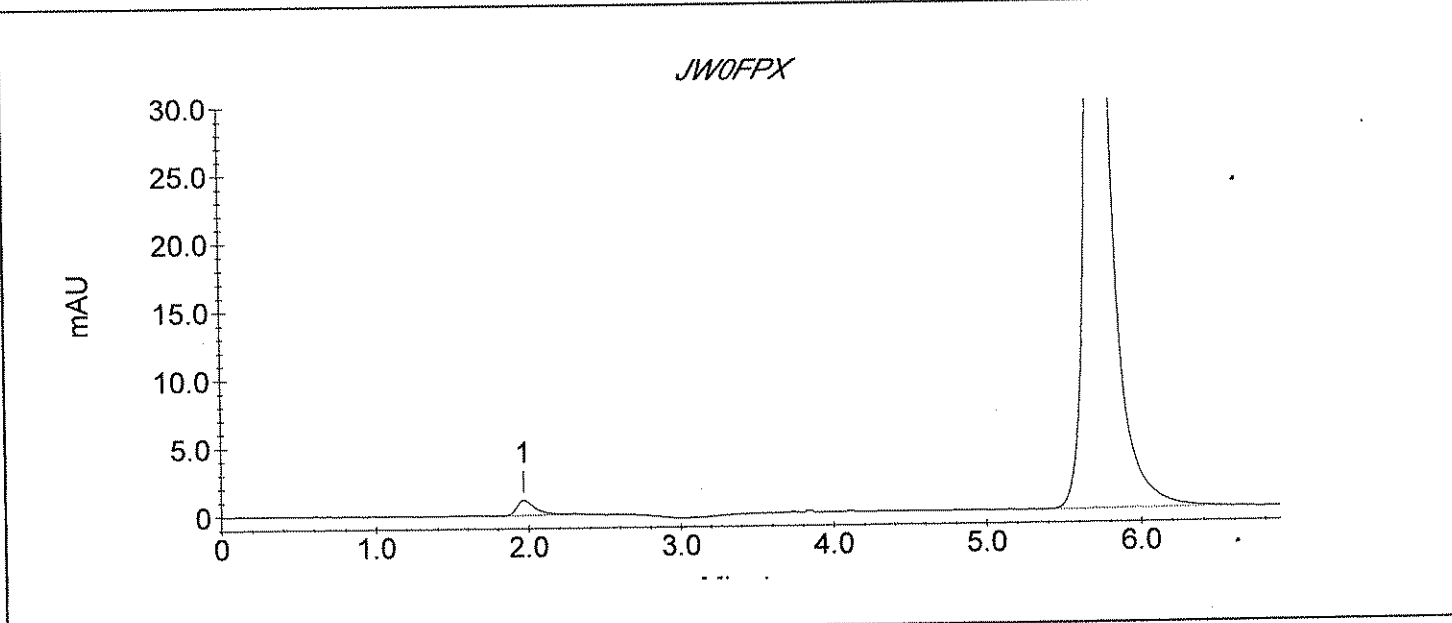
System Operator : YZ/W18

Dilution Factor : 125.00

Calibration Date : 5/1/07 12:27:33

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9779	1092
2	CRVI	5.73	2516.40	672631	63721



# STL Los Angeles Cr VI Sample Analysis Report

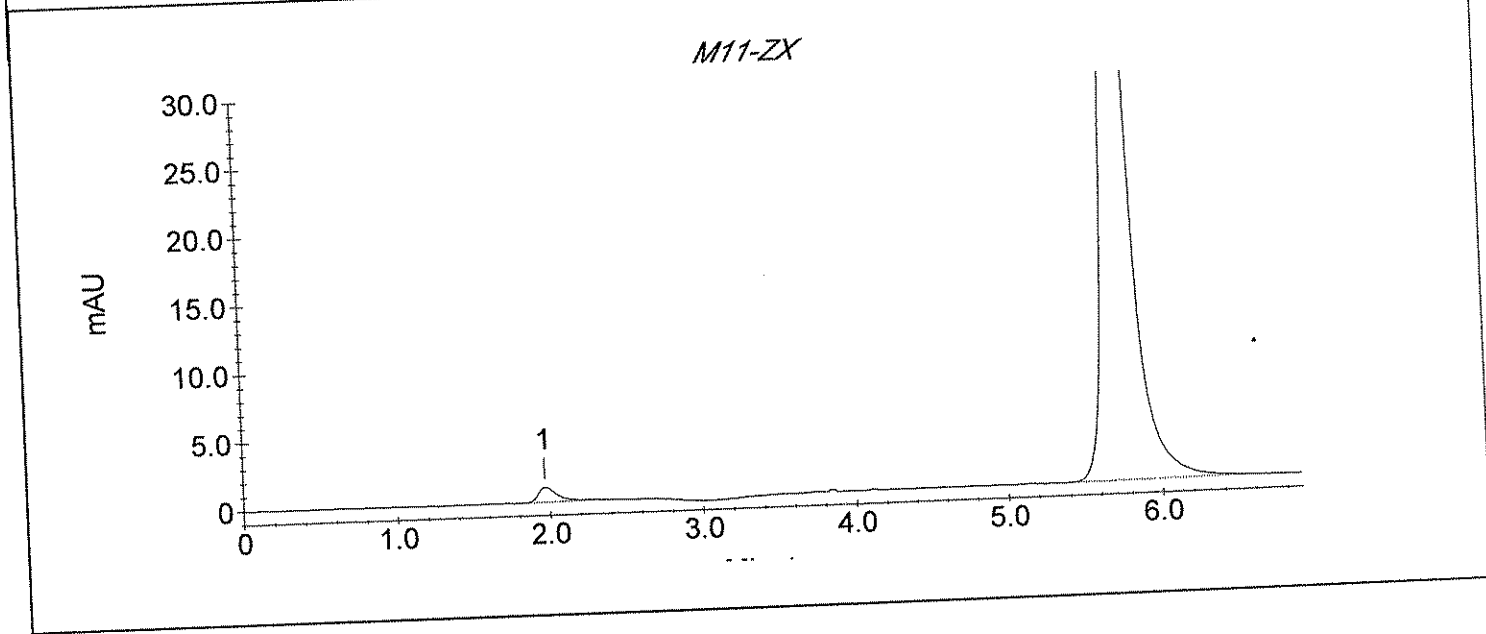
Sample Name : M11-ZX

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_048.DXD

Method File Name : ...crvi 050107a.met  
Date Time Collected : 5/12/07 16:14:56  
System Operator : YZ/W18  
Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
Injection Number : 48  
Dilution Factor : 125.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9779	1092
2	CRVI	5.73	2516.40	672631	63721





## STL Los Angeles Cr VI Sample Analysis Report

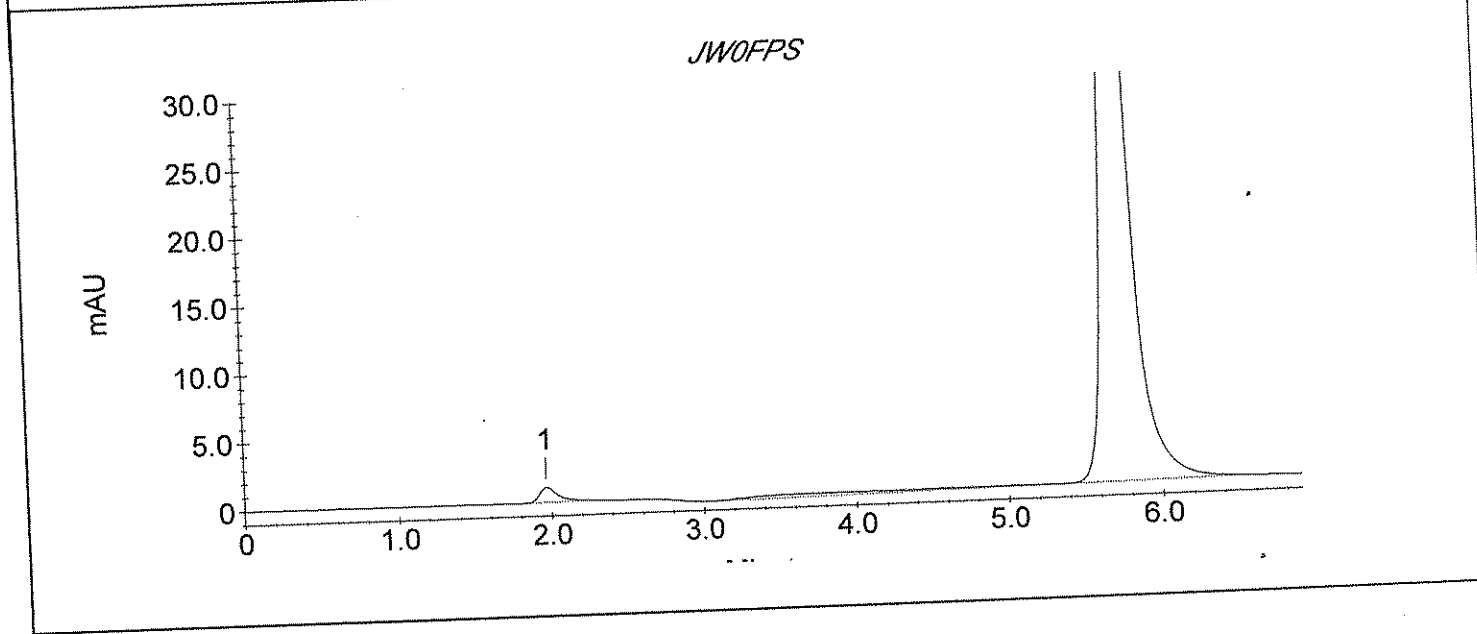
Sample Name : JW0FPS

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_049.DXD

Method File Name : ...\CRVI 050107A.met  
 Date Time Collected : 5/12/07 16:24:17  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 49  
 Dilution Factor : 200.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9257	1095
2	CRVI	5.73	4405.63	736057	68581



# STL Los Angeles Cr VI Sample Analysis Report

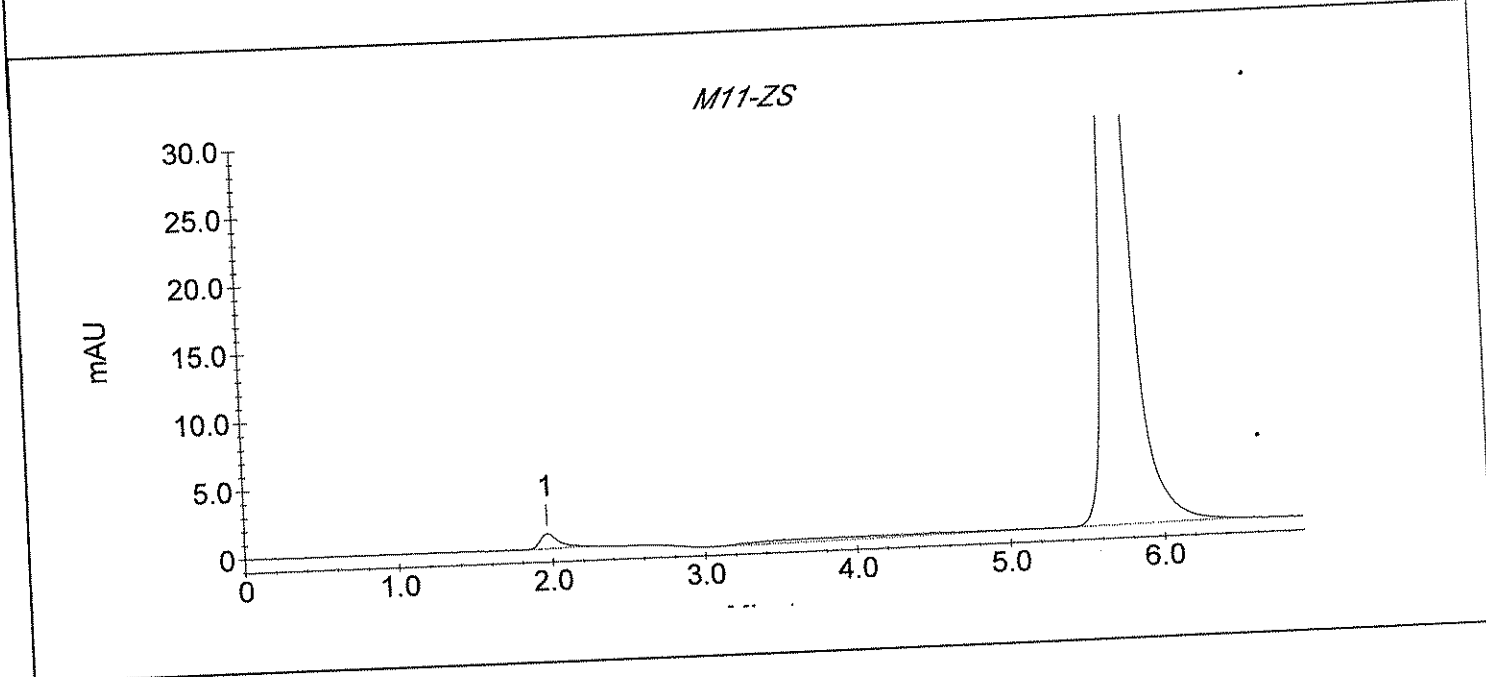
Sample Name : M11-ZS

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_049.DXD

Method File Name : ...\crvi 050107a.met  
Date Time Collected : 5/12/07 16:24:17  
System Operator : YZ/W18  
Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
Injection Number : 49  
Dilution Factor : 200.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9257	1095
2	CRVI	5.73	4405.63	736057	68581



# STL Los Angeles Cr VI Sample Analysis Report

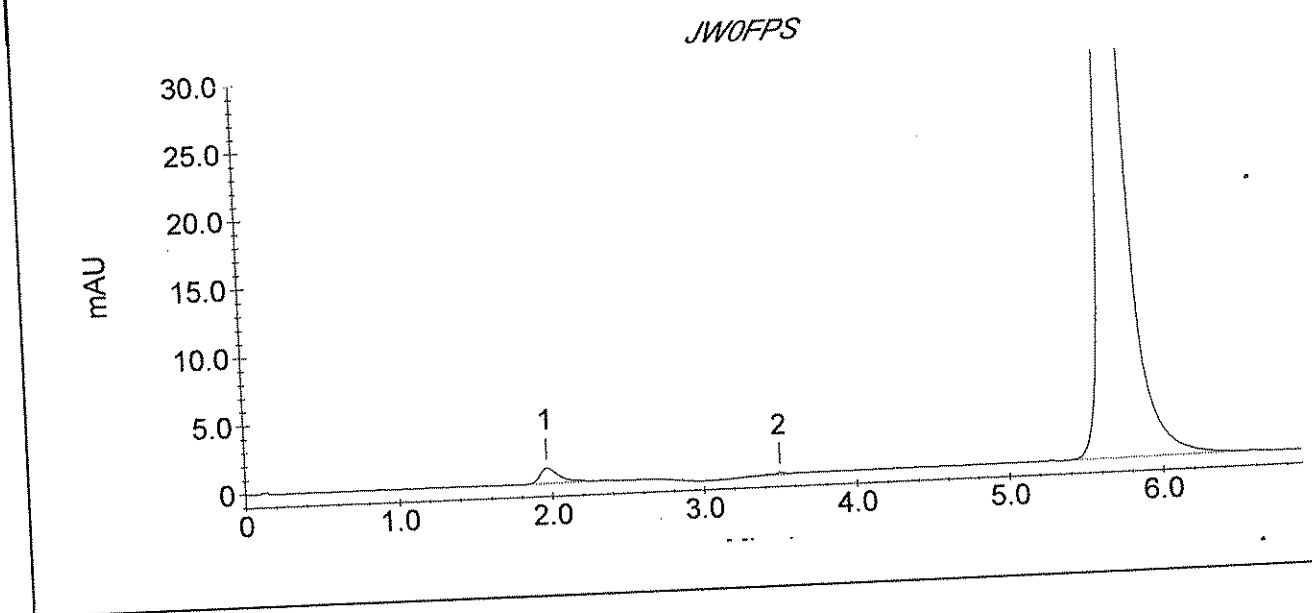
Sample Name : JW0FPS

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_050.DXD

Method File Name : ...\CRVI 050107A.met  
 Date Time Collected : 5/12/07 16:33:44  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 50  
 Dilution Factor : 200.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9734	1131
2		3.50	0.00	1981	174
3	CRVI	5.72	4231.59	706961	67645



# STL Los Angeles Cr VI Sample Analysis Report

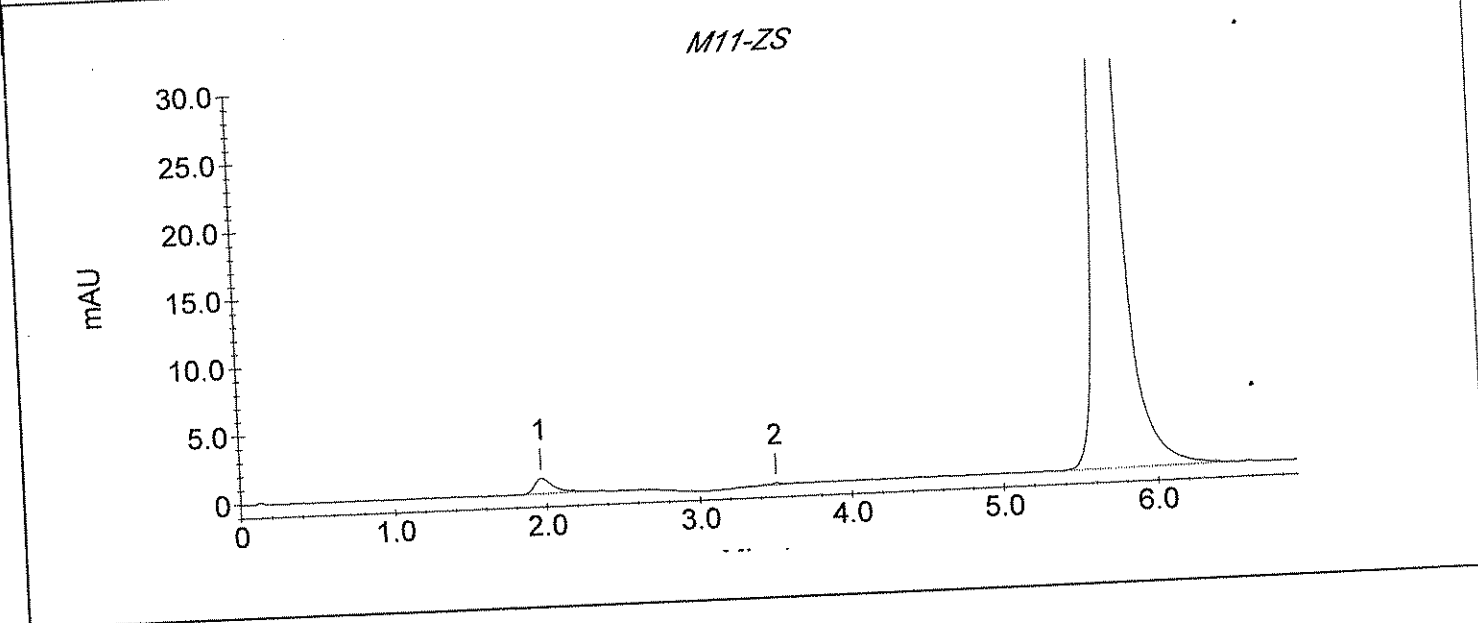
Sample Name : M11-ZS

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_050.DXD

Method File Name : ...\crvi 050107a.met  
 Date Time Collected : 5/12/07 16:33:44  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 50  
 Dilution Factor : 200.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9734	1131
2		3.50	0.00	1981	174
3	CRVI	5.72	4231.59	706961	67645



# STL Los Angeles Cr VI Sample Analysis Report

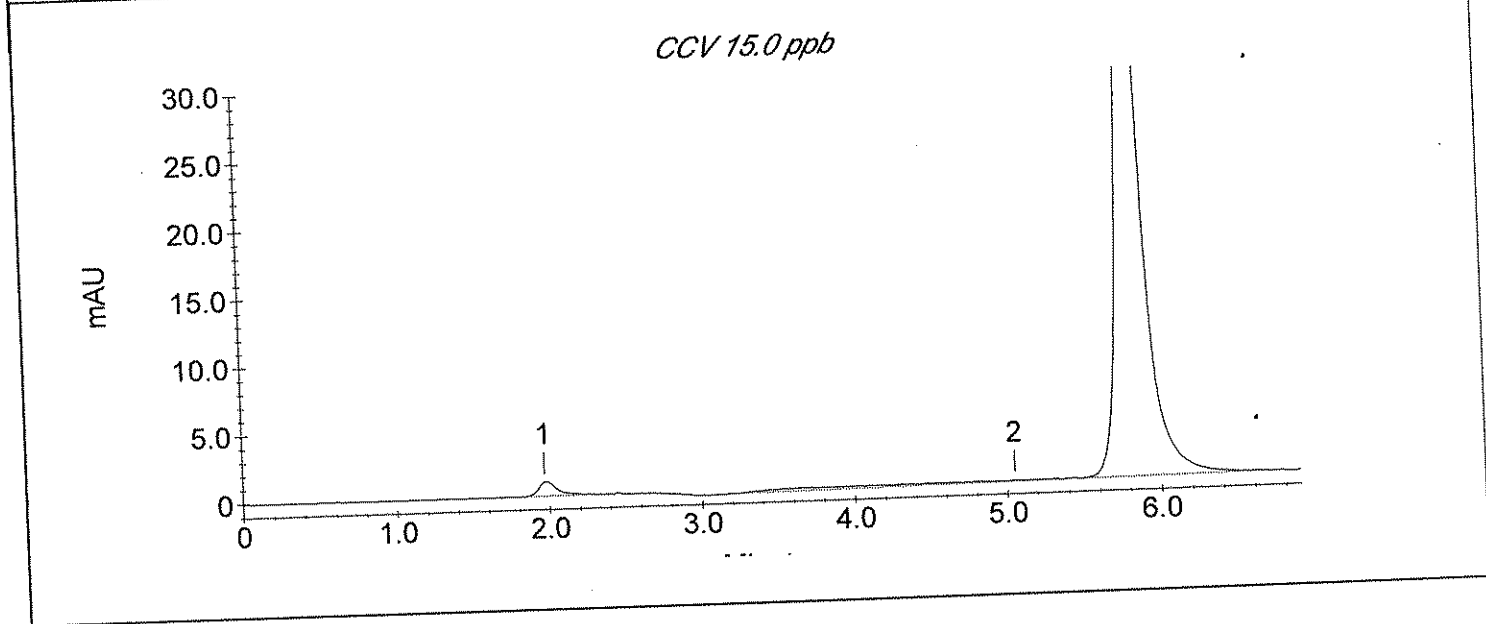
Sample Name : CCV 15.0 ppb

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_051.DXD

Method File Name : ...crvi 050107a.met  
 Date Time Collected : 5/12/07 16:43:11  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 51  
 Dilution Factor : 1.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9009	1021
2		5.05	0.00	14976	99
3	CRVI	5.82	15.43	515418	47226



# STL Los Angeles Cr VI Sample Analysis Report

Sample Name : CCB

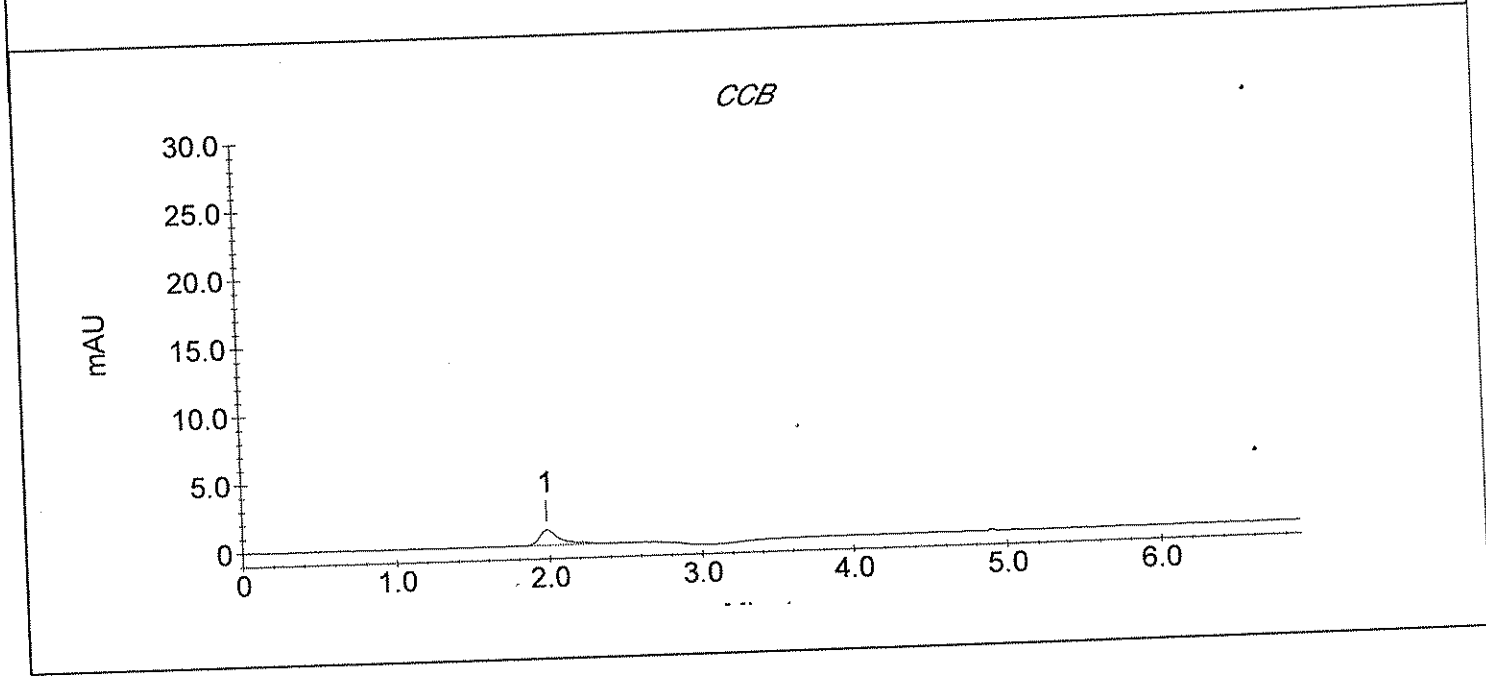
Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_052.DXD

Method File Name : ...crvi 050107a.met  
Date Time Collected : 5/12/07 16:52:38  
System Operator : YZ/W18  
Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
Injection Number : 52  
Dilution Factor : 1.00

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.98	0.00	10855	1115



## STL Los Angeles Cr VI Sample Analysis Report

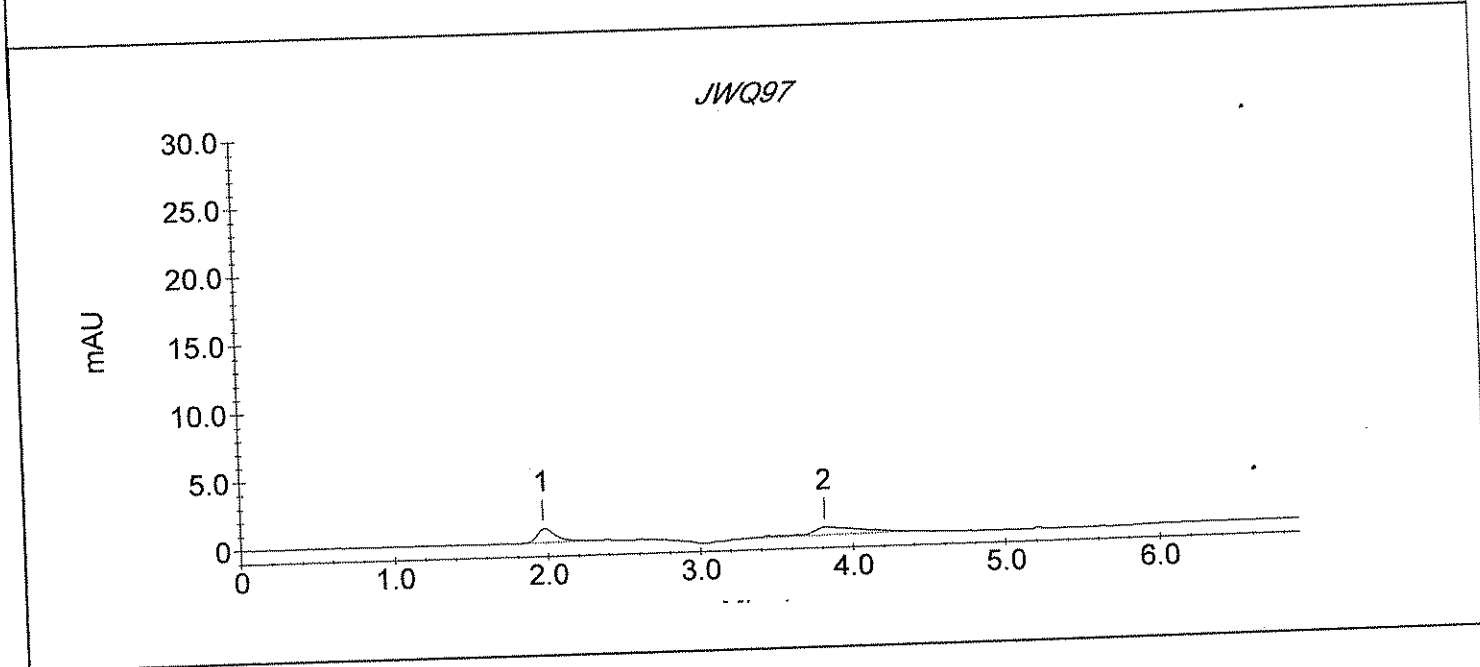
Sample Name : JWQ97

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_053.DXD

Method File Name : ...\crvi 050107a.met  
 Date Time Collected : 5/12/07 17:02:05  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 53  
 Dilution Factor : 5.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	8878	989
2		3.82	0.00	13492	571



## STL Los Angeles Cr VI Sample Analysis Report

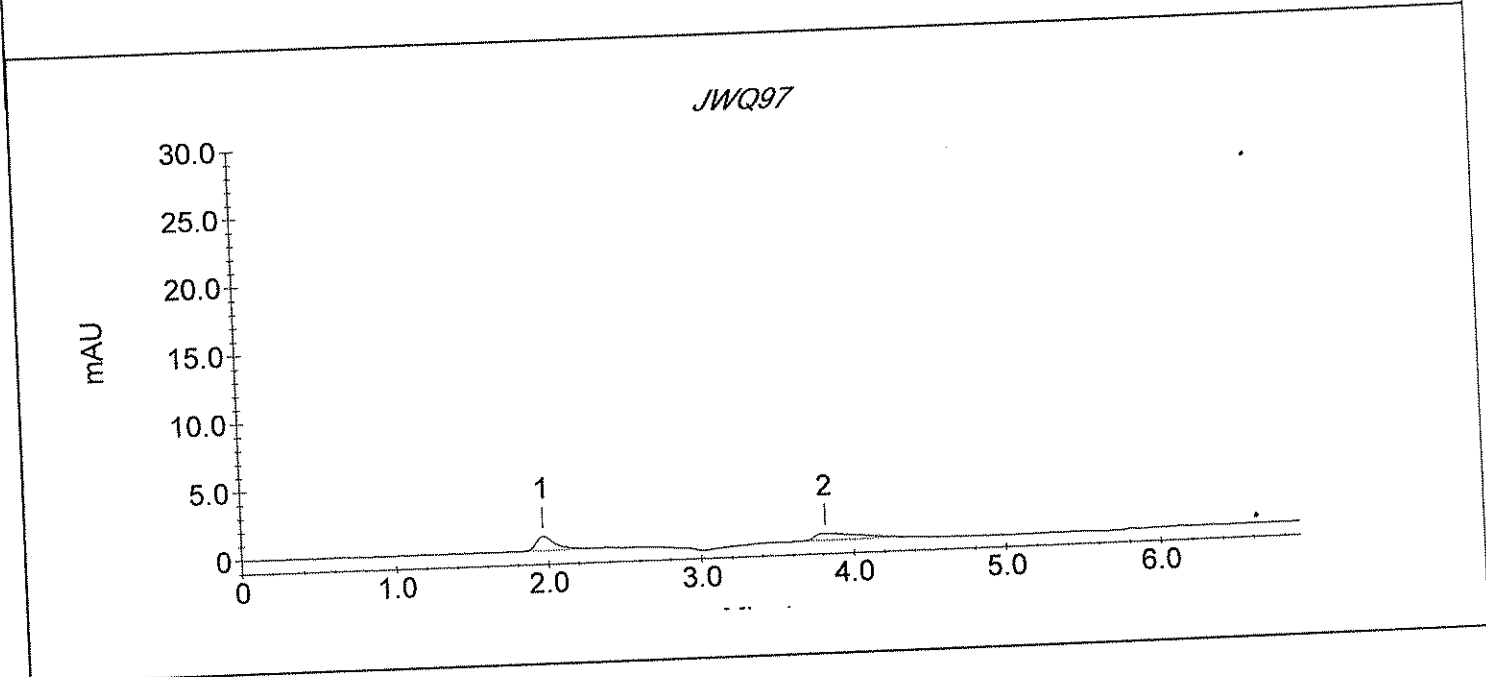
Sample Name : JWQ97

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_054.DXD

Method File Name : ...\crvi 050107a.met  
 Date Time Collected : 5/12/07 17:11:32  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 54  
 Dilution Factor : 5.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	8788	1023
2		3.82	0.00	10021	503





## STL Los Angeles Cr VI Sample Analysis Report

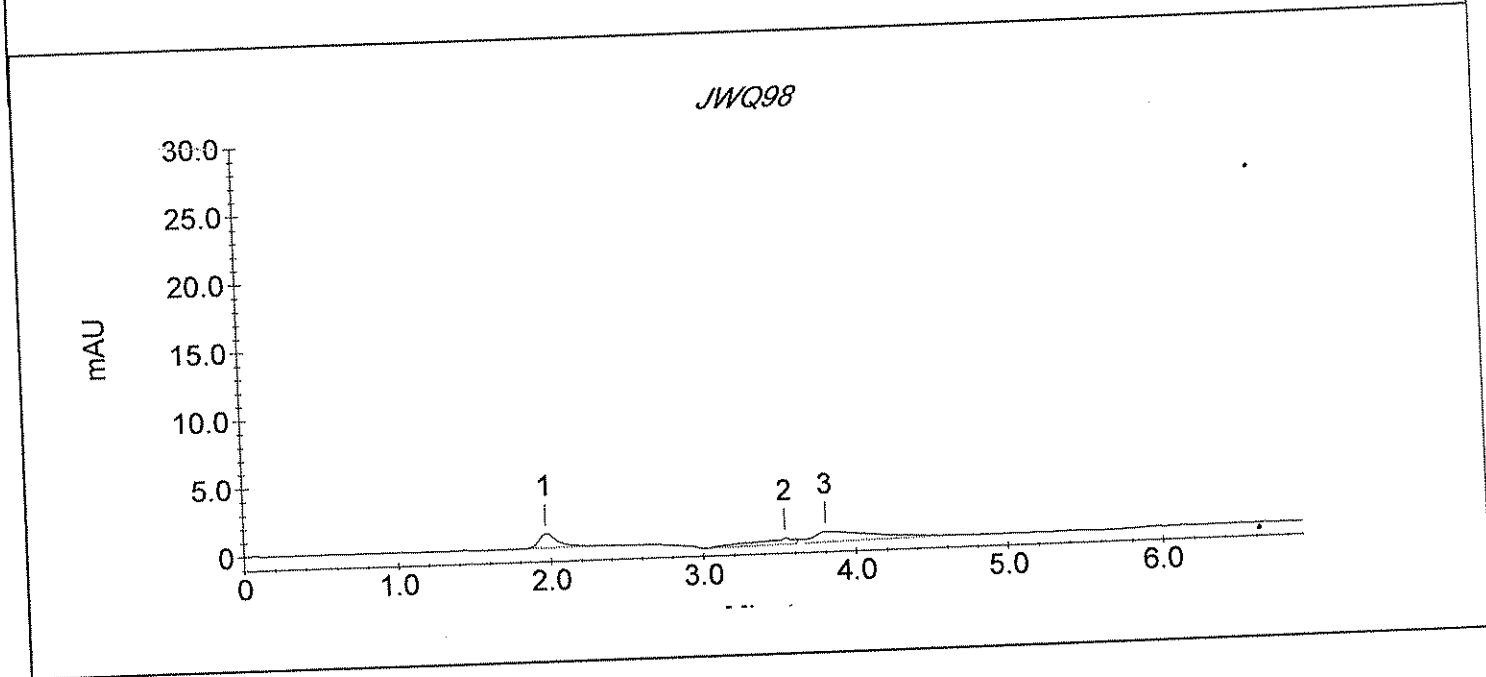
Sample Name : JWQ98

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_055.DXD

Method File Name : ...\crvi 050107a.met  
 Date Time Collected : 5/12/07 17:20:59  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 55  
 Dilution Factor : 5.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	8935	1024
2		3.53	0.00	8225	440
3		3.80	0.00	20682	761



# STL Los Angeles Cr VI Sample Analysis Report

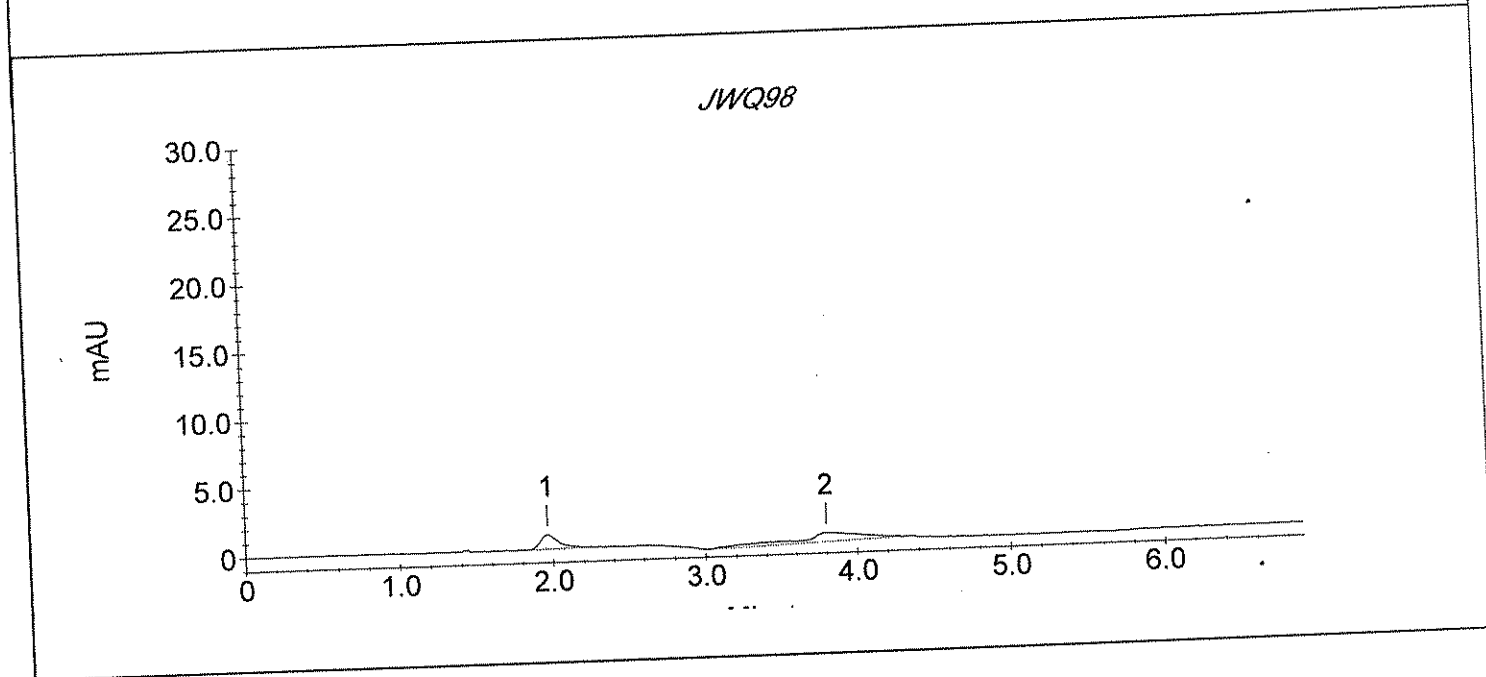
Sample Name : JWQ98

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_056.DXD

Method File Name : ...\crvi 050107a.met  
Date Time Collected : 5/12/07 17:30:26  
System Operator : YZ/W18  
Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
Injection Number : 56  
Dilution Factor : 5.00

Peak Information : All Peaks				
Peak #	Component	Retention Time	Amount (PPB)	Peak Height
1		1.97	0.00	8707
2		3.80	0.00	19663



## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : JWQ97 spkd 5 ppb

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_057.DXD

Method File Name : ...\crvi 050107a.met

Date Time Collected : 5/12/07 17:39:54

System Operator : YZ/W18

Calibration Date : 5/1/07 12:27:33

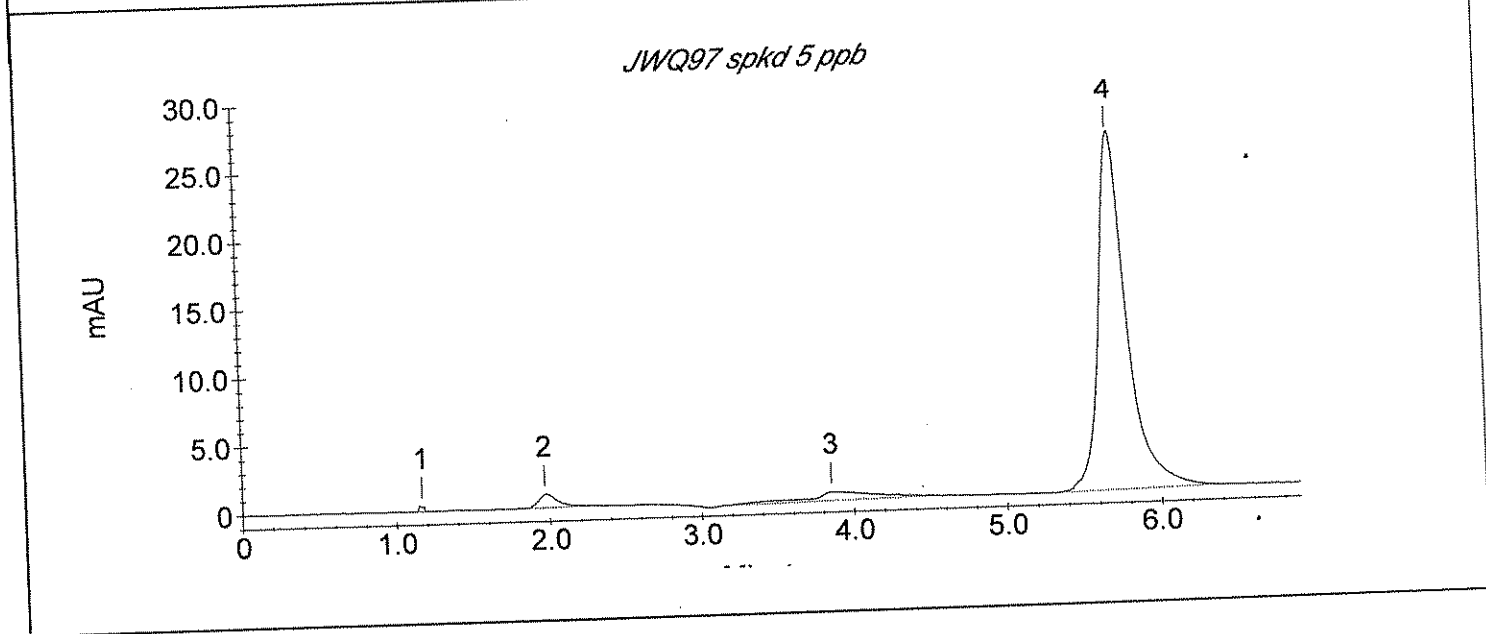
Column Type : AS7-11445, NG1-19183

Injection Number : 57

Dilution Factor : 5.00

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.17	0.00	950	353
2		1.97	0.00	8583	947
3		3.85	0.00	20196	631
4	CRVI	5.70	50.16	334970	25907



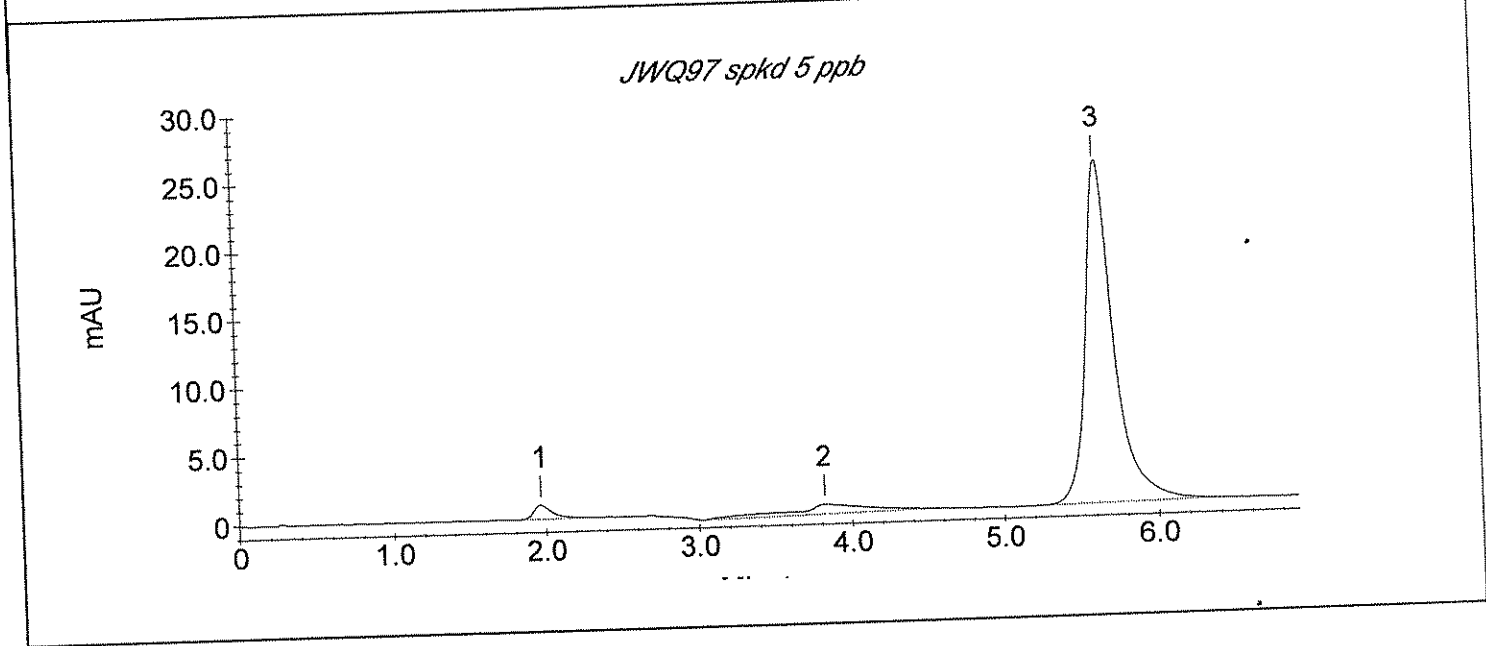
## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : JWQ97 spkd 5 ppb

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_058.DXD

Method File Name : ...\crvi 050107a.met	Column Type : AS7-11445, NG1-19183
Date Time Collected : 5/12/07 17:49:21	Injection Number : 58
System Operator : YZ/W18	Dilution Factor : 5.00
Calibration Date : 5/1/07 12:27:33	

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	8867	1021
2		3.82	0.00	26057	720
3	CRVI	5.63	47.71	318604	24775



# STL Los Angeles Cr VI Sample Analysis Report

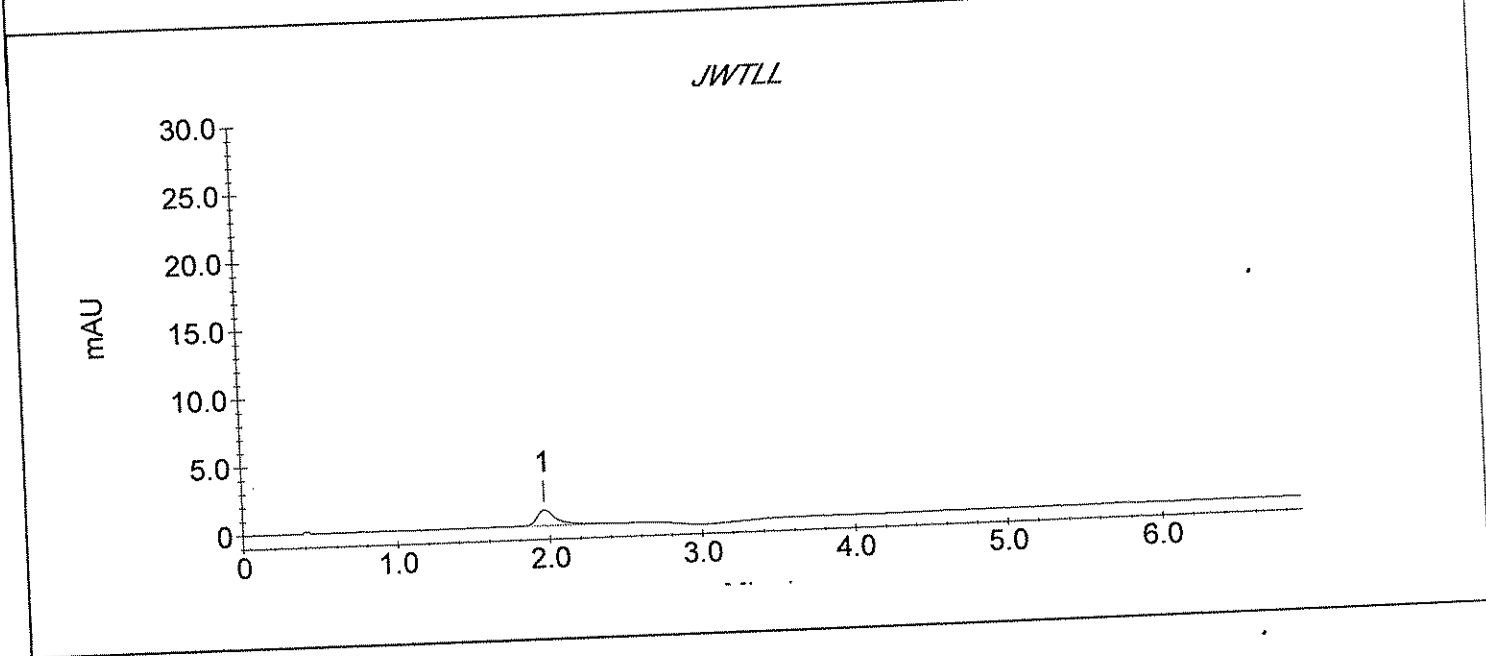
Sample Name : JWTL

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_059.DXD

Method File Name : ...\crvi 050107a.met  
Date Time Collected : 5/12/07 17:58:48  
System Operator : YZ/W18  
Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
Injection Number : 59  
Dilution Factor : 100.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	10452	1142



# STL Los Angeles Cr VI Sample Analysis Report

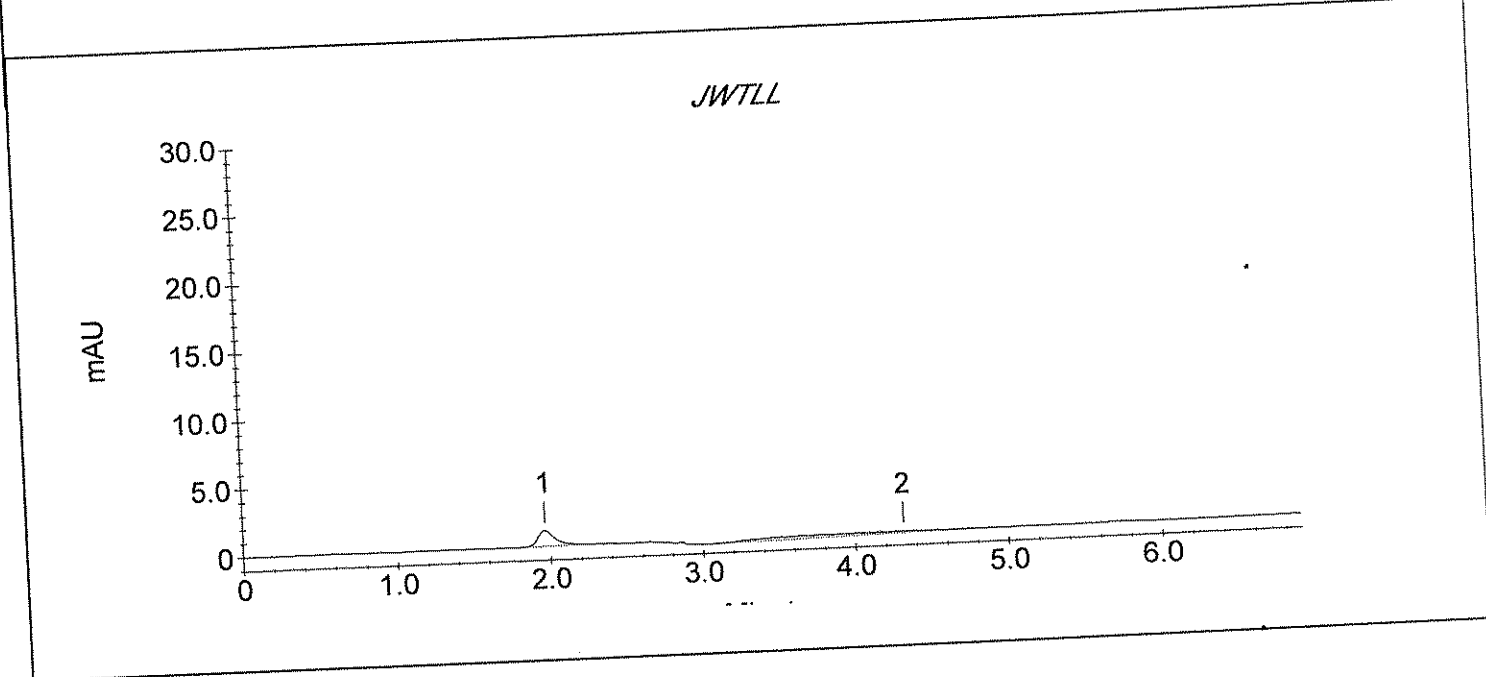
Sample Name : JWTL

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_060.DXD

Method File Name : ...\crvi 050107a.met  
Date Time Collected : 5/12/07 18:08:15  
System Operator : YZ/W18  
Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
Injection Number : 60  
Dilution Factor : 100.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9156	1135
2		4.32	0.00	11698	110



## STL Los Angeles Cr VI Sample Analysis Report

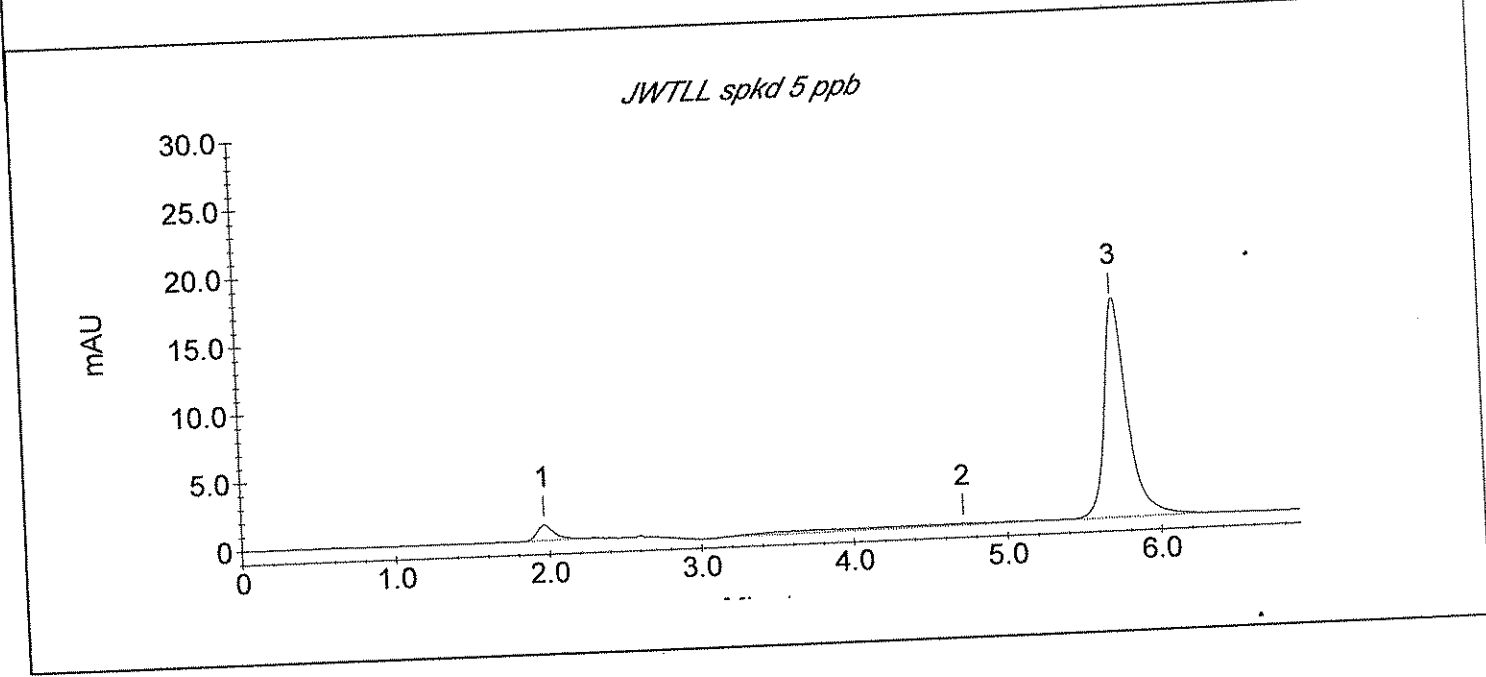
Sample Name : JWTL spkd 5 ppb

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_061.DXD

Method File Name : ...\crvi 050107a.met  
 Date Time Collected : 5/12/07 18:17:42  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 61  
 Dilution Factor : 100.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	8934	1123
2		4.72	0.00	14967	137
3	CRVI	5.72	501.69	167282	15804



# STL Los Angeles Cr VI Sample Analysis Report

Sample Name : JWTLL spkd 5 ppb

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_062.DXD

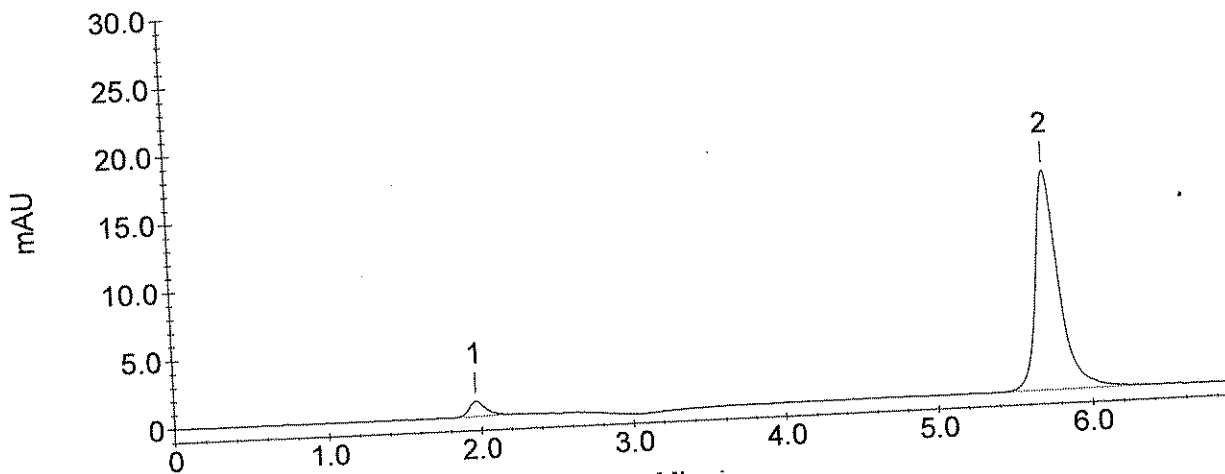
Method File Name : ...crvi 050107a.met  
Date Time Collected : 5/12/07 18:27:09  
System Operator : YZ/W18  
Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
Injection Number : 62  
Dilution Factor : 100.00

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	8447	1104
2	CRVI	5.73	500.52	166890	16060

JWTLL spkd 5 ppb





## STL Los Angeles Cr VI Sample Analysis Report

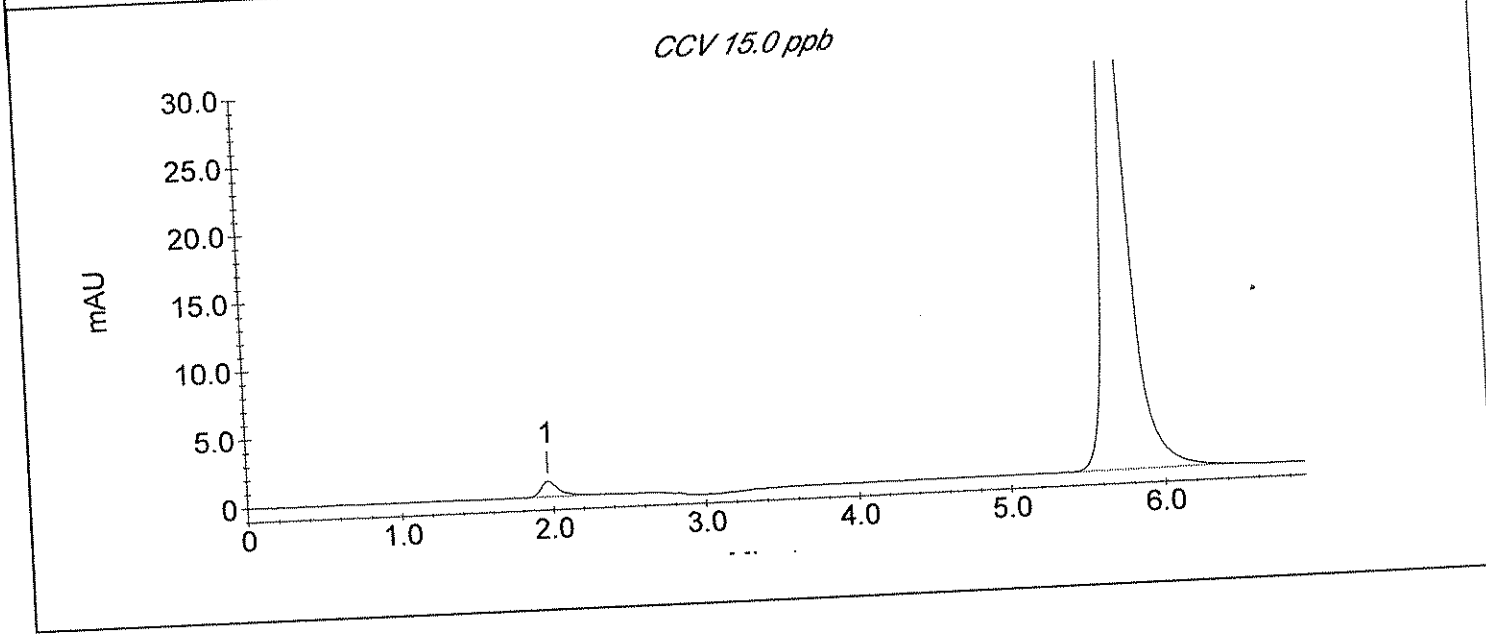
Sample Name : CCV 15.0 ppb

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_063.DXD

Method File Name : ...\crvi 050107a.met  
 Date Time Collected : 5/12/07 18:36:37  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 63  
 Dilution Factor : 1.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9394	1137
2	CRVI	5.72	15.10	504354	47373



# STL Los Angeles Cr VI Sample Analysis Report

Sample Name : CCB

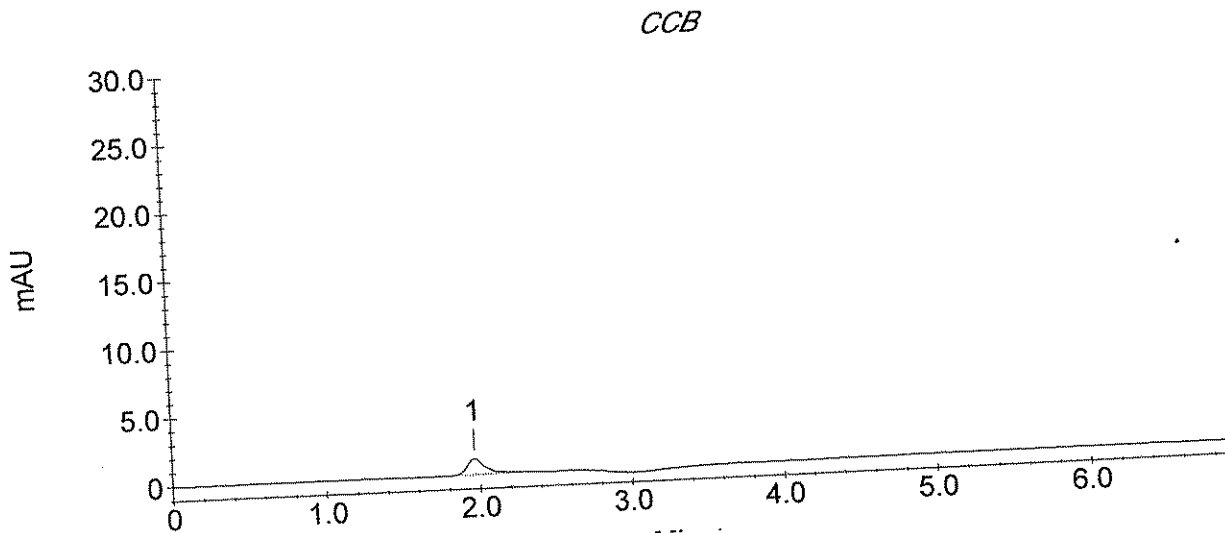
Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_064.DXD

Method File Name : ...crvi 050107a.met  
Date Time Collected : 5/12/07 18:46:04  
System Operator : YZ/W18  
Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
Injection Number : 64  
Dilution Factor : 1.00

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9403	1149



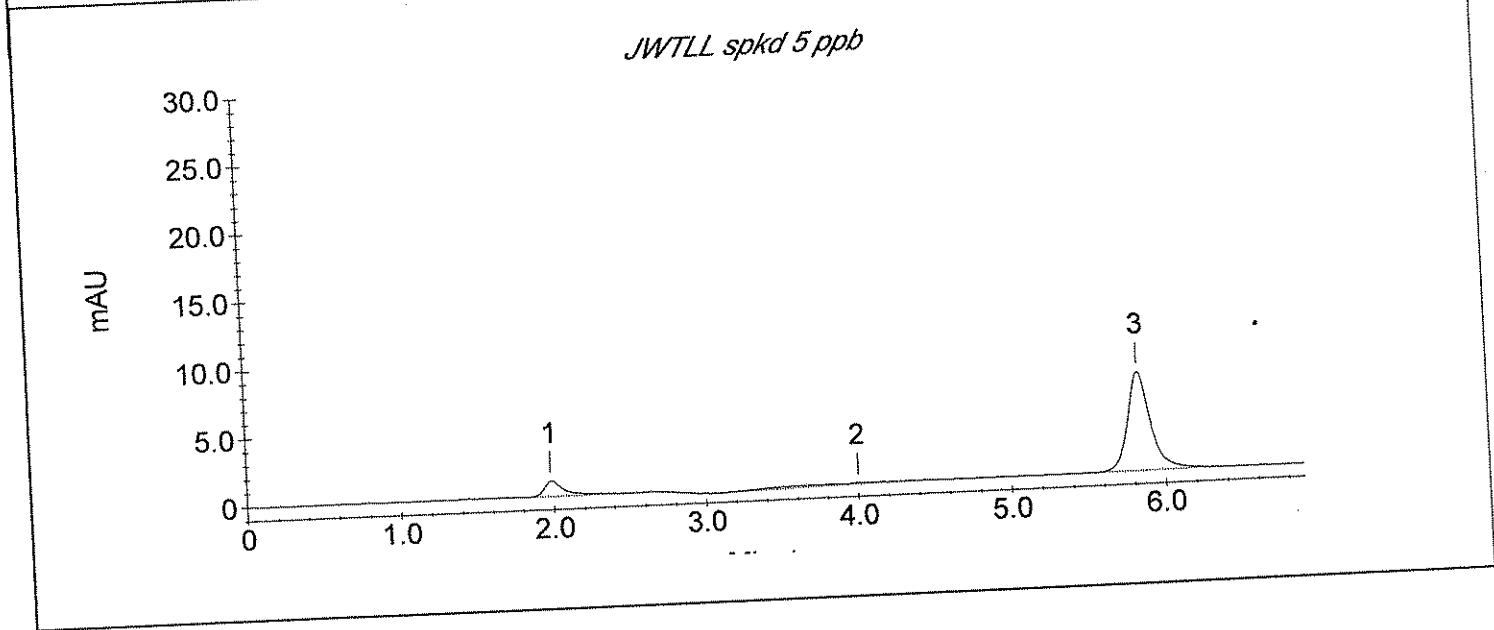
# STL Los Angeles Cr VI Sample Analysis Report

Sample Name : JWTLL spkd 5 ppb  
 Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_065.DXD

Method File Name : ...crvi 050107a.met  
 Date Time Collected : 5/12/07 18:55:31  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 65  
 Dilution Factor : 20.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.98	0.00	10158	1104
2		4.00	0.00	6281	112
3	CRVI	5.83	45.10	74942	7243



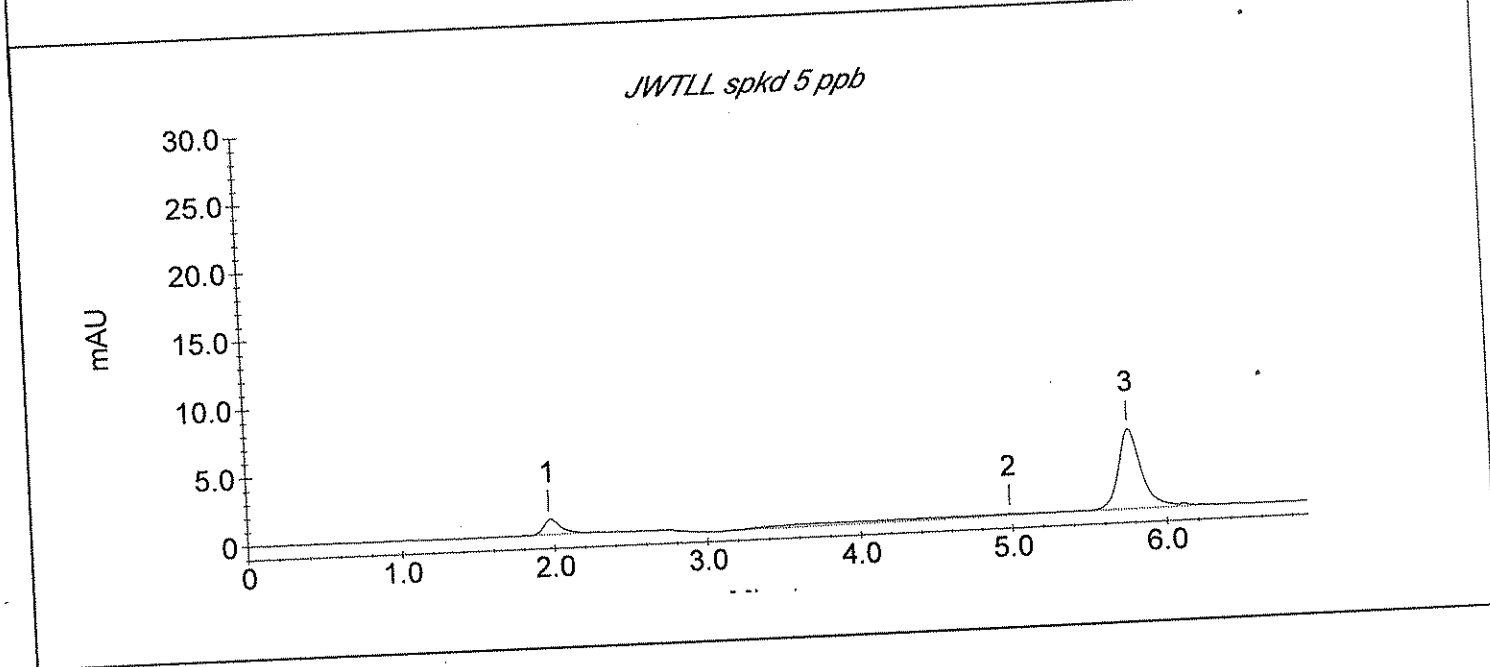
# STL Los Angeles Cr VI Sample Analysis Report

Sample Name : JWTLL spkd 5 ppb  
 Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_066.DXD

Method File Name : ...crvi 050107a.met  
 Date Time Collected : 5/12/07 19:04:58  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 66  
 Dilution Factor : 20.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	8562	1062
2		4.98	0.00	16146	121
3	CRVI	5.77	36.87	61179	5808



# STL Los Angeles Cr VI Sample Analysis Report

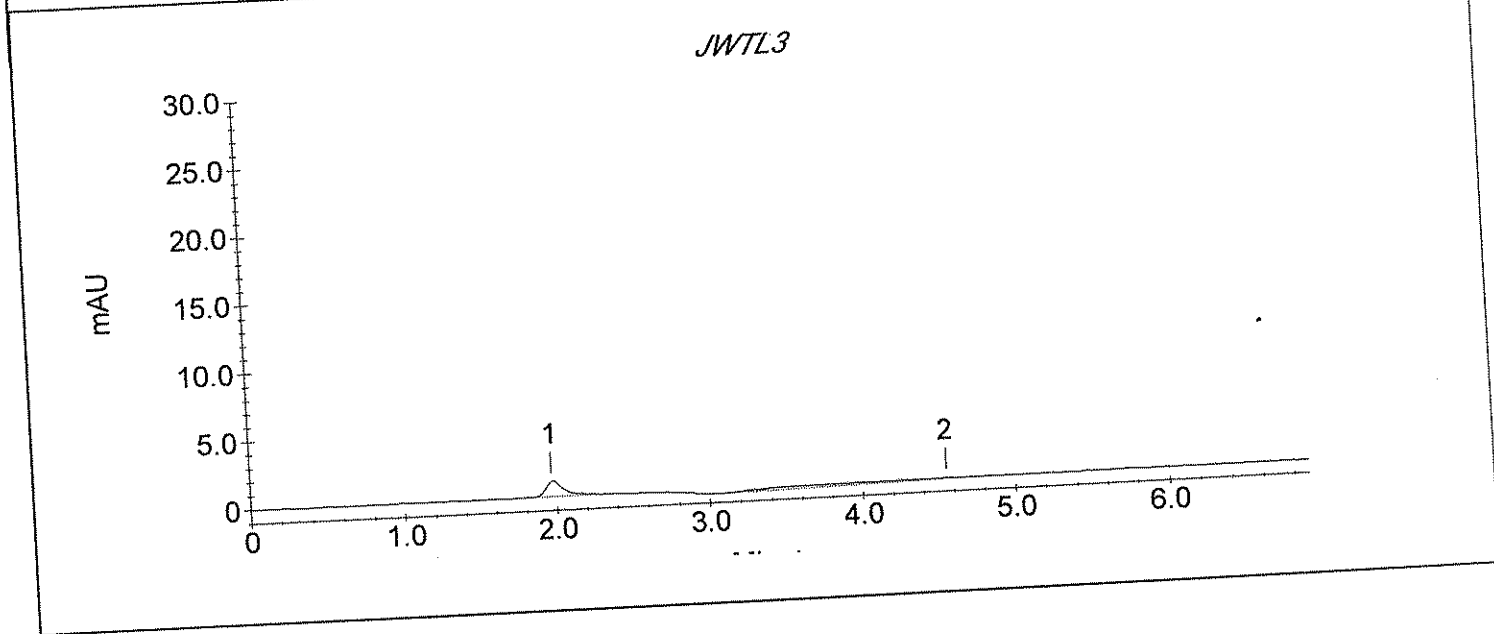
Sample Name : JWTL3  
 Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_067.DXD

Method File Name : ...crvi 050107a.met  
 Date Time Collected : 5/12/07 19:14:25  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 67  
 Dilution Factor : 100.00

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9280	1091
2		4.55	0.00	11162	77



# STL Los Angeles Cr VI Sample Analysis Report

Sample Name : JWTL3

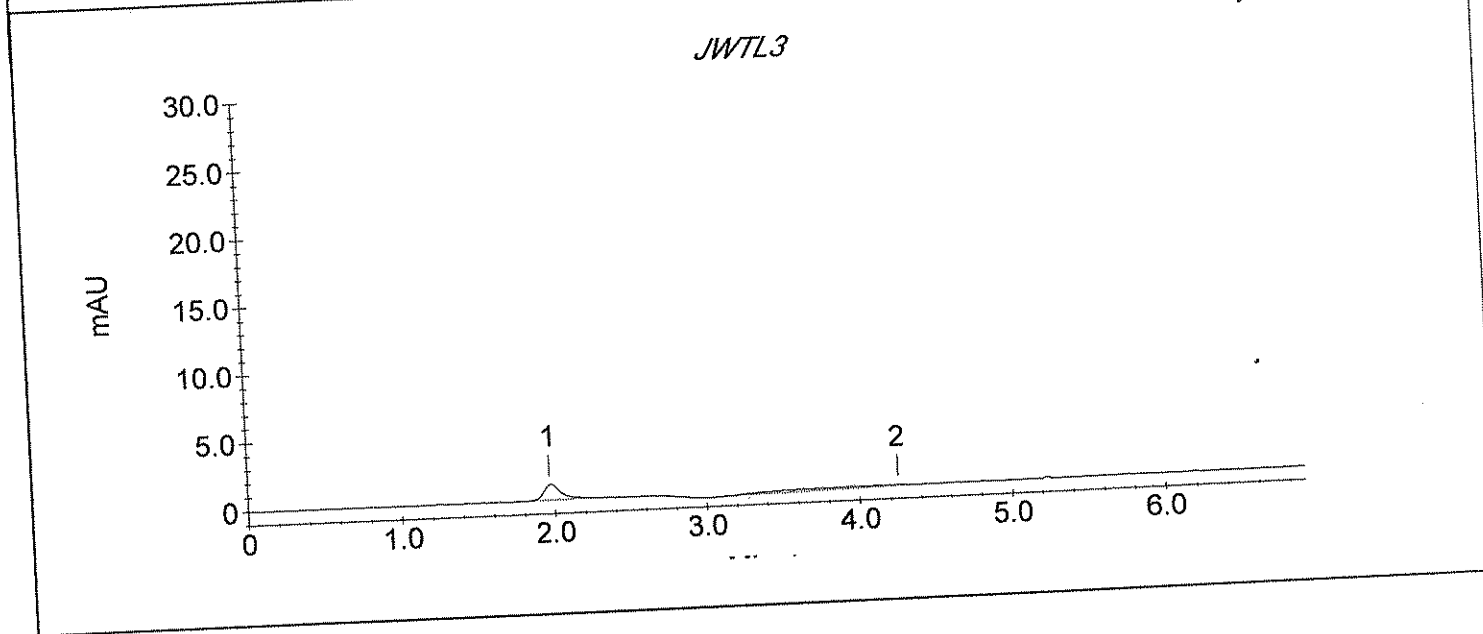
Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_068.DXD

Method File Name : ...\crvi 050107a.met  
Date Time Collected : 5/12/07 19:23:53  
System Operator : YZ/W18  
Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
Injection Number : 68  
Dilution Factor : 100.00

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9163	1122
2		4.25	0.00	8267	94



Current Date : 5/12/07  
Current Time : 19:33:00



PeakNet 5.11

# STL Los Angeles Cr VI Sample Analysis Report

Sample Name : JWTL3 spkd 5 ppb

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_069.DXD

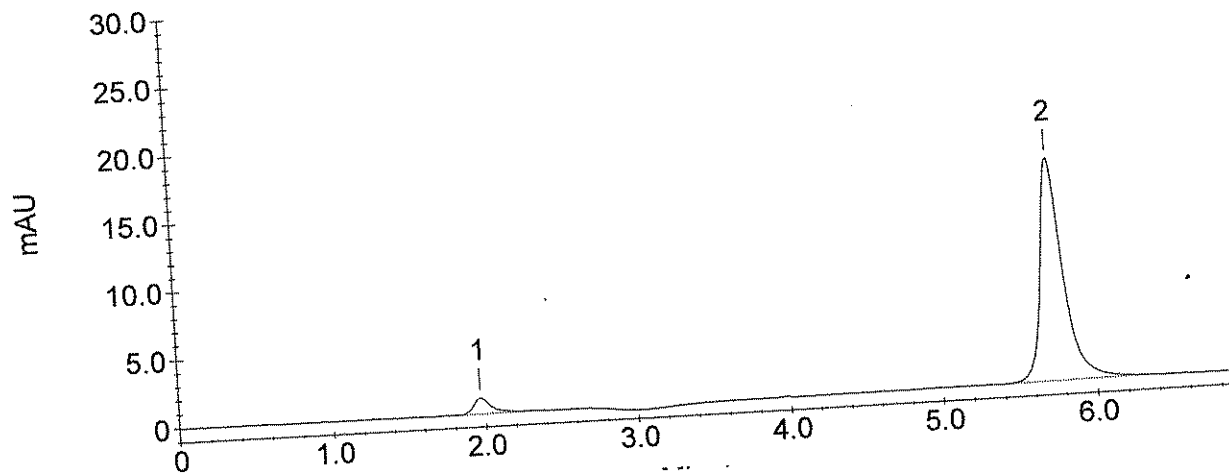
Method File Name : ...\crvi 050107a.met  
Date Time Collected : 5/12/07 19:33:20  
System Operator : YZ/W18  
Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
Injection Number : 69  
Dilution Factor : 100.00

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9529	1151
2	CRVI	5.73	506.16	168777	16308

JWTL3 spkd 5 ppb



# STL Los Angeles Cr VI Sample Analysis Report

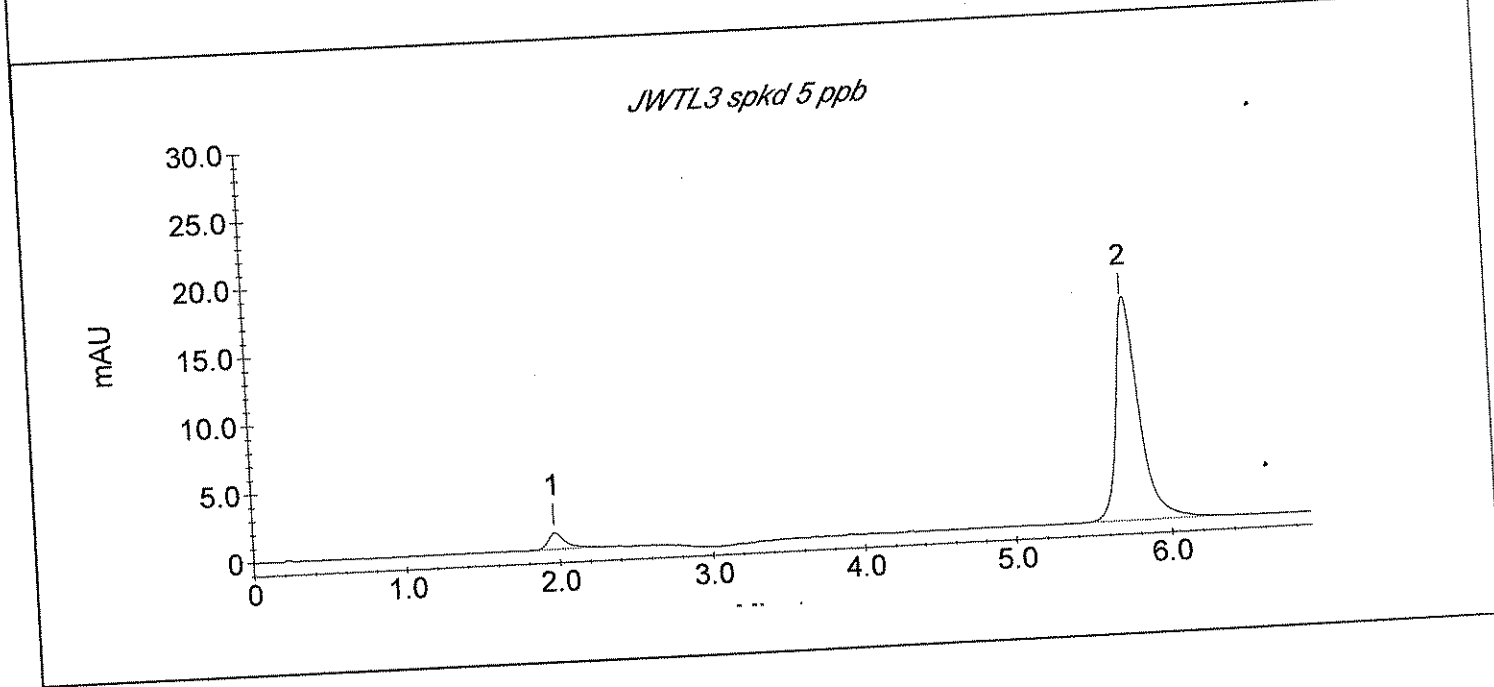
Sample Name : JWTL3 spkd 5 ppb  
Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_070.DXD

Method File Name : ...crvi 050107a.met  
Date Time Collected : 5/12/07 19:42:47  
System Operator : YZ/W18  
Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
Injection Number : 70  
Dilution Factor : 100.00

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9274	1193
2	CRVI	5.73	508.19	169457	15922





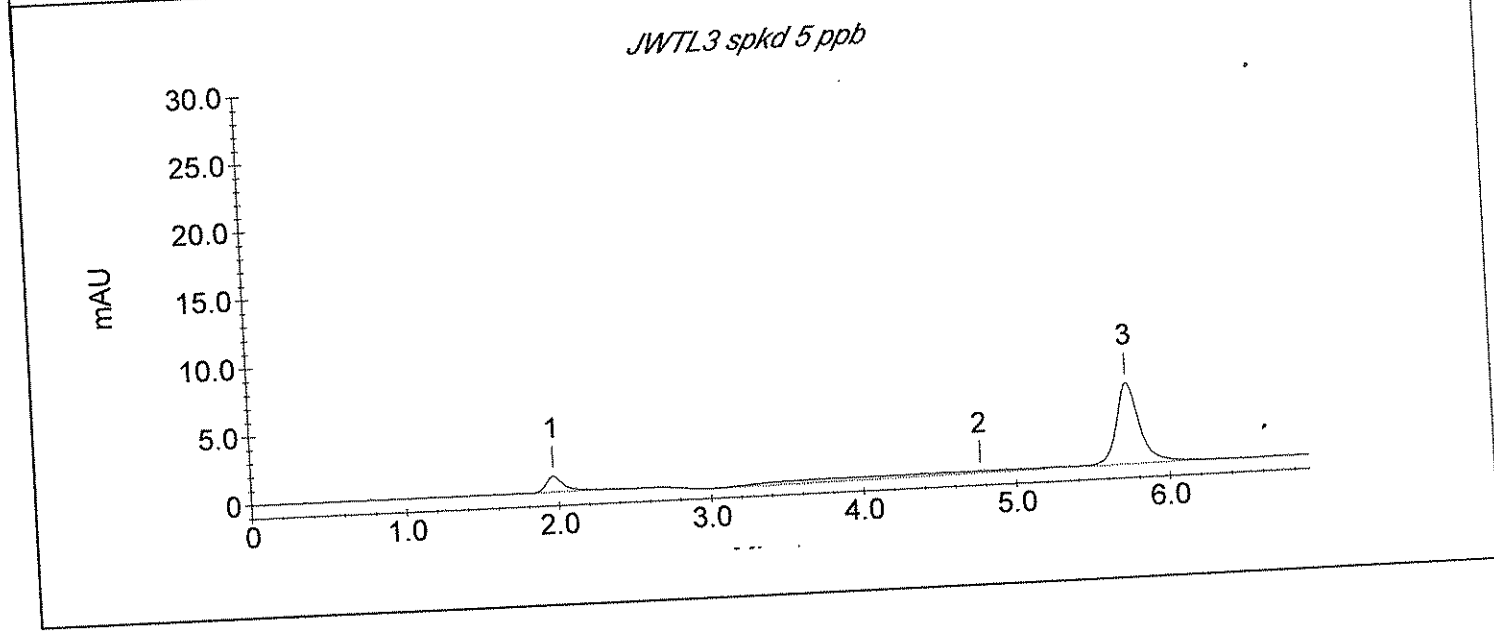
## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : JWTL3 spkd 5 ppb  
 Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_071.DXD

Method File Name : ...crvi 050107a.met  
 Date Time Collected : 5/12/07 19:52:14  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 71  
 Dilution Factor : 20.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9825	1171
2		4.77	0.00	21680	159
3	CRVI	5.73	37.56	62339	5938



# STL Los Angeles Cr VI Sample Analysis Report

Sample Name : JWTL3 spkd 5 ppb

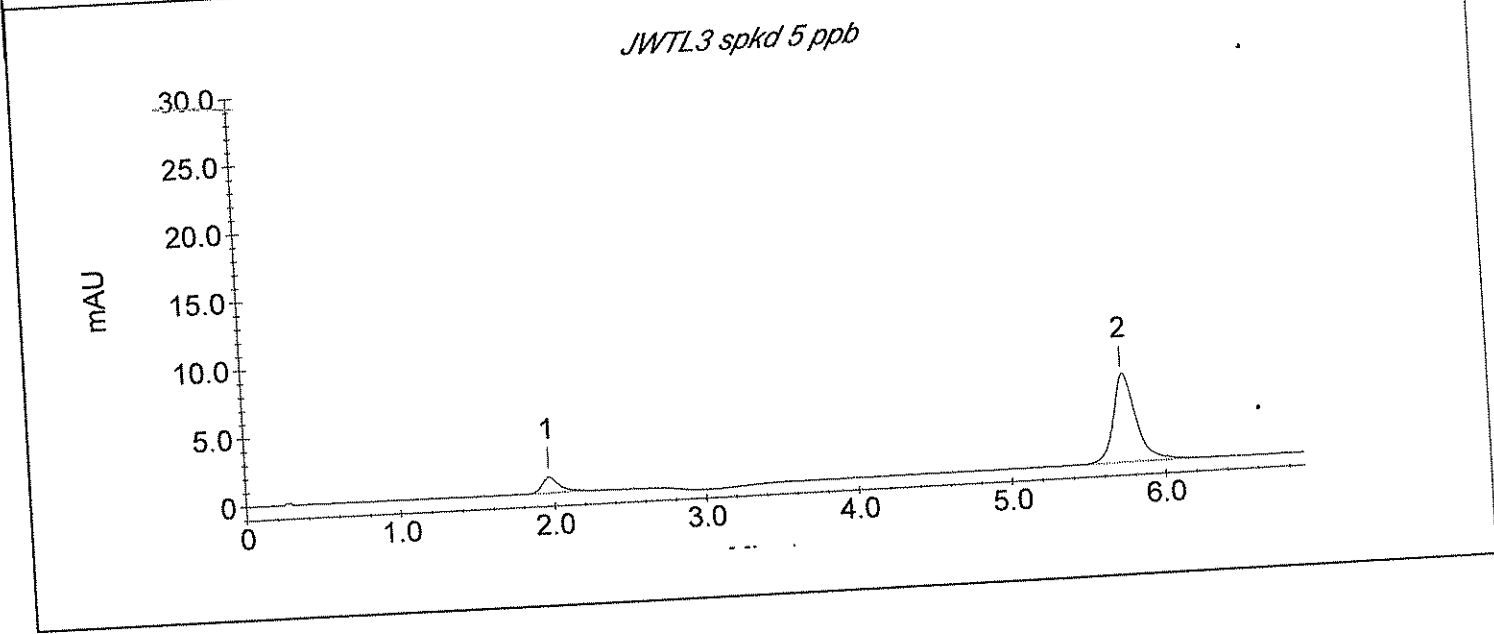
Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_072.DXD

Method File Name : ...\crvi 050107a.met  
Date Time Collected : 5/12/07 20:01:42  
System Operator : YZ/W18  
Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
Injection Number : 72  
Dilution Factor : 20.00

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9339	1159
2	CRVI	5.73	40.20	66753	6345



Current Date : 5/12/07  
Current Time : 20:11:00

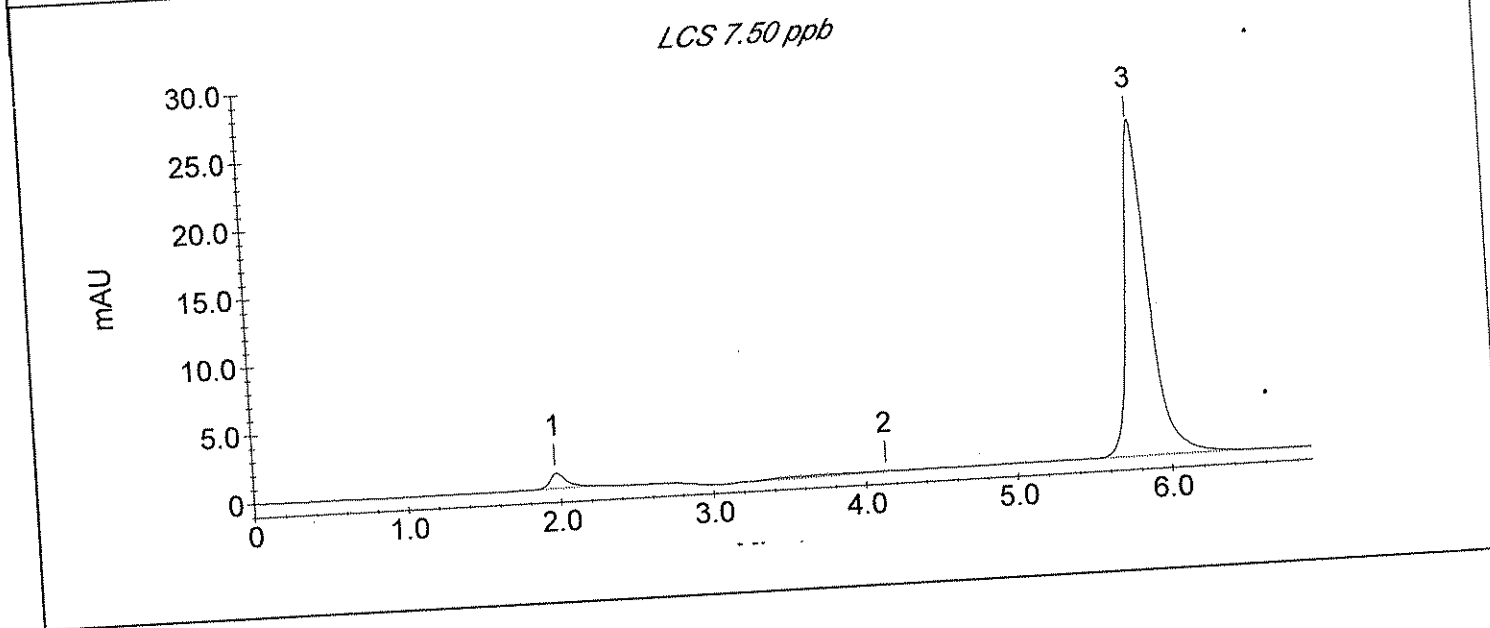
# STL Los Angeles Cr VI Sample Analysis Report

Sample Name : LCS 7.50 ppb  
 Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_073.DXD

Method File Name : ... \crvi 050107a.met  
 Date Time Collected : 5/12/07 20:11:08  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 73  
 Dilution Factor : 1.00

		Peak Information : All Peaks			
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	8330	1076
2		4.13	0.00	6208	89
3	CRVI	5.82	7.71	257409	24211



# STL Los Angeles Cr VI Sample Analysis Report

Sample Name : MB 051207

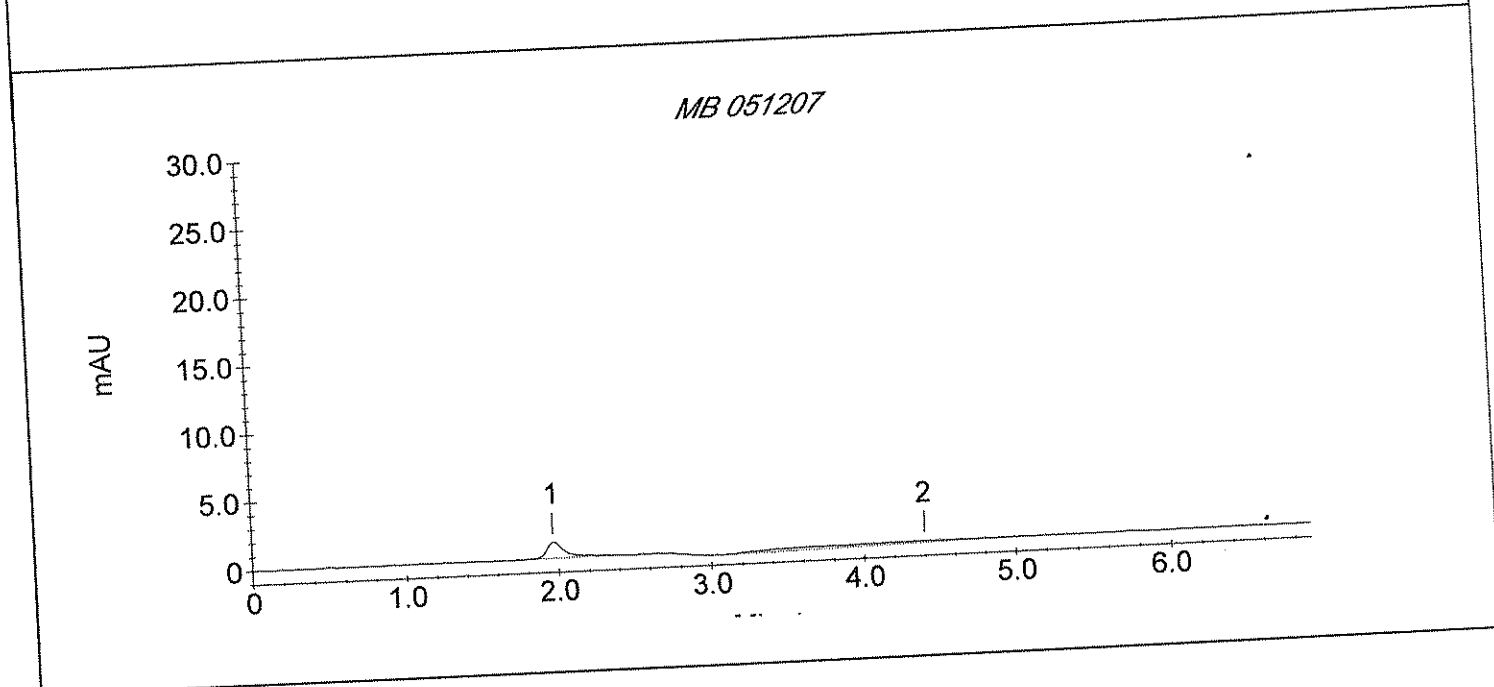
Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_074.DXD

Method File Name : ...\crvi 050107a.met  
Date Time Collected : 5/12/07 20:20:36  
System Operator : YZ/W18  
Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
Injection Number : 74  
Dilution Factor : 1.00

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9939	1174
2		4.40	0.00	13159	122



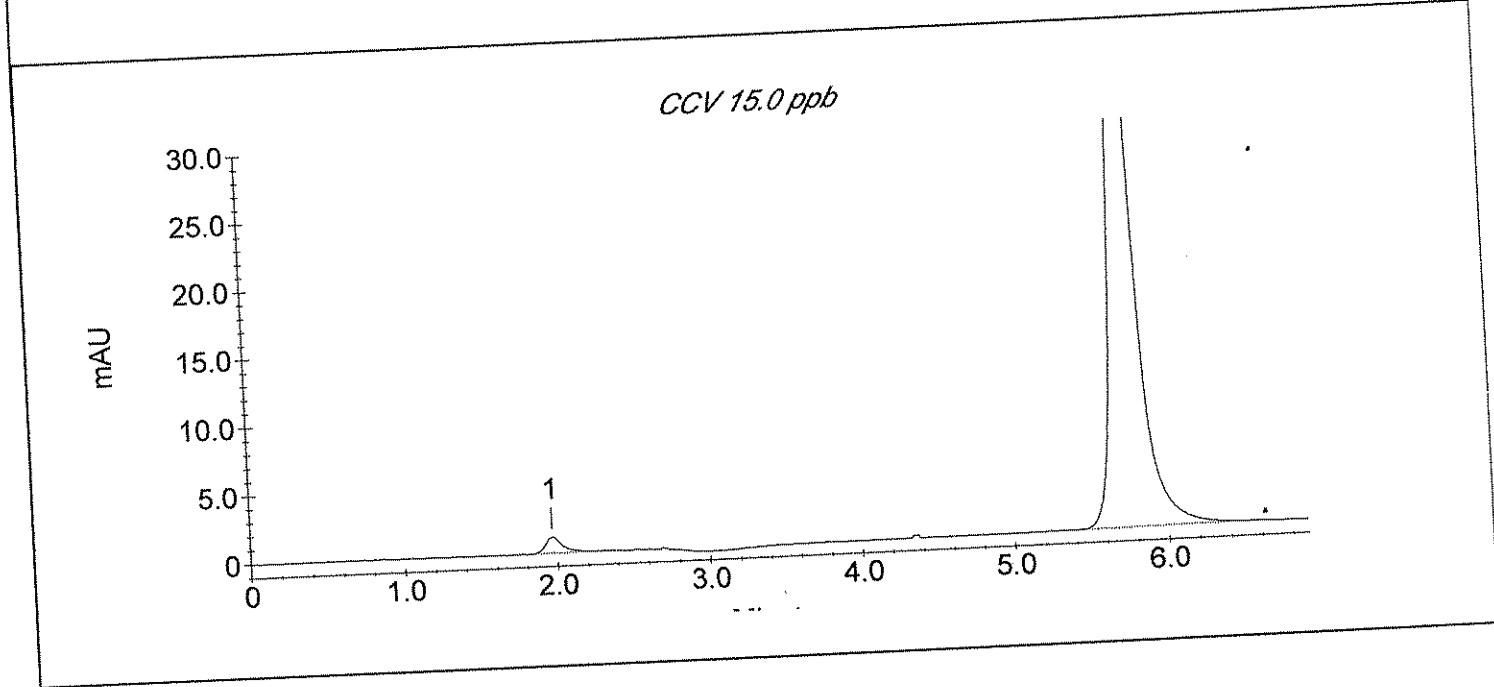
# STL Los Angeles Cr VI Sample Analysis Report

Sample Name : CCV 15.0 ppb  
 Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_075.DXD

Method File Name : ...crvi 050107a.met  
 Date Time Collected : 5/12/07 20:30:03  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 75  
 Dilution Factor : 1.00

Peak Information : All Peaks					
Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9093	1169
2	CRVI	5.75	15.04	502473	48386



# STL Los Angeles Cr VI Sample Analysis Report

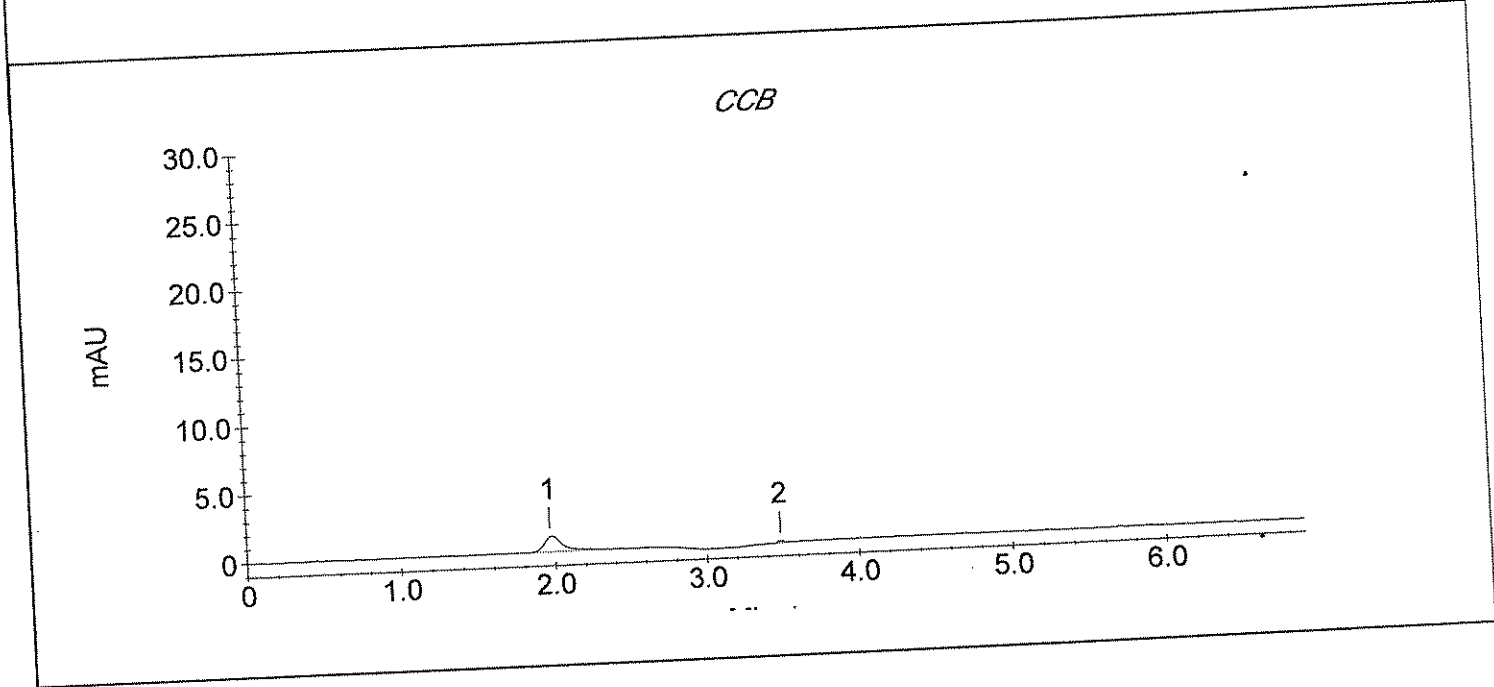
Sample Name : CCB  
Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI051207\_076.DXD

Method File Name : ... \crvi 050107a.met  
Date Time Collected : 5/12/07 20:39:31  
System Operator : YZ/W18  
Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
Injection Number : 76  
Dilution Factor : 1.00

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		1.97	0.00	9582	1085
2		3.48	0.00	672	136



Current Date : 5/12/07  
Current Time : 20:48:5

STL Los Angeles

### Hexavalent Chromium by Ion Chromatography Standards and Reagent Log

Method EPA 218.6 \_\_\_\_\_ SW 846 7199 Analyst: YLDate: 5/1/07**Reagent Lot Numbers/Expiration Dates**

Chromatographic Eluent: 2007-17-3-38 / 5/1/08  
 Post-column Reagent: 2007-17-4-40 / 5/5/07  
 Buffer Solution: 2007-17-1-1 / 1/2/08

Dilution Water: 2 liters of DI water adjusted to a pH of 9.0 to 9.5 with buffer solution.

Final pH: 9.03**Preparation of Intermediate Calibration and Check (ICV/LCS) Standard:**

Analyte	Stock Concentration (mg/L)	Volume of Stock (mL)	Final Volume (mL)	Final Concentration (mg/L)
Calibration	1000	0.1	1000	0.1
Check	1000	0.1	1000	0.1

**Intermediate Standard Lot Numbers/Expiration Dates**Calibration Standard: 2007-17-5-18 / 5/8/07Check (ICV/LCS) Standard: 2007-17-6-18 / 5/8/07**Preparation of Calibration and Check Standards:**

All standards and blanks are prepared with dilution water at a pH of 9.0 to 9.5.

Standard Name	Standard Conc.	Source Conc. (mg/L)	Source Solution	mL of Source	Final Volume
Cal Blank	0 mg/L	NA	Dilution water	10	10 mL
Cal Std 1	0.0002 mg/L	0.1	Intermediate Calib Stock	0.02	10 mL
Cal Std 2	0.001 mg/L	0.1	Intermediate Calib Stock	0.1	10 mL
Cal Std 3	0.010 mg/L	0.1	Intermediate Calib Stock	1.0	10 mL
Cal Std 4	0.025 mg/L	0.1	Intermediate Calib Stock	2.5	10 mL
ICV/LCS	0.0075 mg/L	0.1	Intermediate ICV Stock	0.75	10 mL
ICB/CCB/MB	0 mg/L	NA	Dilution water	10	10 mL
CCV	0.015 mg/L	0.1	Intermediate Calib Stock	1.5	10 mL
MS/MSD	0.010 mg/L	0.1	Intermediate ICV Stock	1.0	10 mL Sample

## Method Report - CRVI 050107A.met

---

Method Information : Select Module(s)

System Name : CRVI  
System Number : 2  
Method Type : Ion Chromatography  
Column : AS7-11445, NG1-19183  
Analyst : YZ  
Comment : Comment: 4 point plus blank  
Calibration 05/01/07  
Eluent 2007-17-3-38  
Post-Column Reagent 2007-17-4-40  
Calibration Source: ERA 10075.2  
ICV Source: 2007-17-2-1  
Curve: linear  
Cr 6+ (0.2 - 25 ppb)  
Instrument :W18

---

AD25 Timed Events

Module Name :  
Module Serial Number :  
UV Lamp : Off  
Visible Lamp : On  
Offset Level: 10%  
Calibration: Off  
Polarity: Positive  
TTL1 : TTL 1  
TTL2 : TTL 2  
Relay1 : RLY 1  
Relay2 : RLY 2

---

AD25 Detector Parameters

Detector Type : AD25  
Data collection time (minutes) : 7.00  
Data Collection Rate (Hz.) : 5.00  
Rise Time (Sec.) : 2.00  
Real time plot scale maximum (mAU) : 30.000  
Real time plot scale minimum (mAU) : -1.000

---

AD25 Integration Parameters

Peak detection algorithm : Standard  
Starting peak width (seconds) : 10.00  
Peak threshold : 0.50  
Peak area reject (area counts) : 1000.00  
Reference peak area reject (area counts) : 1000.00



---

**AD25 Smoothing Parameters**

Filter Type : No filter

---

**AD25 Report Data**

Report Format File : C:\PeakNet\method\DEFAULT.RPT

Print Sample Analysis : Yes

Print Calibration Update : Yes

Print Check Standard : Yes

System Suitability Tests :

No system suitability tests selected.

---

**AD25 Integration Data Events**


---

**AD25 Calibration Parameters**

External or internal calibration : EXTERNAL

Number of replicates for calibration : 1

Rejection : Manual

Level Weighting : Equal

Calibration standard volume : 1.00

Default sample volume : 1.00

Amount units : PPB

Replace retention time : Yes

Update response : Yes

Default dilution factor : 1.00

Default response factor for unknown peaks : 0.00

Calculate unknowns by area or height : Area

---

**AD25 Component Identification Table**

Component	Retention	Tolerance	Reference
CRVI	5.78 min	1.00 min	

---

**AD25 Component Quantitation Table**

Component	Retention	Low Limit	High Limit
CRVI	5.78 min	0	0

---

**AD25 Component Calibration Table**

Component	Retention Time	Curve Fit	Origin	Cal. by	Response Component	Relative Factor
CRVI	5.78 min	Linear	Include	Area		0.00

---

---

AD25 Component = CRVI Levels Table

Retention Time : 5.78 min  
 Amount units : PPB  
 Replicate unit type : Area  
 Number of levels : 5  
 Number of replicates : 1

Level	Amount	Replicate 1
1	0.00	0
2	0.20	6278.4
3	1.00	32567.8
4	10.00	333705
5	25.00	835512

---

AD25 XY Data Parameters

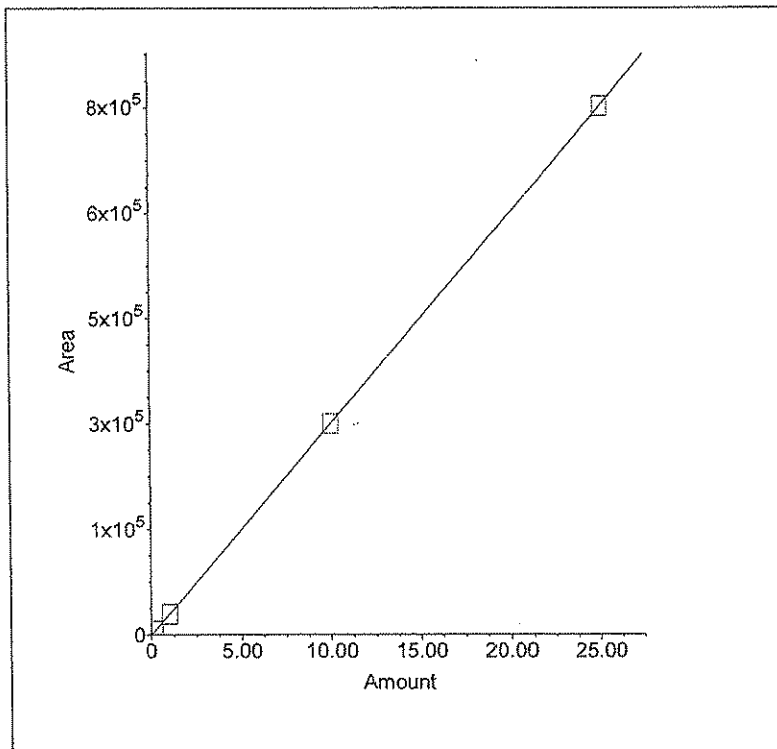
---

IP25 Timed Events

Module Name :  
 Module Serial Number :  
 Description :  
 Low Pressure Limit : 20.0  
 High Pressure Limit : 3000.0  
 Piston Size : Standard  
 Pressure Unit : psi  
 Oven Temperature : Oven Not Installed

Time	Flow	Valve	Column	TTL1	TTL2	Relay1	Relay2
Init	1.00	Load	B	Low	Low	Open	Open
0.00	1.00	Load	B	Low	Low	Closed	Open
2.40	1.00	Inject	B	Low	Low	Open	Open

1. Component:CRVI  
Standard:External Fit Type:Linear  
Origin:Include Calibration:Area  
 $r^2=0.999999$   
Amt= $2.991e-005 * Resp + 0.0137$



### Calibration Update Report

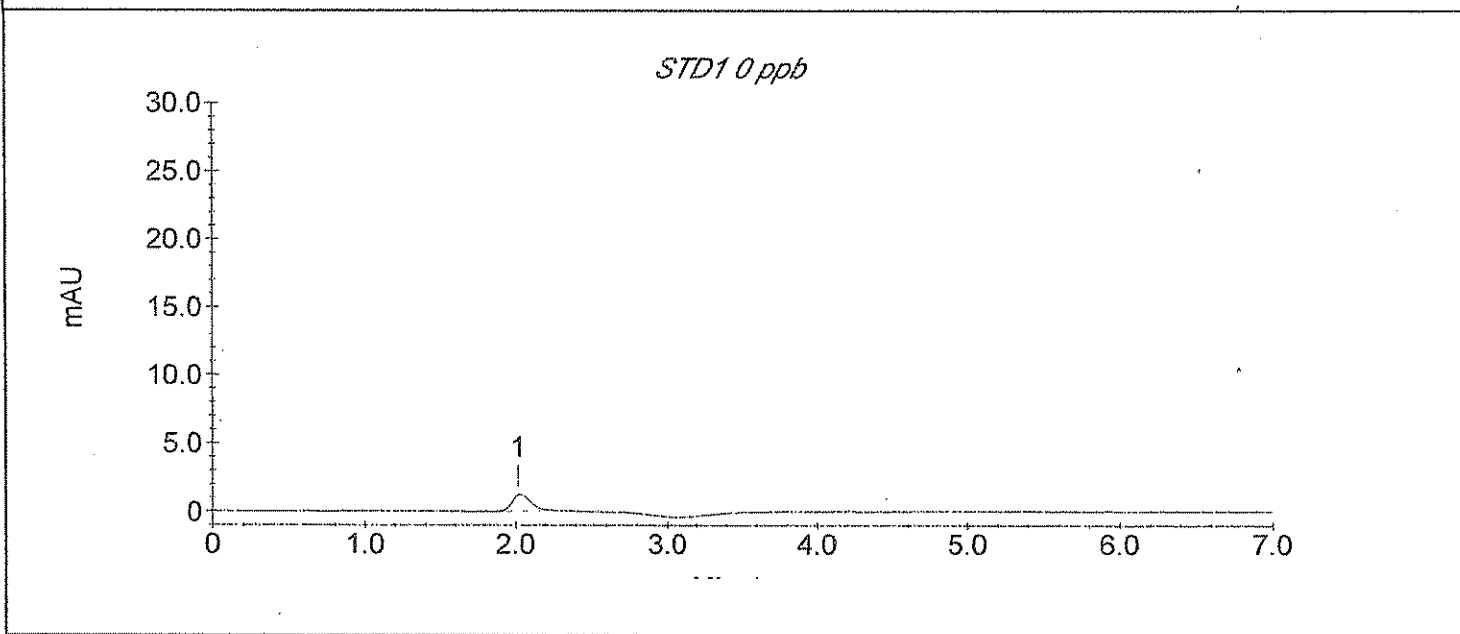
Sample Name : STD1 0 ppb

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI050107\_001.DXD

Method File Name : c:\peaknet\method\crvi 050107a.met  
 Schedule File Name : c:\peaknet\schedule\cr vi schedule\crvi 050107.sch  
 Date Time Collected : 5/1/07 11:37:20  
 Calibration Date : 5/1/07 11:46:47  
 System Operator : YZ/W18

Peak Information : All Components

Peak #	Component	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
1		2.02			



### Calibration Update Report

Sample Name : STD2 0.2 ppb

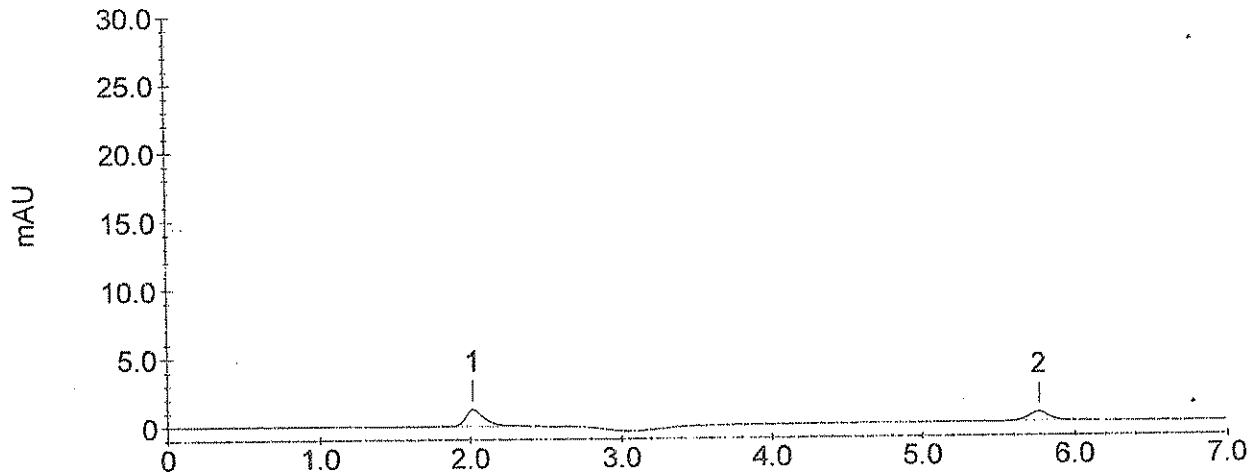
Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI050107\_002.DXD

Method File Name : c:\peaknet\method\crvi 050107a.met  
 Schedule File Name : c:\peaknet\schedule\cr vi schedule\crvi 050107.sch  
 Date Time Collected : 5/1/07 11:46:52  
 Calibration Date : 5/1/07 11:56:20  
 System Operator : YZ/W18

Peak Information : All Components

Peak #	Component	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	CRVI	5.77	0	6278	6278

STD2 0.2 ppb



## Calibration Update Report

Sample Name : STD3 1.0 ppb

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CRVI050107\_003.DXD

Method File Name : c:\peaknet\method\crvi 050107a.met

Schedule File Name : c:\peaknet\schedule\cr vi schedule\crvi 050107.sch

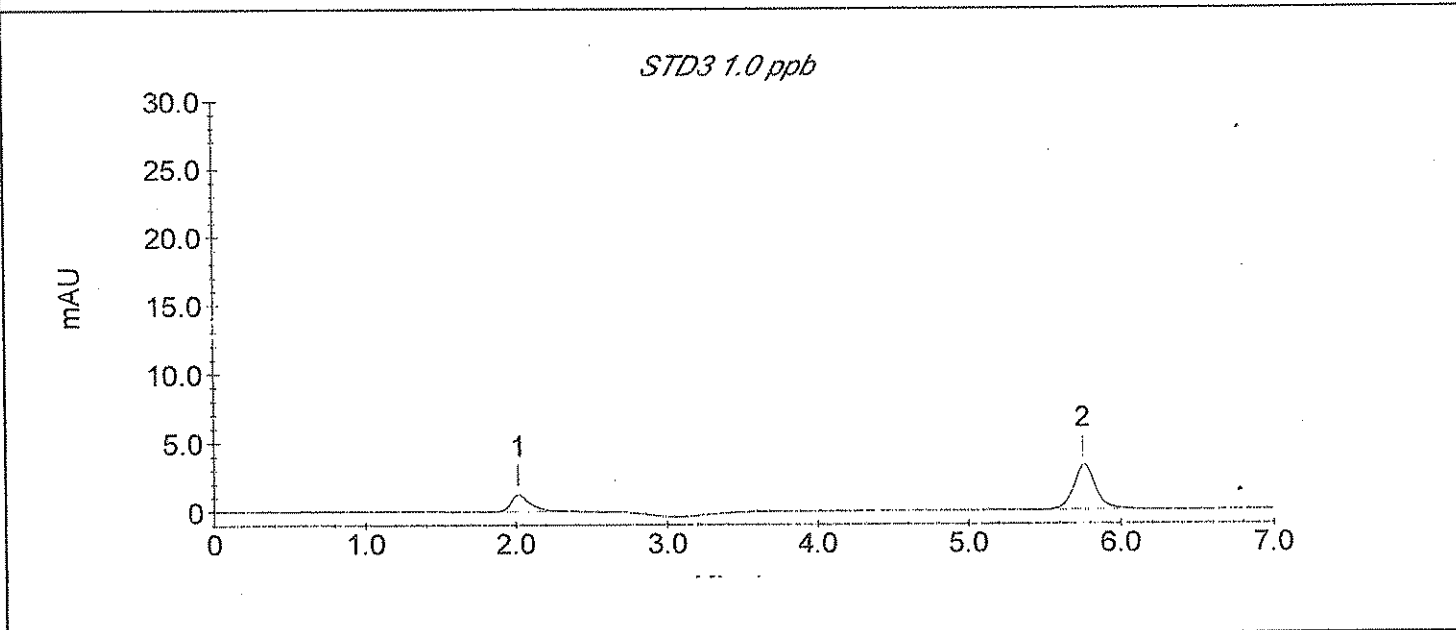
Date Time Collected : 5/1/07 11:56:25

Calibration Date : 5/1/07 12:05:53

System Operator : YZ/W18

## Peak Information : All Components

Peak #	Component	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	CRVI	5.75	0	32568	32568



### Calibration Update Report

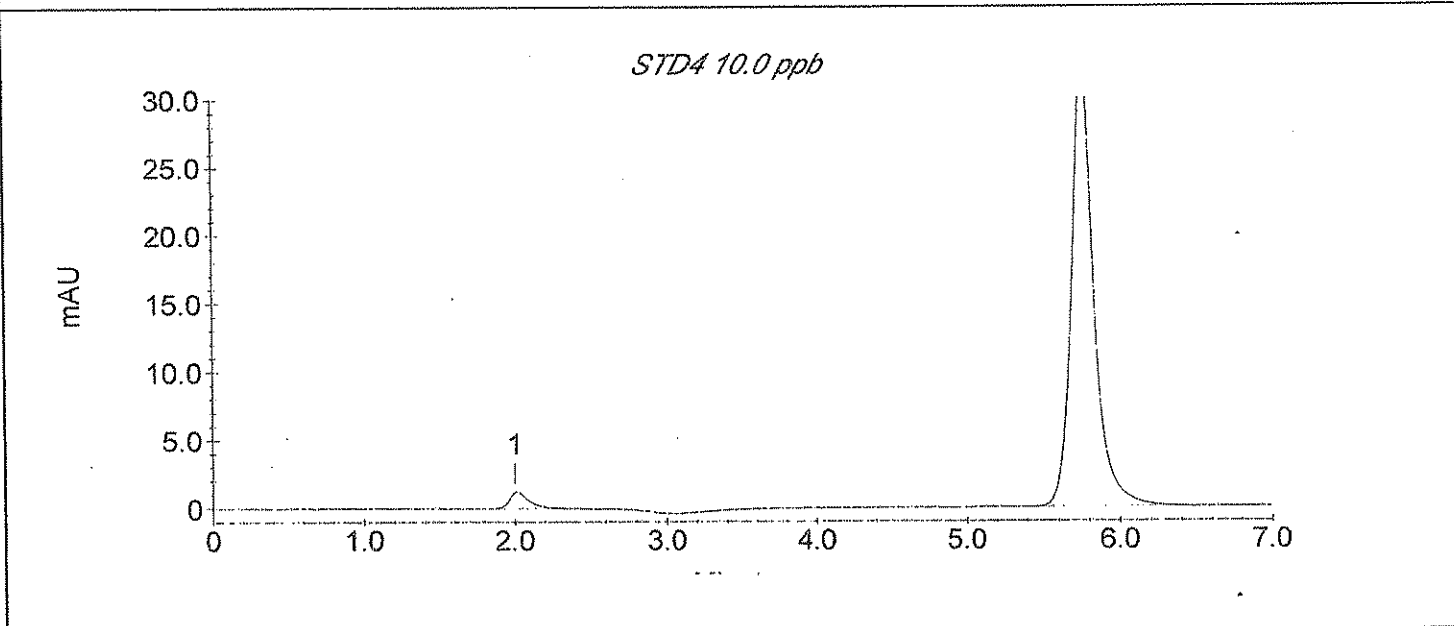
Sample Name : STD4 10.0 ppb

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI050107\_004.DXD

Method File Name : c:\peaknet\method\crvi 050107a.met  
 Schedule File Name : c:\peaknet\schedule\cr vi schedule\crvi 050107.sch  
 Date Time Collected : 5/1/07 12:05:58  
 Calibration Date : 5/1/07 12:15:26  
 System Operator : YZ/W18

Peak Information : All Components

Peak #	Component	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	CRVI	5.75	0	333705	333705



## Calibration Update Report

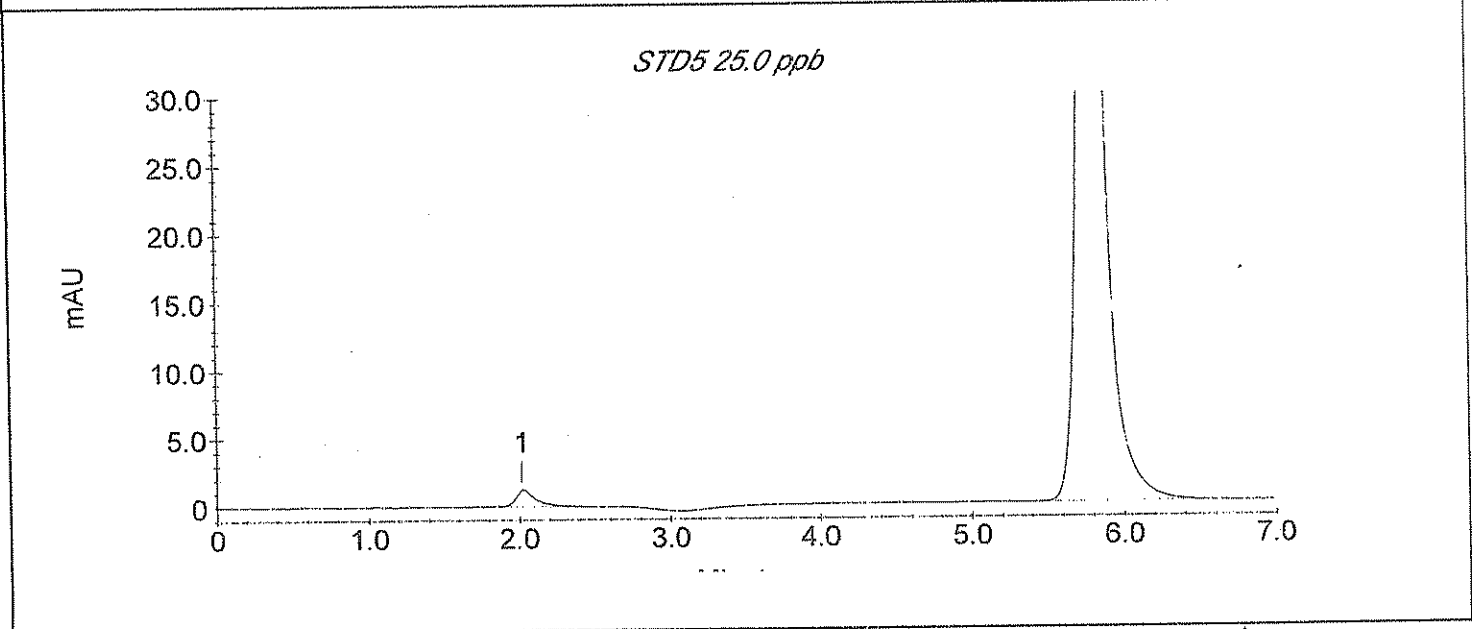
Sample Name : STD5 25.0 ppb

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI050107\_005.DXD

Method File Name : c:\peaknet\method\crvi 050107a.met  
Schedule File Name : c:\peaknet\schedule\cr vi schedule\crvi 050107.sch  
Date Time Collected : 5/1/07 12:15:32  
Calibration Date : 5/1/07 12:25:00  
System Operator : YZ/W18

## Peak Information : All Components

Peak #	Component	Retention Time	Cal Response (Previous)	Cal Response (Measured)	Cal Response (New)
2	CRVI	5.78	0	835512	835512





## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : ICV/LCS 7.50 ppb

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI050107\_006.DXD

Method File Name : ...\crvi 050107a.met

Column Type : AS7-11445, NG1-19183

Date Time Collected : 5/1/07 12:25:05

Injection Number : 6

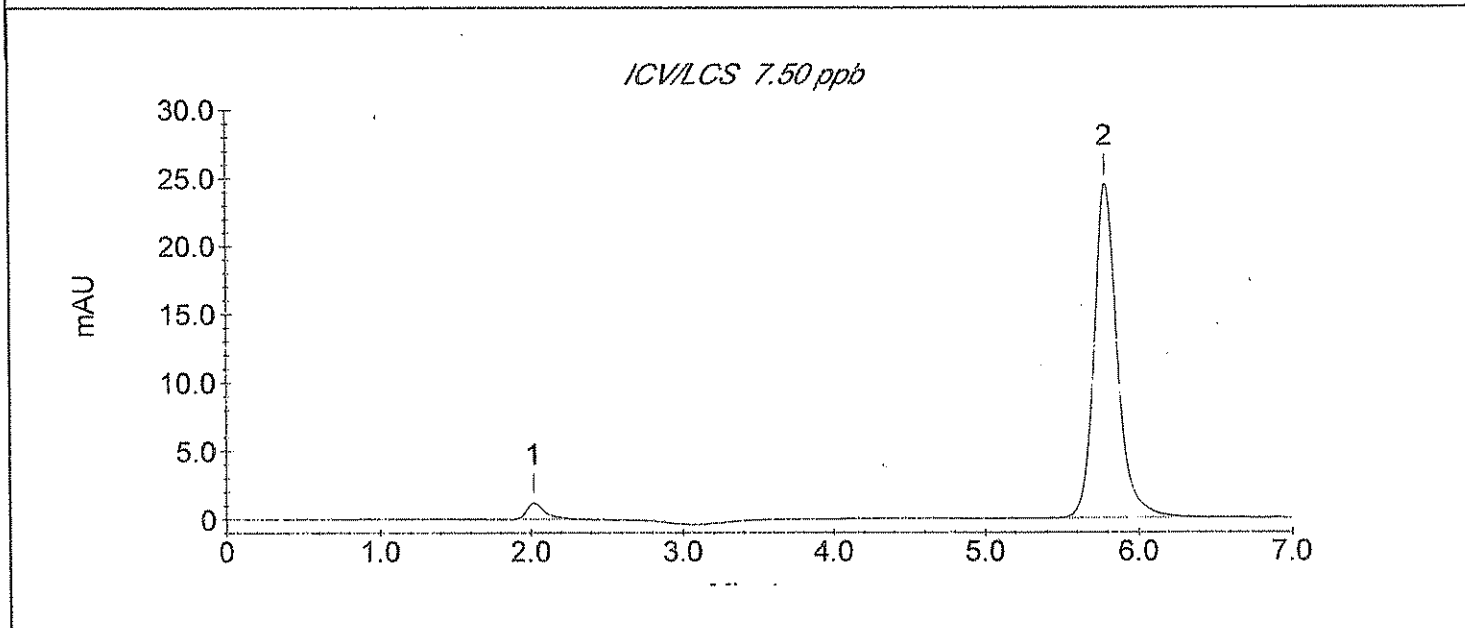
System Operator : YZ/W18

Dilution Factor : 1.00

Calibration Date : 5/1/07 12:25:00

## Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		2.02	0.00	10395	1201
2	CRVI	5.78	7.56	252275	24444



## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : ICB/MB 050107

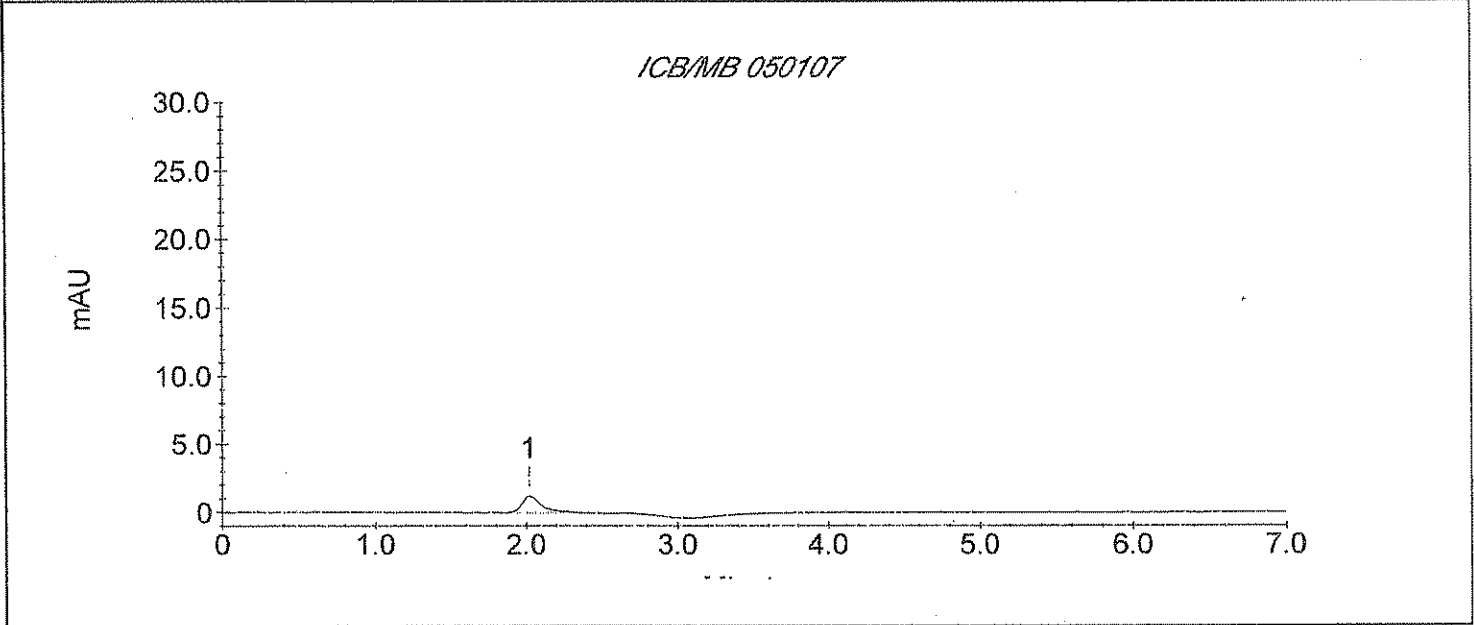
Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI050107\_007.DXD

Method File Name : ...crvi 050107a.met  
 Date Time Collected : 5/1/07 12:34:39  
 System Operator : YZ/W18  
 Calibration Date : 5/1/07 12:27:33

Column Type : AS7-11445, NG1-19183  
 Injection Number : 7  
 Dilution Factor : 1.00

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		2.02	0.00	10998	1199



## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : CCV 15.0 ppb

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI050107\_008.DXD

Method File Name : ...crvi 050107a.met

Column Type : AS7-11445, NG1-19183

Date Time Collected : 5/1/07 12:44:12

Injection Number : 8

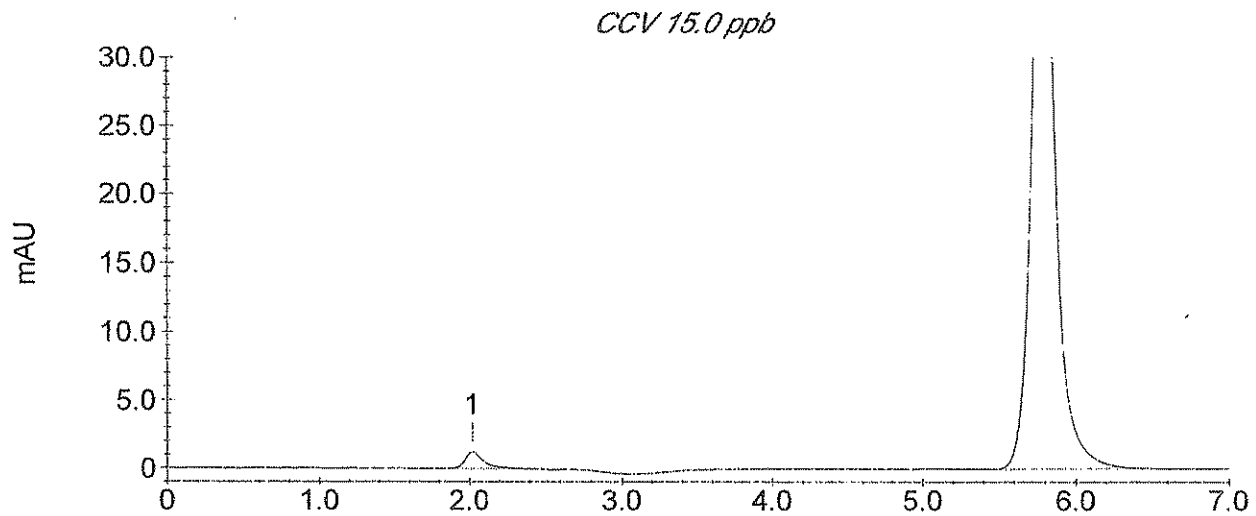
System Operator : YZ/W18

Dilution Factor : 1.00

Calibration Date : 5/1/07 12:27:33

## Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		2.02	0.00	10459	1213
2	CRVI	5.78	15.05	502618	48816



## STL Los Angeles Cr VI Sample Analysis Report

Sample Name : CCB

Data File Name : C:\PEAKNET\CRVI\CRVI 2\CrVI050107\_009.DXD

Method File Name : ...\crvi 050107a.met

Column Type : AS7-11445, NG1-19183

Date Time Collected : 5/1/07 12:53:45

Injection Number : 9

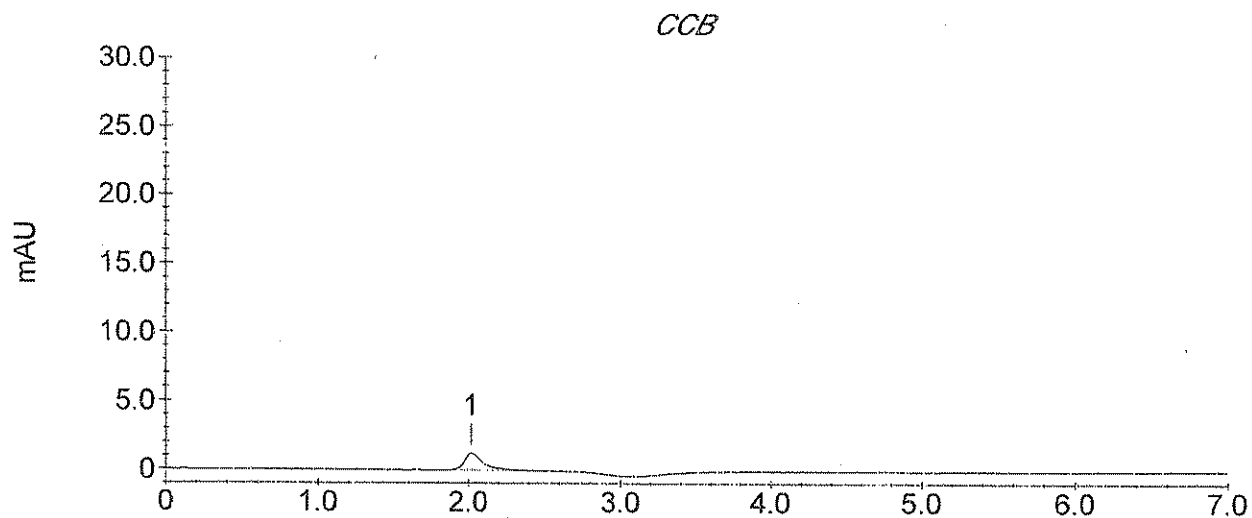
System Operator : YZ/W18

Dilution Factor : 1.00

Calibration Date : 5/1/07 12:27:33

Peak Information : All Peaks

Peak #	Component	Retention Time	Amount (PPB)	Peak Area	Peak Height
1		2.02	0.00	10565	1223



**STL**

**END OF RAW DATA**