

**SOUTHWEST RESEARCH INSTITUTE
NUCLEAR PROJECT**

CLIENT: Division 20

TASK ORDER: 030714-8

SRR: 24618

SDG: 230259

CASE: CNWRA

VTSR: July 14, 2003

PROJECT#: 06002.01.141

FINAL REPORT

SOUTHWEST RESEARCH INSTITUTE

SAMPLE ANALYSIS DATA SHEET

010001

Lab Name: Southwest Research Institute

Client: Division 20

Lab Code: SwRI

Date Received: 07/14/03

Matrix: Water

Project No.: 06002.01.141

SRR: 24618

TO: 030714-8

Sample ID	Lab System ID	Calcium Results (mg/L)	Magnesium Results (mg/L)	Manganese Results (mg/L)	Potassium Results (mg/L)	Sodium Results (mg/L)	Strontium Results (mg/L)
Prep Blank	----	<0.075	<0.05	<0.005	<0.1	<0.2	<0.005
Lab Control	----	20.0	20.7	0.514	17.4	18.3	4.17
True Value	----	20.0	20.0	0.500	20.0	20.0	4.00
Recovery	----	100%	104%	103%	87.0%	91.5%	104%
Prep Blank	----	<0.075	<0.05	<0.005	<0.1	<0.2	<0.005
Lab Control	----	20.5	20.9	0.515	17.7	18.8	4.18
True Value	----	20.0	20.0	0.500	20.0	20.0	4.00
Recovery	----	103%	105%	103%	88.5%	94.0%	105%
11 C 1	230259	293	<0.05	<0.005	10.3	56.3	0.054
Duplicate result	230259	291	----	----	----	----	----
RPD	230259	0.68%	----	----	----	----	----
11 C 2	230260	296	<0.05	<0.005	4.49	55.0	0.053
Spike result	230260	503	----	----	28.4	78.1	----
Spike added	230260	200	----	----	20.0	20.0	----
Recovery	230260	104%	----	----	120%	116%	----
11 D 1	230261	78.6	<0.05	<0.005	3.53	59.3	0.023
11 D 2	230262	79.1	<0.05	<0.005	3.34	56.6	0.022
11 E 1	230263	22.7	<0.05	<0.005	4.79	78.0	0.014
11 E 2	230264	23.1	<0.05	<0.005	3.00	70.3	0.012
11 F 1	230265	7.68	<0.05	<0.005	4.82	109	0.010
11 F 2	230266	7.61	<0.05	0.005	3.71	109	0.010
11 Q 1	230267	98.8	<0.05	<0.005	22.9	103	<0.005
Duplicate result	230267	----	<0.05	<0.005	22.1	99.4	<0.005
RPD	230267	----	0.00%	0.00%	3.56%	3.56%	0.00%
11 Q 2	230268	96.5	<0.05	<0.005	22.2	99.8	<0.005
Spike result	230268	----	20.8	0.513	----	----	4.16
Spike added	230268	----	20.0	0.500	----	----	4.00
Recovery	230268	----	104%	103%	----	----	104%
12 C 1	230269	291	<0.05	<0.005	2.37	48.0	0.050
12 C 2	230270	292	<0.05	<0.005	2.99	49.5	0.052
12 D 1	230271	78.1	<0.05	<0.005	2.94	55.4	0.022
12 D 2	230272	79.4	<0.05	<0.005	2.93	54.8	0.022
Duplicate result	230272	79.3	----	----	----	----	----
RPD	230272	0.13%	----	----	----	----	----
12 E 1	230273	23.7	<0.05	<0.005	3.68	72.4	0.013
12 E 2	230274	23.2	<0.05	<0.005	3.17	71.8	0.013
12 F 1	230275	8.08	<0.05	<0.005	3.94	106	0.009
Spike result	230275	217	----	----	----	----	----
Spike added	230275	200	----	----	----	----	----
Recovery	230275	104%	----	----	----	----	----

Reporting Limit: 0.075 mg/L 0.05 mg/L 0.005 mg/L 0.1 mg/L 0.2 mg/L 0.005 mg/L

**SOUTHWEST RESEARCH INSTITUTE
NUCLEAR PROJECT
CLIENT: Division 20
TASK ORDER: 030714-8
SRR: 24618
SDG: 230259
CASE: CNWRA
VTSR: July 14, 2003
PROJECT#: 06002.01.141**

Task Orders/01-QPP-015

Laboratory Task Order

TO #: 030714-8 Revision: 0

SDG: 230259
 VTSR: 07/14/03
 CASE: CNWRA-Bradley Werling

SRR #s: 24618
 Client(s): DIV 20

Project(s): 06002.01.141
 Manager(s): DAMMANN, MIKE
 To PM: 08/06/03
 To QA: 08/08/03
 To Client: 08/11/03

010003

Instructions

DIVISION 20 - CNWRA. Point of Contact is Bradley Werling. Work is 10 CFR 50, Part 21, Appendix B. Contact Charlie Butcher (ext. 5928, pager 271-5172) before starting work. ICP analysis is for calcium, magnesium, sodium, potassium, manganese and strontium.

Documents Related to this task order: 5597

Test: DIL-DILUTION
 Section: METALPREP

Holding: 28 days from CED

Prep, Dilution

Cnt: 26

System ID	Type	Cont	Matrix	Customer ID	CED	Method Date
230259		1	Water	11 C 1	10 Jul 03	07 Aug 03
230260		1	Water	11 C 2	10 Jul 03	07 Aug 03
230261		1	Water	11 D 1	10 Jul 03	07 Aug 03
230262		1	Water	11 D 2	10 Jul 03	07 Aug 03
230263		1	Water	11 E 1	10 Jul 03	07 Aug 03
230264		1	Water	11 E 2	10 Jul 03	07 Aug 03
230265		1	Water	11 F 1	10 Jul 03	07 Aug 03
230266		1	Water	11 F 2	10 Jul 03	07 Aug 03
230267		1	Water	11 Q 1	10 Jul 03	07 Aug 03
230268		1	Water	11 Q 2	10 Jul 03	07 Aug 03
230269		1	Water	12 C 1	10 Jul 03	07 Aug 03
230270		1	Water	12 C 2	10 Jul 03	07 Aug 03
230271		1	Water	12 D 1	10 Jul 03	07 Aug 03
230272		1	Water	12 D 2	10 Jul 03	07 Aug 03
230273		1	Water	12 E 1	10 Jul 03	07 Aug 03
230274		1	Water	12 E 2	10 Jul 03	07 Aug 03
230275		1	Water	12 F 1	10 Jul 03	07 Aug 03
230276		1	Water	12 F 2	10 Jul 03	07 Aug 03
230277		1	Water	NpCa CF	02 Jul 03	30 Jul 03
230278		1	Water	NpCa CU	02 Jul 03	30 Jul 03
230279		1	Water	NpCa DF	02 Jul 03	30 Jul 03
230280		1	Water	NpCa DU	02 Jul 03	30 Jul 03
230281		1	Water	NpCa EF	02 Jul 03	30 Jul 03
230282		1	Water	NpCa EU	02 Jul 03	30 Jul 03
230283		1	Water	NpCa FF	02 Jul 03	30 Jul 03
230284		1	Water	NpCa FU	02 Jul 03	30 Jul 03

Test: ICP-SWRI
 Section: METALS

Holding: 180 days from CED

ICP Analysis by SwRI Method (for Ca, Na, K, Mn, Mg and Sr only)

Cnt: 26

System ID	Type	Cont	Matrix	Customer ID	CED	Method Date
230259		1	Water	11 C 1	10 Jul 03	06 Jan 04
230260		1	Water	11 C 2	10 Jul 03	06 Jan 04
230261		1	Water	11 D 1	10 Jul 03	06 Jan 04
230262		1	Water	11 D 2	10 Jul 03	06 Jan 04
230263		1	Water	11 E 1	10 Jul 03	06 Jan 04
230264		1	Water	11 E 2	10 Jul 03	06 Jan 04
230265		1	Water	11 F 1	10 Jul 03	06 Jan 04
230266		1	Water	11 F 2	10 Jul 03	06 Jan 04
230267		1	Water	11 Q 1	10 Jul 03	06 Jan 04
230268		1	Water	11 Q 2	10 Jul 03	06 Jan 04

Laboratory Task Order**010004**

TO #: 030714-8 Revision: 0

SDG: 230259
VTSR: 07/14/03
CASE: CNWRA-Bradley WerlingSRR #'s: 24618
Client(s): DIV 20Project(s): 06002.01.141
Manager(s): DAMMANN, MIKE
To PM: 08/06/03
To QA: 08/08/03
To Client: 08/11/03

System ID	Type	Cont	Matrix	Customer ID	CED	Method Date
230269		1	Water	12 C 1	10 Jul 03	06 Jan 04
230270		1	Water	12 C 2	10 Jul 03	06 Jan 04
230271		1	Water	12 D 1	10 Jul 03	06 Jan 04
230272		1	Water	12 D 2	10 Jul 03	06 Jan 04
230273		1	Water	12 E 1	10 Jul 03	06 Jan 04
230274		1	Water	12 E 2	10 Jul 03	06 Jan 04
230275		1	Water	12 F 1	10 Jul 03	06 Jan 04
230276		1	Water	12 F 2	10 Jul 03	06 Jan 04
230277		1	Water	NpCa CF	02 Jul 03	29 Dec 03
230278		1	Water	NpCa CU	02 Jul 03	29 Dec 03
230279		1	Water	NpCa DF	02 Jul 03	29 Dec 03
230280		1	Water	NpCa DU	02 Jul 03	29 Dec 03
230281		1	Water	NpCa EF	02 Jul 03	29 Dec 03
230282		1	Water	NpCa EU	02 Jul 03	29 Dec 03
230283		1	Water	NpCa FF	02 Jul 03	29 Dec 03
230284		1	Water	NpCa FU	02 Jul 03	29 Dec 03

01-QPP-015
Division 01
Revision 4
November 2002

010005-

Document No. 3

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Chemistry and Chemical
Engineering Division

QUALITY PROJECT PLAN FOR

**PERFORMANCE OF CHEMICAL ANALYSES
FOR COMMERCIAL NUCLEAR POWER PLANTS
WITHIN THE DEPARTMENT OF ANALYTICAL
AND ENVIRONMENTAL CHEMISTRY**

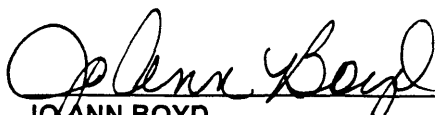
SOUTHWEST RESEARCH INSTITUTE
Chemistry and Chemical Engineering Division
6220 CULEBRA ROAD, SAN ANTONIO, TEXAS 78238

010006

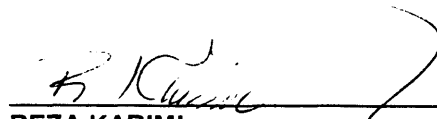
QUALITY PROJECT PLAN FOR PERFORMANCE OF CHEMICAL ANALYSES
FOR COMMERCIAL NUCLEAR POWER PLANTS
WITHIN THE DEPARTMENT OF ANALYTICAL AND ENVIRONMENTAL CHEMISTRY

SwRI AUTHORIZATION SIGNATORIES

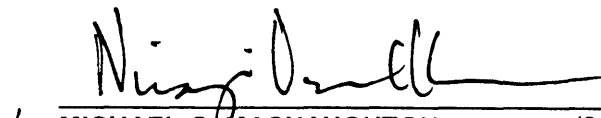
This is to certify that this Quality Project Plan of Southwest Research Institute (SwRI) has been reviewed and approved by the following personnel:


JOANN BOYD (210) 522-2169
Quality Assurance Manager

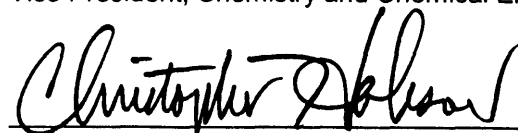
10/30/02
DATE


REZA KARIMI (210) 522-2412
Director, Department of Analytical and Environmental Chemistry

10/30/02
DATE


MICHAEL G. MACNAUGHTON (210) 522-5162
Vice President, Chemistry and Chemical Engineering Division

10/30/02
DATE


CHRISTOPHER HOBSON (210) 522-5838
Quality Assurance Engineer

10/30/02
DATE

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**PERFORMANCE OF CHEMICAL ANALYSES
FOR COMMERCIAL NUCLEAR POWER PLANTS WITHIN THE
DEPARTMENT OF ANALYTICAL AND ENVIRONMENTAL CHEMISTRY**

1.0 INTRODUCTION

This Quality Project Plan (QPP) defines the Quality Assurance (QA) program requirements for personnel providing the chemical analyses for commercial nuclear power plants. Southwest Research Institute (SwRI) *Program Quality Plan (PQP-Nuclear), Nuclear Services* shall implement the QA requirements. Project activities controlled by the PQP-Nuclear shall be accomplished as specified by the appropriate sections of **01-QAP-004, Quality Assurance Plan for Analytical and Environmental Services** and/or nationally recognized testing methods as specified on individual purchase orders. This QPP shall be applied to all projects initiated for nuclear utilities in the Department of Analytical and Environmental Chemistry. If, as a result of complexity, duration, or other factors, it is determined that a unique, project-specific quality plan is required, the project QAE shall notify the Project Manager and a project-specific quality plan shall be generated in accordance with **SOP-01-5.2, Preparation and Revision of Plans**.

2.0 SCOPE

This Quality Project Plan shall be applied to the chemical analyses performed for commercial nuclear power plants by the Department of Analytical and Environmental Chemistry within the Chemistry and Chemical Engineering Division. Although the majority of the work performed for nuclear facilities resides within the Department of Analytical and Environmental Chemistry, other departments within the division may utilize this Quality Project Plan as deemed necessary when nuclear projects are conducted.

3.0 REFERENCES

- 3.1 *SwRI Quality System Manual – 2000*
- 3.2 *10 CFR 50, Appendix B, ASME NQA-1*
- 3.3 *SwRI Program Quality Plan (PQP-Nuclear), Nuclear Services*
- 3.4 *01-QAP-004, Quality Assurance Plan for Analytical and Environmental Services*

4.0 APPLICABLE SECTIONS OF SwRI PROGRAM QUALITY PLAN (PQP-NUCLEAR)

4.1 Indoctrination and Training

- 4.1.1 Personnel performing duties affecting quality shall receive quality training to the *SwRI Program Quality Plan (PQP-Nuclear), Nuclear Services* prior to performing any work on projects for nuclear utilities. Institute Quality Systems (IQS) personnel shall perform this training and documentation shall be evident in the personnel training files maintained in Division Quality Assurance.
- 4.1.2 Indoctrination and training of personnel shall be conducted in accordance with **SOP-01-18.1, Qualification and Training**.

4.2 Qualification of Personnel

- 4.2.1 Testing personnel shall be designated as qualified to perform applicable project activities as specified in **SOP-01-18.1**, *Qualification and Training*.
- 4.2.2 During the performance of each testing process, testing personnel shall have access to the necessary documented procedures, i.e., QPP, QAP, Work Order, Division Quality System Standard Operating Procedures (SOPs), and applicable test/analytical procedures (TAPs) available for ready reference.
- 4.2.3 Any person who has not performed testing activities associated with any particular method being used for nuclear utilities projects for a period of one year shall be reevaluated prior to the conduct of the test.
- 4.2.4 Quality Assurance personnel witnessing the testing process for nuclear utilities shall have documented evidence of qualifications maintained by Institute Quality Systems.

4.3 Design Control

Not applicable to activities conducted within the Department of Analytical and Environmental Chemistry.

4.4 Right of Access

- 4.4.1 Procurement documents shall provide for access to the suppliers' facilities and records for surveillance, inspection, or audit by SwRI and clients.
- 4.4.2 Where appropriate, quality clause **Q32** shall be noted on the procurement documents to indicate that right of access for inspection and surveillance of activities associated with the order shall be afforded to SwRI and clients.

4.5 Control of Supplier-Generated Documents

- 4.5.1 Client documents shall be controlled in accordance with procedures under **SOP-01-5.0**, *Document and Data Control*, depending on the type of document supplied. These procedures provide the requirements for the preparation, review, approval, issue, distribution, and revision of documents controlled by the Chemistry and Chemical Engineering Division.
- 4.5.2 Documents may be controlled as Plans or Work Instructions and shall be accessible through the Division Intranet link, **Contract Requirements** as PDF files.
- 4.5.3 Nationally recognized test methods shall be of the most current issue or as specified in the purchase order. Work orders shall identify the applicable test methods to be used on the nuclear project.

4.6 Acceptance of Services Only

Not applicable to activities conducted within the Department of Analytical and Environmental Chemistry.

4.7 Commercial Grade Items

- 4.7.1 Where an item is to be incorporated into a test or deliverable to a client, and that item is not subject to design or specification requirements that are unique to nuclear facilities, used in applications other than nuclear facilities, and procured from the supplier on the specifications set forth in the manufacturers' published product and description, the item shall be considered "commercial grade".
- 4.7.2 Chemical reagents and standards used for testing purposes shall be ordered to specific chemical grades and certificates of analysis shall be required with each lot.
- 4.7.3 Controls for procurement planning, supplier selection, supplier performance evaluation, and acceptance of procured items and services other than chemical reagents and standards shall be as identified in **SOP-01-6.1**, *Purchasing*, and any referenced document within that procedure.
- 4.7.4 Receipt inspection of chemical reagents, standards, and test items for use on nuclear safety-related projects shall be performed by department personnel and documented on the *SwRI Receipt Traveler* or **FRM-109**, *Item Receipt Report*, as specified in **SOP-01-10.1**, *Inspection and Test Conduct*. Any discrepancy such as a damaged container or container label shall be documented on the form and the client shall be contacted for disposition.
- 4.7.5 Prior to acceptance of a commercial grade item, the receipt inspection shall determine the following:
- (a) Damage was not sustained during shipment;
 - (b) The item has satisfied the specified acceptance criteria; and
 - (c) Specified documentation, as applicable to the item, was received and is acceptable.
- 4.7.6 Receipt inspection of chemical reagents and standards shall also consist of verification of chemical type, grade, container integrity, certificate of analysis, and shelf life, where applicable. Upon acceptance of chemical reagents and standards, the containers shall be labeled with the following:
- (a) Chemical name;
 - (b) Chemical grade;
 - (c) Lot code;
 - (d) Date received; and
 - (e) Shelf life, when applicable.

-
- 4.7.7 Expired shelf life items shall not be used for testing purposes.
- 4.7.8 Lot codes of chemical reagents and standards used during equipment standardization and testing shall be recorded on the individual testing data sheets to provide traceability.
- 4.7.9 Samples supplied to SwRI for testing shall be received by the Sample Custodian and logged into the laboratory logbook. Sample documentation and sample custody shall be maintained in accordance with **TAP-01-0407-001**, *Sample Receipt and Login*, and **TAP-01-0407-035**, *Sample/Extract Storage and Custody*.
- 4.7.10 Samples supplied to SwRI for testing shall be labeled with the following:
- (a) Sample control number;
 - (b) Purchase order number;
 - (c) Purchase order line item number, as applicable;
 - (d) Work order number;
 - (e) Nuclear QA label; and
 - (f) Sample retention date, when applicable.
- 4.7.11 In the event that samples are damaged upon receipt, a **Sample Discrepancy Record** shall be generated from the Division Intranet.
- 4.7.12 The testing work order shall list the project number, tests required, test methods required, and shall be labeled *Nuclear Quality*.
- 4.7.13 Identification and traceability shall be maintained in accordance with **SOP-01-8.1**, *Item Identification and Traceability*.

4.8 Inspection

- 4.8.1 Inspection for acceptance shall be performed by qualified persons other than those who conduct or directly supervise the work being inspected.
- 4.8.2 Institute Quality System (IQS) personnel shall perform surveillance activities as required to ensure compliance with the contract and this Quality Project Plan. Specific areas in which IQS may perform surveillance activities include, but are not limited to, the following:
- (a) Receiving inspection and labeling of chemical reagents, standards, and testing samples;
 - (b) Testing processes;
 - (c) Calibration and major equipment;
 - (d) Sample and record retention; and

(e) Test records.

4.9 Inspection and Testing

- 4.9.1 Required tests for acceptance shall be conducted under appropriate environmental conditions using the tools and equipment necessary to conduct the test in a manner to fulfill test requirements and acceptance criteria.
- 4.9.2 Tests shall be conducted, controlled, and verified in accordance with **SOP-01-10.1, *Inspection and Test Conduct***.
- 4.9.3 Controls for measuring and test equipment shall be as specified in **SOP-01-11.1, *Control of Measuring and Test Equipment***.
- 4.9.4 Controls for identification, segregation, reporting, and resolution of nonconforming items and conditions shall be as specified in **SOP-01-13.1, *Nonconformance Reporting***.

4.10 Handling, Storage, Packaging, Preservation, and Delivery

- 4.10.1 Controls for handling, storage, packaging, preservation, and delivery of items are identified in **SOP-01-15.1, *Handling, Storage, Packaging, Preservation, and Delivery of Items***.
- 4.10.2 Samples specified on the purchase order to be returned to the client shall be prepared and packaged as specified on the purchase order. Each package shall be marked legibly and indelibly with the purchase order/release number and line item number(s) relevant to the package.

4.11 Quality Assurance Records

- 4.11.1 Quality assurance records shall furnish documentary evidence that items or activities meet specified quality requirements. Documents that ensure this evidence include **TAP-01-0407-014, *Inventory of Case File Purges***, and **SOP-01-16.1, *Storage and Maintenance of Quality Records***. These documents and this QPP ensure that QA records shall be legible, identifiable, retrievable, and maintained in dual storage.
- 4.11.2 Records shall be traceable to associated items and activities and shall accurately reflect the work accomplished or information required.
- 4.11.3 Documents shall be considered valid records only if stamped, initialed or signed and dated by authorized personnel or otherwise authenticated.
- 4.11.4 Records of test analyses performed by the Department of Analytical and Environmental Chemistry are classified as *nonpermanent* and shall be retained for a minimum of five years. Nonpermanent records are those required to show evidence that an activity was performed in accordance with the applicable requirements, but need not be retained for the life of the item. Based on the use of the final data, the client shall be responsible for determining and implementing permanent storage requirements.

4.11.5 In order to satisfy duplicate storage requirements, one copy of the QA record shall be maintained by the Project Manager in Building 70 and a separate copy shall be maintained in the Division Quality Assurance Archives in Building 201. Storage requirements shall be as stated in **SOP-01-16.1, *Storage and Maintenance of Quality Records***, to ensure protection against the risk of damage or destruction.

4.12 10 CFR, Part 21

4.12.1 SwRI procurement documents shall include requirements for reporting and approving disposition of supplier nonconformances and, when required, compliance to 10 CFR, Part 21.

4.12.2 The Manager of Institute Quality Assurance or Director of Institute Quality Systems shall determine if a nonconforming condition is reportable under 10 CFR, Part 21, and initiate reporting and condition in accordance with the SwRI Operating Policies and Procedures (OPP). Safety hazards or defects that could create a substantial safety hazard shall be reported. Substantial safety hazard means a loss of safety function to the extent that there is a major reduction in the degree of protection provided to public health and safety.

4.13 Certified Test Report

The Project Manager and Institute Quality Assurance Manager as complying with all contractual requirements shall certify test reports. The certified test report shall reference the purchase order/release number, the test methods performed, and the purchase order/release line item number.

4.14 Valid Documents List

The Department of Analytical and Environmental Chemistry work order shall specify all applicable documents and appropriate document revision level for each document. The work order shall then serve as the Valid Documents List (VDL) for each individual project.

5.0 HISTORY OF REVISIONS

Revision 4

Title of document changed from the Standard Project Quality Plan *SPQP-CH/AN* to Quality Project Plan, *QPP-015*

Extensive revision to comply with Project Quality Plan PQP-Nuclear, *Nuclear Services*, which replaces SwRI NQAPM, *Nuclear Quality Assurance Program Manual*.

**SOUTHWEST RESEARCH INSTITUTE
NUCLEAR PROJECT
CLIENT: Division 20
TASK ORDER: 030714-8
SRR: 24618
SDG: 230259
CASE: CNWRA
VTSR: July 14, 2003
PROJECT#: 06002.01.141**

Chain of Custody/Login Paperwork

5597

Shipper Name/ Address Bradley Werling CNWRA - Div 20 BLD 57	SAMPLE LIST/CHAIN OF CUSTODY Southwest Research Institute Chemistry and Chemical Engineering Division 6220 Culebra Road San Antonio, Texas 78238-5166										Requested Turnaround: <input type="checkbox"/> 2 Weeks <input type="checkbox"/> 3 Weeks <input checked="" type="checkbox"/> Other: <u>4 weeks</u>		
	Client	Client Purchase Order/Other ID					Site/Zone ID					SwRI Contact Mike Dammann	
Analyses Requested													
Sample ID	Sample Collection Date (mm/dd/yy)	Sample Collection Time	Matrix Type	Sample Type	# of Containers	Ca, Na, K, Mn, Mg, Sr by ICP						REMARKS Preservation a = HCl to pH <2 b = HNO ₃ to pH <2 c = H ₂ SO ₄ to pH <2 d = NaOH to pH >12 e = Cool (4°C±2°C) f = Other (specify) none	
✓ NpCa CF	12-03		W		1	X					20cpm	intact	Nuclear Safety related - use appropriate QA procedures
✓ NpCa CU						X							
✓ NpCa DF						X							
✓ NpCa DU						X							
✓ NpCa EF						X							
✓ NpCa EU						X							
✓ NpCa FF						X							Pol - Bradley Werling & 6565
✓ NpCa FU						X							
Matrix Types: A - Air B - Biota D - Dust E - Emission/Stack L - Liquid P - Product Sd - Solid S - Soil SED - Sediment T - Tissue W - Water WP - Wipe		Sample Types: D - Duplicate ER - Equipment Rinsate ES - Environmental Sample FB - Field Blank FD - Field Duplicate MS - Matrix Spike MSD - Matrix Spike Dup TB - Trip Blank		Relinquished by (Print/Signature) Brad Werling / Brad Werling				Date	Time	SwRI Project#: 1.20.06002.01.141			
Temp: 22°C Therm #: 026				Received by (Print/Signature)				Date	Time	Received by SwRI Lab: (Signature) Kemp			
Comments: non-radioactive 556/82				Relinquished by (Print/Signature)				Date	Time	Date 9/14/03 Time 0930			
				Relinquished by (Print/Signature)				Date	Time	Samples Disposed: Date Time			
				Relinquished by (Print/Signature)				Date	Time	Samples Disposed by:			

010014

5597

Shipper Name/Address		SAMPLE LIST/CHAIN OF CUSTODY										Requested Turnaround:			
Bradley Werling CNWRA - Div 20 BLD 57		Southwest Research Institute Chemistry and Chemical Engineering Division 6220 Culebra Road San Antonio, Texas 78238-5166										<input type="checkbox"/> 2 Weeks <input type="checkbox"/> 3 Weeks <input checked="" type="checkbox"/> Other: <u>4 weeks</u>			
		Client Purchase Order/Other ID					Site/Zone ID					SwRI Contact			
Client		Analyses Requested										SwRI Contact			
Sample ID	Sample Collection Date (mm/dd/yy)	Sample Collection Time	Matrix Type	Sample Type	# of Containers	Ca, Na, K, Mn, Mg, Sr by ICP									REMARKS
											20CPM	intact		Preservation a = HCl to pH <2 b = HNO ₃ to pH <2 c = H ₂ SO ₄ to pH <2 d = NaOH to pH >12 e = Cool (4°C±2°C) <input checked="" type="checkbox"/> = Other (specify) <u>none</u>	
✓ 11C1	7-10-03		W		1	X								Nuclear Safety related - use appropriate QA procedures PO - Brad Werling x6565	
✓ 11C2						X									
✓ 11D1						X									
✓ 11D2						X									
✓ 11E1						X									
✓ 11E2						X									
✓ 11F1						X									
✓ 11F2						X									
✓ 11Q1	7-10-03		W		1	X									
✓ 11Q2					1	X									
Matrix Types: A - Air B - Biota D - Dust E - Emission/Stack P - Product S - Soil SED - Sediment T - Tissue W - Water WP - Wipe Temp: <u>22°C</u>		Sample Types: D - Duplicate ER - Equipment Rinsate FB - Field Blank FD - Field Duplicate MS - Matrix Spike MSD - Matrix Spike Dup TB - Trip Blank Therm #: <u>026</u>		Relinquished by (Print/Signature) Received by (Print/Signature)				Date Time		SwRI Project# <u>120.06002.01</u> Received by SwRI Lab: (Signature)		Date Time		Samples Disposed:	
Comments: Radioactive - max Np 237 values 8.5×10^{-7} M or 1.4×10^{-4} μ g/mL 556/97				Relinquished by (Print/Signature)				Date Time		Samples Disposed by:		Date Time		010015	

Mike Damman

7-14-03



Southwest Research Institute
LOG-IN CHECKLIST
 Sample Receipt Report No.: 24618

010017

Project Information			
All product information shall be derived from a contract, statement of work (SOW), or project manager (PM).			
Previous PM information	Yes	<input checked="" type="checkbox"/>	No <input type="checkbox"/>
Current PM information	Yes	<input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sponsor's Documentation			
All original documentation must be attached to the work order and sent to Div 01 Quality Assurance (DQA).			
Delivery documentation (*) = (Tape on 8 1/2 x 11 white paper)	Yes	<input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hand carried	Yes	<input checked="" type="checkbox"/>	No <input type="checkbox"/>
Correspondence	Yes	<input checked="" type="checkbox"/>	No <input type="checkbox"/>
Custody seals*	Yes	<input type="checkbox"/>	No <input checked="" type="checkbox"/>
Chain-of-custody/Traffic report	Yes	<input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample tags* (Confirm with container information before removal)	Yes	<input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hazard notifications	Yes	<input checked="" type="checkbox"/>	No <input type="checkbox"/>
Product Condition			
Sample(s) shall not be left unattended once an ice chest has been opened.			
Sample(s) received intact	Yes	<input checked="" type="checkbox"/>	No <input type="checkbox"/>
Container(s) received leaking	Yes	<input type="checkbox"/>	No <input checked="" type="checkbox"/>
Container(s) received damaged	Yes	<input type="checkbox"/>	No <input checked="" type="checkbox"/>
Lid(s) received damaged	Yes	<input type="checkbox"/>	No <input checked="" type="checkbox"/>
Product Preparation			
FRM-115 (pH) Preservation Report / Metals & Wetchem H2O	Yes	<input type="checkbox"/>	No <input checked="" type="checkbox"/>
Product Storage			
Sample(s) shall be stored in a designated location with their corresponding sample control records (SCR).			
Sample(s) in designated location	Yes	<input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample Receipt Report			
All copies must be legible.			
Computerized sample receipt report with original documents	Yes	<input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample custodian signature and date on all original documents.	Yes	<input checked="" type="checkbox"/>	No <input type="checkbox"/>
Copy of sample receipt report to PM	Yes	<input checked="" type="checkbox"/>	No <input type="checkbox"/>
PM sample receipt report approval with initial and date	Yes	<input checked="" type="checkbox"/>	No <input type="checkbox"/>
Case file documents to DQA	Yes	<input checked="" type="checkbox"/>	No <input type="checkbox"/>
Print sample log-in page and place in log-in notebook	Yes	<input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain-of-Custody/Traffic Report			
Sample Custodian's signature, date, and time	Yes	<input checked="" type="checkbox"/>	No <input type="checkbox"/>
Document thermometer no. / temperature (Confirm calibration is current)	Yes	<input checked="" type="checkbox"/>	No <input type="checkbox"/>
Document condition of sample(s)	Yes	<input checked="" type="checkbox"/>	No <input type="checkbox"/>
FRM-109			
Discrepancies	Yes	<input type="checkbox"/>	No <input checked="" type="checkbox"/>
FRM-109 to PM	Yes	<input type="checkbox"/>	No <input checked="" type="checkbox"/>
FRM-109 to Client (Only for required contracts)	Yes	<input type="checkbox"/>	No <input checked="" type="checkbox"/>
FRM-109 to Inorganics for discrepancies of FRM-115	Yes	<input type="checkbox"/>	No <input checked="" type="checkbox"/>
Ice Chest Shipment			
Clean ice chest/Discard used bags and ice/Return Sponsor's packing material	Yes	<input type="checkbox"/>	No <input checked="" type="checkbox"/>
SwRI shipping ticket with project identification	Yes	<input type="checkbox"/>	No <input checked="" type="checkbox"/>
Log-In Closure			
Sample Custodian's Signature: <i>Khalid E</i>	Date: 07/14/03	Time: 11:49 AM	

SAMPLE LOG-IN SHEET

010018

Lab Name: Southwest Research Institute
 Received By (Print Name): KHALED EDRISI
 Received By (Signature): *[Signature]*
 Page 1 of 2
 Log-in Date: 07/14/2003

Case Number: CNWRA
 Sample Delivery Group No.:
 SAS Number: N/A

Remarks: 06002.01.141

		Corresponding			Remarks: Condition of Sample Shipment, etc
		EPA Sample #	Sample Tag #	Assigned Lab #	
1. Custody Seal(s)	Present <u>Absent*</u> Intact/Broken	11 C 1	None	230259	Intact
		11 C 2	None	230260	Intact
2. Custody Seal Nos.	N/A	11 D 1	None	230261	Intact
3. Chain-of-Custody Records	<u>Present</u> /Absent*	11 D 2	None	230262	Intact
4. Traffic Reports or Packing Lists	Present <u>Absent</u>	11 E 1	None	230263	Intact
5. Airbill	Airbill/Sticker <u>Present</u> /Absent*	11 E 2	None	230264	Intact
		11 F 1	None	230265	Intact
6. Airbill No.	HAND DELIVERED	11 F 2	None	230266	Intact
7. Sample Tags	Present <u>Absent</u>	11 Q 1	None	230267	Intact
Sample Tag Numbers	Listed <u>Not</u> listed on Chain of Custody	11 Q 2	None	230268	Intact
		12 C 1	None	230269	Intact
8. Sample Condition	<u>Intact</u> /Broken*/Leaking	12 C 2	None	230270	Intact
9. Cooler Temperature	22.0C	12 D 1	None	230271	Intact
10. Does Information on custody records, traffic reports, and sample tags agree?	<u>Yes</u> /No*	12 D 2	None	230272	Intact
		12 E 1	None	230273	Intact
11. Date Received at Lab	07/14/2003	12 E 2	None	230274	Intact
12. Time Received	09:30:00	12 F 1	None	230275	Intact
		12 F 2	None	230276	Intact
	Sample Transfer	NpCa CF	None	230277	Intact
Fraction	Fraction	NpCa CU	None	230278	Intact
Inorganics		NpCa DF	None	230279	Intact
Area # KE	Area # 2/14/03	NpCa DU	None	230280	Intact
By KE	By KE	NpCa EF	None	230281	Intact
On 7/14/03	On				

* Contact SMO and attach record of resolution

Reviewed By: CYNTHIA A. SAUCEDA
 Date: 07/15/2003
 Logbook No.: Sample Receipt (24618)
 Logbook Page No.: 4767 (1, 2 of 3)

SAMPLE LOG-IN SHEET

010019

Lab Name
Southwest Research Institute

Page 2 of 2

Received By (Print Name)

Log-in Date

KHALED EDRISI

07/14/2003

Received By (Signature)



Case Number

CNWRA

Sample Delivery Group No.

SAS Number

N/A

Remarks: 06002-01.141

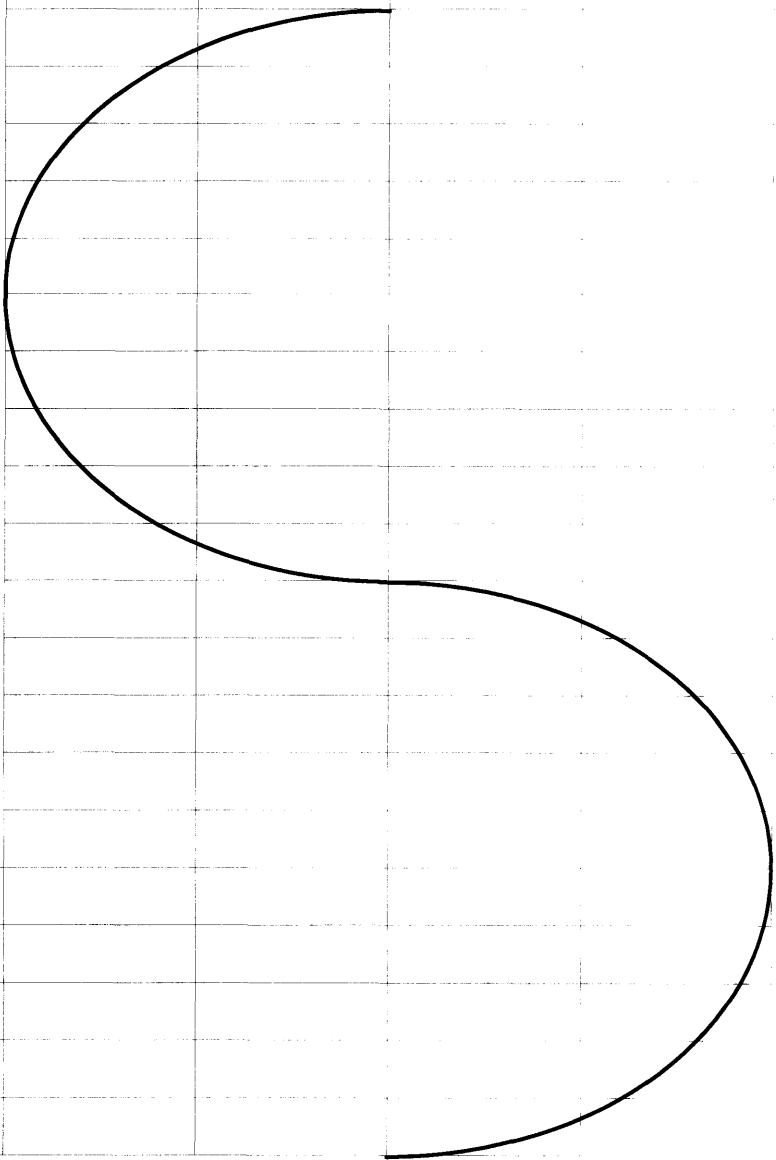
Remarks:
Condition of Sample
Shipment, etc

- 1. Custody Seal(s) Present Absent*
Intact/Broken
- 2. Custody Seal Nos. N/A
- 3. Chain-of Custody Records Present Absent*
- 4. Traffic Reports or Packing Lists Present Absent
- 5. Airbill Airbill/Sticker Present Absent*
- 6. Airbill No. HAND DELIVERED
- 7. Sample Tags Present Absent
- Sample Tag Numbers Listed Not listed on Chain of Custody
- 8. Sample Condition Intact/Broken*/Leaking
- 9. Cooler Temperature 22.0C
- 10. Does Information on custody records, traffic reports, and sample tags agree? Yes/No*
- 11. Date Received at Lab 07/14/2003
- 12. Time Received 09:30:00

Corresponding

EPA Sample #	Sample Tag #	Assigned Lab #
NpCa EU	None	230282
NpCa FF	None	230283
NpCa FU	None	230284

Intact
Intact
Intact



Sample Transfer

Fraction Inorganics	Fraction
Area # Inorg 1	Area # 7/14/03
By KE	By KE
On 7/14/03	On

* Contact SMO and attach record of resolution

Reviewed By CYNTHIA A. SAUCEDA
Date 07/15/2003

Logbook No. Sample Receipt (24618)
Logbook Page No. 4767 (1, 2 of 3)

**SOUTHWEST RESEARCH INSTITUTE
NUCLEAR PROJECT
CLIENT: Division 20
TASK ORDER: 030714-8
SRR: 24618
SDG: 230259
CASE: CNWRA
VTSR: July 14, 2003
PROJECT#: 06002.01.141**

Copies of Login Book

Sample Login Book

010020

Jul 14, 2003

SwRI Login Area
Division 1

Sample Receipt: 24616		Project: 05750.01.004	Client: Harris County Po
VTSR Date: Jul 14, 2003		VTSR Time: 10:20:00	Manager: TAN, CK
System ID	Customer Sample ID	Matrix	
230254	KM-028 Can #19	Air	
230255	KM-029 Can #182	Air	

Sample Receipt: 24617		Project: 06002.01.141	Client: DIV 20
VTSR Date: Jul 14, 2003		VTSR Time: 09:30:00	Manager: DAMMANN, MIKE
System ID	Customer Sample ID	Matrix	
230256	PB2-503-1D	Water	
230257	PB4-503-1D	Water	
230258	Pocos-503-1D	Water	

Sample Receipt: 24618		Project: 06002.01.141	Client: DIV 20
VTSR Date: Jul 14, 2003		VTSR Time: 09:30:00	Manager: DAMMANN, MIKE
System ID	Customer Sample ID	Matrix	
230259	11 C 1	Water	
230260	11 C 2	Water	
230261	11 D 1	Water	
230262	11 D 2	Water	
230263	11 E 1	Water	
230264	11 E 2	Water	
230265	11 F 1	Water	
230266	11 F 2	Water	
230267	11 Q 1	Water	
230268	11 Q 2	Water	
230269	12 C 1	Water	
230270	12 C 2	Water	
230271	12 D 1	Water	
230272	12 D 2	Water	
230273	12 E 1	Water	
230274	12 E 2	Water	

010021

Sample Login Book

Jul 14, 2003

SwRI Login Area
Division 1

Sample Receipt: 24618		Project: 06002.01.141	Client: DIV 20
VTSR Date: Jul 14, 2003		VTSR Time: 09:30:00	Manager: DAMMANN, MIKE
System ID	Customer Sample ID	Matrix	
230275	12 F 1	Water	
230276	12 F 2	Water	
230277	NpCa CF	Water	
230278	NpCa CU	Water	
230279	NpCa DF	Water	
230280	NpCa DU	Water	
230281	NpCa EF	Water	
230282	NpCa EU	Water	
230283	NpCa FF	Water	
230284	NpCa FU	Water	

Sample Receipt: 24619		Project: 01.00751QC.006	Client: DIV 01 (VOA)
VTSR Date: Jul 14, 2003		VTSR Time: 11:23:00	Manager: SHANNON, KEVIN
System ID	Customer Sample ID	Matrix	
230289	Canister 33	Air	

Sample Receipt: 24620		Project: 06053.04.001	Client: Chase Scientific
VTSR Date: Jul 14, 2003		VTSR Time: 14:30:00	Manager: TAN, CK
System ID	Customer Sample ID	Matrix	
230297	07030005	Solid	
230298	07030006	Solid	
230299	07030007	Solid	

Sample Receipt: 24621		Project: 01.01446.003	Client: W.L. GORE
VTSR Date: Jul 14, 2003		VTSR Time: 14:30:00	Manager: DAMMANN, MIKE
System ID	Customer Sample ID	Matrix	
230300	Weekly Sample #9078-MT2 6-30-03	Liquid	

**SOUTHWEST RESEARCH INSTITUTE
NUCLEAR PROJECT
CLIENT: Division 20
TASK ORDER: 030714-8
SRR: 24618
SDG: 230259
CASE: CNWRA
VTSR: July 14, 2003
PROJECT#: 06002.01.141**

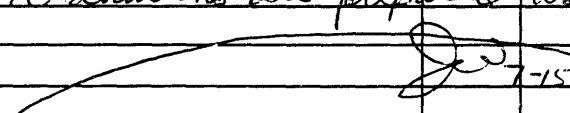
RAW DATA

TRACE METALS PREPARATORY LABORATORY DIGESTION LOG

SOUTHWEST RESEARCH INSTITUTE
SAN ANTONIO, TEXAS 78228

BOOK / PAGE: 54 103

CLIENT(S): DIU 20 010023
 TASK ORDER(S): 030714-8 SDG(S): 23 0259
 PROJECT NO(S): 06002.01.141
 METHOD: 3005A 3050B 3050B-7.5 3010A 3020A 7760A 7740A HClO₄ H₂SO₄ Sb
 Microwave Fusion Teflon Rock OTHER df 10 dilutions
 MATRIX: Water Soil Biota Solid Liquid TCLP Ext OTHER
 INSTRUMENT: GFAA ICP ICP-MS IC FLAA HYDRIDE OTHER
 ACID INORG #: HNO₃# HCl# H₂SO₄# HClO₄# HF#
 INTERNAL STD: Sc @ 10 PPM Be @ 10 PPM SOURCE: IV INORG# 4157 EXP: 7/04 AMT: 50NL
 Oven/Hotplate ID: Temperature (°C):

SAMPLE IDENTIFICATION	pH	WT (g)	I.V. (mL)	F.V. (mL)	
PBW - G-1502			5	5	
LLSW - G-1502 *			5		
230272			500NL		
0272d					
0273 ⁷⁻¹⁵⁻⁰³					
0273 * 0275 * (E)					
0274					
0275					
0276					
0277					
0278					
0279					
0280					
0281					
0282					
0283					
↓ 0284			↓	↓	
* Spike 50NL Spike1 Sp# 3609			Exp 7/31/03		
↓ 50NL I-CAL1 Sp# 4070			Exp 5/04		
↓ 20NL Sr @ 1kppm IV# 4154			Exp 7/04		
** RLB-02-025-01 10% HNO ₃ / 5% HCL			Exp 8/03		
PBW and LLSW are prepared as 5mL - **					
df 10 dilutions are prepared as 500mL sample: 4.5mL - **					
					LOCATION:

PREPARED BY: John Wilks DATE: 7-15-03
 REVIEWED BY: [Signature] DATE: 7-15-03
 DISPOSAL INT/DATE/LOC: _____

TRACE METALS PREPARATORY LABORATORY DIGESTION LOG

SOUTHWEST RESEARCH INSTITUTE
SAN ANTONIO, TEXAS 78228

BOOK / PAGE: 54 104

CLIENT(S): DIV 20 010024
 TASK ORDER(S): 030701-4 SDG(S): 229384
 PROJECT NO(S): 06002.01.071
 METHOD: 3005A 3050B 3050B-7.5 3010A 3020A 7760A 7740A HClO₄ H₂SO₄ Sb
 Microwave Fusion Teflon Rock OTHER df 2 dilutions
 MATRIX: Water Soil Biota Solid Liquid TCLP Ext OTHER
 INSTRUMENT: GFAA ICP ICP-MS IC FLAA HYDRIDE OTHER
 ACID INORG #: HNO₃# HCl# H₂SO₄# HClO₄# HF#
 INTERNAL STD: Sc @ 10 PPM Be @ 10 PPM SOURCE: 10 INORG# 4151 EXP: 7/04 AMT: 50NL
 Oven/Hotplate ID: Temperature (°C):

SAMPLE IDENTIFICATION	pH	WT (g)	I.V. (mL)	F.V. (mL)	
PBW-G15W3			5	5	
LCSW-G15W3 *			5		
229384 df 2			2.5		
9385					
9386					
9387					
9388					
9388d					
9389					
9389⑤ *					
9390					
9391					
9392					
9393					
9394					
✓ 9395			↓	↓	
* Spike 50NL Sp. Kel		Spex# 3609			Exp 7/31/03
↓ 20NL D-CALI		Spex# 4070			Exp 5/04
* * RLB-02-025-01		1% HNO ₃ / 5% HCL			Exp 8/03
PBW and LCSW are prepared as 5mls **					
df 2 dilutions are prepared as 2.5mls sample = 2.5mls **					
Spex# 715-03					
					LOCATION: N/A

PREPARED BY: John Wilby
 REVIEWED BY: Marcia Oliver
 DISPOSAL INT/DATE/LOC: _____

DATE: 7-15-03
 DATE: 7-15-03

TRACE METALS PREPARATORY LABORATORY DIGESTION LOG

SOUTHWEST RESEARCH INSTITUTE
SAN ANTONIO, TEXAS 78228

BOOK / PAGE: 54 105

CLIENT(S): DIV 20 refer to page 100 of 54
 TASK ORDER(S): 030709-8 SDG(S): 229950
 PROJECT NO(S): 06002.CI.081 **010025**
 METHOD: 3005A 3050B 3050B-7.5 3010A 3020A 7760A 7740A HClO₄ H₂SO₄ Sb
 Microwave Fusion Teflon Rock OTHER df 33.3 dilutions
 MATRIX: Water Soil Biota Solid Liquid TCLP Ext OTHER
 INSTRUMENT: GFAA ICP ICP-MS IC FLAA HYDRIDE OTHER
 ACID INORG #: HNO₃# HCl# H₂SO₄# HClO₄# HF#
 INTERNAL STD: Sc @ 10 PPM Be @ 10 PPM SOURCE: UV INORG# 4151 EXP: 7/04 AMT: 50mL
 Oven/Hotplate ID: _____ Temperature (°C): _____

SAMPLE IDENTIFICATION	pH	WT (g)	I.V. (mL)	F.V. (mL)	
PBW-G15W4			5	5	
LCSW-G15W4 *			5	↓	
229950-1 ✓ df 33.3			150mL	↓	
229951-2r			↓	↓	
229953-2r			↓	↓	
* Spike 100 mL Sp. Ke-1		Spex# 3609	Exp 7/31/03		
↓ 20 mL I-CAL		Spex# 4070	Exp 5/04		
↓ 20 mL WE 1Kppm		UV# 3568	Exp 8/03		
↓ 20 mL McE 1Kppm		UV# 3956	Exp 5/04		
** -RLB-02-025-01	19%	HNO ₃ / 5%	HCL	Exp 8/03	
PBW and LCSW are prepared as 5mLs - **					
df 33.3 dilutions are prepared as 150mL sample: 4.85mLs **					
<div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block;"> John Willy 7-15-03 </div>					
					LOCATION: N/A

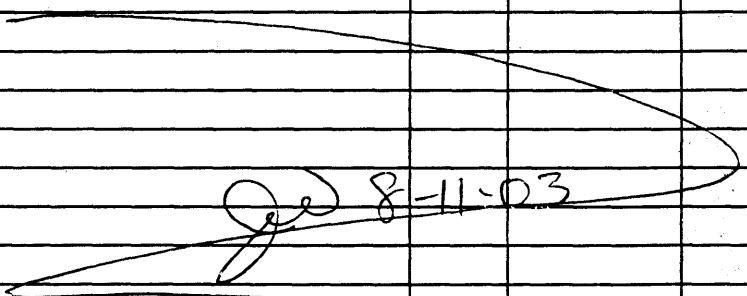
PREPARED BY: John Willy DATE: 7-15-03
 REVIEWED BY: Kerene O'Brien DATE: 7-15-03
 DISPOSAL INT/DATE/LOC: _____

TRACE METALS PREPARATORY LABORATORY DIGESTION LOG

SOUTHWEST RESEARCH INSTITUTE
SAN ANTONIO, TEXAS 78228

BOOK / PAGE: 54 154

CLIENT(S): DIU 20 010026
 TASK ORDER(S): 030714-8 SDG(S): 230529
 PROJECT NO(S): 06002.01.141
 METHOD: 3005A 3050B 3050B-7.5 3010A 3020A 7760A 7740A HClO₄ H₂SO₄ Sb
 Microwave Fusion Teflon Rock OTHER ALiquots & 1df 10 dilution
 MATRIX: Water Soil Biota Solid Liquid TCLP Ext OTHER
 INSTRUMENT: GFAA ICP ICP-MS IC FLAA HYDRIDE OTHER
 ACID INORG #: HNO₃# ** HCl# ** H₂SO₄# HClO₄# HF#
 INTERNAL STD: Sc @ 10 PPM Be @ 10 PPM SOURCE: INORG# 4151 EXP: 7/04 AMT: 50mL
 Oven/Hotplate ID: Temperature (°C):

SAMPLE IDENTIFICATION	pH	WT (g)	I.V. (mL)	F.V. (mL)	
PBW - H11W1			5	5	
LCSW - H11W1 *			↓	↓	
230260(3) *			↓	↓	
0270 - str			↓	↓	
0270 - df 10			500mL	↓	
0279 - str			5	↓	
0282 - str			5	↓	
* Spike 50mL Sp. KCl Sp. # 4074 Exp 5/04					
↓ 20mL I-CAL Sp. # 4070 Exp 5/04					
↓ 20mL Sr @ 1Kppm Sp. # 4154 Exp 7/04					
** - RLB-02-026-05 17% HNO ₃ / 5% HCl Exp 9-4-03					
PBW and LCSW are prepared as 5mLs - **					
df 10 dilution is prepared as 500mL sample: 4.5mLs - **					
					
					LOCATION: N/A

PREPARED BY: John Wills DATE: 8-11-03
 REVIEWED BY: [Signature] DATE: 8-11-03
 DISPOSAL INT/DATE/LOC: _____

TRACE METALS PREPARATORY LABORATORY DIGESTION LOG

SOUTHWEST RESEARCH INSTITUTE
SAN ANTONIO, TEXAS 78228

BOOK / PAGE: 53 212

CLIENT(S): Div. 20
 TASK ORDER(S): 030714-8 SDG(S): 230259 **010027**
 PROJECT NO(S): 06002.01.141
 METHOD: 3005A 3050B 3050B-7.5 3010A 3020A 7760A 7740A HClO₄ H₂SO₄ Sb
 Microwave Fusion Teflon Rock OTHER aliquot
 MATRIX: Water Soil Biota Solid Liquid TCLP Ext OTHER
 INSTRUMENT: GFAA ICP ICP-MS IC FLAA HYDRIDE OTHER
 ACID INORG #: HNO₃# HCl# H₂SO₄# HClO₄# HF#
 INTERNAL STD: Sc @ 10 PPM Be @ 10 PPM SOURCE: IV INORG# 4151 EXP: 7/04 AMT: 50ul
 Oven/Hotplate ID: Temperature (°C):

SAMPLE IDENTIFICATION	pH	WT (g)	I.V. (mL)	F.V. (mL)	
PBW- H05L1			5	5	
LCSW-H05L1 *					
230259					
60					
61					
62					
63					
64					
65					
66					
67					
67d					
68					
68S *					
69					
70					
71					
* Spike - 1 50mL (Spike # ^{4074 W 8/5/03} 3604, Exp 5/04) 20mL ICA L-1 (Spike # 4070, Exp 5/04) 20mL Sr (IV, # 4154, Exp 7/04)					
RLB-02-026-05, exp 9/4/03, 1% HNO ₃ & 5% HCl blank used in PBW & LCSW. only.					
W 8/5/03					LOCATION:

PREPARED BY: Aura Wright DATE: 8/5/03
 REVIEWED BY: B. J. ... DATE: 8/5/03
 DISPOSAL INT/DATE/LOC: _____

TRACE METALS PREPARATORY LABORATORY DIGESTION LOG

SOUTHWEST RESEARCH INSTITUTE
SAN ANTONIO, TEXAS 78228

BOOK / PAGE: 53 213

010028

CLIENT(S): Div. 20

TASK ORDER(S): 030714-8 SDG(S): 280259

PROJECT NO(S): 06002.01.141

METHOD: 3005A 3050B 3050B-7.5 3010A 3020A 7760A 7740A HClO₄ H₂SO₄ Sb

Microwave Fusion Teflon Rock OTHER aliquot

MATRIX: Water Soil Biota Solid Liquid TCLP EXT OTHER

INSTRUMENT: GFAA ICP ICP-MS IC FLAA HYDRIDE OTHER

ACID INORG #: HNO₃# HCl# H₂SO₄# HClO₄# HF#

INTERNAL STD: Sc @ 10 PPM Be @ 10 PPM SOURCE: IV INORG# 4151 EXP: 7/04 AMT: 50μL

Oven/Hotplate ID: — Temperature (°C): —

SAMPLE IDENTIFICATION	pH	WT (g)	I.V. (mL)	F.V. (mL)
PBW-H05L2			5	5
LCSW-H05L2 *				
230272				
73				
74				
75				
76				
77				
77d				
78				
78.5 *				
79				
80				
81				
82				
83				
84				
* 50ml spike-1 (SPLX, #4074 exp 5/04)				
20ml ICAL-1 (SPLX, 4070, exp 5/04)				
20ml Sr (IV, #4154, exp 7/04)				
RLB-02-026-05, exp 9/4/03, 10% HNO ₃ 5% HCl blank used in PBW & LCSW only.				
WJ 8/5/03				
				LOCATION:

PREPARED BY: Aura Wright DATE: 8/5/03

REVIEWED BY: [Signature] DATE: 8/5/03

DISPOSAL INT/DATE/LOC: _____

Trace Metals Reagent Logbook 010029

SOUTHWEST RESEARCH INSTITUTE
SAN ANTONIO, TEXAS 78228

BOOK / PAGE: 02 025

Reagent I.D.:	Preparation Description:	Prep Date:	Exp Date:	Initials:
RLB-02-025-01	10% HNO ₃ / 5% HCL	7-15-03	8-15-03	Jed
↓	add di water to a 250 mL Nalgene bottle, add 2.5 mL HNO ₃ invoy # 4164	↓	↓	↓
↓	add 12.5 mL HCL invoy # 4157, F.V. to 250 mL	↓	↓	↓
RLB-02-025-02	0.5% HNO ₃	7-21-03	8-21-03	Jed
↓	to a 500 mL Nalgene bottle add 100 mL di water, add 2.5 mL HNO ₃ invoy # 4165, F.V. to 500 mL w/ di water	↓	↓	↓
RLB-02-025-03	0.1 N HNO ₃	7-21-03	8-21-03	Jed
↓	to a 50 mL Nalgene bottle add 298 mL di water, add 1890 μL HNO ₃ invoy # 4165, F.V. to 300 mL with di water	↓	↓	↓
RLB-02-025-04	50% HNO ₃	7-22-03	8-22-03	Jed
↓	to a 250 mL Nalgene bottle add 75 mL di water, add 75 mL HNO ₃ invoy # 4166 F.V. is 150 mL	↓	↓	↓
RLB-02-025-05	3% H ₂ O ₂	7-22-03	7-29-03	Jed
↓	add 48.5 mL di water to a 125 mL Nalgene bottle, add 1.5 mL H ₂ O ₂ invoy # 3413 F.V. is 50 mL	↓	↓	↓
<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> W 7/22/03 </div>				

✓ Laura Wright
7/22/03

Trace Metals Reagent Logbook 010030

SOUTHWEST RESEARCH INSTITUTE
SAN ANTONIO, TEXAS 78228

BOOK / PAGE: 02 026

Reagent I.D.:	Preparation Description:	Prep Date:	Exp Date:	Initials:
RLB-02-026-01	1N HCL #4158 4.125 mL HCL / FV 50 mL diH ₂ O	7/22/03	AN	W
RLB-02-026-02	1% HNO ₃ / 5% HCL add 150mls di to 250ml Nalgene bottle, add 2.5mls HNO ₃ - invy # 4168 add 12.5mls HCL - invy # 4160 F.V. to 250mls w/ di water	7-30-03	8-30-03 ALL used	JW
RLB-02-026-03	1% HNO ₃ / 5% HCL add 150mls di water to a 250ml Nalgene bottle, add 2.5mls HNO ₃ - invy # 4168 add 12.5mls HCL - invy # 4160 F.V. to 250mls with di water	7-30-03	8-30-03	JW
RLB-02-026-04	5% HNO ₃ 25mL # 4168 → 500mL FV	7/30/03	AN	W
RLB-02-026-05	1% HNO ₃ / 5% HCL to a 250mL Nalgene bottle add 10mls di H ₂ O, add 2.5mls HNO ₃ - invy # 4168, add 12.5mls HCL - invy # 4160, FV to 250mls	8-4-03	9-4-03	JW
RLB-02-026-06	Aqua Regia to a 60mL Nalgene bottle add 10mls HNO ₃ - invy # 4193, add 30mls HCL invy # 4161 F.V. 40mls	8-7-03	8-8-03	JW

SOUTHWEST RESEARCH INSTITUTE®

010031

6220 Culebra Rd
San Antonio, Texas 78228

TJA TRACE ICP DAILY LOG

ANALYST JD

DATE 7.15.03

As 189.042 Profile Line As Intensity: 346.101

PEAK POSITION 03373

VERNIER POSITION 248

AUTOSAMPLER Yes No

QC PREP DATE:	
CCV/ICV	<u>03G09</u>
CRI	
ICSA	
ICSAB	<u>JD 7.15.03</u>

STDs PREP DATE:	
CLP STD1 SC	<u>03G08</u>
CLP STD2 SC	<u>03F23</u>
CLP STD3 SC	<u>03F19</u>
CLP STD4 SC	<u>03G01</u>
CLP STD5 SC	<u>03G01</u>
CLP STD6 SC	<u>03F19</u>
BLK SC	<u>03G01</u>

COMMENTS	FILE	CLIENT	TO#	PROJECT NO.	METHOD
<u>A07152</u>	<u>Daisy 29</u>	<u>W.L.Gore</u>	<u>030715-2</u>	<u>01.01446.003</u>	<u>Daily 53169</u>
<u>A07148</u>		<u>Div 20</u>	<u>030714-8</u>	<u>06002.01.141</u>	<u>54103</u>
		<u>Div 20</u>	<u>030709-8</u>	<u>06002.01.081</u>	<u>54105</u>
		<u>Div 20</u>	<u>030701-4</u>	<u>06002.01.071</u>	<u>54104</u>
<u>JD 7.15.03</u>					

COMMENTS: _____

MAINTENANCE:

REVIEWED BY: Cordova DATE: 7/17/03

SOUTHWEST RESEARCH INSTITUTE®

010032

6220 Culebra Rd
San Antonio, Texas 78228

TJA_2 TRACE ICP DAILY LOG

ANALYST [Signature]

DATE 7.15.03

As 189.042 Profile Line

As Intensity: 650.269

PEAK POSITION .043011

VERNIER POSITION 759

QC PREP DATE:	
CCV/ICV	03009
CRI	03027
ICSA	03027
ICSAB	03001

STDs PREP DATE:	
CLP STD1 SC	03009
CLP STD2 SC	03027
CLP STD3 SC	03019
CLP STD4 SC	03001
CLP STD5 SC	03001
CLP STD6 SC	03019
BLK SC	03001

COMMENTS	FILE	CLIENT	TO#	PROJECT NO.	METHOD
B07146	DailySD	Div 20	030714-8	06002.01.10141	Daily 54102
B07148A	DailySI	Div 20	030714-8	06002.01.111	54102
B07035A	DailySI	NFT, INC	030703-5	06232.10.006	53167
<u>[Signature]</u> 7.15.03					

COMMENTS: Changed data file to Daily SI

MAINTENANCE:

REVIEWED BY: [Signature] DATE: 7/17/03

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San Antonio, Texas 78228

TJA_2 TRACE ICP DAILY LOG

ANALYST JA

DATE 8-5-03

As 189.042 Profile Line

As Intensity: 544.962/751.467

PEAK POSITION .003193 / .013657
VERNIER POSITION 752 / 752

QC PREP DATE:	
CCV/ICV	03G30
CRI	03G25
ICSA	03G28
ICSAB	03G01

STDs PREP DATE:	
CLP STD1 SC	03H0A
CLP STD2 SC	03FZ3
CLP STD3 SC	03H0A
CLP STD4 SC	03G01
CLP STD5 SC	03H0A
CLP STD6 SC	03H0A
BLK SC	03G30

COMMENTS	FILE	CLIENT	TO#	PROJECT NO.	METHOD
1307148B	DA.11251	Div 20	030714-8	06002.01.141	DA.11253 Z
		Div 20	030714-8	06002.01.141	DA.11253 Z13

COMMENTS: _____

MAINTENANCE: _____

REVIEWED BY: Orduna DATE: 8/13/03

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San Antonio, Texas 78228

TJA_2 TRACE ICP DAILY LOG

ANALYST *[Signature]*

DATE 8-11-03

As 189.042 Profile Line

As Intensity: 658.65

PEAK POSITION -0.017521

VERNIER POSITION 754

QC PREP DATE:	
CCV/ICV	03G30
CRI	03G25
ICSA	03G28
ICSAB	03106

STDs PREP DATE:	
CLP STD1 SC	03104
CLP STD2 SC	03F23
CLP STD3 SC	03104
CLP STD4 SC	03G01
CLP STD5 SC	03104
CLP STD6 SC	03104
BLK SC	03G30

COMMENTS	FILE	CLIENT	TO#	PROJECT NO.	METHOD
B307411					
B307148	Daily 51	Div co	030714-8	06002 01.141	DAILY 51 1st
B30811A	Daily 51	WDC	⁰³⁰⁷¹⁹⁻¹ 030723-4	01.02456.486	53 195
B00 B30811B	Daily 51	WDC	⁰³⁰⁷²¹⁻⁴ 030723-3	01.02456.486	53 208 +209
<i>[Signature]</i> 8-13-03					

COMMENTS: _____

MAINTENANCE: _____

REVIEWED BY: Cordova DATE: 8/14/03

ICP Calibration Blank/ICB/CCB Solution

ID: BLK- 03606

010035

Date Prepared: 6-8-03

Prepared By: [Signature]

Make up as needed in 1000ml volumetric flask.

Added 10 ml HNO3 INORG #: 4094

Added 50 ml HCL INORG #: 4077

Added 1000ul of 10000ppm Sc (INORG. VENT.) EXP. Date: 10-1-03 INORG #: 3683

ICP Calibration Blank/ICB/CCB Solution

ID: BLK- 03601

Date Prepared: 7-1-03

Prepared By: [Signature]

Make up as needed in 1000ml volumetric flask.

Added 10 ml HNO3 INORG #: 4097

Added 50 ml HCL INORG #: 4156

Added 1000ul of 10000ppm Sc (INORG. VENT.) EXP. Date: 10-1-03 INORG #: 3683

ICP Calibration Blank/ICB/CCB Solution

ID: BLK- 03630

Date Prepared: 7-30-03

Prepared By: [Signature]

Make up as needed in 1000ml volumetric flask.

Added 10 ml HNO3 INORG #: 4168

Added 50 ml HCL INORG #: 4160

Added 1000ul of 10000ppm Sc (INORG. VENT.) EXP. Date: 10-1-03 INORG #: 3683

ICP Calibration Blank/ICB/CCB Solution

ID: BLK-

Date Prepared: _____

Prepared By: _____

Make up as needed in 1000ml volumetric flask.

Added _____ 10 ml HNO3 INORG #: _____

Added _____ 50 ml HCL INORG #: _____

Added _____ 1000ul of 10000ppm Sc (INORG. VENT.) EXP. Date: _____ INORG #: _____

ICP ICV/CCV SOLUTION

010036

CCV-03609

Date Prepared: 7-9-03 Prepared By: [Signature]HNO3 INORG #: 416A HCl INORG #: 4157

Make up as needed in 1000ml volumetric flask in 1% HNO3 AND 5% HCl.

Element	Std Conc (ppm)	Amt added	Check	Source	Inorg #	Stock Conc (ppm)	Exp Date
Sc	10	1ml	✓	INORGVENT	3683	10000	10-1-03
B	5	5ml	✓	SPEX	4139	1000	6-30-04
Li	5	5ml	✓	SPEX	4065	1000	5-15-04
Mo	5	5ml	✓	SPEX	4066	1000	5-15-04
P	5	5ml	✓	SPEX	3927	1000	1-15-04
Si	5	5ml	✓	SPEX	3858	1000	12-15-03
Ti	5	5ml	✓	SPEX	3857	1000	12-15-03
Sr	5	5ml	✓	SPEX	3961	1000	2-15-04
Sn	5	5ml	✓	SPEX	4141	1000	6-30-04
Bi	5	5ml	✓	SPEX	4138	1000	6-30-04
La	5	5ml	✓	SPEX	4064	1000	5-15-04
Y	5	5ml	✓	SPEX	4067	1000	5-15-04
Pd	1	1ml	✓	SPEX	3928	1000	1-15-04
S	1	1ml	✓	SPEX	4140	1000	6-30-04
Th	1	1ml	✓	SPEX	3684	1000	9-15-03
U	1	1ml	✓	SPEX	4142	1000	6-30-04
W	1	1ml	✓	SPEX	3646	1000	8-15-03
Zr	5	5ml	✓	SPEX	3648	1000	8-15-03
Na	10	1ml	✓	SPEX	3951	10000	2-15-04
ICV-2A	vary	10ml	✓	SPEX	3773	mix	11-30-03
ICV-2B	vary	1ml	✓	SPEX	3774	mix	11-30-03
ICV-2C	vary	10ml	✓	SPEX	3775	mix	11-30-03

Expiration Date: 8-15-03

ICP ICV/CCV SOLUTION

010037

CCV- 03G-30

Date Prepared: 7-30-03 Prepared By: [Signature]HNO3 INORG #: 4168 HCl INORG #: 4160

Make up as needed in 1000ml volumetric flask in 1% HNO3 AND 5% HCl.

Element	Std Conc (ppm)	Amt added	Check	Source	Inorg #	Stock Conc (ppm)	Exp Date
Sc	10	1ml	✓	INORGVENT	3683	10000	10-1-03
B	5	5ml	✓	SPEX	4139	1000	6-30-04
Li	5	5ml	✓	SPEX	4065	1000	5-15-04
Mo	5	5ml	✓	SPEX	4066	1000	5-15-04
P	5	5ml	✓	SPEX	3927	1000	1-15-04
Si	5	5ml	✓	SPEX	3858	1000	12-15-03
Ti	5	5ml	✓	SPEX	3857	1000	12-15-03
Sr	5	5ml	✓	SPEX	3961	1000	12-15-04
Sn	5	5ml	✓	SPEX	4141	1000	6-30-04
Bi	5	5ml	✓	SPEX	4134	1000	6-30-04
La	5	5ml	✓	SPEX	4064	1000	5-15-04
Y	5	5ml	✓	SPEX	4067	1000	5-15-04
Pd	1	1ml	✓	SPEX	3928	1000	1-15-04
S	1	1ml	✓	SPEX	4140	1000	6-30-04
Th	1	1ml	✓	SPEX	3684	1000	9-15-03
U	1	1ml	✓	SPEX	4142	1000	6-30-04
W	1	1ml	✓	SPEX	3646	1000	9-15-03
Zr	5	5ml	✓	SPEX	3648	1000	8-15-03
Na	10	1ml	✓	SPEX	3951	10000	2-15-04
ICV-2A	vary	10ml	✓	SPEX	3773	mix	11-30-03
ICV-2B	vary	1ml	✓	SPEX	3774	mix	11-30-03
ICV-2C	vary	10ml	✓	SPEX	3775	mix	11-30-03

Expiration Date: 8-15-03

ICP Calibration Standards

Date Prepared: 7-8-03

Prepared By: DL

010038

HNO3 INORG #: 4164

HCl INORG #: 4157

Make up as needed in 500 ml volumetric flasks in 1% HNO3 and 5% HCl.

Prepared	Standard Name	Element	Std Conc (ppm)	Added ml	Check	Source	INORG #	Stock Conc (ppm)	Exp Date
03608 7-8-03 03608	STD1-	Al	50	2.50	✓	INORVENT	3649	10000	9-1-03
		Ca	50	2.50	✓	INORVENT	3900	10000	2-1-04
		Fe	50	2.50	✓	INORVENT	3963	10000	3-1-04
		K	50	2.50	✓	INORVENT	3738	10000	11-1-03
		Mg	25	1.25	✓	INORVENT	3564	10000	8-1-03
		Na	50	2.50	✓	INORVENT	3565	10000	8-1-03
		Li	10	5.00	✓	INORVENT	3736	1000	11-1-03
		Sc	10	0.500	✓	INORVENT	3685	10000	10-1-03
	STD2-	Ba	10	5.00		INORVENT		1000	
		Be	5	2.50		INORVENT		1000	
		Cr	10	5.00		INORVENT		1000	
		Cu	10	5.00		INORVENT		1000	
		Ni	10	5.00		INORVENT		1000	
		Sc	10	0.500		INORVENT		10000	
	STD3-	Cd	10	5.00		INORVENT		1000	
		Co	10	5.00		INORVENT		1000	
		Mn	10	5.00		INORVENT		1000	
		V	10	5.00		INORVENT		1000	
		Zn	10	5.00		INORVENT		1000	
		Sc	10	0.500		INORVENT		10000	
	STD4-	Ag	2	1.00		INORVENT		1000	
		As	10	5.00		INORVENT		1000	
		Pb	10	5.00		INORVENT		1000	
		Sb	10	5.00		INORVENT		1000	
		Se	10	5.00		INORVENT		1000	
		TL	10	5.00		INORVENT		1000	
		Sc	10	0.500		INORVENT		10000	
	STD5-	B	10	5.00		INORVENT		1000	
		Mo	10	5.00		INORVENT		1000	
		P	10	5.00		INORVENT		1000	
		Si	10	5.00		INORVENT		1000	
		Ti	10	5.00		INORVENT		1000	
		Sr	10	5.00		INORVENT		1000	
		Sn	10	5.00		INORVENT		1000	
		Bi	5	2.50		INORVENT		1000	
Sc	10	0.500		INORVENT		10000			
	STD6-	La	10	5.00		INORVENT		1000	
		Na	1	0.05		INORVENT		10000	
		Pd	10	5.00		INORVENT		1000	
		S	10	5.00		INORVENT		1000	
		Th	10	5.00		INORVENT		1000	
		U	10	5.00		INORVENT		1000	
		W	5	2.50		INORVENT		1000	
		Y	10	5.00		INORVENT		1000	
		Zr	10	5.00		INORVENT		1000	
SC	10	0.500		INORVENT		10000			

Expiration Dates:

STD1: 8-1-03

STD4:

STD2:

STD5:

STD3:

STD6:

ICP Calibration Standards

010039

Date Prepared: 6-23-03

Prepared By: *DL*

HNO3 INORG #: 4096

HCl INORG #: 4082

Make up as needed in 500 ml volumetric flasks in 1% HNO3 and 5% HCl.

Prepared	Standard Name	Element	Std Conc (ppm)	Added ml	Check	Source	INORG #	Stock Conc (ppm)	Exp Date
	STD1-	Al	50	2.50		INORVENT		10000	
		Ca	50	2.50		INORVENT		10000	
		Fe	50	2.50		INORVENT		10000	
		K	50	2.50		INORVENT		10000	
		Mg	25	1.25		INORVENT		10000	
		Na	50	2.50		INORVENT		10000	
		Li	10	5.00		INORVENT		1000	
		Sc	10	0.500		INORVENT		10000	
03F23	6-23-03 DL	Ba	10	5.00	✓	INORVENT	3971	1000	3-1-04
		Be	5	2.50	✓	INORVENT	4062	1000	6-1-04
		Cr	10	5.00	✓	INORVENT	3732	1000	11-1-03
		Cu	10	5.00	✓	INORVENT	3955	1000	3-1-04
		Ni	10	5.00	✓	INORVENT	3957	1000	3-1-04
		Sc	10	0.500	✓	INORVENT	3683	10000	10-1-03
	STD3-	Cd	10	5.00		INORVENT		1000	
		Co	10	5.00		INORVENT		1000	
		Mn	10	5.00		INORVENT		1000	
		V	10	5.00		INORVENT		1000	
		Zn	10	5.00		INORVENT		1000	
		Sc	10	0.500		INORVENT		10000	
	STD4-	Ag	2	1.00		INORVENT		1000	
		As	10	5.00		INORVENT		1000	
		Pb	10	5.00		INORVENT		1000	
		Sb	10	5.00		INORVENT		1000	
		Se	10	5.00		INORVENT		1000	
		TL	10	5.00		INORVENT		1000	
		Sc	10	0.500		INORVENT		10000	
	STD5-	B	10	5.00		INORVENT		1000	
		Mo	10	5.00		INORVENT		1000	
		P	10	5.00		INORVENT		1000	
		Si	10	5.00		INORVENT		1000	
		Ti	10	5.00		INORVENT		1000	
		Sr	10	5.00		INORVENT		1000	
		Sn	10	5.00		INORVENT		1000	
		Bi	5	2.50		INORVENT		1000	
		Sc	10	0.500		INORVENT		10000	
	STD6-	La	10	5.00		INORVENT		1000	
		Na	1	0.05		INORVENT		10000	
		Pd	10	5.00		INORVENT		1000	
		S	10	5.00		INORVENT		1000	
		Th	10	5.00		INORVENT		1000	
		U	10	5.00		INORVENT		1000	
		W	5	2.50		INORVENT		1000	
		Y	10	5.00		INORVENT		1000	
		Zr	10	5.00		INORVENT		1000	
SC	10	0.500		INORVENT		10000			

Expiration Dates:

STD1:

STD4:

STD2: 10-1-03

STD5:

STD3:

STD6:

ICP Calibration Standards

010040

Date Prepared: 6-19-03 Prepared By: [Signature]

HNO3 INORG #: 4096 HCl INORG #: 4081

Make up as needed in 500 ml volumetric flasks in 1% HNO3 and 5% HCl.

Prepared	Standard Name	Element	Std Conc (ppm)	Added ml	Check	Source	INORG #	Stock Conc (ppm)	Exp Date
	STD1-	Al	50	2.50		INORVENT		10000	
		Ca	50	2.50		INORVENT		10000	
		Fe	50	2.50		INORVENT		10000	
		K	50	2.50		INORVENT		10000	
		Mg	25	1.25		INORVENT		10000	
		Na	50	2.50		INORVENT		10000	
		Li	10	5.00		INORVENT		1000	
		Sc	10	0.500		INORVENT		10000	
	STD2-	Ba	10	5.00		INORVENT		1000	
		Be	5	2.50		INORVENT		1000	
		Cr	10	5.00		INORVENT		1000	
		Cu	10	5.00		INORVENT		1000	
		Ni	10	5.00		INORVENT		1000	
		Sc	10	0.500		INORVENT		10000	
6-19-03	STD3- 03619 014	Cd	10	5.00	✓	INORVENT	3932	1000	3-1-04
		Co	10	5.00	✓	INORVENT	3973	1000	3-1-04
		Mn	10	5.00	✓	INORVENT	3921	1000	2-1-04
		V	10	5.00	✓	INORVENT	3740	1000	11-1-03
		Zn	10	5.00	✓	INORVENT	3567	1000	8-1-03
		Sc	10	0.500	✓	INORVENT	3683	10000	10-1-03
	STD4-	Ag	2	1.00		INORVENT		1000	
		As	10	5.00		INORVENT		1000	
		Pb	10	5.00		INORVENT		1000	
		Sb	10	5.00		INORVENT		1000	
		Se	10	5.00		INORVENT		1000	
		TL	10	5.00		INORVENT		1000	
		Sc	10	0.500		INORVENT		10000	
	STD5-	B	10	5.00		INORVENT		1000	
		Mo	10	5.00		INORVENT		1000	
		P	10	5.00		INORVENT		1000	
		Si	10	5.00		INORVENT		1000	
		Ti	10	5.00		INORVENT		1000	
		Sr	10	5.00		INORVENT		1000	
		Sn	10	5.00		INORVENT		1000	
		Bi	5	2.50		INORVENT		1000	
		Sc	10	0.500		INORVENT		10000	
6-19-03	STD6- 03619 014	La	10	5.00	✓	INORVENT	3660	1000	9-1-03
		Na	1	0.05	✓	INORVENT	3565	10000	8-1-03
		Pd	10	5.00	✓	INORVENT	3964	1000	3-1-04
		S	10	5.00	✓	INORVENT	3739	1000	11-1-03
		Th	10	5.00	✓	INORVENT	3681	1000	10-1-03
		U	10	5.00	✓	INORVENT	3974	1000	3-1-04
		W	5	2.50	✓	INORVENT	3568	1000	8-1-03
		Y	10	5.00	✓	INORVENT	4063	1000	6-1-04
		Zr	10	5.00	✓	INORVENT	3958	1000	3-1-04
SC	10	0.500	✓	INORVENT	3683	10000	10-1-03		

Expiration Dates:

STD1:

STD4:

STD2:

STD5:

STD3: 8-1-03

STD6: 8-1-03

ICP Calibration Standards

010041

Date Prepared: 7-1-03 Prepared By: [Signature]

HNO3 INORG #: 4097 HCl INORG #: 4156

Make up as needed in 500 ml volumetric flasks in 1% HNO3 and 5% HCl.

Prepared	Standard Name	Element	Std Conc (ppm)	Added ml	Check	Source	INORG #	Stock Conc (ppm)	Exp Date
	STD1-	Al	50	2.50		INORVENT		10000	
		Ca	50	2.50		INORVENT		10000	
		Fe	50	2.50		INORVENT		10000	
		K	50	2.50		INORVENT		10000	
		Mg	25	1.25		INORVENT		10000	
		Na	50	2.50		INORVENT		10000	
		Li	10	5.00		INORVENT		1000	
		Sc	10	0.500		INORVENT		10000	
	STD2-	Ba	10	5.00		INORVENT		1000	
		Be	5	2.50		INORVENT		1000	
		Cr	10	5.00		INORVENT		1000	
		Cu	10	5.00		INORVENT		1000	
		Ni	10	5.00		INORVENT		1000	
		Sc	10	0.500		INORVENT		10000	
	STD3-	Cd	10	5.00		INORVENT		1000	
		Co	10	5.00		INORVENT		1000	
		Mn	10	5.00		INORVENT		1000	
		V	10	5.00		INORVENT		1000	
		Zn	10	5.00		INORVENT		1000	
		Sc	10	0.500		INORVENT		10000	
7-1-03-02	STD4- 03021	Ag	2	1.00	✓	INORVENT	3653	1000	9-1-03
		As	10	5.00	✓	INORVENT	3899	1000	2-1-04
		Pb	10	5.00	✓	INORVENT	3735	1000	11-1-03
		Sb	10	5.00	✓	INORVENT	3953	1000	3-1-04
		Se	10	5.00	✓	INORVENT	3652	1000	9-1-03
		TL	10	5.00	✓	INORVENT	3922	1000	2-1-04
		Sc	10	0.500	✓	INORVENT	3683	10000	10-1-03
7-1-03-01	STD5- 03021	B	10	5.00	✓	INORVENT	3954	1000	3-1-04
		Mo	10	5.00	✓	INORVENT	3956	1000	3-1-04
		P	10	5.00	✓	INORVENT	3901	1000	2-1-04
		Si	10	5.00	✓	INORVENT	4153	1000	7-1-04
		Ti	10	5.00	✓	INORVENT	3762	1000	12-1-03
		Sr	10	5.00	✓	INORVENT	4154	1000	7-1-04
		Sn	10	5.00	✓	INORVENT	4026	1000	4-1-04
		Bi	5	2.50	✓	INORVENT	3606	1000	8-1-03
		Sc	10	0.500	✓	INORVENT	3683	10000	10-1-03
	STD6-	La	10	5.00		INORVENT		1000	
		Na	1	0.05		INORVENT		10000	
		Pd	10	5.00		INORVENT		1000	
		S	10	5.00		INORVENT		1000	
		Th	10	5.00		INORVENT		1000	
		U	10	5.00		INORVENT		1000	
		W	5	2.50		INORVENT		1000	
		Y	10	5.00		INORVENT		1000	
		Zr	10	5.00		INORVENT		1000	
SC	10	0.500		INORVENT		10000			

Expiration Dates:

STD1:

STD4: 9-1-03

STD2:

STD5: 8-1-03

STD3:

STD6:

ICP Calibration Standards

010042

Date Prepared: 8-4-03 Prepared By: [Signature]

HNO3 INORG #: 4168 HCl INORG #: 4161

Make up as needed in 500 ml volumetric flasks in 1% HNO3 and 5% HCl.

Prepared	Standard Name	Element	Std Conc (ppm)	Added ml	Check	Source	INORG #	Stock Conc (ppm)	Exp Date
8-4-03 PH	STD1- 03HCl	Al	50	2.50	✓	INORVENT	3649	10000	9-1-03
		Ca	50	2.50	✓	INORVENT	3900	10000	2-1-04
		Fe	50	2.50	✓	INORVENT	3963	10000	3-1-04
		K	50	2.50	✓	INORVENT	3738	10000	11-1-05
		Mg	25	1.25	✓	INORVENT	4204	10000	8-1-04
		Na	50	2.50	✓	INORVENT	4205	10000	8-1-04
		Li	10	5.00	✓	INORVENT	4149	1000	7-1-04
		Sc	10	0.500	✓	INORVENT	3683	10000	10-1-03
	STD2-	Ba	10	5.00		INORVENT		1000	
		Be	5	2.50		INORVENT		1000	
		Cr	10	5.00		INORVENT		1000	
		Cu	10	5.00		INORVENT		1000	
		Ni	10	5.00		INORVENT		1000	
		Sc	10	0.500		INORVENT		10000	
8-4-03 PH	STD3- 05HCl	Cd	10	5.00	✓	INORVENT	3972	1000	3-1-04
		Co	10	5.00	✓	INORVENT	3973	1000	3-1-04
		Mn	10	5.00	✓	INORVENT	3921	1000	2-1-04
		V	10	5.00	✓	INORVENT	3740	1000	11-1-03
		Zn	10	5.00	✓	INORVENT	3741	1000	11-1-03
		Sc	10	0.500	✓	INORVENT	3693	10000	10-1-03
	STD4-	Ag	2	1.00		INORVENT		1000	
		As	10	5.00		INORVENT		1000	
		Pb	10	5.00		INORVENT		1000	
		Sb	10	5.00		INORVENT		1000	
		Se	10	5.00		INORVENT		1000	
		TL	10	5.00		INORVENT		1000	
		Sc	10	0.500		INORVENT		10000	
8-4-03 PH	STD5- 03HCl	B	10	5.00	✓	INORVENT	3954	1000	3-1-04
		Mo	10	5.00	✓	INORVENT	3956	1000	3-1-04
		P	10	5.00	✓	INORVENT	3901	1000	2-1-04
		Si	10	5.00	✓	INORVENT	4153	1000	7-1-04
		Ti	10	5.00	✓	INORVENT	3762	1000	12-1-03
		Sr	10	5.00	✓	INORVENT	4154	1000	7-1-04
		Sn	10	5.00	✓	INORVENT	4026	1000	4-1-04
		Bi	5	2.50	✓	INORVENT	4200	1000	4-1-04
Sc	10	0.500	✓	INORVENT	3683	10000	10-1-03		
8-4-03 PH	STD6- 03HCl	La	10	5.00	✓	INORVENT	3650	1000	9-1-03
		Na	1	0.05	✓	INORVENT	4205	10000	8-1-04
		Pd	10	5.00	✓	INORVENT	3964	1000	3-1-04
		S	10	5.00	✓	INORVENT	3736	1000	11-1-03
		Th	10	5.00	✓	INORVENT	3681	1000	10-1-03
		U	10	5.00	✓	INORVENT	3974	1000	3-1-04
		W	5	2.50	✓	INORVENT	4203	1000	8-1-04
		Y	10	5.00	✓	INORVENT	4063	1000	6-1-04
		Zr	10	5.00	✓	INORVENT	3954	1000	3-1-04
		SC	10	0.500	✓	INORVENT	3683	10000	10-1-03

Expiration Dates:

STD1: 9-1-03

STD4: ~~10-1-03~~ 04

STD2:

STD5: 10-1-05

STD3: 10-1-03

STD6: 9-1-03

Div 20
 to#030714-8
 06002.01.141

system id	elem	result	qual	units	rl	tv	rec	ug/ml	rl	date	time	df	run	mg/L	
								29.25166	0.075	07/15/03	12:09	10	2	292.5166	
230259	Ca3179	293		mg/L	0.75			10.30816	0.1	08/05/03	19:22	1	3	10.30816	
230259	K 7664	10.3		mg/L	0.1			0.04309	0.05	08/05/03	19:22	1	3	0.04309	
230259	Mg2790	0.05	U	mg/L	0.05			0.00087	0.005	08/05/03	19:22	1	3	0.00087	
230259	Mn2576	0.005	U	mg/L	0.005			56.32184	0.2	08/05/03	19:22	1	3	56.32184	
230259	Na3302	56.3		mg/L	0.2			0.05412	0.005	08/05/03	19:22	1	3	0.05412	
230259	Sr4215	0.054		mg/L	0.005			29.07645	0.075	07/15/03	12:14	10	2	290.7645	
230259D	Ca3179	291		mg/L	0.75			29.60045	0.075	07/15/03	12:18	10	2	296.0045	
230260	Ca3179	296		mg/L	0.75			4.49063	0.1	08/05/03	19:27	1	3	4.49063	
230260	K 7664	4.49		mg/L	0.1			0.03271	0.05	08/05/03	19:27	1	3	0.03271	
230260	Mg2790	0.05	U	mg/L	0.05			0.00091	0.005	08/05/03	19:27	1	3	0.00091	
230260	Mn2576	0.005	U	mg/L	0.005			54.96700	0.2	08/05/03	19:27	1	3	54.967	
230260	Na3302	55.0		mg/L	0.2			0.05346	0.005	08/05/03	19:27	1	3	0.05346	
230260	Sr4215	0.053		mg/L	0.005			50.27612	0.075	07/15/03	12:23	10	2	502.7612	
230260S	Ca3179	503		mg/L	0.75	200	103.4%	28.40000	0.1	08/11/03			1	4	28.4
230260S	K 7664	28.4		mg/L	0.1	20	119.5%	78.13000	0.1	08/11/03			1	4	78.13
230260S	Na3302	78.1		mg/L	0.1	20	115.8%	7.86136	0.075	07/15/03	12:28	10	2	78.6136	
230261	Ca3179	78.6		mg/L	0.75			3.53394	0.1	08/05/03	19:32	1	3	3.53394	
230261	K 7664	3.53		mg/L	0.1			0.02829	0.05	08/05/03	19:32	1	3	0.02829	
230261	Mg2790	0.05	U	mg/L	0.05			0.00022	0.005	08/05/03	19:32	1	3	0.00022	
230261	Mn2576	0.005	U	mg/L	0.005			59.29554	0.2	08/05/03	19:32	1	3	59.29554	
230261	Na3302	59.3		mg/L	0.2			0.02262	0.005	08/05/03	19:32	1	3	0.02262	
230261	Sr4215	0.023		mg/L	0.005			7.91385	0.075	07/15/03	12:32	10	2	79.1385	
230262	Ca3179	79.1		mg/L	0.75			3.33552	0.1	08/05/03	19:38	1	3	3.33552	
230262	K 7664	3.34		mg/L	0.1			0.02555	0.05	08/05/03	19:38	1	3	0.02555	
230262	Mg2790	0.05	U	mg/L	0.05			0.00031	0.005	08/05/03	19:38	1	3	0.00031	
230262	Mn2576	0.005	U	mg/L	0.005			56.57082	0.2	08/05/03	19:38	1	3	56.57082	
230262	Na3302	56.6		mg/L	0.2			0.02163	0.005	08/05/03	19:38	1	3	0.02163	
230262	Sr4215	0.022		mg/L	0.005			2.27063	0.075	07/15/03	12:37	10	2	22.7063	
230263	Ca3179	22.7		mg/L	0.75			4.78688	0.1	08/05/03	19:43	1	3	4.78688	
230263	K 7664	4.79		mg/L	0.1			0.03476	0.05	08/05/03	19:43	1	3	0.03476	
230263	Mg2790	0.05	U	mg/L	0.05			0.00010	0.005	08/05/03	19:43	1	3	0.0001	
230263	Mn2576	0.005	U	mg/L	0.005			78.04242	0.2	08/05/03	19:43	1	3	78.04242	
230263	Na3302	78.0		mg/L	0.2			0.01391	0.005	08/05/03	19:43	1	3	0.01391	
230263	Sr4215	0.014		mg/L	0.005			2.30984	0.075	07/15/03	12:42	10	2	23.0984	
230264	Ca3179	23.1		mg/L	0.75			3.00267	0.1	08/05/03	15:27	1	3	3.00267	
230264	K 7664	3.00		mg/L	0.1			0.02261	0.05	08/05/03	15:27	1	3	0.02261	
230264	Mg2790	0.05	U	mg/L	0.05			0.00019	0.005	08/05/03	15:27	1	3	0.00019	
230264	Mn2576	0.005	U	mg/L	0.005			70.31269	0.2	08/05/03	15:27	1	3	70.31269	
230264	Na3302	70.3		mg/L	0.2										

Stange
 8/11/03

[Signature]
 08/14/03

SW
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010043

Div 20
to#030714-8
06002.01.141

system id	elem	result	qual	units	rl	tv	rec	ug/ml	rl	date	time	df	run	mg/L
230264	Sr4215	0.012		mg/L	0.005			0.01219	0.005	08/05/03	15:27	1	3	0.01219
230265	Ca3179	7.68		mg/L	0.075			7.68018	0.075	08/05/03	15:32	1	3	7.68018
230265	K 7664	4.82		mg/L	0.1			4.82242	0.1	08/05/03	15:32	1	3	4.82242
230265	Mg2790	0.05	U	mg/L	0.05			0.03049	0.05	08/05/03	15:32	1	3	0.03049
230265	Mn2576	0.005	U	mg/L	0.005			0.00017	0.005	08/05/03	15:32	1	3	0.00017
230265	Na3302	109		mg/L	0.2			109.45323	0.2	08/05/03	15:32	1	3	109.45323
230265	Sr4215	0.010		mg/L	0.005			0.00999	0.005	08/05/03	15:32	1	3	0.00999
230266	Ca3179	7.61		mg/L	0.075			7.61020	0.075	08/05/03	15:37	1	3	7.6102
230266	K 7664	3.71		mg/L	0.1			3.71270	0.1	08/05/03	15:37	1	3	3.7127
230266	Mg2790	0.05	U	mg/L	0.05			0.03009	0.05	08/05/03	15:37	1	3	0.03009
230266	Mn2576	0.005		mg/L	0.005			0.00529	0.005	08/05/03	15:37	1	3	0.00529
230266	Na3302	109		mg/L	0.2			109.48309	0.2	08/05/03	15:37	1	3	109.48309
230266	Sr4215	0.010		mg/L	0.005			0.00991	0.005	08/05/03	15:37	1	3	0.00991
230267	Ca3179	98.8		mg/L	0.75			9.87814	0.075	07/15/03	13:11	10	2	98.7814
230267	K 7664	22.9		mg/L	0.1			22.89829	0.1	08/05/03	16:00	1	3	22.89829
230267	Mg2790	0.05	U	mg/L	0.05			0.00764	0.05	08/05/03	16:00	1	3	0.00764
230267	Mn2576	0.005	U	mg/L	0.005			0.00017	0.005	08/05/03	16:00	1	3	0.00017
230267	Na3302	103		mg/L	0.2			103.34626	0.2	08/05/03	16:00	1	3	103.34626
230267	Sr4215	0.005	U	mg/L	0.005			0.00316	0.005	08/05/03	16:00	1	3	0.00316
230267D	K 7664	22.1		mg/L	0.1			22.13496	0.1	08/05/03	16:06	1	3	22.13496
230267D	Mg2790	0.05	U	mg/L	0.05			0.00635	0.05	08/05/03	16:06	1	3	0.00635
230267D	Mn2576	0.005	U	mg/L	0.005			0.00021	0.005	08/05/03	16:06	1	3	0.00021
230267D	Na3302	99.4		mg/L	0.2			99.42259	0.2	08/05/03	16:06	1	3	99.42259
230267D	Sr4215	0.005	U	mg/L	0.005			0.00304	0.005	08/05/03	16:06	1	3	0.00304
230268	Ca3179	96.5		mg/L	0.75			9.64906	0.075	07/15/03	13:15	10	2	96.4906
230268	K 7664	22.2		mg/L	0.1			22.22427	0.1	08/05/03	16:11	1	3	22.22427
230268	Mg2790	0.05	U	mg/L	0.05			0.00503	0.05	08/05/03	16:11	1	3	0.00503
230268	Mn2576	0.005	U	mg/L	0.005			0.00013	0.005	08/05/03	16:11	1	3	0.00013
230268	Na3302	99.8		mg/L	0.2			99.77421	0.2	08/05/03	16:11	1	3	99.77421
230268	Sr4215	0.005	U	mg/L	0.005			0.00306	0.005	08/05/03	16:11	1	3	0.00306
230268s	Mg2790	20.8		mg/L	0.05	20	104.2%	20.83421	0.05	08/05/03	16:16	1	3	20.83421
230268s	Mn2576	0.513		mg/L	0.005	0.5	102.5%	0.51268	0.005	08/05/03	16:16	1	3	0.51268
230268s	Sr4215	4.16		mg/L	0.005	4	104.1%	4.16360	0.005	08/05/03	16:16	1	3	4.1636
230269	Ca3179	291		mg/L	0.75			29.10849	0.075	07/15/03	13:20	10	2	291.0849
230269	K 7664	2.37		mg/L	0.1			2.36959	0.1	08/05/03	16:21	1	3	2.36959
230269	Mg2790	0.05	U	mg/L	0.05			0.01848	0.05	08/05/03	16:21	1	3	0.01848
230269	Mn2576	0.005	U	mg/L	0.005			0.00082	0.005	08/05/03	16:21	1	3	0.00082
230269	Na3302	48.0		mg/L	0.2			47.98047	0.2	08/05/03	16:21	1	3	47.98047
230269	Sr4215	0.050		mg/L	0.005			0.05041	0.005	08/05/03	16:21	1	3	0.05041

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to#030714-8
06002.01.141

system id	elem	result	qual	units	rl	tv	rec	ug/ml	rl	date	time	df	run	mg/L	
								29.21781	0.075	07/15/03	13:25	10	2	292.1781	
230270	Ca3179	292		mg/L	0.75			2.98600	0.1	08/11/03			1	4	2.986
230270	K 7664	2.99		mg/L	0.1			0.01670	0.05	08/11/03			1	4	0.0167
230270	Mg2790	0.05	U	mg/L	0.05			0.00090	0.005	08/11/03			1	4	0.0009
230270	Mn2576	0.005	U	mg/L	0.005			49.52000	0.2	08/11/03			1	4	49.52
230270	Na3302	49.5		mg/L	0.2			0.05180	0.005	08/11/03			1	4	0.0518
230270	Sr4215	0.052		mg/L	0.005			7.814	0.075	07/15/03	13:29	10	2	78.14	
230271	Ca3179	78.1		mg/L	0.75			2.94379	0.1	08/05/03	16:32		1	3	2.94379
230271	K 7664	2.94		mg/L	0.1			0.02199	0.05	08/05/03	16:32		1	3	0.02199
230271	Mg2790	0.05	U	mg/L	0.05			0.00034	0.005	08/05/03	16:32		1	3	0.00034
230271	Mn2576	0.005	U	mg/L	0.005			55.38729	0.2	08/05/03	16:32		1	3	55.38729
230271	Na3302	55.4		mg/L	0.2			0.02153	0.005	08/05/03	16:32		1	3	0.02153
230271	Sr4215	0.022		mg/L	0.005			7.94221	0.075	07/15/03	16:09	10	1	79.4221	
230272	Ca3179	79.4		mg/L	0.75			2.92842	0.1	08/05/03	16:59		1	3	2.92842
230272	K 7664	2.93		mg/L	0.1			0.01971	0.05	08/05/03	16:59		1	3	0.01971
230272	Mg2790	0.05	U	mg/L	0.05			0.00040	0.005	08/05/03	16:59		1	3	0.0004
230272	Mn2576	0.005	U	mg/L	0.005			54.77180	0.2	08/05/03	16:59		1	3	54.7718
230272	Na3302	54.8		mg/L	0.2			0.02157	0.005	08/05/03	16:59		1	3	0.02157
230272	Sr4215	0.022		mg/L	0.005			7.92712	0.075	07/15/03	16:14	10	1	79.2712	
230272d	Ca3179	79.3		mg/L	0.75			2.37161	0.075	07/15/03	16:35	10	1	23.7161	
230273	Ca3179	23.7		mg/L	0.75			3.68134	0.1	08/05/03	17:33		1	3	3.68134
230273	K 7664	3.68		mg/L	0.1			0.01971	0.05	08/05/03	17:33		1	3	0.01971
230273	Mg2790	0.05	U	mg/L	0.05			0.00009	0.005	08/05/03	17:33		1	3	9E-05
230273	Mn2576	0.005	U	mg/L	0.005			72.44316	0.2	08/05/03	17:33		1	3	72.44316
230273	Na3302	72.4		mg/L	0.2			0.01271	0.005	08/05/03	17:33		1	3	0.01271
230273	Sr4215	0.013		mg/L	0.005			2.32093	0.075	07/15/03	16:30	10	1	23.2093	
230274	Ca3179	23.2		mg/L	0.75			3.16823	0.1	08/05/03	17:28		1	3	3.16823
230274	K 7664	3.17		mg/L	0.1			0.02319	0.05	08/05/03	17:28		1	3	0.02319
230274	Mg2790	0.05	U	mg/L	0.05			0.00007	0.005	08/05/03	17:28		1	3	7E-05
230274	Mn2576	0.005	U	mg/L	0.005			71.83528	0.2	08/05/03	17:28		1	3	71.83528
230274	Na3302	71.8		mg/L	0.2			0.01285	0.005	08/05/03	17:28		1	3	0.01285
230274	Sr4215	0.013		mg/L	0.005			0.80767	0.075	07/15/03	16:19	10	1	8.0767	
230275	Ca3179	8.08		mg/L	0.75			3.93991	0.1	08/05/03	17:22		1	3	3.93991
230275	K 7664	3.94		mg/L	0.1			0.01987	0.05	08/05/03	17:22		1	3	0.01987
230275	Mg2790	0.05	U	mg/L	0.05			0.00015	0.005	08/05/03	17:22		1	3	0.00015
230275	Mn2576	0.005	U	mg/L	0.005			105.64849	0.2	08/05/03	17:22		1	3	105.64849
230275	Na3302	106		mg/L	0.2			0.00939	0.005	08/05/03	17:22		1	3	0.00939
230275	Sr4215	0.009		mg/L	0.005			21.70413	0.075	07/15/03	16:24	10	1	217.0413	
230275s	Ca3179	217		mg/L	0.75		200	0.80325	0.075	07/15/03	16:40	10	1	8.0325	
230276	Ca3179	8.03		mg/L	0.75										

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06002.01.141

system id	elem	result	qual	units	rl	tv	rec	ug/ml	rl	date	time	df	run	mg/L
230276	K 7664	3.87		mg/L	0.1			3.86845	0.1	08/05/03	17:38	1	3	3.86845
230276	Mg2790	0.059		mg/L	0.05			0.05861	0.05	08/05/03	17:38	1	3	0.05861
230276	Mn2576	0.005	U	mg/L	0.005			0.00124	0.005	08/05/03	17:38	1	3	0.00124
230276	Na3302	107		mg/L	0.2			106.98660	0.2	08/05/03	17:38	1	3	106.9866
230276	Sr4215	0.009		mg/L	0.005			0.00932	0.005	08/05/03	17:38	1	3	0.00932
230277	Ca3179	292		mg/L	0.75			29.17387	0.075	07/15/03	16:45	10	1	291.7387
230277	K 7664	0.276		mg/L	0.1			0.27584	0.1	08/05/03	17:43	1	3	0.27584
230277	Mg2790	0.05	U	mg/L	0.05			0.00176	0.05	08/05/03	17:43	1	3	0.00176
230277	Mn2576	0.005	U	mg/L	0.005			0.00087	0.005	08/05/03	17:43	1	3	0.00087
230277	Na3302	11.6		mg/L	0.2			11.58438	0.2	08/05/03	17:43	1	3	11.58438
230277	Sr4215	0.047		mg/L	0.005			0.04733	0.005	08/05/03	17:43	1	3	0.04733
230277d	K 7664	0.295		mg/L	0.1			0.29498	0.1	08/05/03	17:49	1	3	0.29498
230277d	Mg2790	0.05	U	mg/L	0.05			0.00491	0.05	08/05/03	17:49	1	3	0.00491
230277d	Mn2576	0.005	U	mg/L	0.005			0.00090	0.005	08/05/03	17:49	1	3	0.0009
230277d	Na3302	12.0		mg/L	0.2			11.99747	0.2	08/05/03	17:49	1	3	11.99747
230277d	Sr4215	0.049		mg/L	0.005			0.04867	0.005	08/05/03	17:49	1	3	0.04867
230278	Ca3179	295		mg/L	0.75			29.54394	0.075	07/15/03	17:10	10	1	295.4394
230278	K 7664	0.171		mg/L	0.1			0.17100	0.1	08/05/03	17:54	1	3	0.171
230278	Mg2790	0.05	U	mg/L	0.05			0.00456	0.05	08/05/03	17:54	1	3	0.00456
230278	Mn2576	0.005	U	mg/L	0.005			0.00087	0.005	08/05/03	17:54	1	3	0.00087
230278	Na3302	11.7		mg/L	0.2			11.71009	0.2	08/05/03	17:54	1	3	11.71009
230278	Sr4215	0.049		mg/L	0.005			0.04902	0.005	08/05/03	17:54	1	3	0.04902
230278s	K 7664	23.6		mg/L	0.1	20	117.4%	23.64350	0.1	08/05/03	17:59	1	3	23.6435
230278s	Mg2790	20.9		mg/L	0.05	20	104.7%	20.93634	0.05	08/05/03	17:59	1	3	20.93634
230278s	Mn2576	0.514		mg/L	0.005	0.5	102.8%	0.51400	0.005	08/05/03	17:59	1	3	0.514
230278s	Na3302	33.6		mg/L	0.2	20	109.6%	33.63925	0.2	08/05/03	17:59	1	3	33.63925
230278s	Sr4215	4.23		mg/L	0.005	4	104.5%	4.22983	0.005	08/05/03	17:59	1	3	4.22983
230279	Ca3179	80.7		mg/L	0.75			8.07030	0.075	07/15/03	17:15	10	1	80.703
230279	K 7664	0.236		mg/L	0.1			0.23573	0.1	08/05/03	18:04	1	3	0.23573
230279	Mg2790	0.05	U	mg/L	0.05			0.02301	0.05	08/05/03	18:04	1	3	0.02301
230279	Mn2576	0.01	U	mg/L	0.01			0.00010	0.001	07/15/03		10	1	0.001
230279	Na3302	19.2		mg/L	0.2			19.15012	0.2	08/05/03	18:04	1	3	19.15012
230279	Sr4215	0.019		mg/L	0.005			0.01932	0.005	08/05/03	18:04	1	3	0.01932
230280	Ca3179	81.2		mg/L	0.75			8.12366	0.075	07/15/03	17:21	10	1	81.2366
230280	K 7664	0.189		mg/L	0.1			0.18860	0.1	08/05/03	18:10	1	3	0.1886
230280	Mg2790	0.05	U	mg/L	0.05			-0.00187	0.05	08/05/03	18:10	1	3	-0.00187
230280	Mn2576	0.005	U	mg/L	0.005			0.00028	0.005	08/05/03	18:10	1	3	0.00028
230280	Na3302	19.3		mg/L	0.2			19.28073	0.2	08/05/03	18:10	1	3	19.28073
230280	Sr4215	0.020		mg/L	0.005			0.01950	0.005	08/05/03	18:10	1	3	0.0195

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06002.01.141

system id	elem	result	qual	units	rl	tv	rec	ug/ml	rl	date	time	df	run	mg/L
230281	Ca3179	23.6		mg/L	0.75			2.36001	0.075	07/15/03	17:26	10	1	23.6001
230281	K 7664	0.225		mg/L	0.1			0.22535	0.1	08/05/03	18:33	1	3	0.22535
230281	Mg2790	0.05	U	mg/L	0.05			0.00066	0.05	08/05/03	18:33	1	3	0.00066
230281	Mn2576	0.005	U	mg/L	0.005			0.00012	0.005	08/05/03	18:33	1	3	0.00012
230281	Na3302	34.4		mg/L	0.2			34.41429	0.2	08/05/03	18:33	1	3	34.41429
230281	Sr4215	0.010		mg/L	0.005			0.01037	0.005	08/05/03	18:33	1	3	0.01037
230282	Ca3179	37.9		mg/L	0.75			3.78751	0.075	07/15/03	17:32	10	1	37.8751
230282	K 7664	0.208		mg/L	0.1			0.20835	0.1	08/05/03	18:38	1	3	0.20835
230282	Mg2790	0.05	U	mg/L	0.05			0.01136	0.05	08/05/03	18:38	1	3	0.01136
230282	Mn2576	0.005	U	mg/L	0.005			0.00380	0.005	08/11/03		1	4	0.0038
230282	Na3302	34.6		mg/L	0.2			34.64492	0.2	08/05/03	18:38	1	3	34.64492
230282	Sr4215	0.014		mg/L	0.005			0.01429	0.005	08/05/03	18:38	1	3	0.01429
230283	Ca3179	8.51		mg/L	0.75			0.85140	0.075	07/15/03	17:37	10	1	8.514
230283	K 7664	0.224		mg/L	0.1			0.22380	0.1	08/05/03	18:43	1	3	0.2238
230283	Mg2790	0.05	U	mg/L	0.05			0.00136	0.05	08/05/03	18:43	1	3	0.00136
230283	Mn2576	0.005	U	mg/L	0.005			0.00010	0.005	08/05/03	18:43	1	3	0.0001
230283	Na3302	65.8		mg/L	0.2			65.79153	0.2	08/05/03	18:43	1	3	65.79153
230283	Sr4215	0.007		mg/L	0.005			0.00713	0.005	08/05/03	18:43	1	3	0.00713
230284	Ca3179	9.07		mg/L	0.75			0.90720	0.075	07/15/03	17:43	10	1	9.072
230284	K 7664	0.232		mg/L	0.1			0.23186	0.1	08/05/03	18:48	1	3	0.23186
230284	Mg2790	0.05	U	mg/L	0.05			0.00333	0.05	08/05/03	18:48	1	3	0.00333
230284	Mn2576	0.005	U	mg/L	0.005			0.00008	0.005	08/05/03	18:48	1	3	8E-05
230284	Na3302	65.2		mg/L	0.2			65.21234	0.2	08/05/03	18:48	1	3	65.21234
230284	Sr4215	0.007		mg/L	0.005			0.00718	0.005	08/05/03	18:48	1	3	0.00718
lcsW-G15W1	Ca3179	20.0		mg/L	0.075	20	100.0%	20.00236	0.075	07/15/03	12:04	1	2	20.00236
lcsW-G15W2	Ca3179	20.5		mg/L	0.075	20	102.3%	20.46688	0.075	07/15/03	16:04	1	1	20.46688
lcsW-H05L1	K 7664	17.4		mg/L	0.1	20	87.1%	17.42523	0.1	08/05/03	19:17	1	3	17.42523
lcsW-H05W2	K 7664	17.7		mg/L	0.1	20	88.5%	17.70944	0.1	08/05/03	16:54	1	3	17.70944
lcsW-H05L1	Mg2790	20.7		mg/L	0.05	20	103.4%	20.67587	0.05	08/05/03	19:17	1	3	20.67587
lcsW-H05W2	Mg2790	20.9		mg/L	0.05	20	104.4%	20.87351	0.05	08/05/03	16:54	1	3	20.87351
lcsW-H05L1	Mn2576	0.514		mg/L	0.005	0.5	102.7%	0.51365	0.005	08/05/03	19:17	1	3	0.51365
lcsW-H05W2	Mn2576	0.515		mg/L	0.005	0.5	102.9%	0.51466	0.005	08/05/03	16:54	1	3	0.51466
lcsW-H05L1	Na3302	18.3		mg/L	0.2	20	91.7%	18.34626	0.2	08/05/03	19:17	1	3	18.34626
lcsW-H05W2	Na3302	18.8		mg/L	0.2	20	94.0%	18.79298	0.2	08/05/03	16:54	1	3	18.79298
lcsW-H05L1	Sr4215	4.17		mg/L	0.005	4	104.3%	4.17246	0.005	08/05/03	19:17	1	3	4.17246
lcsW-H05W2	Sr4215	4.18		mg/L	0.005	4	104.4%	4.17701	0.005	08/05/03	16:54	1	3	4.17701
pbw-G15W1	Ca3179	0.075	U	mg/L	0.075			0.04414	0.075	07/15/03	12:00	1	2	0.04414
pbw-G15W2	Ca3179	0.075	U	mg/L	0.075			0.03901	0.075	07/15/03	15:59	1	1	0.03901
pbw-H05L1	K 7664	0.1	U	mg/L	0.1			0.00311	0.1	08/05/03	19:11	1	3	0.00311

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to#030714-8
06002.01.141

system id	elem	result	qual	units	rl	tv	rec	ug/ml	rl	date	time	df	run	mg/L
pbw-H05L2	K 7664	0.1	U	mg/L	0.1			0.00273	0.1	08/05/03	16:49	1	3	0.00273
pbw-H05L1	Mg2790	0.05	U	mg/L	0.05			-0.00282	0.05	08/05/03	19:11	1	3	-0.00282
pbw-H05L2	Mg2790	0.05	U	mg/L	0.05			-0.00120	0.05	08/05/03	16:49	1	3	-0.0012
pbw-H05L1	Mn2576	0.005	U	mg/L	0.005			0.00012	0.005	08/05/03	19:11	1	3	0.00012
pbw-H05L2	Mn2576	0.005	U	mg/L	0.005			0.00002	0.005	08/05/03	16:49	1	3	2E-05
pbw-H05L1	Na3302	0.2	U	mg/L	0.2			-0.05297	0.2	08/05/03	19:11	1	3	-0.05297
pbw-H05L2	Na3302	0.2	U	mg/L	0.2			0.08810	0.2	08/05/03	16:49	1	3	0.0881
pbw-H05L1	Sr4215	0.005	U	mg/L	0.005			0.00011	0.005	08/05/03	19:11	1	3	0.00011
pbw-H05L2	Sr4215	0.005	U	mg/L	0.005			0.00005	0.005	08/05/03	16:49	1	3	5E-05

010048

#1

ICP ANALYSIS

PROJ. NO. PROJECT TO# DATE MATRIX LOGBK PG

~~06002.01.081~~ ~~Div 20~~ ~~036701-4~~ ~~7.15.03~~ ~~Liquid~~ ~~54 105~~ ~~3~~

df10

06002.01.081 Div 20 036701-4 7.15.03 Liquid 54 105

06002.01.071 Div 20 036701-4 7.15.03 water 54 104

INSTRUMENT: frac #1 FILENAME: A07148

INSTRUMENT DL: _____

Method: DAILY1 Standard: blk
Run Time: 07/15/03 15:15:11

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Avg	.00116	.0009	.0000	.0002	-.0000	-.0001	.0000
SD	.00013	.0000	.0000	.0000	.0000	.0000	.0000
%RSD	11.035	.5493	116.0	6.787	2.681	.1553	1900.
#1	.00125	.0009	.0000	.0002	-.0000	-.0001	-.0000
#2	.00107	.0009	.0000	.0002	-.0000	-.0001	.0000
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Avg	.0000	.0000	-.0000	.0001	.0005	-.0000	.0023
SD	.0000	.0000	.0000	.0001	.0000	.0000	.0003
%RSD	6.182	21.13	182.5	57.16	2.624	23.55	12.90
#1	.0000	.0000	.0000	.0002	.0006	-.0000	.0025
#2	.0000	.0000	-.0000	.0001	.0005	-.0000	.0021
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Avg	.0005	.0002	-.0000	.0000	-.0000	-.0138	-.0002
SD	.0000	.0001	.0000	.0000	.0000	.0002	.0000
%RSD	6.421	20.80	177.3	.9454	46.30	1.562	8.332
#1	.0005	.0002	.0000	.0000	-.0000	-.0140	-.0002
#2	.0004	.0003	-.0000	.0000	-.0000	-.0137	-.0002
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Avg	-.0000	.0001	.0002	-.0001	-.0000	.0000	.0000
SD	.0001	.0001	.0000	.0001	.0000	.0000	.0000
%RSD	178.6	90.50	.9454	64.47	730.6	89.00	36.24
#1	.0000	.0000	.0002	-.0002	.0000	.0000	.0000
#2	-.0001	.0001	.0002	-.0001	-.0000	.0001	.0000
Elem	Sc3613	1960/1	1960/2	Si2881	Sn1899	Sr4215	Th2837
Avg	62.28	-.0001	.0001	.0020	-.0000	.0000	.0000
SD	.59	.0000	.0000	.0000	.0000	.0000	.0000
%RSD	.9474	53.67	47.17	1.522	273.5	61.38	8.486
#1	61.86	-.0001	.0001	.0020	-.0001	.0000	.0000
#2	62.70	-.0000	.0001	.0019	.0000	.0000	.0000
Elem	Ti3372	Tl1908	U_3859	V_2924	W_2079	Y_3710	Zn2062
Avg	-.0013	-.0001	.0043	-.0000	.0001	-.0000	.0000
SD	.0000	.0000	.0000	.0000	.0000	.0000	.0000
%RSD	.5248	24.04	.3119	16.65	26.17	34.47	.9454
#1	-.0014	-.0001	.0043	-.0000	.0002	-.0000	.0000
#2	-.0013	-.0001	.0043	-.0000	.0001	-.0000	.0000
Elem	Zr3496						
Avg	.0001						
SD	.0000						
%RSD	6.806						
#1	.0001						
#2	.0001						

Handwritten signature and date: 7/15/03

7.15.03

Stamp: 07/15/03 18:44:03

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	622742	10000	--	--	--	--	--
SDev	5887.371	.00000000	--	--	--	--	--
%RSD	.9453949	.00000000	--	--	--	--	--
#1	618579	10000	--	--	--	--	--
#2	626905	10000	--	--	--	--	--

Method: DAILY1 Standard: clp_std4
 Run Time: 07/15/03 15:20:18

Elem	Ag3280	As1890	2203/1	2203/2	Sb2068	1960/1	1960/2
Avge	.05538	.1233	.4776	.4929	.1261	.2549	.4410
SDev	.00033	.0003	.0011	.0006	.0002	.0011	.0000
%RSD	.60116	.2584	.2277	.1131	.1423	.4172	.0045

#1	.05515	.1230	.4768	.4926	.1260	.2542	.4410
#2	.05562	.1235	.4783	.4933	.1263	.2557	.4410

Elem	T11908
Avge	.0321
SDev	.0001
%RSD	.1849

#1	.0321
#2	.0321

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	---	---	---	---	---	---
Wavlen	361.384	---	---	---	---	---	---
Avge	614440	10000	---	---	---	---	---
SDev	3515.028	.0000000	---	---	---	---	---
%RSD	.5720697	.0000000	---	---	---	---	---

#1	616926	10000	---	---	---	---	---
#2	611955	10000	---	---	---	---	---

Standardization Rpt.

07/15/03 03:28:58 PM

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Method: DAILY1 Standard: clp_std1
 Run Time: 07/15/03 15:24:43

Elem	Al3082	Ca3179	Fe2714	K_7664	Li6707	Mg2790	Na3302
Avge	.1302	.1542	.1098	1.439	2.987	.0590	.0115
SDev	.0000	.0002	.0002	.001	.002	.0002	.0001
%RSD	.0059	.1151	.2014	.0457	.0535	.3034	1.062
#1	.1302	.1543	.1096	1.439	2.986	.0589	.0116
#2	.1302	.1541	.1099	1.440	2.989	.0592	.0114
IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	607972	10000	--	--	--	--	--
SDev	1713.320	.0000000	--	--	--	--	--
%RSD	.2818092	.0000000	--	--	--	--	--
#1	606760	10000	--	--	--	--	--
#2	609183	10000	--	--	--	--	--

Method: DAILY1 Standard: clp_std5
 Run Time: 07/15/03 15:29:07

Elem	B_2496	Bi2230	Mo2020	P_1782	Si2881	Sn1899	Sr4215
Avge	.4387	.0641	.1758	.0422	.1451	.2102	1.443
SDev	.0015	.0003	.0011	.0006	.0006	.0002	.010
%RSD	.3327	.4076	.6422	1.317	.4297	.0952	.6811
#1	.4376	.0643	.1750	.0418	.1456	.2104	1.450
#2	.4397	.0639	.1766	.0426	.1447	.2101	1.436

Elem	Ti3372
Avge	1.057
SDev	.000
%RSD	.0350

#1	1.057
#2	1.058

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	618622	10000	--	--	--	--	--
SDev	7847.471	.0000000	--	--	--	--	--
%RSD	1.268541	.0000000	--	--	--	--	--
#1	613073	10000	--	--	--	--	--
#2	624171	10000	--	--	--	--	--

Method: DAILY1 Standard: clp_std2
 Run Time: 07/15/03 15:33:10

Elem	Ba4934	Be3130	Cr2677	Cu3247	Ni2316
Avgc	.5757	.2412	.3240	.3088	.8383
SDev	.0003	.0039	.0004	.0002	.0047
%RSD	.0610	1.610	.1359	.0734	.5668

#1	.5754	.2385	.3237	.3087	.8349
#2	.5759	.2440	.3243	.3090	.8416

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avgc	619038	10000	--	--	--	--	--
SDev	7806.459	.0000000	--	--	--	--	--
%RSD	1.261063	.0000000	--	--	--	--	--
#1	613518	10000	--	--	--	--	--
#2	624558	10000	--	--	--	--	--

Method: DAILY1 Standard: clp_std3

Run Time: 07/15/03 15:36:51

Elem	Cd2265	Co2286	Mn2576	V_2924	Zn2062		
Avg	1.322	.3005	.4392	.0772	.1036		
SDev	.001	.0013	.0014	.0003	.0004		
%RSD	.0985	.4148	.3183	.3840	.3757		
#1	1.321	.2996	.4382	.0770	.1033		
#2	1.323	.3014	.4402	.0774	.1039		
IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	624098	10000	--	--	--	--	--
SDev	1668.065	.0000000	--	--	--	--	--
%RSD	.2672763	.0000000	--	--	--	--	--
#1	622918	10000	--	--	--	--	--
#2	625277	10000	--	--	--	--	--

Method: DAILY1

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Ag3280	328.068	clp_std4	blk	36.8841	-.042756	07/15/03 03:41:19
Al3082	308.215	clp_std1	blk	386.681	-.332518	07/15/03 03:41:19
As1890	189.042	clp_std4	blk	81.1324	-.000721	07/15/03 03:41:19
B_2496	249.678	clp_std5	blk	22.8064	-.004433	07/15/03 03:41:19
Ba4934	493.409	clp_std2	blk	17.3700	.000544	07/15/03 03:41:19
Be3130	313.042	clp_std2	blk	20.7159	.002977	07/15/03 03:41:19
Bi2230	223.061	clp_std5	blk	77.3965	-.000171	07/15/03 03:41:19
Ca3179	317.933	clp_std1	blk	324.302	-.007032	07/15/03 03:41:19
Cd2265	226.502	clp_std3	blk	7.56328	-.000255	07/15/03 03:41:19
Co2286	228.616	clp_std3	blk	33.2795	.000185	07/15/03 03:41:19
Cr2677	267.716	clp_std2	blk	30.8719	-.003554	07/15/03 03:41:19
Cu3247	324.753	clp_std2	blk	32.4375	-.017556	07/15/03 03:41:19
Fe2714	271.441	clp_std1	blk	455.339	.018300	07/15/03 03:41:19
K_7664	766.491	clp_std1	blk	34.7938	-.080001	07/15/03 03:41:19
La4086	408.672	clp_std6	blk	27.6010	-.012591	07/15/03 03:41:19
Li6707	670.784	clp_std1	blk	3.34759	-.000787	07/15/03 03:41:19
Mg2790	279.078	clp_std1	blk	423.338	.002697	07/15/03 03:41:19
Mn2576	257.610	clp_std3	blk	22.7678	-.000037	07/15/03 03:41:19
Mo2020	202.030	clp_std5	blk	56.8988	.000684	07/15/03 03:41:19
Na5889	588.995	clp_std6	blk	7.64500	.105615	07/15/03 03:41:19
Na3302	330.232	clp_std1	blk	4281.44	.838436	07/15/03 03:41:19
Ni2316	231.604	clp_std2	blk	11.9286	.000513	07/15/03 03:41:19
P_1782	178.287	clp_std5	blk	237.218	-.013845	07/15/03 03:41:19
2203/1	220.351	clp_std4	blk	20.9476	-.003969	07/15/03 03:41:19
2203/2	220.352	clp_std4	blk	20.2801	.002973	07/15/03 03:41:19
Pd3404	340.458	clp_std6	blk	68.2136	.000212	07/15/03 03:41:19
S_1820	182.040	clp_std6	blk	202.998	-.009738	07/15/03 03:41:19
Sb2068	206.838	clp_std4	blk	79.2991	-.001531	07/15/03 03:41:19
Sc3613	361.384	blk	dark	1.60894	-.203772	07/15/03 03:41:19
1960/1	196.021	clp_std4	blk	39.2151	.003125	07/15/03 03:41:19
1960/2	196.022	clp_std4	blk	22.6815	-.001981	07/15/03 03:41:19
Si2881	288.158	clp_std5	blk	69.6421	-.137227	07/15/03 03:41:19
Pb220	220.353	NONE	NONE	.000000	.000000	*NOT STANDARDIZED
Se196	196.026	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
Sn1899	189.989	clp_std5	blk	47.5918	.000813	07/15/03 03:41:19
Sr4215	421.552	clp_std5	blk	6.93138	-.000039	07/15/03 03:41:19
Th2837	283.730	clp_std6	blk	186.153	-.004482	07/15/03 03:41:19
Ti3372	337.280	clp_std5	blk	9.44576	.012749	07/15/03 03:41:19
Tl1908	190.864	clp_std4	blk	310.741	.021183	07/15/03 03:41:19
Tl_3859	385.958	clp_std6	blk	395.647	-1.70208	07/15/03 03:41:19
V_2924	292.402	clp_std3	blk	129.459	.000936	07/15/03 03:41:19
W_2079	207.910	clp_std6	blk	35.5236	-.004798	07/15/03 03:41:19
Y_3710	371.030	clp_std6	blk	10.4192	.000067	07/15/03 03:41:19
Zn2062	206.200	clp_std3	blk	96.5308	-.000465	07/15/03 03:41:19
Zr3496	349.621	clp_std6	blk	9.24761	-.001084	07/15/03 03:41:19

Method: DAILY1 Standard: clp_std6
 Run Time: 07/15/03 15:41:19

Elem	La4086	Na5889	Pd3404	S_1820	Th2837	U_3859	W_2079
Avgc	.3507	.1170	.1488	.0494	.0564	.0296	.1409
SDev	.0040	.0008	.0004	.0012	.0003	.0002	.0013
%RSD	1.146	.7279	.3016	2.465	.5817	.5985	.8934
#1	.3478	.1164	.1485	.0485	.0562	.0294	.1400
#2	.3535	.1176	.1491	.0502	.0567	.0297	.1417
Elem	Y_3710	Zr3496					
Avgc	.9596	1.150					
SDev	.0027	.001					
%RSD	.2797	.0944					
#1	.9577	1.150					
#2	.9615	1.151					
IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avgc	632555	10000	--	--	--	--	--
SDev	772.1606	.0000000	--	--	--	--	--
%RSD	.1220701	.0000000	--	--	--	--	--
#1	633101	10000	--	--	--	--	--
#2	632009	10000	--	--	--	--	--

Analysis Report QC Standard 07/15/03 03:51:27 PM page 1

Method: DAILY1 Sample Name: icv/ccv Operator:
 Run Time: 07/15/03 15:46:28
 Comment:
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0216	9.743	4.912	4.825	10.50	1.045	4.957
SDev	.0092	.021	.011	.040	.05	.002	.025
%RSD	.90379	.2153	.2234	.8325	.4328	.1480	.5076

#1	1.0282	9.728	4.904	4.797	10.46	1.046	4.939
#2	1.0151	9.758	4.920	4.854	10.53	1.044	4.975

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	10.00	5.000	5.000	10.00	1.000	5.000
Range	10.000	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.07	.9964	4.964	1.968	2.128	10.16	017.92
SDev	.01	.0004	.019	.004	.010	.01	.18
%RSD	.0562	.0400	.3849	.1896	.4835	.1024	.9855

#1	20.08	.9967	4.951	1.965	2.121	10.15	017.80
#2	20.06	.9961	4.978	1.970	2.135	10.17	18.05

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	20.00	1.000	5.000	2.000	2.000	10.00	20.00
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.185	4.688	19.79	1.034	5.019	041.39	025.66
SDev	.010	.021	.04	.003	.029	.21	1.02
%RSD	.1929	.4481	.2040	.3350	.5808	.5084	3.983

#1	5.192	4.673	19.76	1.032	4.998	041.24	024.93
#2	5.178	4.702	19.82	1.036	5.040	041.54	026.38

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Fail
Value	5.000	5.000	20.00	1.000	5.000	30.00	30.00
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.866	5.010	4.903	4.962	1.075	1.042	.9948
SDev	.011	.176	.041	.031	.009	.005	.0007
%RSD	.2177	3.519	.8335	.6210	.7995	.4579	.0741

#1	4.858	4.886	4.932	4.940	1.081	1.039	.9953
#2	4.873	5.135	4.874	4.984	1.069	1.046	.9942

Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	5.000	5.000			1.000	1.000	1.000
Range	10.00	10.00			10.00	10.00	10.00

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
------	--------	--------	--------	--------	-------	-------	--------

Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	98.50	5.137	5.133	4.959	4.937	5.130	4.843
SDev	.55	.033	.013	.009	.007	.019	.004
%RSD	.5597	.6467	.2442	.1890	.1400	.3784	.0842
#1	98.11	5.114	5.125	4.952	4.932	5.116	4.846
#2	98.89	5.161	5.142	4.965	4.942	5.143	4.840
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass
Value				5.000	5.000	5.000	5.000
Range				10.00	10.00	10.00	10.00
Elem	Sr4215	Th2837	Ti3372	Ti1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.332	1.039	4.943	5.191	1.048	5.046	1.047
SDev	.010	.002	.000	.049	.009	.004	.005
%RSD	.1921	.1871	.0057	.9398	.8111	.0828	.4370
#1	5.339	1.041	4.942	5.156	1.054	5.043	1.050
#2	5.325	1.038	4.943	5.225	1.042	5.049	1.044
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.000	1.000	5.000	5.000	1.000	5.000	1.000
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avg	5.181	1.003	5.052				
SDev	.005	.002	.007				
%RSD	.1019	.2192	.1321				
#1	5.185	1.004	5.056				
#2	5.177	1.001	5.047				
Errors	QC Pass	QC Pass	QC Pass				
Value	5.000	1.000	5.000				
Range	10.00	10.00	10.00				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	613410	10000	--	--	--	--	--
SDev	3411.083	.0000000	--	--	--	--	--
%RSD	.5560854	.0000000	--	--	--	--	--
#1	610998	10000	--	--	--	--	--
#2	615822	10000	--	--	--	--	--

Analysis Report

Blank Sample

07/15/03 03:58:59 PM

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Method: DAILY1

Sample Name: icb/ccb

Operator:

Run Time: 07/15/03 15:54:00

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.02263	.0098	-.0005	.0117	.0039	.0006	.0025
SDev	.00061	.0013	.0028	.0036	.0032	.0004	.0020
%RSD	2.6887	13.63	623.4	30.45	80.54	67.02	79.88
#1	L-.02306	.0088	.0015	.0142	H.0062	.0009	.0039
#2	L-.02220	.0107	-.0024	.0091	.0017	.0003	.0011
Errors	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.0500	.0050	.0500	.0050	.0050	.0050
Low	-.00500	-.0500	-.0050	-.0500	-.0050	-.0050	-.0050
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0076	.0004	.0017	-.0017	.0008	-.0050	-.0034
SDev	.0061	.0006	.0018	.0017	.0006	.0081	.0105
%RSD	79.95	163.8	104.0	99.64	79.13	160.2	303.9
#1	.0119	.0008	.0030	-.0005	.0012	.0007	.0040
#2	.0033	-.0001	.0005	-.0030	.0003	-.0108	-.0108
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0500	.0050	.0050	.0050	.0050	.0250	.1000
Low	-.0500	-.0050	-.0050	-.0050	-.0050	-.0250	-.1000
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026	.0013	.0079	.0004	H.0083	.0097	L-.2022
SDev	.0021	.0008	.0044	.0004	.0028	.0063	.1542
%RSD	81.43	66.32	56.11	92.47	33.05	65.30	76.23
#1	.0041	.0018	.0110	.0007	H.0103	.0142	L-.0932
#2	.0011	.0007	.0047	.0001	H.0064	.0052	L-.3112
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Low
High	.0050	.0050	.0500	.0050	.0050	.0500	.0500
Low	-.0050	-.0050	-.0500	-.0050	-.0050	-.0500	-.0500
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015	.0058	.0010	.0020	.0009	.0011	-.0012
SDev	.0017	.0082	.0003	.0012	.0012	.0004	.0008
%RSD	112.7	142.2	26.57	59.71	134.4	40.46	67.72
#1	.0027	H.0116	.0012	.0029	.0018	.0008	-.0006
#2	.0003	-.0000	.0008	.0012	.0000	.0014	-.0018
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	.0050	.0100			.0050	.0100	.0100
Low	-.0050	-.0100			-.0050	-.0100	-.0100
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899

Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	99.12	.0047	-.0016	-.0016	.0017	.0005	.0034
SDev	.24	.0026	.0004	.0007	.0009	.0012	.0010
%RSD	.2376	55.41	27.75	44.01	53.27	216.5	30.55
#1	98.96	.0065	-.0013	-.0011	.0023	.0014	.0041
#2	99.29	.0029	-.0019	-.0021	.0011	-.0003	.0027
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High				.0100	.0030	.0050	.0050
Low				-.0100	-.0030	-.0050	-.0050
Elem	Sr4215	Th2037	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021	-.0005	.0014	H.0121	.0061	.0021	.0020
SDev	.0016	.0039	.0017	.0035	.0106	.0018	.0024
%RSD	76.23	808.8	123.3	29.08	174.2	87.66	119.8
#1	.0032	.0023	.0026	H.0146	.0135	.0033	.0038
#2	.0010	-.0032	.0002	.0096	-.0014	.0008	.0003
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	.0050	.0100	.0050	.0100	.1000	.0050	.0100
Low	-.0050	-.0100	-.0050	-.0100	-.1000	-.0050	-.0100
Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avg	.0023	.0005	.0022				
SDev	.0019	.0004	.0018				
%RSD	81.09	94.72	82.58				
#1	.0036	.0008	.0035				
#2	.0010	.0002	.0009				
Errors	LC Pass	LC Pass	LC Pass				
High	.0050	.0050	.0050				
Low	-.0050	-.0050	-.0050				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avgc	617296	10000	--	--	--	--	--
SDev	1518.158	.0000000	--	--	--	--	--
%RSD	.2459366	.0000000	--	--	--	--	--
#1	616223	10000	--	--	--	--	--
#2	618370	10000	--	--	--	--	--

Analysis Report

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Method: DAILY1 Sample Name: pbw-G15W2 pg54-103 Operator:
 Run Time: 07/15/03 15:59:09
 Comment:
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.02502	.0198	-.0025	.0045	.0003	.0002	.0021
SDev	.00431	.0071	.0023	.0006	.0001	.0001	.0023
%RSD	17.232	35.61	92.66	14.37	48.18	50.43	109.3
#1	L-.02807	.0148	-.0041	.0049	.0003	.0003	.0038
#2	L-.02197	.0248	-.0009	.0040	.0002	.0001	.0005
Errors	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.0500	.0050	.0500	.0050	.0050	.0050
Low	-.00500	-.0500	-.0050	-.0500	-.0050	-.0050	-.0050
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0390	-.0001	.0028	-.0036	.0007	-.0010	.0180
SDev	.0008	.0002	.0004	.0000	.0001	.0068	.0079
%RSD	2.173	218.3	15.01	1.103	17.31	659.6	44.13
#1	.0396	-.0002	.0025	-.0036	.0008	-.0058	.0236
#2	.0384	.0000	.0031	-.0036	.0006	.0038	.0124
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0500	.0050	.0050	.0050	.0050	.0250	.1000
Low	-.0500	-.0050	-.0050	-.0050	-.0050	-.0250	-.1000
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0004	.0031	.0001	.0031	-.0034	-.0115
SDev	.0004	.0000	.0005	.0001	.0003	.0035	.1980
%RSD	190.6	7.202	16.56	50.43	10.01	105.1	1715.
#1	-.0001	.0004	.0035	.0001	.0033	-.0009	H.1284
#2	.0005	.0005	.0028	.0001	.0029	-.0059	L-.1515
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0050	.0500	.0050	.0050	.0500	.0500
Low	-.0050	-.0050	-.0500	-.0050	-.0050	-.0500	-.0500
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	H.0122	.0022	-.0001	-.0006	-.0071	.0011
SDev	.0002	.0088	.0021	.0021	.0009	.0014	.0017
%RSD	104.2	72.51	94.60	3052.	156.3	19.66	163.2
#1	-.0001	.0059	.0007	.0014	-.0013	-.0061	.0023
#2	-.0004	H.0184	.0037	-.0016	.0001	-.0081	-.0002
Errors	LC Pass	LC High	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	.0050	.0100			.0050	.0100	.0100
Low	-.0050	-.0100			-.0050	-.0100	-.0100
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899

Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	97.57	.0057	.0008	-.0002	.0007	.0024	.0006
SDev	.97	.0001	.0003	.0001	.0007	.0001	.0000
%RSD	.9991	2.646	34.90	82.40	101.7	5.576	.0179
#1	98.26	.0058	.0006	-.0001	.0012	.0023	.0006
#2	96.88	.0055	.0010	-.0003	.0002	.0025	.0006
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High				.0100	.0030	.0050	.0050
Low				-.0100	-.0030	-.0050	-.0050
Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	-.0038	-.0002	H.0171	.0415	.0005	.0009
SDev	.0001	.0044	.0002	.0021	.0048	.0003	.0026
%RSD	16.13	116.5	98.21	12.36	11.60	54.32	296.9
#1	.0005	-.0007	-.0001	H.0156	.0449	.0003	.0027
#2	.0004	-.0069	-.0003	H.0186	.0381	.0008	-.0010
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	.0050	.0100	.0050	.0100	.1000	.0050	.0100
Low	-.0050	-.0100	-.0050	-.0100	-.1000	-.0050	-.0100
Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avg	.0002	.0006	.0003				
SDev	.0000	.0000	.0004				
%RSD	16.70	1.727	137.2				
#1	.0002	.0006	.0000				
#2	.0002	.0006	.0006				
Errors	LC Pass	LC Pass	LC Pass				
High	.0050	.0050	.0050				
Low	-.0050	-.0050	-.0050				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	607670	10000	--	--	--	--	--
SDev	6022.428	.0000000	--	--	--	--	--
%RSD	.9910697	.0000000	--	--	--	--	--
#1	611928	10000	--	--	--	--	--
#2	603411	10000	--	--	--	--	--

Method: DAILY1 Sample Name: lcsw-G15W2 Operator:
 Run Time: 07/15/03 16:04:18
 Comment:
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02833	1.904	2.013	.0031	2.127	.0541	.0020
SDev	.00227	.006	.002	.0003	.004	.0004	.0020
%RSD	8.0237	.3181	.1096	9.227	.2105	.6662	99.69
#1	.02672	1.900	2.015	.0029	2.123	.0539	.0006
#2	.02993	1.908	2.011	.0033	2.130	.0544	.0035
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.47	.0503	.5003	.1959	.2639	1.005	16.29
SDev	.10	.0003	.0024	.0003	.0007	.005	.03
%RSD	.4890	.5174	.4734	.1648	.2632	.4676	.1574
#1	20.40	.0501	.4986	.1957	.2634	1.001	16.27
#2	20.54	.0505	.5020	.1962	.2644	1.008	16.31
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022	.0005	20.02	.5147	.0019	25.64	16.84
SDev	.0002	.0001	.04	.0019	.0003	.01	.13
%RSD	9.198	23.37	.1894	.3588	17.68	.0255	.7899
#1	.0020	.0005	20.00	.5134	.0021	25.63	16.93
#2	.0023	.0006	20.05	.5160	.0016	25.64	16.74
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4977	.0066	.5037	.5050	.0017	.0005	.4971
SDev	.0021	.0083	.0010	.0021	.0006	.0010	.0008
%RSD	.4179	125.9	.2023	.4145	35.12	200.2	.1703
#1	.4962	.0124	.5030	.5035	.0022	-.0002	.4977
#2	.4992	.0007	.5044	.5064	.0013	.0013	.4965
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	96.07	2.007	2.066	.0059	.5040	2.045	-.0003
SDev	.63	.025	.015	.0008	.0017	.018	.0005
%RSD	.6594	1.242	.7351	13.09	.3439	.9007	174.3
#1	96.52	1.990	2.056	.0053	.5028	2.032	.0001
#2	95.62	2.025	2.077	.0064	.5053	2.058	-.0007
Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.367	-.0040	-.0002	2.118	.0256	.5080	-.0002
SDev	.008	.0030	.0002	.003	.0029	.0013	.0002
%RSD	.1744	74.47	105.7	.1475	11.38	.2628	139.8
#1	4.372	-.0062	-.0001	2.116	.0235	.5071	-.0003
#2	4.361	-.0019	-.0003	2.121	.0276	.5090	-.0000

Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avg	-.0000	.5046	.0000				
SDev	.0000	.0030	.0000				
%RSD	1.109	.5895	45.23				
#1	-.0000	.5025	.0000				
#2	-.0000	.5067	.0001				
IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	598295	10000	--	--	--	--	--
SDev	3928.685	.0000000	--	--	--	--	--
%RSD	.6566469	.0000000	--	--	--	--	--
#1	601073	10000	--	--	--	--	--
#2	595517	10000	--	--	--	--	--

Method: DAILY1 Sample Name: 2307272 Operator:
 Run Time: 07/15/03 16:09:29
 Comment:
 Mode: CONC Corr. Factor: 1

JR
8/11/03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.02694	.0207	.0008	.0110	.0476	-.0000	.0016
SDev	.00299	.0044	.0036	.0000	.0019	.0000	.0048
%RSD	11.086	21.34	467.2	.2165	3.982	111.0	305.8
#1	-.02483	.0176	-.0018	.0111	.0489	-.0000	-.0018
#2	-.02906	.0238	.0033	.0110	.0462	-.0000	.0050
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.942	-.0002	.0012	-.0032	.0015	-.0017	.1740
SDev	.006	.0002	.0003	.0002	.0005	.0126	.0054
%RSD	.0808	78.17	24.15	6.901	31.43	730.5	3.094
#1	7.938	-.0003	.0013	-.0031	.0018	.0072	.1778
#2	7.947	-.0001	.0010	-.0034	.0012	-.0107	.1702
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0003	.0235	.0006	.0013	5.188	3.754
SDev	.0003	.0001	.0164	.0005	.0001	.026	.024
%RSD	37.62	31.77	70.02	80.33	5.307	.5003	.6468
#1	.0005	.0003	.0351	.0009	.0013	5.207	3.771
#2	.0009	.0004	.0118	.0003	.0012	5.170	3.737
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	.0156	.0006	.0020	-.0016	.0093	.0026
SDev	.0007	.0077	.0013	.0029	.0015	.0039	.0017
%RSD	59.52	49.25	227.2	142.8	96.77	41.44	65.30
#1	.0016	.0102	-.0003	-.0000	-.0026	.0121	.0038
#2	.0007	.0210	.0015	.0040	-.0005	.0066	.0014
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	96.94	-.0005	.0036	.0313	.0015	.0022	-.0006
SDev	.29	.0023	.0059	.0001	.0023	.0047	.0001
%RSD	.3020	512.8	166.5	.4309	153.1	211.4	17.77
#1	96.73	.0012	.0077	.0312	-.0001	.0056	-.0005
#2	97.15	-.0021	-.0006	.0314	.0032	-.0011	-.0007
Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068	-.0006	-.0004	.0179	.0297	.0007	-.0011
SDev	.0038	.0001	.0001	.0120	.0044	.0006	.0001
%RSD	56.50	13.27	27.19	67.07	14.90	81.85	11.90
#1	.0095	-.0007	-.0003	.0263	.0265	.0012	-.0010
#2	.0041	-.0005	-.0005	.0094	.0328	.0003	-.0012

Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avgc	.0000	.0058	.0005				
SDev	.0001	.0002	.0000				
%RSD	460.6	4.194	2.978				
#1	.0001	.0060	.0005				
#2	-.0001	.0056	.0005				
IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avgc	603728	10000	--	--	--	--	--
SDev	1850.498	.0000000	--	--	--	--	--
%RSD	.3065117	.0000000	--	--	--	--	--
#1	602420	10000	--	--	--	--	--
#2	605037	10000	--	--	--	--	--

Method: DAILY1 Sample Name: 230272d

Operator:

Run Time: 07/15/03 16:14:38

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.02982	.0261	.0001	.0102	.0449	.0000	.0022
SDev	.00201	.0022	.0028	.0007	.0004	.0001	.0030
%RSD	6.7456	8.462	4949.	7.314	.8522	340.7	135.0
#1	-.03124	.0245	.0020	.0107	.0452	-.0001	.0043
#2	-.02840	.0277	-.0019	.0096	.0447	.0001	.0001
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.927	-.0000	-.0001	-.0035	.0013	.0059	.1633
SDev	.077	.0001	.0001	.0001	.0001	.0070	.0220
%RSD	.9775	342.6	164.1	3.636	8.313	117.7	13.48
#1	7.982	.0001	.0000	-.0034	.0012	.0109	.1789
#2	7.872	-.0001	-.0002	-.0036	.0014	.0010	.1478
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.0003	.0070	.0001	.0009	5.078	3.582
SDev	.0005	.0001	.0030	.0001	.0010	.002	.148
%RSD	59.26	27.98	43.29	37.10	120.8	.0461	4.141
#1	.0012	.0002	.0091	.0002	.0016	5.079	3.687
#2	.0005	.0004	.0048	.0001	.0001	5.076	3.477
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0057	.0021	.0021	.0012	.0054	.0019
SDev	.0003	.0050	.0016	.0042	.0010	.0055	.0013
%RSD	107.2	88.38	78.04	197.8	87.01	101.5	70.74
#1	.0004	.0021	.0033	-.0009	.0019	.0015	.0028
#2	.0001	.0092	.0009	.0051	.0005	.0093	.0009
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	98.44	.0041	-.0017	.0281	.0021	.0002	.0024
SDev	.94	.0058	.0023	.0002	.0023	.0004	.0006
%RSD	.9509	141.7	132.6	.6119	106.4	181.2	25.63
#1	97.78	.0082	-.0034	.0283	.0005	.0005	.0028
#2	99.10	-.0000	-.0001	.0280	.0037	-.0001	.0020
Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026	-.0044	-.0003	.0093	.0632	.0002	.0005
SDev	.0001	.0001	.0001	.0026	.0196	.0008	.0010
%RSD	5.873	1.264	23.89	28.31	30.97	337.6	194.3
#1	.0027	-.0044	-.0003	.0074	.0770	.0008	.0012
#2	.0025	-.0045	-.0004	.0111	.0493	-.0003	-.0002

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avgc	.0000	.0058	.0001
SDev	.0001	.0002	.0006
%RSD	455.8	2.966	424.3

#1	.0001	.0059	.0005
#2	-.0000	.0057	-.0003

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avgc	613035	10000	--	--	--	--	--
SDev	5839.288	.0000000	--	--	--	--	--
%RSD	.9525211	.0000000	--	--	--	--	--
#1	608906	10000	--	--	--	--	--
#2	617164	10000	--	--	--	--	--

Analysis Report

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Method: DAILY1 Sample Name: 230293 Operator:
 Run Time: 07/15/03 16:19:46
 Comment:
 Mode: CONC Corr. Factor: 1

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 JD 1103

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03207	.0226	.0043	.0109	.0625	.0000	.0014
SDev	.00060	.0096	.0033	.0003	.0005	.0003	.0016
%RSD	1.8591	42.69	76.20	2.951	.8473	2014.	113.4
#1	.03249	.0158	.0020	.0112	.0621	.0002	.0026
#2	.03165	.0294	.0066	.0107	.0629	.0002	.0003
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8077	.0002	.0007	.0037	.0009	.0002	.2119
SDev	.0063	.0001	.0000	.0003	.0007	.0041	.0278
%RSD	.7742	48.49	5.692	8.654	73.88	1842.	13.11
#1	.8121	.0001	.0006	.0039	.0004	.0027	.2316
#2	.8033	.0003	.0007	.0034	.0014	.0031	.1923
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0003	.0013	.0001	.0004	10.17	7.093
SDev	.0009	.0000	.0019	.0000	.0001	.05	.366
%RSD	200.0	4.256	145.7	31.55	19.11	.5055	5.165
#1	.0011	.0003	.0027	.0001	.0003	10.13	7.352
#2	.0002	.0003	.0000	.0001	.0004	10.21	6.834
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	.0182	.0001	.0004	.0019	.0133	.0009
SDev	.0001	.0117	.0004	.0012	.0003	.0014	.0000
%RSD	12.28	64.40	414.2	262.9	17.33	10.13	.5577
#1	.0007	.0264	.0004	.0004	.0021	.0123	.0008
#2	.0008	.0099	.0002	.0013	.0017	.0142	.0009
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	97.63	.0054	.0008	.0406	.0003	.0023	.0028
SDev	.35	.0036	.0009	.0003	.0006	.0018	.0016
%RSD	.3579	66.32	108.3	.6913	193.2	75.51	58.08
#1	97.38	.0079	.0014	.0404	.0001	.0036	.0017
#2	97.88	.0029	.0002	.0408	.0008	.0011	.0040
Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	.0014	.0007	.0174	.0239	.0001	.0016
SDev	.0000	.0005	.0002	.0047	.0091	.0000	.0022
%RSD	.2442	37.24	26.13	26.94	38.07	6.562	134.3
#1	.0013	.0010	.0005	.0207	.0175	.0001	.0001
#2	.0013	.0018	.0008	.0141	.0304	.0001	.0032

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	.0000	.0029	.0011
SDev	.0000	.0001	.0010
%RSD	153.0	3.501	96.61

#1	-.0000	.0029	.0003
#2	.0000	.0030	.0018

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	608024	10000	--	--	--	--	--
SDev	2139.705	.0000000	--	--	--	--	--
%RSD	.3519113	.0000000	--	--	--	--	--
#1	606511	10000	--	--	--	--	--
#2	609537	10000	--	--	--	--	--

Analysis Report

07/15/03 04:29:53 PM

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Method: DAILY1 Sample Name: 230273s
 Run Time: 07/15/03 16:24:55
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

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 JP 8/10/03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02281	1.947	2.068	.0115	2.210	.0553	.0010
SDev	.00079	.006	.016	.0001	.005	.0002	.0032
%RSD	3.4496	.2935	.7512	.4150	.2384	.3697	327.1
#1	.02337	1.943	2.057	.0115	2.207	.0554	-.0013
#2	.02225	1.951	2.079	.0115	2.214	.0551	.0032
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	21.70	.0518	.5157	.2025	.2835	1.036	17.57
SDev	.04	.0004	.0006	.0003	.0009	.002	.00
%RSD	.1740	.7381	.1131	.1351	.3056	.1980	.0022
#1	21.73	.0521	.5153	.2027	.2829	1.037	17.57
#2	21.68	.0515	.5161	.2023	.2841	1.034	17.57
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023	.0006	20.47	.5294	.0001	39.53	25.94
SDev	.0003	.0002	.01	.0010	.0005	.05	.06
%RSD	12.03	38.94	.0586	.1956	912.7	.1391	.2377
#1	.0021	.0004	20.46	.5287	-.0003	39.49	25.98
#2	.0025	.0007	20.48	.5301	.0004	39.56	25.90
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5113	.0226	.5198	.5246	-.0024	.0095	.5090
SDev	.0014	.0004	.0026	.0027	.0010	.0010	.0040
%RSD	.2834	1.903	.5030	.5190	43.01	10.88	.7875
#1	.5103	.0222	.5180	.5227	-.0017	.0102	.5062
#2	.5124	.0229	.5217	.5265	-.0031	.0087	.5118
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	96.87	2.095	2.111	.0464	.5225	2.103	.0042
SDev	.34	.029	.001	.0015	.0027	.009	.0024
%RSD	.3533	1.395	.0652	3.280	.5137	.4191	56.74
#1	96.62	2.074	2.112	.0454	.5206	2.097	.0025
#2	97.11	2.116	2.110	.0475	.5244	2.110	.0059
Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.407	-.0066	-.0005	2.155	.0633	.5181	-.0022
SDev	.003	.0002	.0003	.002	.0004	.0003	.0028
%RSD	.0702	3.108	47.81	.1157	.6785	.0678	128.0
#1	4.405	-.0068	-.0007	2.153	.0629	.5179	-.0002
#2	4.410	-.0065	-.0004	2.156	.0636	.5184	-.0042

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	-.0000	.5286	.0006
SDev	.0001	.0016	.0000
%RSD	363.0	.2986	4.234

#1	-.0001	.5275	.0006
#2	.0000	.5297	.0006

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	603260	10000	--	--	--	--	--
SDev	2073.944	.0000000	--	--	--	--	--
%RSD	.3437897	.0000000	--	--	--	--	--
#1	601793	10000	--	--	--	--	--
#2	604726	10000	--	--	--	--	--

Analysis Report

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Method: DAILY1 Sample Name: 230274
 Run Time: 07/15/03 16:30:03
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03299	.0191	.0001	.0100	.0528	.0000	.0001
SDev	.00199	.0037	.0022	.0002	.0015	.0001	.0056
%RSD	6.0368	19.63	2131.	2.400	2.827	128.6	10950.
#1	-.03440	.0165	.0015	.0098	.0538	.0001	-.0040
#2	-.03158	.0218	-.0017	.0102	.0517	.0000	.0039
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.321	-.0001	.0007	-.0032	.0012	.0071	.1805
SDev	.011	.0001	.0002	.0009	.0009	.0022	.0220
%RSD	.4598	73.73	28.87	28.07	75.83	30.65	12.21
#1	2.328	-.0000	.0005	-.0026	.0018	.0087	.1960
#2	2.313	-.0001	.0008	-.0039	.0005	.0056	.1649
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0003	.0249	.0007	.0009	6.865	4.872
SDev	.0006	.0000	.0156	.0004	.0002	.016	.096
%RSD	174.9	10.49	62.52	63.83	21.71	.2333	1.967
#1	-.0001	.0003	.0359	.0010	.0008	6.876	4.939
#2	.0007	.0004	.0139	.0004	.0011	6.854	4.804
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	.0227	.0024	.0039	-.0003	.0093	.0005
SDev	.0012	.0092	.0011	.0028	.0027	.0032	.0004
%RSD	152.4	40.44	48.38	72.52	791.5	35.03	77.39
#1	.0016	.0162	.0016	.0059	-.0023	.0115	.0002
#2	-.0001	.0292	.0032	.0019	.0016	.0070	.0007
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	96.81	.0029	.0073	.0506	.0034	.0059	.0013
SDev	.72	.0070	.0018	.0018	.0015	.0011	.0031
%RSD	.7435	240.7	24.15	3.537	44.31	19.65	241.3
#1	96.30	-.0020	.0086	.0493	.0045	.0050	.0035
#2	97.32	.0078	.0061	.0519	.0023	.0067	-.0009
Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0069	-.0014	-.0002	.0088	.0218	.0012	.0001
SDev	.0034	.0018	.0002	.0074	.0010	.0009	.0011
%RSD	49.82	125.1	73.14	84.05	4.535	77.94	986.7
#1	.0094	-.0002	-.0003	.0036	.0211	.0018	.0009
#2	.0045	-.0027	-.0001	.0140	.0225	.0005	-.0007

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	.0000	.0041	.0002
SDev	.0001	.0002	.0002
%RSD	358.9	4.689	84.98

#1	.0001	.0040	.0003
#2	-.0000	.0043	.0001

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	602920	10000	--	--	--	--	--
SDev	4519.120	.0000000	--	--	--	--	--
%RSD	.7495394	.0000000	--	--	--	--	--
#1	599724	10000	--	--	--	--	--
#2	606115	10000	--	--	--	--	--

Analysis Report

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Method: DAILY1 Sample Name: 230275 Operator:
 Run Time: 07/15/03 16:35:11
 Comment:
 Mode: CONC Corr. Factor: 1

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 8/10/03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.03160	.0207	-.0008	.0115	.0568	-.0000	.0012
SDev	.00007	.0004	.0023	.0003	.0001	.0001	.0019
%RSD	.20991	1.802	300.8	2.471	.2211	273.8	158.8
#1	-.03165	.0204	-.0024	.0117	.0568	-.0001	-.0001
#2	-.03156	.0209	.0009	.0113	.0569	.0000	.0026
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.372	-.0001	-.0003	-.0035	.0018	.0024	.2094
SDev	.020	.0001	.0004	.0001	.0002	.0079	.0171
%RSD	.8615	40.09	129.0	3.341	9.481	324.3	8.166
#1	2.357	-.0002	-.0006	-.0034	.0019	-.0031	.2214
#2	2.386	-.0001	-.0000	-.0036	.0017	.0080	.1973
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	.0004	.0063	.0001	.0005	6.883	5.006
SDev	.0004	.0000	.0000	.0000	.0007	.045	.059
%RSD	30.97	7.624	.0244	1.047	136.0	.6555	1.176
#1	.0015	.0003	.0063	.0001	.0010	6.915	5.048
#2	.0009	.0004	.0063	.0001	.0000	6.851	4.964
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0206	-.0045	.0028	.0005	.0005	.0017
SDev	.0003	.0023	.0024	.0011	.0016	.0041	.0006
%RSD	49.64	11.01	52.71	40.97	353.0	784.2	36.26
#1	.0004	.0190	-.0062	.0036	-.0007	.0034	.0013
#2	.0008	.0222	-.0028	.0020	.0016	-.0024	.0022
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	96.67	-.0000	.0025	.0535	.0003	.0017	.0004
SDev	.66	.0010	.0042	.0017	.0000	.0032	.0006
%RSD	.6878	3453.	171.2	3.257	11.21	190.2	136.9
#1	96.20	.0007	.0055	.0547	.0003	.0039	.0009
#2	97.14	-.0007	-.0005	.0523	.0004	-.0006	.0000
Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018	-.0013	-.0004	.0124	.0581	.0003	-.0007
SDev	.0002	.0024	.0003	.0036	.0070	.0003	.0015
%RSD	9.687	182.5	69.38	28.92	12.12	98.74	223.2
#1	.0019	-.0030	-.0006	.0150	.0531	.0001	-.0017
#2	.0017	.0004	-.0002	.0099	.0630	.0005	.0004

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	.0000	.0046	.0002
SDev	.0001	.0006	.0001
%RSD	148.3	13.95	36.91

#1	.0001	.0042	.0002
#2	-.0000	.0051	.0003

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	602068	10000	--	--	--	--	--
SDev	4110.412	.0000000	--	--	--	--	--
%RSD	.6827161	.0000000	--	--	--	--	--
#1	599161	10000	--	--	--	--	--
#2	604974	10000	--	--	--	--	--

Method: DAILY1 Sample Name: 230276

Operator:

Run Time: 07/15/03 16:40:20

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03382	.0179	.0022	.0105	.0599	.0002	.0014
SDev	.00021	.0041	.0009	.0010	.0003	.0002	.0009
%RSD	.62218	22.97	39.20	9.670	.4550	94.20	66.01

#1	-.03397	.0208	-.0016	.0097	.0597	-.0004	.0007
#2	-.03367	.0150	-.0029	.0112	.0601	-.0001	.0020

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8033	-.0002	-.0004	-.0038	.0010	-.0000	.1984
SDev	.0026	.0000	.0002	.0001	.0003	.0150	.0208
%RSD	.3208	12.96	44.27	2.551	25.54	39670.	10.48

#1	.8014	-.0002	-.0005	-.0039	.0008	-.0107	.1837
#2	.8051	-.0002	-.0002	-.0037	.0012	.0106	.2131

Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0003	.0003	.0001	-.0008	10.10	7.153
SDev	.0005	.0001	.0005	.0001	.0004	.01	.169
%RSD	74.59	47.45	181.3	46.67	48.10	.1204	2.369

#1	.0003	.0002	-.0001	.0001	-.0011	10.11	7.033
#2	.0010	.0004	.0007	.0001	-.0005	10.09	7.272

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0117	-.0030	.0055	-.0017	.0141	-.0021
SDev	.0007	.0183	.0038	.0008	.0010	.0133	.0003
%RSD	918.4	156.9	128.1	15.11	56.27	94.53	13.12

#1	-.0006	.0246	-.0056	.0060	-.0024	.0047	-.0019
#2	.0004	-.0013	-.0003	.0049	-.0010	.0235	-.0023

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	97.02	-.0004	.0036	.0391	.0026	.0023	-.0002
SDev	.08	.0025	.0024	.0003	.0007	.0025	.0032
%RSD	.0801	667.6	67.53	.7968	27.01	107.8	1493.

#1	97.08	-.0022	.0019	.0389	.0021	.0005	.0021
#2	96.97	.0014	.0053	.0393	.0031	.0040	-.0025

Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	-.0000	-.0005	.0063	.0306	-.0000	-.0014
SDev	.0000	.0006	.0000	.0000	.0135	.0005	.0017
%RSD	1.240	6867.	3.471	.4506	43.94	1609.	118.4

#1	.0013	.0004	-.0005	.0063	.0211	-.0004	-.0002
#2	.0012	-.0005	-.0006	.0063	.0402	.0003	-.0026

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avge	-.0000	.0024	-.0001
SDev	.0001	.0005	.0003
%RSD	630.3	19.02	442.1

#1	-.0001	.0021	-.0003
#2	.0001	.0027	.0002

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	604188	10000	--	--	--	--	--
SDev	496.3890	.0000000	--	--	--	--	--
%RSD	.0821580	.0000000	--	--	--	--	--
#1	604539	10000	--	--	--	--	--
#2	603837	10000	--	--	--	--	--

Method: DAILY1 Sample Name: 230277

Operator:

Run Time: 07/15/03 16:45:28

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03527	.0224	.0051	.0032	.0132	.0001	.0011
SDev	.00066	.0036	.0004	.0002	.0000	.0002	.0013
%RSD	1.8729	15.89	7.095	6.456	.2818	278.9	113.0

#1	.03574	.0199	.0048	.0034	.0132	.0001	.0002
#2	.03481	.0249	.0053	.0031	.0132	.0002	.0020

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	29.17	.0001	.0002	.0038	.0009	.0006	.0077
SDev	.06	.0002	.0000	.0001	.0001	.0029	.0086
%RSD	.2063	167.9	.2748	2.890	16.34	458.0	111.5

#1	29.22	.0000	.0002	.0038	.0008	.0014	.0138
#2	29.13	.0003	.0002	.0037	.0010	.0026	.0016

Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0003	.0008	.0002	.0003	1.133	.5122
SDev	.0001	.0001	.0010	.0002	.0011	.004	.0760
%RSD	39.87	21.32	121.4	77.34	395.1	.3770	14.83

#1	.0002	.0003	.0001	.0001	.0010	1.130	.5660
#2	.0004	.0003	.0015	.0004	.0005	1.136	.4585

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0198	.0003	.0019	.0013	.0053	.0014
SDev	.0003	.0211	.0029	.0011	.0017	.0058	.0006
%RSD	2021.	106.8	931.7	57.05	129.7	109.5	40.17

#1	.0002	.0347	.0023	.0027	.0001	.0012	.0010
#2	.0003	.0048	.0017	.0011	.0025	.0093	.0018

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	95.79	.0036	.0006	.0227	.0012	.0016	.0041
SDev	.03	.0030	.0020	.0007	.0002	.0023	.0032
%RSD	.0363	83.71	339.9	3.083	20.51	146.1	77.49

#1	95.76	.0015	.0008	.0222	.0010	.0001	.0063
#2	95.81	.0057	.0020	.0232	.0013	.0033	.0018

Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048	.0028	.0003	.0139	.0312	.0002	.0027
SDev	.0000	.0015	.0002	.0015	.0027	.0005	.0007
%RSD	.1823	52.37	77.80	10.60	8.789	256.8	25.07

#1	.0048	.0038	.0001	.0129	.0292	.0001	.0022
#2	.0048	.0017	.0005	.0149	.0331	.0005	.0031

Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avgc	-.0000	.0060	.0002				
SDev	.0000	.0008	.0004				
%RSD	124.8	13.42	189.4				
#1	-.0000	.0065	-.0001				
#2	-.0001	.0054	.0005				
IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avgc	596577	10000	--	--	--	--	--
SDev	186.6762	.0000000	--	--	--	--	--
%RSD	.0312912	.0000000	--	--	--	--	--
#1	596445	10000	--	--	--	--	--
#2	596709	10000	--	--	--	--	--

Method: DAILY1 Sample Name: ccv2

Operator:

Run Time: 07/15/03 16:56:18

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0245	9.779	4.933	4.842	10.46	1.082	4.964
SDev	.0035	.002	.004	.054	.08	.009	.010
%RSD	.33794	.0169	.0871	1.114	.7930	.8757	.2007
#1	1.0270	9.780	4.936	4.804	10.40	1.088	4.957
#2	1.0221	9.777	4.930	4.880	10.52	1.075	4.971
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.37	1.007	4.996	1.982	2.127	10.23	17.97
SDev	.01	.004	.000	.000	.001	.04	.10
%RSD	.0492	.4039	.0018	.0147	.0661	.4345	.5353
#1	20.38	1.004	4.996	1.982	2.126	10.26	17.90
#2	20.37	1.010	4.996	1.982	2.128	10.20	18.04
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.159	4.686	19.91	1.042	5.058	41.37	26.87
SDev	.011	.028	.00	.002	.029	.17	.08
%RSD	.2175	.5894	.0167	.2155	.5662	.4150	.2963
#1	5.152	4.666	19.91	1.041	5.038	41.25	26.93
#2	5.167	4.705	19.91	1.044	5.078	41.49	26.81
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.895	5.070	4.980	5.000	1.064	1.014	.9953
SDev	.022	.022	.029	.053	.004	.002	.0000
%RSD	.4457	.4378	.5845	1.053	.3642	.1909	.0014
#1	4.880	5.085	5.000	4.963	1.066	1.015	.9953
#2	4.911	5.054	4.959	5.037	1.061	1.013	.9953
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	98.70	5.163	5.133	4.967	4.988	5.138	4.899
SDev	.26	.010	.054	.007	.025	.032	.010
%RSD	.2673	.2030	1.047	.1321	.5088	.6290	.2019
#1	98.51	5.170	5.095	4.971	4.970	5.115	4.892
#2	98.88	5.155	5.171	4.962	5.006	5.161	4.906
Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.312	1.028	4.976	5.230	1.054	5.067	1.047
SDev	.008	.004	.006	.050	.005	.001	.003
%RSD	.1457	.3565	.1128	.9650	.5036	.0205	.3072
#1	5.307	1.031	4.980	5.195	1.050	5.067	1.050
#2	5.318	1.026	4.972	5.266	1.058	5.066	1.045

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	5.182	1.017	5.063
SDev	.006	.005	.002
%RSD	.1223	.4738	.0426

#1	5.177	1.014	5.062
#2	5.186	1.021	5.065

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	614622	10000	--	--	--	--	--
SDev	1594.526	.0000000	--	--	--	--	--
%RSD	.2594317	.0000000	--	--	--	--	--
#1	613495	10000	--	--	--	--	--
#2	615750	10000	--	--	--	--	--

Method: DAILY1 Sample Name: ccb2
 Run Time: 07/15/03 17:04:30
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.03080	-.0155	-.0033	.0076	.0003	.0002	.0051
SDev	.00245	.0075	.0018	.0027	.0000	.0000	.0001
%RSD	7.9507	48.74	53.39	35.90	14.06	9.515	1.642
#1	-.03253	-.0101	-.0020	.0096	.0002	.0002	.0052
#2	-.02907	-.0208	-.0045	.0057	.0003	.0002	.0051
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054	-.0001	.0003	-.0005	-.0007	.0022	-.0094
SDev	.0017	.0001	.0004	.0044	.0002	.0140	.0065
%RSD	31.00	158.4	155.0	863.0	29.23	626.6	68.58
#1	.0042	.0000	.0006	-.0036	-.0009	-.0076	-.0049
#2	.0066	-.0001	-.0000	.0026	-.0006	.0121	-.0140
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0006	.0015	.0010	.0046	-.0023	-.0859
SDev	.0001	.0001	.0028	.0015	.0009	.0008	.1835
%RSD	36.82	11.49	194.5	142.2	20.62	34.57	213.6
#1	.0002	.0006	-.0005	-.0000	.0052	-.0017	.0438
#2	.0003	.0005	.0034	.0021	.0039	-.0028	-.2156
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016	.0098	.0013	-.0006	.0010	-.0062	-.0008
SDev	.0018	.0029	.0004	.0008	.0031	.0158	.0014
%RSD	113.2	29.92	28.54	121.4	317.9	252.5	171.0
#1	.0003	.0077	.0016	-.0001	.0032	.0049	.0002
#2	.0029	.0119	.0011	-.0012	-.0012	-.0174	-.0018
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	102.3	.0056	-.0031	-.0058	.0000	-.0002	.0007
SDev	.2	.0038	.0009	.0028	.0006	.0007	.0017
%RSD	.1513	67.77	29.68	48.24	3206.	402.7	232.6
#1	102.4	.0082	-.0037	-.0078	.0005	.0003	.0019
#2	102.2	.0029	-.0024	-.0038	-.0004	-.0006	-.0005
Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0027	-.0004	.0246	.0413	.0001	.0008
SDev	.0000	.0042	.0001	.0000	.0089	.0001	.0001
%RSD	7.394	155.7	38.63	.0523	21.50	217.3	5.586
#1	.0002	.0003	-.0003	.0246	.0350	.0002	.0008
#2	.0002	-.0056	-.0005	.0246	.0475	-.0000	.0008

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	.0002	-.0002	.0012
SDev	.0000	.0003	.0010
%RSD	21.95	138.2	85.96

#1	.0001	-.0005	.0019
#2	.0002	-.0000	.0005

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	636825	10000	--	--	--	--	--
SDev	992.7779	.0000000	--	--	--	--	--
%RSD	.1558949	.0000000	--	--	--	--	--
#1	637527	10000	--	--	--	--	--
#2	636123	10000	--	--	--	--	--

Method: DAILY1 Sample Name: 230278

Operator:

Run Time: 07/15/03 17:10:07

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.03368	.0048	-.0011	.0040	.0004	.0001	.0018
SDev	.00085	.0007	.0011	.0004	.0000	.0000	.0016
%RSD	2.5365	13.84	101.7	10.77	9.380	.4794	91.87

#1	-.03307	.0052	-.0019	.0043	.0004	.0001	.0029
#2	-.03428	.0043	-.0003	.0037	.0004	.0001	.0006

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	29.54	-.0002	-.0006	-.0038	.0007	-.0040	.0017
SDev	.60	.0002	.0000	.0004	.0010	.0071	.0051
%RSD	2.027	77.97	1.656	10.34	146.2	180.4	297.8

#1	29.97	-.0003	-.0006	-.0041	-.0000	-.0090	.0053
#2	29.12	-.0001	-.0006	-.0035	.0014	.0011	-.0019

Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0004	.0031	.0001	.0015	1.099	.4501
SDev	.0002	.0002	.0025	.0001	.0001	.019	.0475
%RSD	60.31	37.76	81.55	58.18	3.547	1.737	10.55

#1	.0002	.0005	.0049	.0001	.0015	1.085	.4165
#2	.0005	.0003	.0013	.0002	.0014	1.112	.4836

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0010	.0102	-.0015	-.0006	-.0013	-.0051	-.0009
SDev	.0005	.0023	.0018	.0004	.0005	.0061	.0007
%RSD	45.99	22.87	118.6	62.78	37.32	120.1	72.94

#1	-.0007	.0086	-.0027	-.0003	-.0016	-.0008	-.0014
#2	-.0013	.0119	-.0002	-.0008	-.0009	-.0093	-.0004

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	97.44	.0020	-.0006	.0166	-.0009	.0003	.0015
SDev	1.63	.0089	.0068	.0008	.0003	.0016	.0025
%RSD	1.678	448.2	1163.	4.579	39.23	556.6	170.1

#1	98.59	-.0043	.0042	.0160	-.0011	.0014	.0033
#2	96.28	.0082	-.0054	.0171	-.0006	-.0008	-.0003

Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048	-.0024	-.0004	.0122	.0472	-.0004	.0000
SDev	.0001	.0019	.0000	.0005	.0394	.0004	.0006
%RSD	1.004	79.93	2.343	4.345	83.52	99.06	8850.

#1	.0048	-.0037	-.0004	.0126	.0751	-.0007	-.0004
#2	.0048	-.0010	-.0004	.0119	.0193	-.0001	.0004

Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avg	-.0001	.0005	-.0002				
SDev	.0001	.0002	.0002				
%RSD	77.52	37.14	63.02				
#1	-.0002	.0007	-.0004				
#2	-.0001	.0004	-.0001				
IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	606821	10000	--	--	--	--	--
SDev	10142.74	.0000000	--	--	--	--	--
%RSD	1.671455	.0000000	--	--	--	--	--
#1	613993	10000	--	--	--	--	--
#2	599649	10000	--	--	--	--	--

Method: DAILY1 Sample Name: 230279

Operator:

Run Time: 07/15/03 17:15:38

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.03694	.0156	-.0005	.0034	.0014	.0001	-.0002
SDev	.00195	.0028	.0044	.0004	.0001	.0000	.0008
%RSD	5.2749	18.10	877.8	12.91	9.160	17.27	433.0

#1	-.03556	.0136	-.0036	.0037	.0015	.0001	.0004
#2	-.03831	.0176	.0026	.0031	.0013	.0001	-.0008

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.070	-.0001	.0007	-.0037	.0029	-.0044	.0157
SDev	.035	.0002	.0004	.0006	.0000	.0187	.0257
%RSD	.4394	137.9	57.39	17.08	.1480	422.7	163.9

#1	8.095	-.0000	.0004	-.0032	.0029	.0088	.0339
#2	8.045	-.0003	.0009	-.0041	.0029	-.0177	-.0025

Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014	.0004	.0053	.0001	.0006	1.779	1.152
SDev	.0009	.0000	.0055	.0001	.0006	.020	.222
%RSD	64.73	5.727	104.1	160.0	95.20	1.107	19.27

#1	.0020	.0005	.0092	.0001	.0002	1.765	1.309
#2	.0007	.0004	.0014	-.0000	.0011	1.793	.9954

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0200	-.0008	.0010	.0002	-.0047	.0016
SDev	.0002	.0077	.0017	.0013	.0010	.0082	.0014
%RSD	356.8	38.33	217.4	130.4	425.1	176.4	89.10

#1	-.0001	.0146	-.0020	.0018	.0010	-.0105	.0026
#2	.0002	.0255	.0004	.0001	-.0005	.0012	.0006

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	97.15	.0066	-.0010	.0213	.0004	.0015	.0020
SDev	1.04	.0039	.0002	.0029	.0003	.0012	.0013
%RSD	1.069	59.20	20.97	13.72	68.72	75.36	63.59

#1	96.42	.0038	-.0009	.0234	.0006	.0007	.0029
#2	97.88	.0093	-.0012	.0192	.0002	.0023	.0011

Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021	-.0024	-.0005	.0099	.0747	.0001	-.0006
SDev	.0001	.0002	.0006	.0074	.0228	.0006	.0036
%RSD	2.290	9.644	130.6	74.95	30.47	568.3	600.5

#1	.0021	-.0026	-.0000	.0046	.0908	.0005	.0019
#2	.0020	-.0023	-.0009	.0151	.0586	-.0003	-.0031

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	.0000	.0020	.0006
SDev	.0001	.0001	.0007
%RSD	322.1	6.834	120.1

#1	.0001	.0021	.0010
#2	-.0001	.0019	.0001

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	605052	10000	--	--	--	--	--
SDev	6486.291	.0000000	--	--	--	--	--
%RSD	1.072021	.0000000	--	--	--	--	--
#1	600466	10000	--	--	--	--	--
#2	609639	10000	--	--	--	--	--

Method: DAILY1 Sample Name: 230280

Operator:

Run Time: 07/15/03 17:21:10

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.03906	.0171	.0003	.0015	.0005	.0002	-.0025
SDev	.00053	.0132	.0006	.0002	.0002	.0000	.0000
%RSD	1.3480	77.56	217.9	15.85	44.40	9.543	.9728
#1	-.03869	.0077	-.0001	.0017	.0007	.0002	-.0025
#2	-.03944	.0265	.0007	.0013	.0004	.0002	-.0025
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.124	-.0005	-.0001	-.0023	.0015	.0207	-.0012
SDev	.168	.0002	.0002	.0010	.0007	.0327	.0174
%RSD	2.068	34.37	269.8	44.37	46.00	157.7	1480.
#1	8.242	-.0006	-.0002	-.0016	.0019	.0438	.0111
#2	8.005	-.0003	.0001	-.0030	.0010	-.0024	-.0134
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0003	-.0021	.0003	.0013	1.824	1.142
SDev	.0002	.0001	.0021	.0002	.0019	.038	.130
%RSD	56.93	37.65	100.4	63.58	149.2	2.111	11.40
#1	-.0005	.0004	-.0006	.0004	.0026	1.797	1.234
#2	-.0002	.0003	-.0036	.0002	-.0001	1.851	1.050
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	.0263	-.0018	.0026	-.0031	.0036	-.0001
SDev	.0010	.0058	.0010	.0018	.0008	.0019	.0014
%RSD	121.9	22.13	55.10	69.81	27.35	52.08	1055.
#1	.0016	.0304	-.0011	.0013	-.0025	.0049	-.0011
#2	.0001	.0222	-.0026	.0039	-.0037	.0022	.0008
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	98.49	.0029	-.0023	.0174	.0011	-.0005	.0005
SDev	1.81	.0033	.0039	.0001	.0009	.0015	.0014
%RSD	1.838	112.1	171.4	.4072	77.92	285.9	250.5
#1	99.77	.0053	-.0051	.0175	.0005	-.0016	-.0004
#2	97.21	.0006	.0005	.0174	.0017	.0005	.0015
Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021	-.0027	-.0007	.0087	.0244	.0015	.0023
SDev	.0000	.0021	.0001	.0206	.0348	.0014	.0011
%RSD	1.092	76.50	9.211	236.8	143.1	92.16	47.62
#1	.0021	-.0013	-.0007	-.0059	.0490	.0024	.0031
#2	.0021	-.0042	-.0006	.0232	-.0003	.0005	.0015

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	.0003	.0007	.0021
SDev	.0003	.0001	.0006
%RSD	111.1	11.27	29.66

#1	.0006	.0008	.0025
#2	.0001	.0007	.0016

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	613386	10000	--	--	--	--	--
SDev	11280.48	.0000000	--	--	--	--	--
%RSD	1.839051	.0000000	--	--	--	--	--
#1	621362	10000	--	--	--	--	--
#2	605409	10000	--	--	--	--	--

Analysis Report

07/15/03 05:32:03 PM

page 1

Method: DAILY1 Sample Name: 230281
 Run Time: 07/15/03 17:26:42
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.03753	.0174	-.0030	.0025	.0017	-.0000	.0014
SDev	.00043	.0004	.0003	.0000	.0001	.0000	.0017
%RSD	1.1471	2.179	9.009	1.445	5.391	115.3	118.3
#1	-.03784	.0172	-.0032	.0025	.0018	-.0001	.0002
#2	-.03723	.0177	-.0028	.0026	.0016	-.0000	.0026
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.360	-.0003	-.0000	-.0028	.0015	.0082	.0181
SDev	.004	.0000	.0003	.0002	.0002	.0041	.0019
%RSD	.1780	15.66	2730.	8.020	16.06	49.49	10.56
#1	2.363	-.0003	.0002	-.0030	.0013	.0111	.0167
#2	2.357	-.0003	-.0002	-.0026	.0016	.0053	.0194
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0003	.0020	.0001	.0012	3.333	2.346
SDev	.0000	.0000	.0010	.0000	.0000	.030	.087
%RSD	5.411	1.900	49.54	28.74	.4153	.9070	3.706
#1	.0004	.0003	.0013	.0001	.0012	3.355	2.408
#2	.0004	.0003	.0027	.0001	.0012	3.312	2.285
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0186	-.0001	.0014	.0012	-.0030	.0008
SDev	.0002	.0101	.0005	.0006	.0000	.0047	.0009
%RSD	33.21	54.28	629.4	44.41	3.500	160.1	104.4
#1	.0007	.0258	-.0004	.0009	.0012	.0004	.0002
#2	.0004	.0115	.0003	.0018	.0012	-.0063	.0015
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	95.44	.0022	-.0011	.0414	.0009	.0000	.0021
SDev	.97	.0028	.0051	.0001	.0006	.0024	.0029
%RSD	1.016	127.5	471.2	.2501	63.93	9139.	135.8
#1	96.12	.0002	.0025	.0414	.0005	.0018	.0041
#2	94.75	.0042	-.0047	.0415	.0013	-.0017	.0001
Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014	-.0016	-.0005	.0058	.0273	.0008	-.0029
SDev	.0000	.0027	.0002	.0047	.0025	.0002	.0040
%RSD	.7454	170.7	39.26	80.51	9.313	18.39	135.6
#1	.0014	.0003	-.0003	.0025	.0255	.0007	-.0058
#2	.0013	-.0035	-.0006	.0091	.0290	.0010	-.0001

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	.0002	.0022	.0008
SDev	.0001	.0001	.0002
%RSD	57.98	4.055	25.39

#1	.0001	.0022	.0010
#2	.0002	.0021	.0007

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	594393	10000	--	--	--	--	--
SDev	6041.520	.0000000	--	--	--	--	--
%RSD	1.016418	.0000000	--	--	--	--	--
#1	598665	10000	--	--	--	--	--
#2	590121	10000	--	--	--	--	--

Method: DAILY1 Sample Name: 230282

Operator:

Run Time: 07/15/03 17:32:13

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.03919	.0227	-.0015	.0019	.0004	-.0001	-.0015
SDev	.00035	.0037	.0014	.0003	.0000	.0000	.0067
%RSD	.88508	16.44	97.65	17.92	5.597	26.54	449.1

#1	-.03894	.0253	-.0025	.0021	.0004	-.0001	-.0062
#2	-.03943	.0201	-.0005	.0017	.0003	-.0001	.0032

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.788	-.0002	.0000	-.0038	.0093	-.0098	.0097
SDev	.005	.0001	.0004	.0000	.0007	.0102	.0166
%RSD	.1374	55.17	2665.	1.273	7.693	104.1	170.8

#1	3.791	-.0002	-.0003	-.0038	.0098	-.0169	.0215
#2	3.784	-.0003	.0003	-.0037	.0088	-.0026	-.0020

Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0003	.0002	.0000	.0001	3.329	2.237
SDev	.0001	.0001	.0015	.0000	.0002	.001	.014
%RSD	230.7	27.75	732.3	162.8	135.7	.0312	.6173

#1	.0001	.0004	.0013	-.0000	.0003	3.330	2.247
#2	-.0000	.0003	-.0009	.0000	.0000	3.329	2.228

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0238	.0007	.0015	-.0000	-.0026	-.0003
SDev	.0004	.0125	.0022	.0021	.0010	.0048	.0015
%RSD	419.9	52.39	320.4	137.6	6912.	187.6	502.1

#1	-.0002	.0326	.0023	.0029	-.0007	-.0060	-.0014
#2	.0004	.0150	-.0009	.0000	.0007	.0008	.0008

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	94.72	.0024	.0040	.0464	.0012	.0035	-.0000
SDev	.60	.0001	.0011	.0036	.0021	.0007	.0029
%RSD	.6295	2.906	28.69	7.855	172.3	21.19	6467.

#1	94.29	.0025	.0032	.0438	.0027	.0030	-.0021
#2	95.14	.0024	.0048	.0490	-.0003	.0040	.0020

Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	-.0028	-.0004	.0070	.0243	-.0000	-.0021
SDev	.0000	.0027	.0002	.0014	.0091	.0005	.0032
%RSD	.1656	93.78	34.53	20.30	37.38	1062.	156.1

#1	.0017	-.0010	-.0005	.0080	.0307	-.0004	.0002
#2	.0017	-.0047	-.0003	.0060	.0179	.0003	-.0043

Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avg	.0000	.0013	-.0002				
SDev	.0001	.0002	.0001				
%RSD	3199.	17.74	81.53				
#1	-.0001	.0011	-.0003				
#2	.0001	.0014	-.0001				
IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	589913	10000	--	--	--	--	--
SDev	3751.909	.0000000	--	--	--	--	--
%RSD	.6360105	.0000000	--	--	--	--	--
#1	587260	10000	--	--	--	--	--
#2	592566	10000	--	--	--	--	--

Analysis Report

07/15/03 05:43:05 PM

page 1

Method: DAILY1 Sample Name: 230283

Operator:

Run Time: 07/15/03 17:37:44

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03998	.0202	.0035	.0025	.0024	.0000	.0021
SDev	.00002	.0077	.0018	.0004	.0001	.0000	.0009
%RSD	.05379	38.11	52.36	14.96	2.085	95.79	41.06

#1	.04000	.0148	.0022	.0027	.0024	.0000	.0015
#2	.03997	.0257	.0048	.0022	.0025	.0000	.0027

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8514	.0002	.0000	.0036	.0014	.0008	.0040
SDev	.0059	.0001	.0004	.0003	.0001	.0001	.0024
%RSD	.6883	44.54	1620.	7.652	3.944	15.56	60.11

#1	.8473	.0001	.0002	.0034	.0013	.0007	.0023
#2	.8555	.0002	.0003	.0038	.0014	.0009	.0057

Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0002	.0017	.0001	.0006	6.241	4.351
SDev	.0000	.0000	.0005	.0000	.0000	.012	.010
%RSD	2.609	12.69	27.65	20.06	.3772	.1894	.2255

#1	.0003	.0003	.0020	.0001	.0006	6.233	4.344
#2	.0003	.0002	.0014	.0001	.0006	6.249	4.358

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0095	.0012	.0016	.0001	.0004	.0001
SDev	.0011	.0089	.0010	.0015	.0010	.0006	.0002
%RSD	7528.	94.31	82.53	92.17	757.3	160.3	246.4

#1	.0008	.0032	.0005	.0006	.0009	.0008	.0000
#2	.0008	.0158	.0019	.0027	.0006	.0001	.0002

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	97.46	.0020	.0012	.0352	.0015	.0001	.0001
SDev	1.57	.0027	.0003	.0028	.0013	.0007	.0030
%RSD	1.615	137.1	26.89	8.043	89.62	462.8	2398.

#1	98.57	.0039	.0015	.0332	.0005	.0003	.0020
#2	96.34	.0001	.0010	.0373	.0024	.0006	.0022

Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0012	.0003	.0157	.0363	.0005	.0001
SDev	.0000	.0013	.0001	.0091	.0229	.0003	.0011
%RSD	2.444	112.5	41.43	57.99	63.02	57.24	755.9

#1	.0010	.0002	.0002	.0222	.0201	.0003	.0009
#2	.0010	.0021	.0004	.0093	.0525	.0007	.0006

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	.0001	.0028	.0010
SDev	.0000	.0001	.0015
%RSD	16.28	2.173	149.6

#1	.0001	.0028	-.0001
#2	.0001	.0027	.0020

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	606955	10000	--	--	--	--	--
SDev	9755.245	.0000000	--	--	--	--	--
%RSD	1.607244	.0000000	--	--	--	--	--
#1	613853	10000	--	--	--	--	--
#2	600057	10000	--	--	--	--	--

Method: DAILY1 Sample Name: 230284

Operator:

Run Time: 07/15/03 17:43:15

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.03991	.0107	-.0029	.0022	.0005	-.0001	.0013
SDev	.00043	.0036	.0017	.0003	.0000	.0000	.0002
%RSD	1.0803	34.02	59.78	16.25	.0201	13.51	14.72
#1	-.03960	.0081	-.0016	.0024	.0005	-.0001	.0011
#2	-.04021	.0133	-.0041	.0019	.0005	-.0001	.0014
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9072	-.0004	-.0004	-.0037	.0011	-.0059	.0165
SDev	.0016	.0001	.0003	.0005	.0003	.0051	.0132
%RSD	.1811	18.41	61.45	14.78	23.83	85.30	79.63
#1	.9060	-.0004	-.0003	-.0040	.0009	-.0024	.0072
#2	.9084	-.0005	-.0006	-.0033	.0012	-.0095	.0258
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0003	.0010	.0001	.0004	6.306	4.507
SDev	.0004	.0000	.0005	.0001	.0003	.018	.024
%RSD	139.2	12.63	49.16	153.8	74.74	.2830	.5302
#1	.0006	.0003	.0006	.0001	.0002	6.293	4.490
#2	.0000	.0004	.0013	-.0000	.0007	6.318	4.524
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0117	-.0007	.0021	-.0015	.0005	.0003
SDev	.0001	.0018	.0013	.0003	.0005	.0017	.0015
%RSD	9.702	15.38	194.1	12.12	31.35	334.7	440.6
#1	.0005	.0104	-.0016	.0019	-.0012	-.0007	-.0007
#2	.0006	.0130	.0003	.0023	-.0018	.0017	.0014
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	96.88	.0018	-.0012	.0368	.0012	-.0002	.0025
SDev	.51	.0029	.0012	.0000	.0006	.0018	.0019
%RSD	.5274	158.2	99.96	.0421	52.27	934.1	77.14
#1	97.25	.0039	-.0004	.0368	.0007	.0011	.0011
#2	96.52	-.0002	-.0021	.0368	.0016	-.0014	.0038
Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	-.0023	-.0006	.0040	.0297	-.0000	-.0040
SDev	.0000	.0022	.0003	.0039	.0017	.0002	.0004
%RSD	.2360	96.21	52.31	99.12	5.569	881.8	10.04
#1	.0010	-.0007	-.0004	.0012	.0286	-.0001	-.0038
#2	.0010	-.0039	-.0008	.0067	.0309	.0001	-.0043

Elem	Y_3710	Zn2062	Zn3496
Units	ppm	ppm	ppm
Avg	.0001	.0015	.0001
SDev	.0000	.0006	.0003
%RSD	21.63	36.55	274.2

#1	.0001	.0019	.0003
#2	.0000	.0011	-.0001

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	603354	10000	--	--	--	--	--
SDev	3160.060	.0000000	--	--	--	--	--
%RSD	.5237485	.0000000	--	--	--	--	--
#1	605589	10000	--	--	--	--	--
#2	601120	10000	--	--	--	--	--

Method: DAILY1 Sample Name: ccv3
 Run Time: 07/15/03 17:54:02
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0073	9.833	4.887	4.817	10.52	1.084	4.974
SDev	.0012	.014	.003	.032	.08	.002	.005
%RSD	.11995	.1459	.0623	.6580	.7278	.1474	.1043
#1	1.0065	9.843	4.885	4.794	10.57	1.083	4.978
#2	1.0082	9.823	4.889	4.839	10.46	1.086	4.971
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	11.00	5.500	5.500	11.00	1.100	5.500
Low	.90000	9.000	4.500	4.500	9.000	.9000	4.500
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.02	.9907	4.931	1.962	2.141	10.11	18.17
SDev	.07	.0005	.011	.006	.005	.03	.11
%RSD	.3499	.0505	.2175	.3160	.2185	.3231	.6314
#1	19.97	.9911	4.924	1.958	2.144	10.08	18.25
#2	20.07	.9904	4.939	1.966	2.137	10.13	18.09
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	22.00	1.100	5.500	2.200	2.200	11.00	22.00
Low	18.00	.9000	4.500	1.800	1.800	9.000	18.00
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.198	4.738	19.79	1.032	5.018	H41.80	L26.70
SDev	.022	.026	.05	.004	.037	.18	.16
%RSD	.4305	.5463	.2329	.3693	.7459	.4204	.6073
#1	5.214	4.757	19.75	1.029	4.992	H41.92	L26.82
#2	5.182	4.720	19.82	1.034	5.045	H41.68	L26.59
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Low
High	5.500	5.500	22.00	1.100	5.500	33.00	33.00
Low	4.500	4.500	18.00	.9000	4.500	27.00	27.00
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.841	5.041	4.891	4.935	1.071	.9333	.9969
SDev	.004	.000	.021	.074	.001	.0218	.0046
%RSD	.0782	.0069	.4382	1.500	.0928	2.337	.4640
#1	4.843	5.041	4.876	4.883	1.072	.9487	.9937
#2	4.838	5.041	4.906	4.987	1.070	.9179	1.000
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	5.500	5.500			1.100	1.100	1.100
Low	4.500	4.500			.9000	.9000	.9000
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899

Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	97.32	5.104	5.142	4.976	4.915	5.124	4.813
SDev	.80	.006	.088	.001	.056	.061	.018
%RSD	.8184	.1209	1.709	.0155	1.148	1.182	.3681
#1	97.89	5.100	5.080	4.976	4.875	5.081	4.801
#2	96.76	5.109	5.204	4.977	4.955	5.167	4.826
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High				5.500	5.500	5.500	5.500
Low				4.500	4.500	4.500	4.500
Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.349	1.027	4.960	5.201	1.035	5.037	1.040
SDev	.021	.002	.004	.031	.003	.006	.001
%RSD	.3861	.1769	.0820	.5982	.2531	.1269	.1232
#1	5.363	1.026	4.963	5.179	1.033	5.033	1.041
#2	5.334	1.029	4.957	5.223	1.037	5.042	1.039
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	1.100	5.500	5.500	1.100	5.500	1.100
Low	4.500	.9000	4.500	4.500	.9000	4.500	.9000
Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avg	5.194	.9887	5.070				
SDev	.009	.0052	.005				
%RSD	.1712	.5236	.0973				
#1	5.200	.9851	5.074				
#2	5.188	.9924	5.067				
Errors	LC Pass	LC Pass	LC Pass				
High	5.500	1.100	5.500				
Low	4.500	.9000	4.500				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	606098	10000	--	--	--	--	--
SDev	4985.810	.00000000	--	--	--	--	--
%RSD	.8226085	.00000000	--	--	--	--	--
#1	609623	10000	--	--	--	--	--
#2	602572	10000	--	--	--	--	--

Method: DAILY1 Sample Name: ccb3

Operator:

Run Time: 07/15/03 18:02:15

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.04076	-.0086	-.0018	.0065	.0000	.0001	.0005
SDev	.00021	.0075	.0000	.0013	.0000	.0002	.0053
%RSD	.51799	87.62	1.318	19.76	223.6	227.5	990.2

#1	L-.04091	-.0139	-.0019	.0074	-.0000	-.0001	-.0032
#2	L-.04061	-.0033	-.0018	.0056	.0000	.0003	.0043

Errors	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.0500	.0050	.0500	.0050	.0050	.0050
Low	-.00500	-.0500	-.0050	-.0500	-.0050	-.0050	-.0050

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	-.0002	-.0002	-.0039	-.0009	-.0099	-.0103
SDev	.0008	.0002	.0003	.0005	.0012	.0028	.0081
%RSD	129.6	68.36	162.8	13.38	127.9	27.80	78.35

#1	.0001	-.0004	-.0003	-.0043	-.0018	-.0119	-.0160
#2	.0012	-.0001	.0000	-.0036	-.0001	-.0080	-.0046

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0500	.0050	.0050	.0050	.0050	.0250	.1000
Low	-.0500	-.0050	-.0050	-.0050	-.0050	-.0250	-.1000

Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0003	-.0033	-.0000	.0042	-.0043	L-.1289
SDev	.0000	.0000	.0048	.0000	.0008	.0002	.0671
%RSD	8.029	.3086	145.7	88.22	19.34	3.738	52.08

#1	-.0003	.0003	-.0066	-.0000	.0047	-.0042	L-.0814
#2	-.0003	.0003	.0001	-.0000	.0036	-.0044	L-.1763

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	.0050	.0050	.0500	.0050	.0050	.0500	.0500
Low	-.0050	-.0050	-.0500	-.0050	-.0050	-.0500	-.0500

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0074	-.0013	.0016	-.0017	-.0038	.0009
SDev	.0002	.0006	.0051	.0012	.0019	.0002	.0009
%RSD	87.84	8.592	377.1	72.90	116.1	4.662	95.95

#1	-.0004	.0079	.0022	.0008	-.0003	-.0037	.0003
#2	-.0001	.0070	-.0049	.0025	-.0031	-.0039	.0016

Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	.0050	.0100			.0050	.0100	.0100
Low	-.0050	-.0100			-.0050	-.0100	-.0100

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
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Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	101.2	.0036	.0035	-.0062	.0006	.0035	.0001
SDev	.8	.0050	.0030	.0001	.0009	.0037	.0008
%RSD	.7639	138.9	86.42	2.018	142.4	103.9	618.4
#1	101.8	.0071	.0056	-.0063	.0013	H.0061	.0007
#2	100.7	.0001	.0014	-.0061	-.0000	.0009	-.0004
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High				.0100	.0030	.0050	.0050
Low				-.0100	-.0030	-.0050	-.0050
Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0025	-.0005	H.0163	.0340	.0002	-.0009
SDev	.0000	.0000	.0000	.0070	.0292	.0003	.0023
%RSD	77.38	1.087	2.110	43.10	85.97	178.5	247.0
#1	.0000	-.0025	-.0005	H.0212	.0133	-.0000	.0007
#2	.0000	-.0026	-.0005	H.0113	.0546	.0004	-.0026
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	.0050	.0100	.0050	.0100	.1000	.0050	.0100
Low	-.0050	-.0100	-.0050	-.0100	-.1000	-.0050	-.0100
Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avg	-.0001	-.0005	-.0001				
SDev	.0001	.0003	.0003				
%RSD	141.5	58.61	256.1				
#1	-.0001	-.0003	-.0004				
#2	.0000	-.0008	.0001				
Errors	LC Pass	LC Pass	LC Pass				
High	.0050	.0050	.0050				
Low	-.0050	-.0050	-.0050				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	630420	10000	--	--	--	--	--
SDev	4804.791	.0000000	--	--	--	--	--
%RSD	.7621577	.0000000	--	--	--	--	--
#1	633817	10000	--	--	--	--	--
#2	627022	10000	--	--	--	--	--

Method: DAILY1 Sample Name: pbw-G15W4 pg54-105 Operator:
 Run Time: 07/15/03 18:07:50
 Comment:
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.04028	.0226	-.0024	.0041	.0000	.0000	-.0006
SDev	.00138	.0081	.0013	.0011	.0001	.0001	.0043
%RSD	3.4188	35.72	54.44	27.98	295.3	2625.	739.8
#1	L-.03931	.0283	-.0033	.0049	.0001	.0001	.0024
#2	L-.04125	.0169	-.0015	.0033	-.0000	-.0001	-.0036
Errors	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.0500	.0050	.0500	.0050	.0050	.0050
Low	-.00500	-.0500	-.0050	-.0500	-.0050	-.0050	-.0050
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	H.0584	-.0002	-.0002	-.0039	.0001	-.0033	-.0001
SDev	.0003	.0001	.0000	.0002	.0003	.0062	.0068
%RSD	.5415	61.13	15.21	4.139	330.3	186.4	7107.
#1	H.0586	-.0001	-.0002	-.0038	.0003	.0011	.0047
#2	H.0582	-.0002	-.0003	-.0040	-.0001	-.0077	-.0049
Errors	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0500	.0050	.0050	.0050	.0050	.0250	.1000
Low	-.0500	-.0050	-.0050	-.0050	-.0050	-.0250	-.1000
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0004	.0014	.0002	.0017	-.0087	L-.1093
SDev	.0014	.0001	.0050	.0000	.0002	.0024	.0201
%RSD	342.0	11.50	359.7	10.99	11.45	27.73	18.42
#1	.0014	.0004	.0049	.0003	.0015	-.0104	L-.1236
#2	-.0006	.0004	-.0021	.0002	.0018	-.0070	L-.0951
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	.0050	.0050	.0500	.0050	.0050	.0500	.0500
Low	-.0050	-.0050	-.0500	-.0050	-.0050	-.0500	-.0500
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	H.0219	-.0010	.0019	-.0010	.0043	-.0003
SDev	.0000	.0114	.0007	.0007	.0016	.0151	.0002
%RSD	9.157	51.81	77.54	35.94	163.3	349.8	59.03
#1	.0005	H.0139	-.0015	.0014	.0002	-.0064	-.0004
#2	.0004	H.0299	-.0004	.0024	-.0022	H.0150	-.0002
Errors	LC Pass	LC High	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	.0050	.0100			.0050	.0100	.0100
Low	-.0050	-.0100			-.0050	-.0100	-.0100
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899

Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	96.81	.0008	.0016	.0008	.0009	.0014	.0021
SDev	.91	.0059	.0070	.0031	.0007	.0027	.0003
%RSD	.9410	749.9	434.5	393.5	74.06	198.8	12.98
#1	96.17	-.0034	.0066	.0030	.0005	.0032	.0019
#2	97.45	.0050	-.0033	-.0014	.0014	-.0005	.0023
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High				.0100	.0030	.0050	.0050
Low				-.0100	-.0030	-.0050	-.0050
Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0002	-.0002	.0005	.0407	.0001	-.0015
SDev	.0001	.0020	.0002	.0089	.0223	.0000	.0042
%RSD	14.40	1166.	63.25	1648.	54.87	6.825	277.7
#1	.0004	.0016	-.0003	-.0058	.0565	.0001	-.0044
#2	.0003	-.0012	-.0001	.0069	.0249	.0001	.0014
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0100	.0050	.0100	.1000	.0050	.0100
Low	-.0050	-.0100	-.0050	-.0100	-.1000	-.0050	-.0100
Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avg	-.0000	.0015	.0002				
SDev	.0001	.0008	.0003				
%RSD	7159.	50.47	224.4				
#1	.0001	.0010	.0004				
#2	-.0001	.0021	-.0001				
Errors	LC Pass	LC Pass	LC Pass				
High	.0050	.0050	.0050				
Low	-.0050	-.0050	-.0050				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	602881	10000	--	--	--	--	--
SDev	5651.197	.0000000	--	--	--	--	--
%RSD	.9373653	.0000000	--	--	--	--	--
#1	598885	10000	--	--	--	--	--
#2	606877	10000	--	--	--	--	--

Method: DAILY1 Sample Name: lcsW-G15W4 Operator:
 Run Time: 07/15/03 18:13:19
 Comment:
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.06609	3.812	4.059	.0096	4.253	.1124	-.0001
SDev	.00223	.048	.022	.0021	.029	.0022	.0027
%RSD	3.3772	1.265	.5458	21.54	.6749	1.932	1902.

#1	.06451	3.778	4.075	.0110	4.233	.1139	-.0020
#2	.06767	3.847	4.044	.0081	4.274	.1109	.0018

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.92	.1027	1.013	.4030	.5346	2.098	16.52
SDev	.27	.0023	.015	.0077	.0049	.107	.36
%RSD	1.278	2.284	1.469	1.902	.9213	5.095	2.158

#1	21.11	.1043	1.024	.4084	.5311	2.174	16.27
#2	20.73	.1010	1.003	.3976	.5381	2.023	16.77

Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0006	20.54	1.044	4.228	26.06	17.02
SDev	.0003	.0001	.18	.012	.027	.48	.54
%RSD	96.63	21.63	.8633	1.136	.6433	1.840	3.160

#1	.0001	.0007	20.67	1.052	4.247	25.72	16.64
#2	.0004	.0005	20.41	1.036	4.209	26.39	17.40

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.009	.0053	.9731	1.044	.0008	-.0083	1.005
SDev	.020	.0043	.0358	.036	.0001	.0049	.005
%RSD	2.003	80.27	3.678	3.421	10.80	59.41	.4583

#1	1.023	.0084	.9478	1.069	.0008	-.0048	1.008
#2	.9947	.0023	.9984	1.019	.0007	-.0118	1.002

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	93.40	4.011	4.168	.0031	1.019	4.111	.0014
SDev	1.53	.086	.045	.0104	.012	.001	.0022
%RSD	1.634	2.156	1.075	339.2	1.164	.0253	155.2

#1	94.48	3.950	4.199	-.0043	1.028	4.112	.0030
#2	92.32	4.072	4.136	.0105	1.011	4.111	-.0001

Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0075	-.0002	4.263	.0226	1.029	4.521
SDev	.0000	.0219	.0002	.002	.0213	.009	.062
%RSD	4.705	293.0	85.41	.0535	94.18	.8833	1.376

#1	.0004	.0229	-.0001	4.264	.0376	1.035	4.565
#2	.0005	-.0080	-.0003	4.261	.0075	1.022	4.477

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	.0004	1.030	.0036
SDev	.0008	.036	.0039
%RSD	183.7	3.452	109.7

#1	.0010	1.055	.0064
#2	-.0001	1.005	.0008

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	581714	10000	--	--	--	--	--
SDev	9448.360	.0000000	--	--	--	--	--
%RSD	1.624228	.0000000	--	--	--	--	--
#1	588395	10000	--	--	--	--	--
#2	575033	10000	--	--	--	--	--

Method: DAILY1 Sample Name: 229950-1r Operator:
 Run Time: 07/15/03 18:18:51
 Comment:
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03982	.0325	.0035	.0044	.0023	.0001	.0000
SDev	.00111	.0000	.0023	.0003	.0015	.0001	.0006
%RSD	2.7838	.1046	67.55	5.886	64.06	111.1	3176.
#1	.04061	.0324	.0018	.0046	.0033	.0000	.0004
#2	.03904	.0325	.0051	.0042	.0012	.0002	.0004
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0791	.0002	.0007	.0030	.0016	.0045	9.036
SDev	.0058	.0002	.0006	.0001	.0001	.0005	.001
%RSD	7.376	90.98	85.26	2.503	9.313	10.15	.0070
#1	.0833	.0003	.0012	.0029	.0015	.0048	9.035
#2	.0750	.0001	.0003	.0030	.0017	.0042	9.036
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0005	.0256	.0008	.0102	.0291	.1880
SDev	.0002	.0000	.0001	.0004	.0040	.0063	.0243
%RSD	86.62	1.809	.3390	49.25	39.32	21.81	12.94
#1	.0001	.0005	.0255	.0011	.0131	.0336	.1708
#2	.0003	.0005	.0256	.0005	.0074	.0246	.2052
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	.0103	.0021	.0032	.0001	.0348	.0007
SDev	.0007	.0036	.0045	.0041	.0006	.0009	.0013
%RSD	38.92	34.77	210.5	125.3	813.6	2.537	189.7
#1	.0022	.0128	.0010	.0061	.0003	.0342	.0016
#2	.0012	.0078	.0053	.0004	.0005	.0355	.0002
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	95.42	.0104	.0048	.0779	.0029	.0067	.0028
SDev	.35	.0103	.0045	.0000	.0012	.0004	.0031
%RSD	.3713	99.11	93.14	.0517	42.63	6.712	108.7
#1	95.67	.0031	.0080	.0779	.0037	.0064	.0050
#2	95.17	.0177	.0016	.0778	.0020	.0070	.0006
Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0008	.0001	.0042	.0346	.0006	.0034
SDev	.0000	.0003	.0003	.0137	.0040	.0000	.0008
%RSD	2.437	40.44	255.9	329.6	11.70	5.769	23.95
#1	.0004	.0011	.0003	.0139	.0317	.0006	.0040
#2	.0004	.0006	.0001	.0055	.0374	.0006	.0028

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	.0000	.0063	.0002
SDev	.0001	.0003	.0001
%RSD	150.7	5.092	49.01

#1	-.0000	.0065	.0002
#2	.0001	.0060	.0003

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	594288	10000	--	--	--	--	--
SDev	2189.910	.0000000	--	--	--	--	--
%RSD	.3684927	.0000000	--	--	--	--	--

#1	595837	10000	--	--	--	--	--
#2	592740	10000	--	--	--	--	--

Method: DAILY1 Sample Name: 229951-2r Operator:
 Run Time: 07/15/03 18:24:21
 Comment:
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.04049	.0285	-.0034	.0770	.0003	-.0002	-.0016
SDev	.00030	.0022	.0021	.0002	.0000	.0001	.0013
%RSD	.73776	7.768	61.82	.2112	14.16	55.81	80.94

#1	-.04070	.0301	-.0019	.0769	.0003	-.0002	-.0007
#2	-.04028	.0269	-.0049	.0772	.0003	-.0001	-.0025

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0775	-.0002	.0039	-.0037	.0011	-.0023	468.5
SDev	.0005	.0001	.0001	.0002	.0006	.0086	1.4
%RSD	.6040	48.92	1.656	5.036	47.86	374.2	.2900

#1	.0772	-.0003	.0039	-.0038	.0008	-.0084	467.5
#2	.0779	-.0002	.0039	-.0035	.0015	.0038	469.4

Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	.0019	-.0012	.0003	.0042	.3792	-.0803
SDev	.0002	.0001	.0020	.0001	.0011	.0033	.0236
%RSD	24.05	4.462	159.2	20.36	25.71	.8704	29.44

#1	.0010	.0019	.0002	.0002	.0050	.3769	-.0970
#2	.0007	.0020	-.0027	.0003	.0035	.3815	-.0636

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0074	.0107	-.0010	.0029	-.0008	.0028	-.0016
SDev	.0004	.0023	.0050	.0008	.0016	.0076	.0004
%RSD	4.970	21.74	482.5	26.97	209.7	273.9	22.71

#1	.0072	.0123	-.0046	.0035	-.0019	-.0026	-.0019
#2	.0077	.0091	.0025	.0024	.0004	.0082	-.0013

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	96.24	.0007	-.0002	2.326	.0016	.0002	.0007
SDev	.35	.0038	.0041	.005	.0011	.0015	.0002
%RSD	.3607	506.0	2649.	.2296	71.86	901.5	23.71

#1	95.99	.0034	-.0030	2.323	.0008	-.0009	.0008
#2	96.48	-.0019	.0027	2.330	.0024	.0012	.0006

Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	-.0041	-.0005	.0235	.0347	.0000	.0001
SDev	.0000	.0003	.0003	.0055	.0024	.0004	.0007
%RSD	.3764	6.702	63.24	23.31	6.877	5855.	809.2

#1	.0004	-.0043	-.0007	.0196	.0364	-.0003	-.0004
#2	.0004	-.0039	-.0003	.0274	.0330	.0003	.0006

Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avg	-.0000	.0087	.0003				
SDev	.0000	.0006	.0001				
%RSD	1535.	7.468	46.14				
#1	-.0000	.0082	.0002				
#2	.0000	.0092	.0004				
IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	599355	10000	--	--	--	--	--
SDev	2115.664	.0000000	--	--	--	--	--
%RSD	.3529900	.0000000	--	--	--	--	--
#1	597859	10000	--	--	--	--	--
#2	600851	10000	--	--	--	--	--

Analysis Report

07/15/03 06:35:13 PM

page 1

Method: DAILY1 Sample Name: 229953-2r

Operator:

Run Time: 07/15/03 18:29:52

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.03967	.0087	-.0032	.0671	.0005	-.0000	.0028
SDev	.00049	.0112	.0004	.0003	.0001	.0000	.0033
%RSD	1.2466	129.1	13.99	.4408	17.78	633.2	116.7

#1	-.03932	.0008	-.0035	.0673	.0005	.0000	.0051
#2	-.04002	.0166	-.0028	.0669	.0004	-.0000	.0005

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1869	-.0002	.0051	-.0040	.0009	-.0100	617.2
SDev	.0008	.0001	.0004	.0003	.0004	.0000	1.3
%RSD	.4085	48.31	8.639	6.725	43.33	.2160	.2070

#1	.1874	-.0002	.0048	-.0038	.0012	-.0100	616.3
#2	.1863	-.0003	.0055	-.0042	.0006	-.0100	618.1

Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	.0025	.0047	.0003	.0018	.2488	-.1627
SDev	.0010	.0002	.0015	.0000	.0008	.0035	.1183
%RSD	87.34	6.470	31.63	7.014	42.81	1.424	72.76

#1	.0019	.0024	.0058	.0003	.0024	.2513	-.0790
#2	.0004	.0026	.0037	.0003	.0013	.2463	-.2463

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064	.0013	-.0031	.0041	-.0019	.0039	-.0013
SDev	.0001	.0089	.0009	.0003	.0010	.0095	.0014
%RSD	2.096	667.9	30.49	7.348	53.00	242.6	106.4

#1	.0065	-.0050	-.0024	.0039	-.0026	-.0028	-.0003
#2	.0063	.0077	-.0037	.0043	-.0012	.0107	-.0023

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	98.17	.0046	.0029	2.450	.0017	.0035	.0020
SDev	1.12	.0036	.0009	.011	.0001	.0006	.0012
%RSD	1.136	77.33	31.63	.4423	6.459	16.35	59.70

#1	98.96	.0072	.0023	2.443	.0018	.0039	.0011
#2	97.38	.0021	.0036	2.458	.0016	.0031	.0028

Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	-.0009	-.0007	.0092	.0517	-.0003	.0014
SDev	.0000	.0016	.0004	.0170	.0222	.0003	.0009
%RSD	4.333	186.9	61.80	186.2	43.00	104.6	69.72

#1	.0006	-.0020	-.0004	.0212	.0675	-.0001	.0020
#2	.0006	.0003	-.0010	-.0029	.0360	-.0005	.0007

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	-.0001	.0130	.0001
SDev	.0001	.0004	.0006
%RSD	76.58	3.122	413.2

#1	-.0001	.0133	.0006
#2	-.0002	.0127	-.0003

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	611316	10000	--	--	--	--	--
SDev	6926.111	.0000000	--	--	--	--	--
%RSD	1.132985	.0000000	--	--	--	--	--
#1	616213	10000	--	--	--	--	--
#2	606418	10000	--	--	--	--	--

Method: DAILY1 Sample Name: ccv4
 Run Time: 07/15/03 18:40:40
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.99906	9.663	5.008	4.897	10.37	H1.103	5.011
SDev	.00507	.074	.044	.026	.02	.000	.002
%RSD	.50788	.7627	.8710	.5238	.1466	.0439	.0361
#1	1.0026	9.715	5.038	4.879	10.38	H1.103	5.013
#2	.99547	9.611	4.977	4.915	10.36	H1.104	5.010
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass
High	1.1000	11.00	5.500	5.500	11.00	1.100	5.500
Low	.90000	9.000	4.500	4.500	9.000	.9000	4.500
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.51	1.031	5.054	1.997	2.114	10.34	L17.60
SDev	.20	.004	.030	.016	.006	.08	.10
%RSD	.9828	.3856	.5978	.8174	.2608	.7336	.5433
#1	20.65	1.034	5.075	2.008	2.118	10.39	L17.66
#2	20.36	1.028	5.032	1.985	2.111	10.29	L17.53
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	22.00	1.100	5.500	2.200	2.200	11.00	22.00
Low	18.00	.9000	4.500	1.800	1.800	9.000	18.00
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.144	4.604	20.07	1.050	5.129	H40.56	L26.11
SDev	.011	.030	.12	.007	.014	.30	.14
%RSD	.2119	.6568	.5775	.6766	.2788	.7505	.5335
#1	5.151	4.625	20.15	1.055	5.118	H40.78	L26.21
#2	5.136	4.583	19.99	1.045	5.139	H40.34	L26.01
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Low
High	5.500	5.500	22.00	1.100	5.500	33.00	33.00
Low	4.500	4.500	18.00	.9000	4.500	27.00	27.00
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.990	5.155	5.078	5.133	1.062	1.070	.9998
SDev	.014	.094	.010	.008	.003	.004	.0027
%RSD	.2899	1.833	.1878	.1495	.2374	.3968	.2684
#1	5.001	5.088	5.072	5.138	1.060	1.067	1.002
#2	4.980	5.222	5.085	5.128	1.064	1.073	.9979
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	5.500	5.500			1.100	1.100	1.100
Low	4.500	4.500			.9000	.9000	.9000
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899

Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	99.89	5.205	5.243	5.004	5.110	5.225	4.978
SDev	.41	.016	.043	.015	.002	.034	.013
%RSD	.4087	.3067	.8119	.3028	.0379	.6444	.2513
#1	99.61	5.193	5.213	5.015	5.111	5.201	4.986
#2	100.2	5.216	5.273	4.994	5.108	5.249	4.969
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High				5.500	5.500	5.500	5.500
Low				4.500	4.500	4.500	4.500
Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.312	1.022	4.956	5.247	1.063	5.083	1.068
SDev	.015	.017	.018	.033	.005	.030	.007
%RSD	.2910	1.708	.3634	.6297	.4498	.5862	.6971
#1	5.323	1.035	4.968	5.224	1.060	5.104	1.073
#2	5.301	1.010	4.943	5.271	1.067	5.062	1.063
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	1.100	5.500	5.500	1.100	5.500	1.100
Low	4.500	.9000	4.500	4.500	.9000	4.500	.9000
Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avg	5.191	1.043	5.059				
SDev	.009	.006	.006				
%RSD	.1798	.5781	.1097				
#1	5.198	1.047	5.063				
#2	5.185	1.038	5.055				
Errors	LC Pass	LC Pass	LC Pass				
High	5.500	1.100	5.500				
Low	4.500	.9000	4.500				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	622118	10000	--	--	--	--	--
SDev	2549.120	.00000000	--	--	--	--	--
%RSD	.4097483	.00000000	--	--	--	--	--
#1	620316	10000	--	--	--	--	--
#2	623921	10000	--	--	--	--	--

Analysis Report

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Method: DAILY1 Sample Name: ccb4
 Run Time: 07/15/03 18:48:54
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.04107	.0026	L-.0077	.0084	.0015	.0003	.0012
SDev	.00045	.0115	.0031	.0030	.0014	.0002	.0022
%RSD	1.0843	441.6	39.77	35.95	90.82	65.16	174.8
#1	L-.04076	.0107	L-.0056	.0106	.0025	.0004	.0028
#2	L-.04139	-.0055	L-.0099	.0063	.0005	.0002	-.0003
Errors	LC Low	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.0500	.0050	.0500	.0050	.0050	.0050
Low	-.00500	-.0500	-.0050	-.0500	-.0050	-.0050	-.0050
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041	-.0000	.0005	-.0033	.0002	-.0010	.0076
SDev	.0016	.0003	.0005	.0010	.0009	.0144	.0098
%RSD	40.01	596.3	103.0	31.22	480.6	1488.	128.9
#1	.0052	.0002	.0008	-.0026	.0008	.0092	.0145
#2	.0029	-.0003	.0001	-.0041	-.0005	-.0111	.0007
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0500	.0050	.0050	.0050	.0050	.0250	.1000
Low	-.0500	-.0050	-.0050	-.0050	-.0050	-.0250	-.1000
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0008	.0045	.0002	.0043	.0080	L-.1934
SDev	.0001	.0004	.0025	.0002	.0014	.0019	.1174
%RSD	5.876	54.92	55.70	113.9	31.75	23.82	60.70
#1	.0009	.0011	.0062	.0003	H.0053	.0094	L-.1104
#2	.0010	.0005	.0027	.0000	.0034	.0067	L-.2763
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	.0050	.0050	.0500	.0050	.0050	.0500	.0500
Low	-.0050	-.0050	-.0500	-.0050	-.0050	-.0500	-.0500
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	H.0178	-.0024	.0045	.0002	L-.0157	.0018
SDev	.0014	.0003	.0007	.0016	.0001	.0010	.0004
%RSD	223.4	1.857	27.22	35.27	56.60	6.559	21.69
#1	.0017	H.0175	-.0019	.0057	.0001	L-.0165	.0016
#2	-.0004	H.0180	-.0029	.0034	.0003	L-.0150	.0021
Errors	LC Pass	LC High	NOCHECK	NOCHECK	LC Pass	LC Low	LC Pass
High	.0050	.0100			.0050	.0100	.0100
Low	-.0050	-.0100			-.0050	-.0100	-.0100
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899

Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	98.23	.0023	-.0015	-.0010	.0022	-.0002	.0017
SDev	1.53	.0035	.0070	.0002	.0013	.0035	.0015
%RSD	1.557	151.6	472.9	21.40	57.70	1762.	92.37
#1	97.14	-.0002	.0035	-.0011	H.0031	.0023	.0006
#2	99.31	.0048	-.0064	-.0008	.0013	-.0027	.0027
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High				.0100	.0030	.0050	.0050
Low				-.0100	-.0030	-.0050	-.0050
Elem	Sr4215	Th2837	Ti3372	Ti1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	-.0004	.0001	H.0181	.0042	.0011	-.0011
SDev	.0007	.0004	.0003	.0014	.0010	.0011	.0005
%RSD	88.18	115.5	469.3	7.550	24.62	97.59	45.63
#1	.0012	-.0007	.0003	H.0191	.0049	.0018	-.0007
#2	.0003	-.0001	-.0002	H.0172	.0035	.0003	-.0015
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	.0050	.0100	.0050	.0100	.1000	.0050	.0100
Low	-.0050	-.0100	-.0050	-.0100	-.1000	-.0050	-.0100
Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avg	.0008	.0000	.0012				
SDev	.0008	.0005	.0013				
%RSD	102.2	5679.	106.3				
#1	.0014	.0003	.0021				
#2	.0002	-.0003	.0003				
Errors	LC Pass	LC Pass	LC Pass				
High	.0050	.0050	.0050				
Low	-.0050	-.0050	-.0050				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	611707	10000	--	--	--	--	--
SDev	9545.941	.0000000	--	--	--	--	--
%RSD	1.560542	.0000000	--	--	--	--	--
#1	604957	10000	--	--	--	--	--
#2	618457	10000	--	--	--	--	--

Analysis Report

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Method: DAILY1 Sample Name: pbw-G15W3 pg54-104 Operator:
 Run Time: 07/15/03 18:54:31
 Comment:
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.04152	.0110	-.0003	.0040	.0001	.0001	-.0015
SDev	.00055	.0073	.0014	.0001	.0000	.0001	.0008
%RSD	1.3236	66.81	556.4	3.486	36.33	53.85	54.56
#1	L-.04191	.0058	.0007	.0041	.0001	.0001	-.0021
#2	L-.04113	.0162	-.0013	.0039	.0001	.0002	-.0009
Errors	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.0500	.0050	.0500	.0050	.0050	.0050
Low	-.00500	-.0500	-.0050	-.0500	-.0050	-.0050	-.0050
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0451	-.0001	.0004	-.0037	-.0000	-.0003	.0039
SDev	.0007	.0002	.0000	.0003	.0002	.0091	.0105
%RSD	1.596	132.7	10.66	6.971	622.8	3620.	270.1
#1	.0457	-.0002	.0004	-.0039	.0001	-.0067	-.0035
#2	.0446	-.0000	.0003	-.0035	-.0001	.0062	.0113
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0500	.0050	.0050	.0050	.0050	.0250	.1000
Low	-.0500	-.0050	-.0050	-.0050	-.0050	-.0250	-.1000
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0004	-.0021	.0002	.0014	-.0015	L-.0784
SDev	.0004	.0000	.0010	.0000	.0004	.0004	.0210
%RSD	244.0	8.261	47.41	11.70	27.28	24.03	26.74
#1	-.0004	.0005	-.0028	.0003	.0017	-.0013	L-.0932
#2	.0001	.0004	-.0014	.0002	.0011	-.0018	L-.0636
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	.0050	.0050	.0500	.0050	.0050	.0500	.0500
Low	-.0050	-.0050	-.0500	-.0050	-.0050	-.0500	-.0500
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	.0078	-.0014	.0031	-.0003	-.0066	-.0013
SDev	.0000	.0029	.0001	.0011	.0005	.0040	.0032
%RSD	5.124	36.98	8.921	37.47	175.5	60.83	248.8
#1	-.0006	.0058	-.0015	.0039	-.0007	-.0094	-.0035
#2	-.0006	.0099	-.0013	.0023	.0001	-.0038	.0010
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	.0050	.0100			.0050	.0100	.0100
Low	-.0050	-.0100			-.0050	-.0100	-.0100
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899

Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	98.39	.0020	.0026	-.0010	.0016	.0024	.0006
SDev	.75	.0018	.0019	.0002	.0007	.0007	.0040
%RSD	.7664	87.40	73.04	18.03	46.13	28.26	727.4
#1	98.93	.0033	.0013	-.0011	.0021	.0019	-.0023
#2	97.86	.0008	.0040	-.0008	.0011	.0029	.0034
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High				.0100	.0030	.0050	.0050
Low				-.0100	-.0030	-.0050	-.0050
Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0008	-.0001	H.0191	.0217	.0002	-.0013
SDev	.0000	.0005	.0002	.0086	.0254	.0008	.0013
%RSD	5.831	66.74	158.0	45.10	117.1	359.2	101.6
#1	.0003	.0011	-.0003	H.0252	.0037	.0007	-.0023
#2	.0003	.0004	.0000	H.0130	.0396	-.0003	-.0004
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	.0050	.0100	.0050	.0100	.1000	.0050	.0100
Low	-.0050	-.0100	-.0050	-.0100	-.1000	-.0050	-.0100
Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avg	.0001	.0010	.0005				
SDev	.0000	.0003	.0004				
%RSD	47.88	31.62	73.58				
#1	.0001	.0013	.0003				
#2	.0000	.0008	.0008				
Errors	LC Pass	LC Pass	LC Pass				
High	.0050	.0050	.0050				
Low	-.0050	-.0050	-.0050				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	612750	10000	--	--	--	--	--
SDev	4647.813	.0000000	--	--	--	--	--
%RSD	.7585164	.0000000	--	--	--	--	--
#1	616037	10000	--	--	--	--	--
#2	609464	10000	--	--	--	--	--

Analysis Report

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Method: DAILY1 Sample Name: lcsw-G15W3 Operator:
 Run Time: 07/15/03 19:00:02
 Comment:
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01304	1.936	2.039	.0018	2.140	.0565	.0021
SDev	.00018	.005	.004	.0004	.012	.0001	.0025
%RSD	1.3708	.2498	.2066	21.61	.5504	.1021	116.7
#1	.01317	1.933	2.036	.0021	2.131	.0565	.0039
#2	.01291	1.940	2.042	.0015	2.148	.0564	.0004
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	21.39	.0521	.5161	.2019	.2686	1.037	16.57
SDev	.06	.0001	.0027	.0007	.0006	.001	.01
%RSD	.2986	.2321	.5261	.3631	.2030	.0660	.0748
#1	21.34	.0520	.5141	.2013	.2682	1.037	16.58
#2	21.43	.0521	.5180	.2024	.2690	1.038	16.56
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.0009	20.99	.5287	.0012	26.19	17.24
SDev	.0006	.0000	.04	.0025	.0005	.06	.11
%RSD	66.40	4.843	.1904	.4755	43.49	.2201	.6319
#1	.0005	.0009	20.96	.5269	.0016	26.23	17.31
#2	.0014	.0009	21.02	.5305	.0009	26.15	17.16
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5112	.0063	.5104	.5238	.0001	.0023	.5108
SDev	.0050	.0019	.0000	.0051	.0029	.0018	.0032
%RSD	.9725	29.37	.0012	.9710	2534.	77.19	.6282
#1	.5077	.0076	.5104	.5202	-.0019	.0011	.5085
#2	.5147	.0050	.5104	.5274	.0022	.0036	.5130
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	94.54	2.067	2.123	.0077	.5188	2.102	-.0005
SDev	.65	.011	.030	.0002	.0034	.024	.0023
%RSD	.6897	.5164	1.416	2.774	.6525	1.122	448.9
#1	95.00	2.059	2.102	.0079	.5164	2.086	-.0021
#2	94.08	2.074	2.145	.0076	.5212	2.119	.0011
Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	-.0053	-.0005	2.160	.0360	.5193	-.0022
SDev	.0000	.0027	.0003	.018	.0004	.0012	.0023
%RSD	1.132	50.31	66.72	.8314	1.226	.2303	102.7
#1	.0004	-.0072	-.0007	2.147	.0356	.5185	-.0039
#2	.0004	-.0034	-.0003	2.172	.0363	.5202	-.0006

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	.0001	.5248	.0008
SDev	.0000	.0054	.0004
%RSD	34.50	1.036	48.87

#1	.0001	.5209	.0005
#2	.0001	.5286	.0011

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	588783	10000	--	--	--	--	--
SDev	4016.367	.0000000	--	--	--	--	--
%RSD	.6821472	.0000000	--	--	--	--	--
#1	591623	10000	--	--	--	--	--
#2	585943	10000	--	--	--	--	--

Analysis Report

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Method: DAILY1 Sample Name: 229384
 Run Time: 07/15/03 19:05:33
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.04242	-.0026	-.0015	.0223	.0032	.0003	.0022
SDev	.00063	.0081	.0004	.0006	.0009	.0000	.0007
%RSD	1.4927	308.8	25.33	2.613	27.01	6.590	30.30
#1	-.04197	-.0083	-.0018	.0219	.0038	.0002	.0027
#2	-.04286	.0031	-.0012	.0227	.0026	.0003	.0018
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7110	-.0002	.0018	-.0017	.0040	.0838	.0316
SDev	.0145	.0001	.0002	.0022	.0021	.0483	.0167
%RSD	2.044	70.77	12.53	128.4	52.52	57.65	52.95
#1	.7213	-.0001	.0017	-.0032	.0025	.0497	.0435
#2	.7008	-.0002	.0020	-.0002	.0055	.1180	.0198
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0002	.1697	.7275	.0018	.0730	-.1047
SDev	.0002	.0001	.0140	.0046	.0016	.0098	.1463
%RSD	139.2	44.12	8.272	.6253	87.41	13.39	139.7
#1	.0000	.0002	.1796	.7243	.0007	.0800	-.0013
#2	.0003	.0001	.1598	.7307	.0029	.0661	-.2081
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047	.0222	-.0101	.0100	.0042	.0375	-.0010
SDev	.0014	.0034	.0142	.0092	.0045	.0077	.0007
%RSD	28.64	15.42	140.9	92.63	106.4	20.62	72.51
#1	.0038	.0247	-.0000	.0034	.0010	.0320	-.0005
#2	.0057	.0198	-.0201	.0165	.0074	.0430	-.0015
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	99.71	-.0057	.0084	.0239	.0033	.0037	-.0000
SDev	.23	.0160	.0090	.0022	.0014	.0007	.0023
%RSD	.2286	279.0	107.4	9.324	43.64	18.34	12570.
#1	99.88	.0056	.0020	.0224	.0023	.0032	.0016
#2	99.55	-.0171	.0148	.0255	.0043	.0042	-.0016
Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030	.0064	-.0006	.0189	.0536	.0025	-.0021
SDev	.0000	.0136	.0004	.0071	.0027	.0025	.0021
%RSD	.8096	212.3	65.92	37.82	5.121	99.52	101.3
#1	.0030	-.0032	-.0003	.0239	.0555	.0007	-.0006
#2	.0030	.0160	-.0009	.0138	.0516	.0043	-.0036

Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avg	.0005	.0140	.0024				
SDev	.0006	.0003	.0028				
%RSD	118.5	1.835	117.8				
#1	.0001	.0138	.0004				
#2	.0009	.0142	.0044				
IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	620993	10000	--	--	--	--	--
SDev	1422.699	.0000000	--	--	--	--	--
%RSD	.2291006	.0000000	--	--	--	--	--
#1	621999	10000	--	--	--	--	--
#2	619987	10000	--	--	--	--	--

Analysis Report

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Method: DAILY1 Sample Name: 229385

Operator:

Run Time: 07/15/03 19:11:05

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04173	.0121	.0033	.0232	.0011	.0001	.0011
SDev	.00110	.0057	.0005	.0001	.0001	.0001	.0020
%RSD	2.6408	46.77	14.65	.3572	5.151	164.8	175.7

#1	.04251	.0161	.0036	.0231	.0011	.0000	.0003
#2	.04095	.0081	.0029	.0232	.0012	.0002	.0026

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6634	.0000	.0012	.0036	.0016	.0498	.0460
SDev	.0013	.0002	.0002	.0001	.0000	.0048	.0205
%RSD	.1884	482.5	20.61	1.437	.4091	9.625	44.49

#1	.6643	.0002	.0014	.0036	.0016	.0465	.0316
#2	.6625	.0001	.0010	.0036	.0016	.0532	.0605

Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011	.0001	.1627	.7182	.0004	.0659	.0034
SDev	.0010	.0000	.0022	.0003	.0011	.0032	.0079
%RSD	93.59	29.63	1.355	.0379	271.0	4.774	232.9

#1	.0004	.0001	.1611	.7184	.0012	.0637	.0090
#2	.0019	.0001	.1642	.7180	.0004	.0681	.0022

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021	.0173	.0005	.0023	.0025	.0232	.0013
SDev	.0001	.0016	.0034	.0020	.0004	.0035	.0006
%RSD	2.105	9.046	641.3	87.33	15.81	15.22	45.89

#1	.0021	.0184	.0019	.0038	.0028	.0257	.0017
#2	.0022	.0162	.0030	.0009	.0022	.0207	.0009

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	96.00	.0054	.0007	.0302	.0017	.0013	.0014
SDev	.50	.0006	.0000	.0020	.0002	.0002	.0018
%RSD	.5197	10.94	5.109	6.773	12.49	12.91	129.4

#1	95.65	.0050	.0007	.0287	.0019	.0012	.0026
#2	96.36	.0058	.0007	.0316	.0016	.0014	.0001

Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030	.0010	.0002	.0113	.0479	.0006	.0013
SDev	.0001	.0029	.0005	.0019	.0222	.0001	.0005
%RSD	1.927	294.1	330.0	16.70	46.34	24.31	34.31

#1	.0029	.0011	.0005	.0100	.0322	.0005	.0010
#2	.0030	.0030	.0002	.0126	.0635	.0007	.0017

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	.0001	.0040	.0005
SDev	.0000	.0012	.0000
%RSD	9.185	31.18	2.317

#1	.0001	.0031	.0005
#2	.0001	.0048	.0005

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	597902	10000	--	--	--	--	--
SDev	3137.433	.0000000	--	--	--	--	--
%RSD	.5247399	.0000000	--	--	--	--	--

#1	595684	10000	--	--	--	--	--
#2	600121	10000	--	--	--	--	--

Method: DAILY1 Sample Name: 229386

Operator:

Run Time: 07/15/03 19:16:36

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.04209	.0093	-.0024	.0224	.0013	.0000	-.0018
SDev	.00036	.0126	.0015	.0004	.0000	.0001	.0020
%RSD	.85429	134.4	61.90	1.744	2.549	167.3	109.5

#1	-.04234	.0005	-.0014	.0221	.0013	-.0000	-.0004
#2	-.04183	.0182	-.0035	.0227	.0013	.0001	-.0033

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.6850	-.0002	.0012	-.0037	.0016	.0445	.0360
SDev	.0039	.0004	.0009	.0002	.0003	.0080	.0120
%RSD	.5674	161.7	73.52	4.547	18.11	18.07	33.45

#1	.6823	-.0005	.0006	-.0039	.0014	.0388	.0275
#2	.6878	.0000	.0018	-.0036	.0018	.0502	.0445

Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0000	.0000	.1548	.7177	.0002	.0699	-.2070
SDev	.0007	.0000	.0045	.0030	.0002	.0005	.0123
%RSD	2344.	36.94	2.927	.4224	130.9	.7053	5.940

#1	-.0006	.0000	.1516	.7155	.0003	.0703	-.2157
#2	.0005	.0001	.1580	.7198	.0000	.0696	-.1983

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022	.0240	-.0014	.0031	.0005	.0501	.0011
SDev	.0002	.0069	.0047	.0031	.0019	.0010	.0022
%RSD	9.428	28.63	326.6	100.7	397.4	1.951	202.7

#1	.0021	.0289	-.0048	.0053	-.0009	.0494	-.0005
#2	.0024	.0192	.0019	.0009	.0018	.0508	.0026

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	96.92	.0006	.0005	.0337	.0016	.0006	.0014
SDev	1.61	.0026	.0044	.0016	.0005	.0020	.0032
%RSD	1.662	455.7	844.2	4.677	32.00	368.0	231.3

#1	98.06	.0024	-.0026	.0326	.0019	-.0009	-.0009
#2	95.78	-.0013	.0036	.0348	.0012	.0020	.0036

Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0031	.0006	-.0006	.0141	.0238	-.0001	-.0012
SDev	.0000	.0007	.0005	.0119	.0100	.0003	.0010
%RSD	1.409	106.9	94.89	84.46	42.16	223.3	81.25

#1	.0030	.0002	-.0009	.0057	.0167	-.0003	-.0019
#2	.0031	.0011	-.0002	.0225	.0309	.0001	-.0005

Elem	Y_3710	Zn2062	Zn3496				
Units	ppm	ppm	ppm				
Avg	.0000	.0060	.0006				
SDev	.0000	.0000	.0003				
%RSD	154.6	.1267	63.42				
#1	-.0000	.0060	.0008				
#2	.0000	.0060	.0003				
IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	603628	10000	--	--	--	--	--
SDev	9997.783	.0000000	--	--	--	--	--
%RSD	1.656281	.0000000	--	--	--	--	--
#1	610698	10000	--	--	--	--	--
#2	596559	10000	--	--	--	--	--

Analysis Report

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Method: DAILY1 Sample Name: 229387

Operator:

Run Time: 07/15/03 19:22:07

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.04271	.0131	-.0024	.0126	.0006	.0002	-.0002
SDev	.00057	.0046	.0023	.0005	.0000	.0001	.0001
%RSD	1.3240	34.91	98.54	4.312	.0271	50.91	50.01

#1	-.04311	.0098	-.0040	.0122	.0006	.0003	-.0003
#2	-.04231	.0163	-.0007	.0130	.0006	.0001	-.0001

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3960	-.0004	.0008	-.0040	.0007	.0306	.0229
SDev	.0024	.0001	.0006	.0001	.0005	.0058	.0091
%RSD	.6053	23.12	70.80	2.142	63.67	19.02	39.78

#1	.3943	-.0004	.0004	-.0040	.0004	.0265	.0164
#2	.3977	-.0003	.0012	-.0039	.0011	.0347	.0293

Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0001	.0963	.1359	.0004	.0417	-.1294
SDev	.0010	.0000	.0078	.0006	.0004	.0021	.2449
%RSD	231.0	43.74	8.087	.4197	99.94	5.065	189.3

#1	-.0011	.0001	.0907	.1363	.0001	.0402	-.3025
#2	.0003	.0000	.1018	.1355	.0007	.0432	.0438

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0135	.0002	.0008	-.0002	.0176	.0018
SDev	.0005	.0049	.0007	.0003	.0003	.0038	.0017
%RSD	86.49	36.42	440.5	39.68	150.1	21.90	94.27

#1	.0002	.0100	.0006	.0006	-.0004	.0203	.0006
#2	.0009	.0170	-.0003	.0010	.0000	.0148	.0029

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	97.38	.0034	.0020	.0307	.0006	.0025	.0014
SDev	.18	.0032	.0035	.0034	.0000	.0012	.0016
%RSD	.1855	95.39	176.5	10.92	3.370	50.18	114.4

#1	97.25	.0057	-.0005	.0284	.0006	.0016	.0003
#2	97.51	.0011	.0044	.0331	.0006	.0033	.0025

Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018	-.0033	-.0006	.0183	.0370	.0001	-.0032
SDev	.0000	.0025	.0001	.0054	.0245	.0000	.0028
%RSD	2.467	75.41	15.61	29.67	66.14	7.132	85.52

#1	.0018	-.0051	-.0007	.0221	.0197	.0001	-.0052
#2	.0018	-.0015	-.0005	.0145	.0543	.0001	-.0013

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	-.0000	.0045	-.0003
SDev	.0001	.0008	.0004
%RSD	217.8	17.12	141.9

#1	-.0001	.0040	-.0006
#2	.0000	.0051	.0000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	606508	10000	--	--	--	--	--
SDev	1112.986	.0000000	--	--	--	--	--
%RSD	.1835072	.0000000	--	--	--	--	--
#1	605721	10000	--	--	--	--	--
#2	607295	10000	--	--	--	--	--

Analysis Report

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Method: DAILY1 Sample Name: 229388

Operator:

Run Time: 07/15/03 19:27:38

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.04239	.0201	-.0008	.0127	.0006	.0001	.0015
SDev	.00013	.0120	.0011	.0003	.0000	.0001	.0009
%RSD	.31729	59.70	138.1	2.217	3.548	83.07	58.03

#1	-.04249	.0116	-.0000	.0125	.0006	.0002	.0009
#2	-.04230	.0287	-.0015	.0129	.0006	.0000	.0021

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3702	-.0000	.0011	-.0038	.0009	.0139	.0239
SDev	.0014	.0002	.0001	.0002	.0000	.0097	.0122
%RSD	.3796	484.5	4.989	6.503	.8698	69.66	50.95

#1	.3692	-.0002	.0011	-.0040	.0009	.0071	.0153
#2	.3712	.0001	.0011	-.0037	.0009	.0208	.0325

Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0000	.0942	.1345	.0003	.0453	-.2195
SDev	.0008	.0000	.0001	.0008	.0003	.0012	.0378
%RSD	578.1	51.17	.0628	.5769	130.2	2.730	17.23

#1	-.0004	-.0000	.0942	.1339	.0000	.0444	-.2462
#2	.0007	-.0000	.0943	.1350	.0005	.0461	-.1927

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0081	.0007	.0045	-.0014	.0306	.0003
SDev	.0002	.0004	.0025	.0006	.0003	.0087	.0010
%RSD	48.60	4.611	347.3	13.93	24.85	28.26	347.5

#1	.0004	.0078	.0025	.0050	-.0011	.0245	.0010
#2	.0002	.0084	-.0010	.0041	-.0016	.0368	-.0004

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	95.43	.0030	-.0004	.0098	.0032	.0008	.0012
SDev	1.63	.0006	.0028	.0000	.0013	.0021	.0005
%RSD	1.705	18.95	770.6	.0552	38.50	265.3	43.13

#1	96.58	.0026	-.0023	.0098	.0041	-.0007	.0015
#2	94.28	.0034	.0016	.0098	.0024	.0022	.0008

Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018	-.0030	-.0003	.0082	.0281	.0002	.0001
SDev	.0000	.0003	.0003	.0109	.0041	.0001	.0006
%RSD	1.280	10.58	94.44	133.2	14.52	77.92	983.4

#1	.0018	-.0028	-.0001	.0005	.0252	.0001	-.0004
#2	.0018	-.0032	-.0004	.0158	.0310	.0003	.0005

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	-.0001	.0015	-.0003
SDev	.0001	.0008	.0002
%RSD	175.3	49.72	69.43

#1	-.0001	.0021	-.0004
#2	.0000	.0010	-.0001

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	594337	10000	--	--	--	--	--
SDev	10132.84	.0000000	--	--	--	--	--
%RSD	1.704898	.0000000	--	--	--	--	--

#1	601502	10000	--	--	--	--	--
#2	587172	10000	--	--	--	--	--

Method: DAILY1 Sample Name: 229388d Operator:
 Run Time: 07/15/03 19:33:09
 Comment:
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.04636	-.0057	-.0024	.0104	.0007	.0001	-.0080
SDev	.00445	.0250	.0030	.0033	.0001	.0001	.0140
%RSD	9.6049	439.3	124.3	32.13	11.69	100.8	175.6
#1	-.04950	-.0233	-.0045	.0080	.0007	.0002	-.0179
#2	-.04321	.0120	-.0003	.0128	.0008	.0000	.0019
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3644	-.0008	-.0004	-.0033	.0017	.0174	-.0576
SDev	.0069	.0009	.0011	.0004	.0001	.0003	.1182
%RSD	1.883	122.2	254.2	11.37	6.829	1.783	205.1
#1	.3595	-.0014	-.0013	-.0035	.0016	.0172	-.1412
#2	.3692	-.0001	.0004	-.0030	.0018	.0176	.0260
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0038	-.0003	.0713	.1326	.0000	.0338	-.9576
SDev	.0056	.0003	.0296	.0002	.0009	.0209	.9491
%RSD	147.9	95.31	41.55	.1368	8267.	61.92	99.12
#1	-.0078	-.0005	.0504	.1327	-.0007	.0190	-1.629
#2	.0002	-.0001	.0923	.1325	.0007	.0486	-.2865
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0139	-.0115	.0079	-.0061	.0150	-.0123
SDev	.0003	.0074	.0115	.0057	.0068	.0071	.0139
%RSD	58.67	53.59	100.5	71.47	111.9	47.08	113.3
#1	.0003	.0086	-.0196	.0119	-.0109	.0100	-.0222
#2	.0008	.0191	-.0033	.0039	-.0013	.0200	-.0024
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	94.92	-.0075	.0082	.0020	.0015	.0030	-.0032
SDev	.18	.0086	.0046	.0160	.0001	.0001	.0079
%RSD	.1866	115.9	55.73	814.9	4.485	5.120	244.4
#1	95.04	-.0136	.0114	-.0094	.0014	.0031	-.0088
#2	94.79	-.0013	.0050	.0133	.0015	.0029	.0023
Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	.0015	-.0029	-.0088	-.0473	.0002	-.0074
SDev	.0003	.0020	.0027	.0186	.0745	.0005	.0091
%RSD	16.11	135.2	92.28	210.0	157.5	295.2	123.1
#1	.0015	.0030	-.0048	-.0220	-.1000	-.0002	-.0139
#2	.0018	.0001	-.0010	.0043	.0054	.0005	-.0010

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	.0000	.0008	-.0003
SDev	.0000	.0010	.0010
%RSD	242.8	138.9	286.3

#1	-.0000	.0000	-.0010
#2	.0000	.0015	.0004

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	591172	10000	--	--	--	--	--
SDev	1060.660	.0000000	--	--	--	--	--
%RSD	.1794165	.0000000	--	--	--	--	--

#1	591922	10000	--	--	--	--	--
#2	590422	10000	--	--	--	--	--

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Analysis Report

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Method: DAILY1 Sample Name: 229389
Run Time: 07/15/03 19:38:40
Comment:
Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04240	.0217	.0040	.0134	.0007	.0000	.0029
SDev	.00011	.0017	.0014	.0003	.0000	.0002	.0037
%RSD	.26428	7.746	35.57	2.400	5.618	3693.	129.6

#1	.04232	.0205	.0050	.0132	.0007	.0001	.0002
#2	.04248	.0229	.0030	.0136	.0007	.0001	.0055

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4036	.0002	.0003	.0036	.0019	.0326	.0221
SDev	.0006	.0001	.0002	.0001	.0006	.0003	.0061
%RSD	.1578	36.25	53.52	4.084	30.36	.8850	27.39

#1	.4041	.0002	.0002	.0035	.0015	.0324	.0178
#2	.4032	.0001	.0004	.0037	.0024	.0328	.0264

Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0000	.0969	.1362	.0004	.0429	.1721
SDev	.0004	.0000	.0010	.0001	.0005	.0009	.0667
%RSD	174.7	37.89	.9927	.0395	108.0	2.222	38.78

#1	.0005	.0001	.0962	.1362	.0008	.0423	.2193
#2	.0001	.0000	.0976	.1362	.0001	.0436	.1249

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0272	.0016	.0023	.0015	.0284	.0002
SDev	.0004	.0026	.0021	.0004	.0003	.0019	.0003
%RSD	38.96	9.651	131.0	16.77	19.02	6.548	178.8

#1	.0013	.0290	.0031	.0026	.0017	.0271	.0000
#2	.0008	.0253	.0001	.0020	.0013	.0297	.0004

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	95.66	.0008	.0002	.0408	.0010	.0002	.0024
SDev	.45	.0042	.0040	.0013	.0004	.0013	.0022
%RSD	.4753	538.0	2355.	3.090	45.19	777.6	92.95

#1	95.98	.0037	.0030	.0417	.0007	.0007	.0039
#2	95.34	.0022	.0026	.0399	.0013	.0011	.0008

Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019	.0026	.0004	.0099	.0492	.0002	.0004
SDev	.0000	.0026	.0003	.0055	.0008	.0002	.0029
%RSD	.3811	103.5	73.49	55.27	1.664	85.71	673.2

#1	.0019	.0044	.0002	.0060	.0486	.0003	.0025
#2	.0019	.0007	.0006	.0138	.0498	.0001	.0016

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	.0000	.0030	.0005
SDev	.0001	.0001	.0002
%RSD	1686.	3.249	35.95

#1	.0001	.0031	.0006
#2	-.0001	.0029	.0004

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	595758	10000	--	--	--	--	--
SDev	2833.377	.0000000	--	--	--	--	--
%RSD	.4755923	.0000000	--	--	--	--	--
#1	597761	10000	--	--	--	--	--
#2	593754	10000	--	--	--	--	--

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Analysis Report

Method: DAILY1 Sample Name: 229389s
 Run Time: 07/15/03 19:44:12
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01165	1.923	2.076	.0125	2.145	.0569	.0006
SDev	.00024	.004	.012	.0004	.013	.0004	.0053
%RSD	2.0687	.2150	.5879	3.379	.5933	.6407	927.2
#1	.01182	1.920	2.067	.0128	2.136	.0566	.0044
#2	.01148	1.926	2.085	.0122	2.154	.0572	-.0032
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	21.40	.0521	.5165	.2014	.2682	1.057	17.06
SDev	.03	.0003	.0003	.0002	.0013	.001	.12
%RSD	.1519	.6223	.0497	.1111	.4689	.0590	.6872
#1	21.42	.0518	.5163	.2013	.2673	1.057	17.14
#2	21.37	.0523	.5166	.2016	.2691	1.058	16.97
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0003	20.82	.6610	-.0002	25.71	16.85
SDev	.0009	.0001	.05	.0008	.0009	.13	.22
%RSD	1478.	18.24	.2551	.1264	380.5	.4906	1.278
#1	.0006	.0003	20.79	.6604	.0004	25.80	17.00
#2	-.0007	.0002	20.86	.6616	-.0008	25.62	16.70
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5119	.0203	.5117	.5199	.0002	.0407	.5072
SDev	.0029	.0060	.0006	.0014	.0011	.0010	.0027
%RSD	.5634	29.44	.1238	.2736	471.6	2.368	.5363
#1	.5140	.0245	.5113	.5210	.0010	.0400	.5052
#2	.5099	.0161	.5122	.5189	-.0005	.0414	.5091
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	97.19	2.106	2.141	.0516	.5167	2.127	.0024
SDev	.43	.012	.027	.0022	.0007	.022	.0015
%RSD	.4396	.5649	1.248	4.284	.1426	1.023	62.39
#1	96.89	2.098	2.122	.0500	.5172	2.112	.0035
#2	97.49	2.115	2.160	.0531	.5162	2.142	.0013
Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019	-.0073	-.0003	2.154	.0385	.5182	-.0031
SDev	.0001	.0011	.0003	.005	.0207	.0012	.0011
%RSD	2.580	15.11	78.21	.2227	53.73	.2252	34.28
#1	.0020	-.0065	-.0002	2.158	.0531	.5174	-.0023
#2	.0019	-.0080	-.0005	2.151	.0239	.5191	-.0038

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	-.0001	.5255	.0004
SDev	.0000	.0011	.0007
%RSD	88.88	.2099	165.7

#1	-.0000	.5263	.0010
#2	-.0001	.5247	-.0001

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	605264	10000	--	--	--	--	--
SDev	2695.491	.0000000	--	--	--	--	--
%RSD	.4453414	.0000000	--	--	--	--	--
#1	603358	10000	--	--	--	--	--
#2	607170	10000	--	--	--	--	--

Analysis Report

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Method: DAILY1 Sample Name: ccv5
 Run Time: 07/15/03 19:54:59
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0045	9.767	4.917	4.848	10.49	1.087	5.003
SDev	.0127	.084	.019	.013	.01	.009	.017
%RSD	1.2679	.8604	.3838	.2707	.1176	.8482	.3411
#1	1.0135	9.826	4.930	4.838	10.50	1.093	4.991
#2	.99551	9.708	4.903	4.857	10.48	1.080	5.015
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.08	1.006	4.961	1.970	2.133	10.21	17.78
SDev	.15	.000	.035	.014	.015	.03	.09
%RSD	.7605	.0302	.7143	.7278	.7185	.2924	.5056
#1	20.19	1.006	4.986	1.980	2.144	10.23	17.71
#2	19.98	1.006	4.936	1.960	2.122	10.19	17.84
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.168	4.646	19.86	1.034	5.053	40.89	26.22
SDev	.011	.021	.06	.005	.037	.21	.40
%RSD	.2176	.4543	.3207	.5143	.7258	.5061	1.536
#1	5.160	4.631	19.91	1.038	5.027	40.75	26.51
#2	5.176	4.661	19.82	1.030	5.079	41.04	25.94
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.900	5.036	4.962	4.934	1.073	.8925	.9948
SDev	.001	.087	.066	.066	.005	.0643	.0042
%RSD	.0108	1.727	1.336	1.343	.4871	7.207	.4179
#1	4.900	5.097	5.009	4.981	1.077	.8470	.9919
#2	4.900	4.974	4.915	4.887	1.069	.9380	.9978
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	97.45	5.198	5.101	4.997	4.938	5.128	4.884
SDev	.68	.055	.063	.021	.066	.060	.004
%RSD	.6928	1.065	1.226	.4138	1.341	1.172	.0862
#1	96.97	5.237	5.145	5.011	4.985	5.170	4.887
#2	97.93	5.159	5.056	4.982	4.891	5.085	4.881
Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.340	1.022	4.948	5.219	1.042	5.054	1.047
SDev	.003	.008	.032	.028	.012	.030	.008
%RSD	.0604	.7890	.6435	.5378	1.164	.5860	.7265
#1	5.342	1.028	4.970	5.199	1.050	5.075	1.042
#2	5.338	1.017	4.925	5.239	1.033	5.033	1.053

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	5.195	1.007	5.076
SDev	.007	.001	.009
%RSD	.1357	.1166	.1842

#1	5.190	1.008	5.083
#2	5.200	1.006	5.069

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	606890	10000	--	--	--	--	--
SDev	4242.641	.0000000	--	--	--	--	--
%RSD	.6990790	.0000000	--	--	--	--	--
#1	603890	10000	--	--	--	--	--
#2	609890	10000	--	--	--	--	--

Analysis Report

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Method: DAILY1 Sample Name: ccb5

Run Time: 07/15/03 20:03:12

Operator:

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.04181	-.0193	-.0034	.0086	.0021	.0004	-.0023
SDev	.00005	.0069	.0012	.0036	.0013	.0002	.0044
%RSD	.12569	35.59	36.30	41.97	60.19	40.89	193.5
#1	-.04185	-.0241	-.0043	.0111	.0031	.0006	.0008
#2	-.04178	-.0144	-.0026	.0060	.0012	.0003	-.0054
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0073	-.0001	.0005	-.0026	.0016	.0110	.0010
SDev	.0029	.0000	.0009	.0003	.0001	.0064	.0065
%RSD	39.25	37.92	179.4	10.10	4.068	58.27	646.5
#1	.0094	-.0001	.0012	-.0028	.0016	.0064	.0056
#2	.0053	-.0001	-.0001	-.0024	.0017	.0155	-.0036
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	.0008	.0020	.0004	.0043	.0027	-.1243
SDev	.0007	.0005	.0049	.0002	.0019	.0024	.0266
%RSD	153.5	61.11	245.4	47.11	42.79	86.58	21.44
#1	.0009	.0011	.0055	.0003	.0056	.0011	-.1431
#2	-.0000	.0005	-.0015	.0006	.0030	.0044	-.1054
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0010	.0096	-.0001	.0040	-.0016	-.0109	-.0020
SDev	.0001	.0078	.0057	.0022	.0007	.0007	.0002
%RSD	13.94	81.01	6550.	55.71	43.61	6.577	10.92
#1	.0011	.0151	.0040	.0024	-.0011	-.0104	-.0018
#2	.0009	.0041	-.0041	.0056	-.0020	-.0114	-.0021
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	99.40	.0046	.0062	-.0015	.0027	.0057	.0020
SDev	2.56	.0058	.0005	.0013	.0004	.0016	.0001
%RSD	2.578	127.6	7.693	86.68	15.67	28.62	6.256
#1	101.2	.0087	.0059	-.0025	.0029	.0068	.0021
#2	97.59	.0004	.0065	-.0006	.0024	.0045	.0019
Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0011	.0002	.0002	.0104	.0224	.0010	-.0021
SDev	.0007	.0023	.0004	.0001	.0302	.0006	.0012
%RSD	63.38	992.1	166.7	.6045	135.1	63.45	58.09
#1	.0015	-.0014	.0005	.0103	.0438	.0014	-.0012
#2	.0006	.0019	-.0000	.0104	.0010	.0005	-.0030

Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avg	.0011	-.0000	.0016				
SDev	.0008	.0004	.0009				
%RSD	67.31	5702.	55.53				
#1	.0016	.0003	.0022				
#2	.0006	-.0003	.0010				
IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	618986	10000	--	--	--	--	--
SDev	15916.97	.0000000	--	--	--	--	--
%RSD	2.571459	.0000000	--	--	--	--	--
#1	630241	10000	--	--	--	--	--
#2	607731	10000	--	--	--	--	--

Method: DAILY1 Sample Name: 229390
 Run Time: 07/15/03 20:08:47
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.04283	.0011	-.0036	.1188	.0041	.0000	-.0013
SDev	.00005	.0035	.0021	.0008	.0000	.0002	.0004
%RSD	.12160	316.5	58.94	.6585	.4321	604.0	26.91
#1	-.04279	-.0014	-.0021	.1183	.0040	-.0001	-.0011
#2	-.04286	.0036	-.0051	.1194	.0041	.0002	-.0016
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8104	-.0003	.0020	-.0037	.0020	1.256	.1954
SDev	.0008	.0000	.0001	.0003	.0001	.006	.0034
%RSD	.0961	11.57	5.645	7.175	4.374	.4404	1.735
#1	.8110	-.0003	.0020	-.0035	.0021	1.252	.1978
#2	.8099	-.0003	.0021	-.0039	.0019	1.259	.1930
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	.0008	.1923	.3831	.0021	.6847	.3210
SDev	.0002	.0000	.0044	.0027	.0002	.0004	.0817
%RSD	39.14	5.460	2.273	.6990	9.959	.0609	25.45
#1	-.0007	.0008	.1892	.3812	.0022	.6844	.3788
#2	-.0004	.0007	.1954	.3850	.0019	.6850	.2633
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1000	.0170	-.0019	.0025	.0000	.1809	-.0026
SDev	.0011	.0036	.0002	.0019	.0010	.0121	.0030
%RSD	1.140	21.33	11.46	74.23	2801.	6.704	116.8
#1	.1008	.0145	-.0020	.0039	.0007	.1723	-.0047
#2	.0992	.0196	-.0017	.0012	-.0006	.1894	-.0004
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	95.60	.0012	.0035	.1390	.0011	.0028	-.0003
SDev	.08	.0003	.0035	.0043	.0012	.0024	.0010
%RSD	.0838	25.96	99.39	3.079	110.6	87.81	295.2
#1	95.54	.0015	.0060	.1360	.0019	.0045	-.0011
#2	95.65	.0010	.0010	.1420	.0002	.0010	.0004
Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046	-.0012	-.0003	.0194	-.0054	.0001	.0009
SDev	.0000	.0008	.0004	.0015	.0111	.0003	.0000
%RSD	.0826	63.10	122.2	7.572	205.4	580.6	5.115
#1	.0046	-.0007	-.0006	.0184	-.0133	.0003	.0008
#2	.0046	-.0018	-.0000	.0205	.0025	-.0002	.0009

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	-.0000	.0033	-.0001
SDev	.0001	.0006	.0002
%RSD	356.6	17.43	174.9

#1	.0000	.0037	.0000
#2	-.0001	.0029	-.0003

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	595390	10000	--	--	--	--	--
SDev	542.3509	.0000000	--	--	--	--	--
%RSD	.0910918	.0000000	--	--	--	--	--
#1	595006	10000	--	--	--	--	--
#2	595773	10000	--	--	--	--	--

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Analysis Report

Method: DAILY1 Sample Name: 229391
 Run Time: 07/15/03 20:14:17
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04244	.0075	.0015	.1195	.0046	.0004	.0019
SDev	.00068	.0076	.0000	.0005	.0001	.0001	.0008
%RSD	1.6055	101.1	.1899	.4232	2.938	27.52	43.90
#1	-.04196	.0022	-.0015	.1191	.0047	.0003	-.0025
#2	-.04293	.0129	-.0015	.1198	.0045	.0004	-.0013
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8287	.0002	.0025	.0028	.0023	1.310	.1917
SDev	.0178	.0001	.0001	.0008	.0003	.028	.0036
%RSD	2.153	37.83	4.378	27.35	13.56	2.171	1.849
#1	.8413	-.0002	.0026	-.0023	.0021	1.330	.1892
#2	.8161	-.0003	.0025	-.0034	.0026	1.290	.1942
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0007	.2014	.3912	.0025	.6688	.3032
SDev	.0003	.0001	.0013	.0034	.0002	.0171	.0867
%RSD	154.9	11.76	.6360	.8604	6.639	2.564	28.59
#1	.0004	.0008	.2005	.3935	.0023	.6567	.3645
#2	-.0000	.0007	.2023	.3888	.0026	.6809	.2419
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1035	.0088	.0003	.0019	.0010	.1831	-.0013
SDev	.0026	.0007	.0007	.0008	.0009	.0082	.0006
%RSD	2.536	7.554	255.9	44.91	83.40	4.455	48.28
#1	.1054	.0083	-.0002	.0025	.0016	.1888	-.0009
#2	.1016	.0092	.0008	.0013	.0004	.1773	-.0018
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	96.93	.0017	.0008	.1481	.0013	.0011	.0011
SDev	1.64	.0019	.0037	.0106	.0003	.0031	.0008
%RSD	1.697	114.9	443.2	7.169	23.73	274.6	81.13
#1	98.09	.0030	.0034	.1406	.0016	.0033	.0004
#2	95.77	.0003	-.0018	.1556	.0011	-.0011	.0017
Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045	-.0003	-.0002	.0114	.0345	.0011	-.0017
SDev	.0001	.0023	.0003	.0005	.0424	.0009	.0006
%RSD	1.746	831.6	145.5	4.183	122.9	79.98	36.97
#1	.0045	.0013	.0000	.0117	.0645	.0018	-.0012
#2	.0046	-.0019	-.0004	.0111	.0045	.0005	-.0021

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avge	.0002	.0047	.0009
SDev	.0003	.0002	.0013
%RSD	121.8	4.308	135.9

#1	.0004	.0046	.0018
#2	.0000	.0048	.0000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	603676	10000	--	--	--	--	--
SDev	10231.13	.0000000	--	--	--	--	--
%RSD	1.694803	.0000000	--	--	--	--	--
#1	610911	10000	--	--	--	--	--
#2	596442	10000	--	--	--	--	--

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Analysis Report

Method: DAILY1 Sample Name: 229392
 Run Time: 07/15/03 20:19:49
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.04203	.0002	-.0011	.1193	.0040	.0002	.0019
SDev	.00019	.0087	.0005	.0005	.0000	.0000	.0026
%RSD	.44691	3911.	49.21	.4455	.3220	14.80	134.9
#1	-.04190	.0064	-.0014	.1189	.0040	.0003	.0038
#2	-.04217	-.0059	-.0007	.1197	.0040	.0002	.0001
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8284	-.0001	.0017	-.0038	.0024	1.279	.1839
SDev	.0059	.0002	.0001	.0004	.0001	.009	.0060
%RSD	.7131	298.0	3.371	10.77	5.277	.7169	3.252
#1	.8325	.0001	.0018	-.0035	.0025	1.286	.1881
#2	.8242	-.0002	.0017	-.0041	.0023	1.273	.1796
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0007	.2009	.3880	.0016	.6590	.3869
SDev	.0010	.0000	.0052	.0034	.0002	.0058	.0767
%RSD	136.3	5.364	2.570	.8896	11.20	.8845	19.82
#1	.0014	.0008	.2046	.3904	.0015	.6549	.4411
#2	.0000	.0007	.1973	.3855	.0018	.6631	.3327
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1028	.0205	-.0010	.0030	-.0001	.1790	-.0006
SDev	.0000	.0010	.0014	.0020	.0021	.0073	.0015
%RSD	.0166	4.925	136.5	66.68	1776.	4.054	242.0
#1	.1028	.0212	-.0021	.0044	.0014	.1738	.0004
#2	.1028	.0198	-.0000	.0016	-.0016	.1841	-.0016
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	98.71	.0020	-.0026	.1816	.0016	-.0011	.0009
SDev	1.34	.0026	.0022	.0037	.0008	.0006	.0006
%RSD	1.356	130.2	83.60	2.040	51.73	56.35	67.01
#1	97.76	.0038	-.0042	.1790	.0022	-.0015	.0013
#2	99.66	.0002	-.0011	.1843	.0010	-.0006	.0005
Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045	-.0016	-.0003	.0041	.0360	-.0000	-.0016
SDev	.0000	.0023	.0002	.0180	.0186	.0001	.0013
%RSD	.8323	145.3	53.86	437.5	51.59	665.7	82.33
#1	.0046	.0000	-.0002	.0169	.0491	.0001	-.0025
#2	.0045	-.0032	-.0005	-.0086	.0228	-.0001	-.0007

Elem	Y_3710	Zn2062	Zn3496
Units	ppm	ppm	ppm
Avg	-.0000	.0042	.0011
SDev	.0000	.0001	.0002
%RSD	265.4	1.560	20.70

#1	-.0001	.0043	.0013
#2	.0000	.0042	.0009

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	614718	10000	--	--	--	--	--
SDev	8333.961	.00000000	--	--	--	--	--
%RSD	1.355737	.00000000	--	--	--	--	--

#1	608825	10000	--	--	--	--	--
#2	620611	10000	--	--	--	--	--

Analysis Report

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Method: DAILY1 Sample Name: 229393

Operator:

Run Time: 07/15/03 20:25:21

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.04230	-.0064	-.0040	.1823	.0036	.0002	.0010
SDev	.00016	.0015	.0002	.0001	.0002	.0001	.0041
%RSD	.38691	22.87	5.631	.0420	5.015	36.68	413.5
#1	-.04242	-.0074	-.0042	.1824	.0038	.0002	.0039
#2	-.04219	-.0054	-.0039	.1823	.0035	.0001	-.0019
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.336	-.0003	-.0001	-.0039	.0141	.0915	.4087
SDev	.004	.0001	.0002	.0007	.0006	.0087	.0069
%RSD	.2818	24.50	185.8	16.93	3.905	9.499	1.690
#1	1.339	-.0002	.0000	-.0035	.0145	.0977	.4038
#2	1.334	-.0003	-.0002	-.0044	.0137	.0854	.4136
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0006	.2267	.6351	.0254	.5231	.1113
SDev	.0006	.0001	.0017	.0009	.0007	.0025	.0634
%RSD	245.5	8.288	.7362	.1350	2.663	.4780	56.90
#1	.0002	.0007	.2279	.6357	.0259	.5213	.1561
#2	-.0007	.0006	.2255	.6345	.0249	.5249	.0665
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070	.0220	.0012	.0010	-.0003	.1585	-.0018
SDev	.0014	.0118	.0034	.0015	.0016	.0020	.0003
%RSD	19.85	53.72	285.2	155.1	560.0	1.252	15.27
#1	.0080	.0303	.0036	-.0001	.0009	.1571	-.0016
#2	.0060	.0136	-.0012	.0020	-.0015	.1599	-.0020
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	98.43	.0089	.0005	.5859	.0010	.0033	-.0015
SDev	.09	.0008	.0001	.0004	.0001	.0002	.0018
%RSD	.0903	8.833	13.62	.0704	11.24	6.364	121.1
#1	98.37	.0083	.0006	.5856	.0011	.0032	-.0027
#2	98.49	.0094	.0005	.5862	.0010	.0035	-.0002
Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0100	-.0031	-.0004	.0163	.0368	.0003	-.0009
SDev	.0001	.0017	.0002	.0007	.0078	.0006	.0022
%RSD	.4777	54.11	34.90	4.459	21.26	194.7	239.7
#1	.0101	-.0019	-.0003	.0158	.0423	.0007	.0006
#2	.0100	-.0043	-.0005	.0168	.0312	-.0001	-.0024

Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avg	.0000	.0023	.0004				
SDev	.0002	.0002	.0007				
%RSD	437.0	9.675	163.3				
#1	.0002	.0025	.0009				
#2	-.0001	.0022	-.0001				
IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	612992	10000	--	--	--	--	--
SDev	498.5103	.0000000	--	--	--	--	--
%RSD	.0813240	.0000000	--	--	--	--	--
#1	612640	10000	--	--	--	--	--
#2	613345	10000	--	--	--	--	--

Method: DAILY1 Sample Name: 229394
 Run Time: 07/15/03 20:30:52
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.04265	.0097	-.0018	.1849	.0037	.0004	.0020
SDev	.00032	.0086	.0000	.0016	.0001	.0000	.0017
%RSD	.74993	88.45	1.023	.8532	1.944	.4633	87.18
#1	-.04288	.0158	-.0018	.1837	.0037	.0004	.0007
#2	-.04243	.0036	-.0018	.1860	.0036	.0004	.0032
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.373	-.0002	-.0001	-.0036	.0022	.0874	.4219
SDev	.016	.0000	.0002	.0003	.0001	.0070	.0012
%RSD	1.139	7.959	171.6	9.317	2.028	8.000	.2933
#1	1.384	-.0002	.0000	-.0034	.0022	.0923	.4227
#2	1.362	-.0002	-.0002	-.0039	.0023	.0824	.4210
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	.0007	.2308	.6403	.0264	.5347	.2615
SDev	.0002	.0000	.0017	.0075	.0003	.0010	.0159
%RSD	42.67	2.180	.7528	1.170	1.296	.1878	6.083
#1	-.0003	.0007	.2320	.6456	.0262	.5340	.2727
#2	-.0006	.0006	.2295	.6350	.0266	.5354	.2502
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0072	.0193	-.0020	.0037	.0003	.1721	-.0031
SDev	.0001	.0039	.0006	.0003	.0002	.0053	.0015
%RSD	.9735	20.38	27.51	8.593	64.60	3.086	49.02
#1	.0072	.0220	-.0024	.0039	.0005	.1683	-.0041
#2	.0071	.0165	-.0016	.0034	.0002	.1759	-.0020
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	97.27	.0038	.0008	.6595	.0018	.0018	.0045
SDev	.97	.0051	.0043	.0006	.0000	.0045	.0009
%RSD	.9944	133.5	549.7	.0896	1.317	252.7	20.67
#1	96.58	.0074	.0038	.6599	.0018	.0050	.0052
#2	97.95	.0002	-.0023	.6590	.0017	-.0014	.0038
Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0101	-.0017	-.0000	.0162	.0425	-.0001	-.0013
SDev	.0001	.0025	.0004	.0117	.0178	.0000	.0013
%RSD	.6898	150.4	1069.	71.92	41.91	17.21	104.0
#1	.0100	.0001	-.0003	.0080	.0299	-.0001	-.0003
#2	.0101	-.0035	.0003	.0245	.0551	-.0001	-.0022

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	-.0000	.0027	.0001
SDev	.0001	.0000	.0003
%RSD	574.6	1.136	455.6

#1	.0000	.0027	-.0002
#2	-.0001	.0027	.0003

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	605721	10000	--	--	--	--	--
SDev	6003.336	.0000000	--	--	--	--	--
%RSD	.9911059	.0000000	--	--	--	--	--

#1	601476	10000	--	--	--	--	--
#2	609966	10000	--	--	--	--	--

Method: DAILY1 Sample Name: 229395

Operator:

Run Time: 07/15/03 20:36:24

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.04242	.0007	-.0016	.1854	.0037	.0004	-.0045
SDev	.00027	.0012	.0016	.0016	.0001	.0000	.0039
%RSD	.64030	182.0	99.66	.8910	1.558	7.432	85.34

#1	-.04261	-.0002	-.0027	.1842	.0037	.0004	-.0072
#2	-.04223	.0015	-.0005	.1865	.0036	.0003	-.0018

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.342	-.0002	.0019	-.0038	.0023	.0890	.4226
SDev	.005	.0001	.0003	.0003	.0004	.0118	.0013
%RSD	.3472	87.12	15.99	6.696	15.63	13.25	.3139

#1	1.338	-.0002	.0017	-.0036	.0026	.0973	.4235
#2	1.345	-.0001	.0021	-.0040	.0020	.0806	.4216

Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0011	.2299	.6360	.0257	.5258	.2421
SDev	.0002	.0000	.0056	.0032	.0005	.0009	.0253
%RSD	104.4	2.211	2.434	.5062	1.876	.1663	10.44

#1	.0003	.0012	.2260	.6338	.0253	.5252	.2600
#2	.0001	.0011	.2339	.6383	.0260	.5264	.2243

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071	.0127	.0005	.0022	-.0015	.2387	-.0005
SDev	.0004	.0003	.0017	.0003	.0020	.0012	.0016
%RSD	5.163	1.973	315.7	14.44	136.3	.4845	358.4

#1	.0073	.0129	-.0007	.0020	-.0029	.2379	.0007
#2	.0068	.0125	.0017	.0024	-.0001	.2395	-.0016

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	98.21	.0085	-.0011	.6925	.0017	.0021	.0028
SDev	.09	.0060	.0050	.0073	.0008	.0013	.0001
%RSD	.0891	70.73	453.5	1.046	46.69	61.53	3.931

#1	98.27	.0042	.0024	.6874	.0011	.0030	.0027
#2	98.15	.0127	-.0046	.6977	.0022	.0012	.0029

Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0099	-.0032	-.0003	.0163	.0409	-.0000	.0002
SDev	.0001	.0023	.0001	.0050	.0047	.0007	.0003
%RSD	.7325	70.26	51.44	30.75	11.57	9370.	152.7

#1	.0099	-.0048	-.0004	.0199	.0375	.0005	-.0000
#2	.0100	-.0016	-.0002	.0128	.0442	-.0005	.0004

Elem	Y_3710	Zn2062	Zn3496
Units	ppm	ppm	ppm
Avg	-.0000	.0038	-.0000
SDev	.0002	.0003	.0009
%RSD	353.0	8.846	2573.

#1	.0001	.0036	.0006
#2	-.0002	.0041	-.0007

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	611658	10000	--	--	--	--	--
SDev	539.5225	.0000000	--	--	--	--	--
%RSD	.0882065	.0000000	--	--	--	--	--
#1	612040	10000	--	--	--	--	--
#2	611277	10000	--	--	--	--	--

Method: DAILY1 Sample Name: ccv6

Operator:

Run Time: 07/15/03 20:47:15

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0068	9.776	4.894	4.851	10.47	1.087	5.013
SDev	.0027	.063	.030	.010	.12	.019	.015
%RSD	.26469	.6437	.6140	.2102	1.168	1.771	.3033

#1	1.0087	9.731	4.915	4.858	10.38	H1.100	5.024
#2	1.0049	9.820	4.873	4.844	10.55	1.073	5.002

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.1000	11.00	5.500	5.500	11.00	1.100	5.500
Low	.90000	9.000	4.500	4.500	9.000	.9000	4.500

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.13	1.010	4.962	1.971	2.130	10.21	L17.72
SDev	.40	.022	.067	.024	.020	.13	.37
%RSD	2.004	2.194	1.350	1.202	.9580	1.290	2.064

#1	20.41	1.026	5.010	1.987	2.116	10.31	L17.46
#2	19.84	.9947	4.915	1.954	2.145	10.12	L17.98

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	22.00	1.100	5.500	2.200	2.200	11.00	22.00
Low	18.00	.9000	4.500	1.800	1.800	9.000	18.00

Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.170	4.652	19.90	1.034	5.065	H40.90	L26.22
SDev	.035	.065	.16	.009	.027	.71	.15
%RSD	.6672	1.394	.7979	.8882	.5356	1.728	.5631

#1	5.146	4.606	20.01	1.040	5.084	H40.40	L26.12
#2	5.195	4.698	19.79	1.028	5.046	H41.40	L26.33

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Low
High	5.500	5.500	22.00	1.100	5.500	33.00	33.00
Low	4.500	4.500	18.00	.9000	4.500	27.00	27.00

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.905	5.484	4.964	4.967	1.071	.9463	.9959
SDev	.079	.207	.145	.056	.004	.0020	.0039
%RSD	1.602	3.771	2.913	1.136	.3971	.2127	.3920

#1	4.960	H5.631	5.066	5.007	1.068	.9449	.9986
#2	4.849	5.338	4.861	4.927	1.074	.9477	.9931

Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	5.500	5.500			1.100	1.100	1.100
Low	4.500	4.500			.9000	.9000	.9000

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
------	--------	--------	--------	--------	-------	-------	--------

Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	98.23	5.165	5.092	5.009	4.961	5.111	4.889
SDev	.86	.057	.022	.021	.086	.004	.076
%RSD	.8715	1.110	.4371	.4140	1.728	.0836	1.549
#1	98.84	5.205	5.076	5.024	5.022	5.114	4.943
#2	97.63	5.124	5.107	4.995	4.901	5.108	4.836
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High				5.500	5.500	5.500	5.500
Low				4.500	4.500	4.500	4.500
Elem	Sr4215	Th2837	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.332	1.023	4.956	5.184	1.044	5.061	1.046
SDev	.026	.001	.010	.029	.013	.036	.014
%RSD	.4911	.1439	.1952	.5518	1.272	.7044	1.358
#1	5.313	1.022	4.963	5.164	1.054	5.086	1.056
#2	5.350	1.024	4.949	5.204	1.035	5.036	1.036
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	5.500	1.100	5.500	5.500	1.100	5.500	1.100
Low	4.500	.9000	4.500	4.500	.9000	4.500	.9000
Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avg	5.194	1.007	5.075				
SDev	.003	.030	.001				
%RSD	.0536	2.991	.0232				
#1	5.192	1.028	5.075				
#2	5.196	.9857	5.076				
Errors	LC Pass	LC Pass	LC Pass				
High	5.500	1.100	5.500				
Low	4.500	.9000	4.500				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	611782	10000	--	--	--	--	--
SDev	5325.928	.00000000	--	--	--	--	--
%RSD	.8705598	.00000000	--	--	--	--	--
#1	615548	10000	--	--	--	--	--
#2	608016	10000	--	--	--	--	--

Method: DAILY1 Sample Name: ccb6
 Run Time: 07/15/03 20:55:30
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	L-.04146	-.0179	-.0038	.0090	.0017	.0005	.0020
SDev	.00030	.0020	.0002	.0018	.0005	.0001	.0018
%RSD	.72227	11.36	5.099	20.27	30.04	22.30	89.47
#1	L-.04167	-.0164	-.0036	.0102	.0021	.0006	.0032
#2	L-.04125	-.0193	-.0039	.0077	.0014	.0004	.0007
Errors	LC Low	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00500	.0500	.0050	.0500	.0050	.0050	.0050
Low	-.00500	-.0500	-.0050	-.0500	-.0050	-.0050	-.0050
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061	-.0000	.0007	-.0034	.0011	.0050	.0025
SDev	.0011	.0002	.0001	.0006	.0003	.0039	.0059
%RSD	17.31	3505.	22.41	18.78	25.20	77.31	232.0
#1	.0069	.0001	.0006	-.0029	.0012	.0023	.0067
#2	.0054	-.0002	.0008	-.0038	.0009	.0077	-.0016
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0500	.0050	.0050	.0050	.0050	.0250	.1000
Low	-.0500	-.0050	-.0050	-.0050	-.0050	-.0250	-.1000
Elem	La4086	Li6707	Mg2790	Mn2576	Mo2020	Na5889	Na3302
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.0006	.0065	.0002	.0047	.0027	L-.0643
SDev	.0001	.0002	.0024	.0001	.0008	.0015	.1632
%RSD	11.75	31.91	36.78	24.78	17.89	56.95	253.6
#1	.0010	.0007	.0082	.0003	H.0053	.0038	H.0510
#2	.0008	.0004	.0048	.0002	.0041	.0016	L-.1797
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low
High	.0050	.0050	.0500	.0050	.0050	.0500	.0500
Low	-.0050	-.0050	-.0500	-.0050	-.0050	-.0500	-.0500
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	.0071	.0014	.0025	.0012	-.0052	.0009
SDev	.0002	.0054	.0014	.0012	.0011	.0019	.0026
%RSD	29.54	76.54	101.4	48.71	86.04	35.85	291.4
#1	.0010	H.0109	.0004	.0033	.0005	-.0039	-.0009
#2	.0006	.0033	.0024	.0016	.0020	-.0065	.0027
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	.0050	.0100			.0050	.0100	.0100
Low	-.0050	-.0100			-.0050	-.0100	-.0100
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899

Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	100.1	.0012	-.0033	-.0010	.0021	-.0018	-.0010
SDev	.2	.0006	.0000	.0001	.0003	.0002	.0015
%RSD	.2428	56.14	.6681	12.45	15.75	12.93	146.8
#1	99.89	.0016	-.0032	-.0011	.0023	-.0016	-.0021
#2	100.2	.0007	-.0033	-.0009	.0019	-.0019	.0000
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High				.0100	.0030	.0050	.0050
Low				-.0100	-.0030	-.0050	-.0050
Elem	Sr4215	Th2327	Ti3372	Tl1908	U_3859	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	-.0029	.0006	H.0149	.0365	.0015	-.0023
SDev	.0003	.0015	.0001	.0088	.0065	.0001	.0000
%RSD	32.44	51.17	17.70	59.09	17.86	9.226	1.560
#1	.0011	-.0040	.0006	.0087	.0319	.0014	-.0023
#2	.0007	-.0019	.0005	H.0212	.0411	.0016	-.0023
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	.0050	.0100	.0050	.0100	.1000	.0050	.0100
Low	-.0050	-.0100	-.0050	-.0100	-.1000	-.0050	-.0100
Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avg	.0009	-.0002	.0017				
SDev	.0002	.0001	.0008				
%RSD	23.10	47.46	45.24				
#1	.0010	-.0002	.0022				
#2	.0007	-.0003	.0011				
Errors	LC Pass	LC Pass	LC Pass				
High	.0050	.0050	.0050				
Low	-.0050	-.0050	-.0050				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	---	---	---	---	---	---
Wavlen	361.384	---	---	---	---	---	---
Avge	623096	10000	---	---	---	---	---
SDev	1525.936	.00000000	---	---	---	---	---
%RSD	.2448959	.00000000	---	---	---	---	---
#1	622017	10000	---	---	---	---	---
#2	624175	10000	---	---	---	---	---

#2

TCP ANALYSIS

PROJ. NO.	PROJECT	TO#	DATE	MATRIX	LOGBK	PG
06002.01.141	Div 20	030714-87	15.03	Water	54	102

INSTRUMENT: TRACE 2 FILENAME: 307148

INSTRUMENT DL: _____

Method: DAILY2 Standard: blk
Run Time: 07/15/03 11:19:56

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Avge	-.0000	.0003	-.0001	.0000	-.0000	-.0001	.0000
SDev	.0000	.0000	.0000	.0000	.0000	.0000	.0000
%RSD	6.302	.1680	17.04	6.066	27.33	2.733	74.01

#1	-.0000	.0003	-.0001	.0000	-.0000	-.0001	.0001
#2	-.0000	.0003	-.0001	.0000	-.0000	-.0000	.0000

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Avge	.0001	.0000	-.0000	-.0000	.0003	.0000	.0002
SDev	.0000	.0000	.0000	.0000	.0000	.0000	.0000
%RSD	1.179	35.98	49.14	1375.	2.868	8.775	7.886

#1	.0001	.0000	-.0000	.0000	.0003	.0000	.0002
#2	.0000	.0000	-.0000	-.0000	.0003	.0000	.0003

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Avge	-.0000	.0001	-.0000	.0000	-.0000	-.0002	-.0111
SDev	.0000	.0000	.0000	.0000	.0000	.0000	.0001
%RSD	156.4	6.181	2843.	60.27	539.9	13.01	.6544

#1	-.0000	.0001	-.0000	.0000	.0000	-.0002	-.0110
#2	.0000	.0001	.0000	.0000	-.0000	-.0002	-.0111

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Avge	-.0000	-.0000	.0001	-.0000	.0001	.0000	-.0012
SDev	.0000	.0000	.0001	.0000	.0000	.0000	.0000
%RSD	3.859	47.50	215.2	178.6	42.87	42.80	.2814

#1	-.0000	-.0000	.0002	-.0000	.0001	.0000	-.0012
#2	-.0000	-.0000	-.0000	.0000	.0000	.0000	-.0012

Elem	Sc3613	1960/1	1960/2	Si2881	Sn1899	Sr4215	Th2837
Avge	88.64	-.0002	.0001	.0018	-.0000	.0000	.0000
SDev	.36	.0000	.0001	.0001	.0001	.0000	.0000
%RSD	.4115	9.773	53.84	3.570	519.3	.4097	61.54

#1	88.90	-.0002	.0001	.0018	-.0001	.0000	.0001
#2	88.39	-.0002	.0002	.0019	.0000	.0000	.0000

Elem	Ti3349	Tl1908	U_4090	V_2924	W_2079	Y_3710	Zn2062
Avge	-.0001	-.0003	-.0002	-.0000	.0002	-.0000	.0000
SDev	.0000	.0000	.0001	.0000	.0000	.0000	.0000
%RSD	41.43	11.74	32.25	5.780	2.807	427.6	4.467

#1	-.0001	-.0004	-.0002	-.0000	.0002	-.0000	.0000
#2	-.0001	-.0003	-.0002	-.0000	.0002	.0000	.0000

Elem	Zr3496
Avge	.0002
SDev	.0001
%RSD	54.45

Handwritten signature and date: 8/11/03



18 Aug 03

7.15.03

#1	.0002
#2	.0001

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	---	---	---	---	---	---
Wavlen	361.384	---	---	---	---	---	---
Avgc	886394	10000	---	---	---	---	---
SDev	3631.700	.0000000	---	---	---	---	---
%RSD	.4097163	.0000000	---	---	---	---	---
#1	888962	10000	---	---	---	---	---
#2	883826	10000	---	---	---	---	---

Standardization Rpt.

07/15/03 11:28:44 AM

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Method: DAILY2 Standard: clp_std4

Run Time: 07/15/03 11:24:37

Elem	Ag3280	As1890	2203/1	2203/2	Sb2068	1960/1	1960/2
Avge	.0817	.1389	.3751	.3161	.2071	.3141	.3103
SDev	.0000	.0000	.0014	.0014	.0007	.0002	.0004
%RSD	.0091	.0305	.3591	.4537	.3202	.0674	.1360

#1	.0817	.1389	.3760	.3171	.2067	.3143	.3100
#2	.0817	.1389	.3741	.3151	.2076	.3140	.3106

Elem	Tl1908
Avge	.2724
SDev	.0000
%RSD	.0052

#1	.2724
#2	.2724

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	892890	10000	--	--	--	--	--
SDev	5596.750	.0000000	--	--	--	--	--
%RSD	.6268133	.0000000	--	--	--	--	--
#1	888932	10000	--	--	--	--	--
#2	896847	10000	--	--	--	--	--

Standardization Rpt.

07/15/03 11:32:20 AM

page 1

Method: DAILY2 Standard: clp_std1

Run Time: 07/15/03 11:28:56

Elem	Al3082	Ca3179	Fe2714	K_7664	Li6707	Mg2790	Na3302
Avge	.1150	.2132	.1077	.1740	3.034	.0935	.0095
SDev	.0002	.0001	.0001	.0003	.007	.0000	.0000
%RSD	.1447	.0305	.0509	.1687	.2444	.0177	.2168

#1	.1151	.2133	.1077	.1742	3.039	.0935	.0095
#2	.1149	.2132	.1076	.1738	3.028	.0935	.0094

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	869802	10000	--	--	--	--	--
SDev	987.8282	.0000000	--	--	--	--	--
%RSD	.1135692	.0000000	--	--	--	--	--

#1	869104	10000	--	--	--	--	--
#2	870501	10000	--	--	--	--	--

Standardization Rpt.

07/15/03 11:35:56 AM

page 1

Method: DAILY2 Standard: clp_std5

Run Time: 07/15/03 11:32:32

Elem	B_2496	Bi2230	Mo2020	P_1782	Si2881	Sn1899	Sr4215
Avge	.1872	.0400	.4366	.0135	.1726	.1983	2.412
SDev	.0016	.0001	.0029	.0000	.0003	.0002	.002
%RSD	.8581	.2144	.6680	.2030	.1490	.0811	.0894

#1	.1861	.0401	.4345	.0135	.1728	.1982	2.411
#2	.1883	.0400	.4386	.0135	.1724	.1984	2.414

Elem	Ti3349
Avge	2.743
SDev	.003
%RSD	.0955

#1	2.741
#2	2.745

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	889304	10000	--	--	--	--	--
SDev	1906.360	.0000000	--	--	--	--	--
%RSD	.2143654	.0000000	--	--	--	--	--

#1	887956	10000	--	--	--	--	--
#2	890652	10000	--	--	--	--	--

Method: DAILY2 Standard: clp_std2
 Run Time: 07/15/03 11:36:08

Elem	Ba4934	Be3130	Cr2677	Cu3247	Ni2316
Avge	1.068	1.332	.4478	.3134	.4027
SDev	.001	.006	.0001	.0006	.0002
%RSD	.0525	.4857	.0341	.1873	.0394

#1	1.069	1.327	.4477	.3139	.4025
#2	1.068	1.336	.4479	.3130	.4028

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	894944	10000	--	--	--	--	--
SDev	6285.472	.0000000	--	--	--	--	--
%RSD	.7023310	.0000000	--	--	--	--	--
#1	890500	10000	--	--	--	--	--
#2	899389	10000	--	--	--	--	--

Standardization Rpt.

07/15/03 11:42:47 AM

page 1

Method: DAILY2 Standard: clp_std3

Run Time: 07/15/03 11:39:22

Elem	Cd2265	Co2286	Mn2576	V_2924	Zn2062
Avge	1.163	.2550	.9557	.2023	.3748
SDev	.001	.0001	.0001	.0002	.0006
%RSD	.0531	.0285	.0099	.0911	.1545

#1	1.164	.2550	.9556	.2022	.3743
#2	1.163	.2551	.9558	.2025	.3752

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	885438	10000	--	--	--	--	--
SDev	7641.703	.0000000	--	--	--	--	--
%RSD	.8630426	.0000000	--	--	--	--	--

#1	890841	10000	--	--	--	--	--
#2	880034	10000	--	--	--	--	--

Method: DAILY2 Standard: clp_std6
 Run Time: 07/15/03 11:42:59

Elem	La3988	Na5889	Pd3404	S_1820	Th2837	U_4090	W_2079
Avge	.4641	.0473	.2060	.0355	.1153	.0737	.1849
SDev	.0001	.0004	.0006	.0001	.0001	.0000	.0010
%RSD	.0139	.7829	.3128	.4213	.0919	.0323	.5413

#1	.4642	.0470	.2056	.0354	.1154	.0737	.1842
#2	.4641	.0476	.2065	.0356	.1152	.0737	.1856

Elem	Y_3710	Zr3496
Avge	.7774	1.903
SDev	.0010	.001
%RSD	.1324	.0300

#1	.7782	1.903
#2	.7767	1.902

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	904084	10000	--	--	--	--	--
SDev	2653.065	.0000000	--	--	--	--	--
%RSD	.2934533	.0000000	--	--	--	--	--
#1	905960	10000	--	--	--	--	--
#2	902208	10000	--	--	--	--	--

Method: DAILY2

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Ag3280	328.068	clp_std4	blk	24.4816	.000663	07/15/03 11:42:59
Al3082	308.215	clp_std1	blk	436.127	-.143917	07/15/03 11:42:59
As1890	189.042	clp_std4	blk	71.9606	.004142	07/15/03 11:42:59
B_2496	249.678	clp_std5	blk	53.4295	-.002261	07/15/03 11:42:59
Ba4934	493.409	clp_std2	blk	9.35921	.000222	07/15/03 11:42:59
Be3130	313.042	clp_std2	blk	3.75457	.000191	07/15/03 11:42:59
Bi2230	223.061	clp_std5	blk	123.924	-.004118	07/15/03 11:42:59
Ca3179	317.933	clp_std1	blk	234.567	-.011776	07/15/03 11:42:59
Cd2265	226.502	clp_std3	blk	8.59505	-.000170	07/15/03 11:42:59
Co2286	228.616	clp_std3	blk	39.2082	.000884	07/15/03 11:42:59
Cr2677	267.716	clp_std2	blk	22.3307	.000026	07/15/03 11:42:59
Cu3247	324.753	clp_std2	blk	31.9382	-.010881	07/15/03 11:42:59
Fe2714	271.441	clp_std1	blk	464.894	-.020189	07/15/03 11:42:59
K_7664	766.491	clp_std1	blk	287.796	-.070630	07/15/03 11:42:59
La3988	398.853	clp_std6	blk	21.5650	.000230	07/15/03 11:42:59
Li6707	670.784	clp_std1	blk	3.29649	-.000182	07/15/03 11:42:59
Mg2790	279.078	clp_std1	blk	267.208	.000142	07/15/03 11:42:59
Mn2576	257.610	clp_std3	blk	10.4642	-.000124	07/15/03 11:42:59
Mo2020	202.030	clp_std5	blk	22.9083	.000091	07/15/03 11:42:59
Na3302	330.232	clp_std1	blk	5189.78	.887259	07/15/03 11:42:59
Na5889	588.991	clp_std6	blk	17.2164	.190872	07/15/03 11:42:59
Ni2316	231.604	clp_std2	blk	24.8334	.000574	07/15/03 11:42:59
P_1782	178.287	clp_std5	blk	739.209	.002504	07/15/03 11:42:59
2203/1	220.351	clp_std4	blk	26.6659	-.001677	07/15/03 11:42:59
2203/2	220.352	clp_std4	blk	31.6318	.000409	07/15/03 11:42:59
Pd3404	340.458	clp_std6	blk	49.8484	-.003399	07/15/03 11:42:59
S_1820	182.040	clp_std6	blk	281.741	-.006363	07/15/03 11:42:59
Sb2068	206.838	clp_std4	blk	47.9904	.059664	07/15/03 11:42:59
Sc3613	361.384	blk	dark	1.12812	.000000	07/15/03 11:42:59
1960/1	196.021	clp_std4	blk	31.8227	.005422	07/15/03 11:42:59
1960/2	196.022	clp_std4	blk	32.2368	-.003513	07/15/03 11:42:59
Si2881	288.158	clp_std5	blk	58.3274	-.106016	07/15/03 11:42:59
Pb220	220.353	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
Se196	196.026	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
Sn1899	189.989	clp_std5	blk	50.4517	.000620	07/15/03 11:42:59
Sr4215	421.552	clp_std5	blk	4.14570	-.000023	07/15/03 11:42:59
Th2837	283.730	clp_std6	blk	90.5715	-.003266	07/15/03 11:42:59
Ti3349	334.941	clp_std5	blk	3.64553	.000383	07/15/03 11:42:59
Tl1908	190.864	clp_std4	blk	36.6621	.012033	07/15/03 11:42:59
U_4090	409.014	clp_std6	blk	143.106	.028315	07/15/03 11:42:59
V_2924	292.402	clp_std3	blk	49.4089	.002202	07/15/03 11:42:59
W_2079	207.914	clp_std6	blk	27.0682	-.006306	07/15/03 11:42:59
Y_3710	371.030	clp_std6	blk	12.8604	.000007	07/15/03 11:42:59
Zn2062	206.200	clp_std3	blk	26.6865	-.000437	07/15/03 11:42:59
Zr3496	349.621	clp_std6	blk	5.74527	-.000877	07/15/03 11:42:59

Analysis Report

QC Standard

07/15/03 11:53:17 AM

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Method: DAILY2 Sample Name: icv/ccv

Operator:

Run Time: 07/15/03 11:48:47

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9934	9.839	4.974	4.903	10.05	1.012	4.997
SDev	.0005	.015	.011	.018	.01	.000	.006
%RSD	.0486	.1507	.2185	.3669	.0734	.0414	.1151
#1	.9931	9.829	4.966	4.890	10.05	1.012	4.993
#2	.9937	9.850	4.982	4.916	10.06	1.012	5.001
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000	10.00	5.000	5.000	10.00	1.000	5.000
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.87	1.030	5.098	1.993	2.024	10.23	18.35
SDev	.00	.001	.001	.001	.001	.00	.02
%RSD	.0128	.0944	.0216	.0674	.0383	.0442	.0833
#1	19.87	1.029	5.097	1.994	2.025	10.22	18.34
#2	19.88	1.031	5.099	1.992	2.024	10.23	18.36
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	20.00	1.000	5.000	2.000	2.000	10.00	20.00
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.059	4.703	19.93	1.028	5.158	27.56	Q40.29
SDev	.004	.003	.01	.001	.028	.16	.04
%RSD	.0863	.0593	.0600	.0880	.5467	.5689	.0886
#1	5.062	4.701	19.92	1.027	5.138	27.67	Q40.26
#2	5.056	4.705	19.94	1.028	5.177	27.45	Q40.31
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	5.000	5.000	20.00	1.000	5.000	30.00	30.00
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.985	5.120	4.986	4.974	1.024	1.028	.9970
SDev	.005	.006	.007	.051	.006	.004	.0038
%RSD	.1090	.1242	.1478	1.034	.5848	.3945	.3853
#1	4.988	5.125	4.981	5.010	1.019	1.026	.9943
#2	4.981	5.116	4.991	4.937	1.028	1.031	.9998
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	5.000	5.000			1.000	1.000	1.000
Range	10.00	10.00			10.00	10.00	10.00
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899

Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	97.29	5.202	5.184	4.988	4.978	5.190	4.951
SDev	.25	.034	.041	.008	.032	.016	.007
%RSD	.2595	.6475	.7998	.1692	.6396	.3163	.1386
#1	97.47	5.178	5.213	4.982	5.000	5.201	4.956
#2	97.11	5.226	5.155	4.994	4.955	5.178	4.946
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass
Value				5.000	5.000	5.000	5.000
Range				10.00	10.00	10.00	10.00
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.062	1.017	4.847	5.199	.9839	5.038	01.253
SDev	.004	.003	.002	.010	.0065	.003	.003
%RSD	.0804	.2453	.0401	.1951	.6586	.0656	.2410
#1	5.059	1.016	4.846	5.191	.9885	5.036	01.251
#2	5.065	1.019	4.849	5.206	.9793	5.040	01.255
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	5.000	1.000	5.000	5.000	1.000	5.000	1.000
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avge	5.120	1.023	4.999				
SDev	.000	.001	.004				
%RSD	.0089	.0923	.0808				
#1	5.119	1.024	5.002				
#2	5.120	1.022	4.996				
Errors	QC Pass	QC Pass	QC Pass				
Value	5.000	1.000	5.000				
Range	10.00	10.00	10.00				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	862360	10000	--	--	--	--	--
SDev	2195.567	.0000000	--	--	--	--	--
%RSD	.2545999	.0000000	--	--	--	--	--
#1	863912	10000	--	--	--	--	--
#2	860807	10000	--	--	--	--	--

Method: DAILY2 Sample Name: icb/ccb

Operator:

Run Time: 07/15/03 11:55:19

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	.0024	.0010	.0090	.0002	.0001	-.0047
SDev	.0001	.0057	.0002	.0008	.0001	.0000	.0036
%RSD	20.08	235.0	20.45	8.963	43.13	4.702	76.00
#1	-.0003	-.0016	.0012	.0096	.0003	.0001	-.0022
#2	-.0003	.0064	.0009	.0084	.0002	.0001	L-.0072
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0050	.0500	.0050	.0050	.0050
Low	-.0050	-.0500	-.0050	-.0500	-.0050	-.0050	-.0050
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0060	-.0003	-.0002	.0001	.0007	-.0212	-.0075
SDev	.0007	.0000	.0001	.0004	.0001	.0033	.0000
%RSD	12.20	.1077	28.09	251.8	10.17	15.75	.3346
#1	.0065	-.0003	-.0003	.0004	.0007	-.0188	-.0075
#2	.0054	-.0003	-.0002	-.0001	.0006	-.0235	-.0074
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0500	.0050	.0050	.0050	.0050	.0250	.1000
Low	-.0500	-.0050	-.0050	-.0050	-.0050	-.0250	-.1000
Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	.0001	-.0040	.0001	.0033	-.0434	.0040
SDev	.0004	.0000	.0026	.0000	.0014	.0372	.0019
%RSD	357.2	37.90	65.22	24.27	42.89	85.87	46.38
#1	.0002	.0001	-.0022	.0002	.0043	L-.0697	.0027
#2	-.0004	.0001	-.0059	.0001	.0023	-.0170	.0053
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0050	.0500	.0050	.0050	.0500	.0500
Low	-.0050	-.0050	-.0500	-.0050	-.0050	-.0500	-.0500
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	-.0029	.0028	.0002	-.0016	.0061	-.0027
SDev	.0006	.0112	.0002	.0009	.0025	.0122	.0033
%RSD	80.93	384.3	6.282	422.1	157.8	200.2	122.7
#1	.0011	.0050	.0029	.0009	-.0034	H.0147	-.0050
#2	.0003	L-.0109	.0027	-.0004	.0002	-.0025	-.0004
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	.0050	.0100			.0050	.0100	.0100
Low	-.0050	-.0100			-.0050	-.0100	-.0100
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899

Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	99.72	-.0008	.0020	.0030	.0011	.0011	.0009
SDev	.05	.0017	.0023	.0015	.0007	.0021	.0007
%RSD	.0483	209.3	118.8	49.00	60.59	202.6	85.34
#1	99.75	.0004	.0036	.0020	.0016	.0026	.0014
#2	99.68	-.0020	.0003	.0041	.0006	-.0005	.0003
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High				.0100	.0030	.0050	.0050
Low				-.0100	-.0030	-.0050	-.0050
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079'
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0012	.0002	.0056	-.0135	.0004	-.0003
SDev	.0001	.0000	.0002	.0000	.0015	.0000	.0005
%RSD	91.56	3.464	136.8	.4985	10.90	5.878	203.2
#1	.0001	-.0012	.0003	.0056	-.0146	.0004	.0001
#2	.0000	-.0012	.0000	.0056	-.0125	.0004	-.0006
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0100	.0050	.0100	.1000	.0050	.0100
Low	-.0050	-.0100	-.0050	-.0100	-.1000	-.0050	-.0100
Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avg	.0001	.0004	.0002				
SDev	.0001	.0001	.0000				
%RSD	62.00	35.19	12.11				
#1	.0002	.0005	.0002				
#2	.0001	.0003	.0002				
Errors	LC Pass	LC Pass	LC Pass				
High	.0050	.0050	.0050				
Low	-.0050	-.0050	-.0050				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	---	---	---	---	---	---
Wavlen	361.384	---	---	---	---	---	---
Avge	883840	10000	---	---	---	---	---
SDev	347.8965	.0000000	---	---	---	---	---
%RSD	.0393619	.0000000	---	---	---	---	---
#1	884086	10000	---	---	---	---	---
#2	883594	10000	---	---	---	---	---

Analysis Report

07/15/03 12:04:30 PM

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Method: DAILY2 Sample Name: pbw-G15W1 pg54-102 Operator:
 Run Time: 07/15/03 12:00:00
 Comment:
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.0004	.0212	-.0024	.0089	.0000	.0000	-.0045
SDev	.0002	.0010	.0016	.0002	.0000	.0000	.0003
%RSD	50.06	4.597	65.58	1.973	33.61	5.030	6.710
#1	-.0003	.0206	-.0013	.0090	.0000	.0000	-.0047
#2	-.0005	.0219	-.0036	.0087	.0001	.0000	-.0043
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0050	.0500	.0050	.0050	.0050
Low	-.0050	-.0500	-.0050	-.0500	-.0050	-.0050	-.0050
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.0441	-.0000	-.0003	.0000	.0006	.0001	.0025
SDev	.0006	.0001	.0003	.0004	.0000	.0101	.0110
%RSD	1.260	1155.	119.5	18820.	3.140	9744.	440.2
#1	.0445	.0001	-.0000	-.0003	.0006	-.0071	-.0053
#2	.0437	-.0001	-.0005	.0003	.0006	.0073	.0102
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0500	.0050	.0050	.0050	.0050	.0250	.1000
Low	-.0500	-.0050	-.0050	-.0050	-.0050	-.0250	-.1000
Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.0000	.0001	.0049	.0000	.0009	L-.1039	-.0031
SDev	.0005	.0000	.0091	.0001	.0002	.0558	.0000
%RSD	2777.	3.320	185.4	100.2	26.67	53.74	.5344
#1	.0004	.0001	.0114	.0000	.0010	L-.0644	-.0031
#2	-.0003	.0001	-.0015	.0001	.0007	L-.1433	-.0031
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	.0050	.0050	.0500	.0050	.0050	.0500	.0500
Low	-.0050	-.0050	-.0500	-.0050	-.0050	-.0500	-.0500
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.0005	-.0023	.0014	.0006	.0003	.0002	-.0058
SDev	.0011	.0006	.0029	.0029	.0008	.0049	.0017
%RSD	237.4	27.55	212.8	506.8	230.7	3163.	29.77
#1	.0003	-.0019	-.0007	-.0015	-.0002	.0036	-.0070
#2	-.0012	-.0028	.0035	.0026	.0009	-.0033	-.0046
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	.0050	.0100			.0050	.0100	.0100
Low	-.0050	-.0100			-.0050	-.0100	-.0100
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899

Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	95.06	-.0027	.0004	.0047	.0009	-.0006	.0006
SDev	.42	.0014	.0019	.0006	.0029	.0008	.0007
%RSD	.4453	52.98	535.0	12.58	338.3	130.5	121.5
#1	95.36	-.0017	-.0010	.0043	-.0012	-.0012	.0011
#2	94.76	-.0037	.0017	.0051	.0029	-.0000	.0001
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High				.0100	.0030	.0050	.0050
Low				-.0100	-.0030	-.0050	-.0050
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0009	-.0000	.0009	-.0137	.0002	.0022
SDev	.0000	.0008	.0001	.0018	.0093	.0002	.0003
%RSD	2.767	95.67	800.5	200.7	68.24	87.14	13.38
#1	.0003	.0003	-.0001	-.0004	-.0071	.0003	.0025
#2	.0003	.0014	.0000	.0022	-.0202	.0001	.0020
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0100	.0050	.0100	.1000	.0050	.0100
Low	-.0050	-.0100	-.0050	-.0100	-.1000	-.0050	-.0100
Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avg	.0000	.0008	-.0000				
SDev	.0001	.0003	.0002				
%RSD	359.3	46.09	446.8				
#1	-.0000	.0010	-.0002				
#2	.0001	.0005	.0001				
Errors	LC Pass	LC Pass	LC Pass				
High	.0050	.0050	.0050				
Low	-.0050	-.0050	-.0050				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	842591	10000	--	--	--	--	--
SDev	3785.850	.00000000	--	--	--	--	--
%RSD	.4493105	.00000000	--	--	--	--	--
#1	845268	10000	--	--	--	--	--
#2	839914	10000	--	--	--	--	--

Method: DAILY2 Sample Name: lcsw-G15W1

Operator:

Run Time: 07/15/03 12:04:42

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0515	1.969	2.040	.0069	2.072	.0511	-.0067
SDev	.0003	.002	.001	.0007	.006	.0000	.0017
%RSD	.5582	.1015	.0369	9.528	.2724	.0637	25.18

#1	.0513	1.968	2.041	.0073	2.076	.0512	-.0079
#2	.0517	1.971	2.040	.0064	2.068	.0511	-.0055

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	20.00	.0518	.5134	.2031	.2555	1.090	16.79
SDev	.01	.0001	.0010	.0013	.0002	.012	.00
%RSD	.0383	.1990	.1895	.6191	.0869	1.068	.0297

#1	20.01	.0517	.5141	.2023	.2553	1.098	16.79
#2	20.00	.0519	.5127	.2040	.2556	1.082	16.79

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	.0003	20.12	.5167	.0004	17.56	25.48
SDev	.0000	.0001	.02	.0002	.0001	.00	.03
%RSD	22.97	25.21	.1188	.0398	16.00	.0021	.0995

#1	.0002	.0002	20.14	.5166	.0004	17.56	25.50
#2	.0001	.0003	20.11	.5168	.0003	17.56	25.46

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.5089	-.0005	.5083	.5063	.0021	.0138	.4947
SDev	.0012	.0177	.0011	.0008	.0000	.0051	.0037
%RSD	.2331	3298.	.2112	.1543	1.586	37.17	.7393

#1	.5098	.0120	.5075	.5069	.0022	.0101	.4921
#2	.5081	-.0130	.5091	.5057	.0021	.0174	.4973

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	93.49	2.077	2.101	.0126	.5070	2.093	-.0007
SDev	.25	.010	.003	.0016	.0002	.001	.0006
%RSD	.2637	.4664	.1446	12.39	.0321	.0575	75.67

#1	93.66	2.070	2.103	.0115	.5071	2.092	-.0011
#2	93.31	2.084	2.099	.0137	.5069	2.094	-.0003

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.144	-.0155	.0002	2.104	-.0306	.5124	.0021
SDev	.003	.0004	.0001	.001	.0020	.0009	.0001
%RSD	.0762	2.845	35.13	.0356	6.578	.1697	2.830

#1	4.147	-.0158	.0002	2.104	-.0321	.5131	.0020
#2	4.142	-.0152	.0001	2.105	-.0292	.5118	.0021

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avgc	-.0001	.5166	-.0002
SDev	.0000	.0001	.0003
%RSD	17.22	.0212	149.1

#1	-.0001	.5166	.0000
#2	-.0001	.5167	-.0005

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avgc	828649	10000	--	--	--	--	--
SDev	2217.487	.0000000	--	--	--	--	--
%RSD	.2676027	.0000000	--	--	--	--	--
#1	830217	10000	--	--	--	--	--
#2	827081	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: 230259

Operator:

Run Time: 07/15/03 12:09:23

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0217	.0017	.0257	.0789	.0000	-.0014
SDev	.0004	.0029	.0006	.0005	.0001	.0000	.0016
%RSD	315.6	13.34	36.56	1.858	.1527	23840.	113.8

#1	-.0004	.0197	.0012	.0260	.0788	-.0000	-.0025
#2	.0002	.0238	.0021	.0253	.0790	.0000	-.0003

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	29.25	-.0000	.0004	.0004	.0012	-.0053	.5954
SDev	.07	.0002	.0001	.0003	.0000	.0057	.0031
%RSD	.2360	1135.	32.25	73.43	3.369	109.1	.5267

#1	29.20	-.0002	.0003	.0002	.0012	-.0012	.5931
#2	29.30	.0001	.0005	.0007	.0011	-.0093	.5976

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0002	.0039	.0001	.0007	4.100	5.739
SDev	.0000	.0000	.0020	.0000	.0005	.087	.014
%RSD	14.65	12.08	50.96	6.419	78.75	2.129	.2400

#1	.0000	.0002	.0025	.0001	.0011	4.038	5.749
#2	.0000	.0002	.0053	.0001	.0003	4.161	5.730

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0333	.0024	.0010	.0000	.0134	-.0041
SDev	.0001	.0064	.0027	.0008	.0006	.0070	.0005
%RSD	32.13	19.15	114.1	78.03	1581.	52.40	13.06

#1	.0005	.0288	.0043	.0005	.0005	.0183	-.0037
#2	.0003	.0379	.0005	.0016	-.0004	.0084	-.0044

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	94.73	-.0011	.0020	.0672	.0015	.0010	.0015
SDev	.51	.0042	.0003	.0039	.0004	.0012	.0011
%RSD	.5436	377.8	14.80	5.790	26.21	124.2	72.32

#1	95.09	-.0041	.0022	.0645	.0018	.0001	.0007
#2	94.36	.0019	.0018	.0700	.0012	.0018	.0023

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0056	.0005	.0000	.0030	-.0198	.0005	.0006
SDev	.0000	.0015	.0000	.0018	.0119	.0001	.0001
%RSD	.7599	309.3	46.49	60.62	60.21	21.47	14.96

#1	.0057	-.0006	.0000	.0043	-.0282	.0004	.0007
#2	.0056	.0015	.0000	.0017	-.0114	.0006	.0006

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avge	-.0001	.0109	-.0001
SDev	.0000	.0001	.0002
%RSD	19.20	.6674	321.8

#1	-.0001	.0110	-.0002
#2	-.0001	.0109	.0001

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	839654	10000	--	--	--	--	--
SDev	4564.374	.0000000	--	--	--	--	--
%RSD	.5436015	.0000000	--	--	--	--	--

#1	842882	10000	--	--	--	--	--
#2	836427	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: 230259D

Operator:

Run Time: 07/15/03 12:14:05

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	.0231	.0023	.0247	.0784	.0000	-.0055
SDev	.0005	.0022	.0009	.0000	.0001	.0000	.0043
%RSD	75.50	9.747	38.27	.1063	.0874	107.8	78.06
#1	.0010	.0246	.0017	.0247	.0783	.0000	-.0025
#2	.0003	.0215	.0029	.0247	.0784	.0000	-.0085
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	29.08	.0000	.0005	-.0000	.0016	-.0031	.5915
SDev	.08	.0004	.0000	.0004	.0001	.0122	.0015
%RSD	.2920	7652.	1.154	1579.	4.084	397.8	.2505
#1	29.14	.0003	.0005	.0003	.0015	-.0117	.5926
#2	29.02	-.0003	.0005	-.0003	.0016	.0055	.5905
Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	.0003	.0046	.0001	-.0002	4.176	5.713
SDev	.0005	.0000	.0060	.0000	.0006	.215	.012
%RSD	554.2	.3566	132.0	40.56	243.2	5.152	.2143
#1	.0005	.0003	.0088	.0001	.0002	4.328	5.704
#2	-.0003	.0003	.0003	.0001	-.0006	4.023	5.721
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0000	.0293	.0018	.0004	-.0004	.0177	-.0016
SDev	.0003	.0105	.0042	.0022	.0003	.0037	.0018
%RSD	639.4	35.92	239.8	571.2	60.75	21.09	115.4
#1	-.0001	.0218	.0047	.0019	-.0002	.0151	-.0029
#2	.0002	.0367	-.0012	-.0012	-.0006	.0203	-.0003
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	94.99	-.0011	.0017	.0656	.0008	.0008	.0013
SDev	.22	.0024	.0001	.0011	.0029	.0007	.0003
%RSD	.2297	210.5	5.152	1.645	335.7	97.60	24.94
#1	94.83	.0006	.0016	.0663	.0029	.0013	.0016
#2	95.14	-.0028	.0017	.0648	-.0012	.0002	.0011
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0055	-.0012	.0001	.0043	.0119	.0003	-.0017
SDev	.0000	.0002	.0001	.0016	.0293	.0003	.0020
%RSD	.7145	17.04	147.4	37.78	246.8	79.97	119.4
#1	.0056	-.0014	.0001	.0055	.0326	.0005	-.0003
#2	.0055	-.0011	-.0000	.0032	-.0088	.0001	-.0031

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avge	-.0001	.0110	.0003
SDev	.0000	.0001	.0002
%RSD	79.78	1.042	59.56

#1	-.0000	.0111	.0004
#2	-.0001	.0110	.0002

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	841898	10000	--	--	--	--	--
SDev	1884.440	.0000000	--	--	--	--	--
%RSD	.2238324	.0000000	--	--	--	--	--
#1	840565	10000	--	--	--	--	--
#2	843230	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: 230260
 Run Time: 07/15/03 12:18:46
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0000	.0219	-.0006	.0213	.0763	.0000	-.0035
SDev	.0005	.0031	.0007	.0001	.0001	.0000	.0042
XRSD	29980.	14.27	101.3	.5585	.1331	77.53	119.1
#1	.0003	.0197	-.0011	.0214	.0764	.0000	-.0006
#2	-.0003	.0241	-.0002	.0212	.0762	.0001	-.0065
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	29.60	-.0002	.0002	.0003	.0013	-.0104	.2625
SDev	.09	.0001	.0006	.0002	.0000	.0040	.0012
XRSD	.2905	67.27	304.3	56.76	1.444	38.28	.4579
#1	29.66	-.0001	.0006	.0004	.0013	-.0132	.2634
#2	29.54	-.0003	-.0002	.0002	.0014	-.0076	.2617
Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	.0001	.0027	.0002	.0003	4.099	5.739
SDev	.0004	.0000	.0000	.0001	.0005	.036	.006
XRSD	74.96	7.419	1.523	72.82	183.2	.8843	.1028
#1	.0009	.0001	.0028	.0002	.0006	4.073	5.743
#2	.0003	.0001	.0027	.0001	-.0001	4.124	5.735
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0017	.0170	-.0000	-.0011	-.0015	.0131	-.0031
SDev	.0008	.0007	.0021	.0014	.0006	.0015	.0025
XRSD	45.66	4.056	15110.	124.2	41.50	11.63	81.58
#1	.0011	.0175	-.0015	-.0021	-.0011	.0142	-.0013
#2	.0022	.0165	.0015	-.0001	-.0020	.0120	-.0049
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	94.72	.0005	-.0005	.0523	-.0007	-.0001	.0002
SDev	.48	.0022	.0004	.0034	.0016	.0004	.0000
XRSD	.5058	440.3	91.20	6.402	222.2	331.1	16.24
#1	94.38	-.0010	-.0002	.0499	-.0019	-.0004	.0003
#2	95.06	.0020	-.0008	.0547	.0004	.0002	.0002
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0056	.0023	.0001	.0007	-.0063	.0012	-.0005
SDev	.0000	.0016	.0001	.0047	.0067	.0003	.0004
XRSD	.3809	70.57	61.48	708.6	105.7	24.90	76.60
#1	.0056	.0035	.0002	-.0027	-.0016	.0014	-.0002
#2	.0056	.0012	.0001	.0040	-.0111	.0010	-.0008

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	-.0001	.0120	.0001
SDev	.0000	.0001	.0006
%RSD	26.15	1.274	459.7

#1	-.0001	.0121	.0006
#2	-.0001	.0119	-.0003

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	839622	10000	--	--	--	--	--
SDev	4251.833	.0000000	--	--	--	--	--
%RSD	.5063988	.0000000	--	--	--	--	--
#1	836615	10000	--	--	--	--	--
#2	842628	10000	--	--	--	--	--

Method: DAILY2 Sample Name: 2302606
 Run Time: 07/15/03 12:23:27
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0518	1.999	2.072	.0206	2.164	.0515	-.0049
SDev	.0004	.005	.001	.0015	.001	.0000	.0003
%RSD	.8403	.2265	.0330	7.417	.0466	.0241	6.548
#1	.0515	1.996	2.071	.0195	2.163	.0515	-.0051
#2	.0521	2.002	2.072	.0217	2.164	.0515	-.0046
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	50.28	.0519	.5192	.2065	.2589	1.097	18.42
SDev	.06	.0001	.0001	.0004	.0003	.008	.02
%RSD	.1271	.1060	.0221	.1801	.1217	.7386	.1035
#1	50.32	.0519	.5193	.2067	.2587	1.103	18.44
#2	50.23	.0520	.5192	.2062	.2591	1.092	18.41
Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	.0004	20.67	.5213	-.0004	23.35	33.86
SDev	.0003	.0001	.01	.0004	.0003	.05	.06
%RSD	62.99	12.72	.0618	.0742	80.70	.2195	.1809
#1	.0007	.0003	20.66	.5211	-.0002	23.39	33.91
#2	.0003	.0004	20.68	.5216	-.0006	23.31	33.82
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.5116	.0145	.5127	.5146	.0013	.0263	.5035
SDev	.0003	.0020	.0005	.0029	.0013	.0040	.0028
%RSD	.0586	13.66	.0964	.5679	97.93	15.42	.5535
#1	.5114	.0131	.5124	.5167	.0004	.0234	.5016
#2	.5118	.0159	.5131	.5125	.0022	.0292	.5055
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	91.11	2.121	2.152	.0668	.5140	2.142	.0004
SDev	.30	.005	.003	.0032	.0018	.000	.0003
%RSD	.3327	.2394	.1270	4.716	.3470	.0060	74.58
#1	91.33	2.117	2.154	.0646	.5152	2.142	.0006
#2	90.90	2.124	2.150	.0690	.5127	2.142	.0002
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.259	-.0136	.0002	2.144	-.0389	.5198	.0042
SDev	.001	.0004	.0000	.000	.0036	.0017	.0001
%RSD	.0342	2.849	20.53	.0070	9.343	.3244	2.397
#1	4.258	-.0139	.0002	2.144	-.0363	.5210	.0041
#2	4.260	-.0133	.0002	2.144	-.0414	.5186	.0042

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	-.0001	.5293	.0002
SDev	.0001	.0000	.0001
%RSD	96.31	.0048	74.10

#1	-.0000	.5293	.0003
#2	-.0001	.5293	.0001

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	807648	10000	--	--	--	--	--
SDev	2710.340	.0000000	--	--	--	--	--
%RSD	.3355845	.0000000	--	--	--	--	--
#1	809564	10000	--	--	--	--	--
#2	805731	10000	--	--	--	--	--

Method: DAILY2 Sample Name: 230261

Operator:

Run Time: 07/15/03 12:28:08

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	.0171	.0025	.0187	.0950	.0000	-.0049
SDev	.0008	.0037	.0015	.0005	.0001	.0000	.0003
%RSD	308.9	21.48	61.67	2.567	.0536	8.881	6.242

#1	.0008	.0197	.0036	.0184	.0950	.0000	-.0052
#2	-.0003	.0145	.0014	.0191	.0949	.0000	-.0047

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	7.861	-.0000	.0009	.0006	.0024	.0032	.2209
SDev	.019	.0001	.0001	.0008	.0005	.0033	.0006
%RSD	.2479	656.2	7.612	138.8	22.44	102.7	.2884

#1	7.875	-.0001	.0008	.0012	.0028	.0009	.2214
#2	7.848	.0001	.0009	.0000	.0020	.0055	.2205

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0004	.0002	.0023	.0001	-.0005	4.593	6.250
SDev	.0000	.0000	.0062	.0001	.0003	.141	.006
%RSD	11.16	6.336	265.6	58.18	58.77	3.074	.0996

#1	.0003	.0002	.0067	.0002	-.0003	4.693	6.246
#2	.0004	.0002	-.0020	.0001	-.0006	4.493	6.254

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	.0126	.0007	.0034	.0004	.0221	-.0038
SDev	.0006	.0154	.0022	.0009	.0007	.0082	.0015
%RSD	171.2	123.0	328.9	25.90	193.1	37.33	39.21

#1	.0007	.0235	-.0009	.0040	.0009	.0279	-.0028
#2	-.0001	.0016	.0022	.0028	-.0001	.0162	-.0049

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	95.55	-.0037	.0013	.0484	.0025	-.0004	.0007
SDev	.05	.0030	.0006	.0016	.0001	.0006	.0005
%RSD	.0513	79.46	48.52	3.227	5.767	157.8	74.08

#1	95.52	-.0058	.0018	.0495	.0024	-.0008	.0003
#2	95.59	-.0016	.0009	.0473	.0026	.0000	.0010

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0025	-.0001	.0001	.0026	-.0133	.0003	.0018
SDev	.0000	.0014	.0002	.0010	.0031	.0004	.0019
%RSD	1.296	1022.	153.8	37.05	23.63	126.4	107.6

#1	.0025	.0008	.0002	.0033	-.0155	.0006	.0031
#2	.0025	-.0011	-.0000	.0019	-.0110	.0000	.0004

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avge	.0000	.0068	.0000
SDev	.0001	.0001	.0005
%RSD	653.3	1.361	9898.

#1	.0001	.0069	.0004
#2	-.0001	.0067	-.0004

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	846956	10000	--	--	--	--	--
SDev	455.3768	.0000000	--	--	--	--	--
%RSD	.0537663	.0000000	--	--	--	--	--
#1	846634	10000	--	--	--	--	--
#2	847278	10000	--	--	--	--	--

Method: DAILY2 Sample Name: 230262

Operator:

Run Time: 07/15/03 12:32:50

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	.0207	.0024	.0138	.0506	.0001	-.0049
SDev	.0003	.0027	.0005	.0007	.0000	.0000	.0021
%RSD	399.0	13.24	22.17	4.993	.0558	41.50	43.24

#1	-.0002	.0226	.0028	.0142	.0507	.0000	-.0063
#2	.0003	.0187	.0021	.0133	.0506	.0001	-.0034

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	7.914	-.0002	.0001	.0005	.0015	-.0055	.2132
SDev	.001	.0002	.0004	.0001	.0001	.0027	.0111
%RSD	.0067	104.2	393.4	25.96	4.015	48.78	5.200

#1	7.913	-.0003	-.0002	.0004	.0016	-.0036	.2054
#2	7.914	-.0000	.0004	.0005	.0015	-.0073	.2211

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	.0002	.0032	.0001	-.0005	4.462	5.978
SDev	.0003	.0000	.0017	.0001	.0012	.125	.021
%RSD	157.6	17.46	52.83	65.55	261.5	2.804	.3526

#1	-.0000	.0002	.0020	.0000	.0004	4.551	5.993
#2	.0005	.0003	.0043	.0001	-.0013	4.374	5.964

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	-.0051	.0030	-.0006	-.0017	.0097	-.0062
SDev	.0006	.0095	.0030	.0035	.0016	.0085	.0010
%RSD	371.8	186.6	101.1	603.9	90.70	87.43	15.23

#1	-.0003	.0016	.0051	-.0031	-.0029	.0037	-.0069
#2	.0006	-.0118	.0009	.0019	-.0006	.0157	-.0056

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	94.04	-.0004	.0018	.0478	.0006	.0011	.0012
SDev	.76	.0012	.0022	.0008	.0013	.0011	.0001
%RSD	.8078	315.6	123.9	1.660	210.0	100.9	7.744

#1	94.58	.0005	.0002	.0484	-.0003	.0003	.0011
#2	93.50	-.0012	.0034	.0473	.0016	.0019	.0012

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0024	-.0003	-.0000	.0004	.0024	.0005	-.0001
SDev	.0000	.0001	.0001	.0044	.0007	.0001	.0015
%RSD	.5251	35.84	331.3	1152.	29.11	10.64	1094.

#1	.0024	-.0002	-.0001	.0035	.0029	.0005	-.0012
#2	.0024	-.0004	.0000	-.0027	.0019	.0006	.0009

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	.0001	.0051	.0001
SDev	.0000	.0000	.0001
%RSD	40.16	.4648	99.64

#1	.0001	.0051	.0002
#2	.0000	.0050	.0000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	833540	10000	--	--	--	--	--
SDev	6752.163	.0000000	--	--	--	--	--
%RSD	.8100591	.0000000	--	--	--	--	--
#1	838314	10000	--	--	--	--	--
#2	828765	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: 230263

Operator:

Run Time: 07/15/03 12:37:32

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	.0201	.0004	.0187	.0830	.0001	-.0037
SDev	.0004	.0029	.0005	.0002	.0000	.0000	.0042
%RSD	304.0	14.37	114.2	1.138	.0097	67.91	112.6

#1	-.0002	.0222	.0001	.0189	.0830	.0000	-.0008
#2	.0005	.0181	.0008	.0186	.0830	.0001	-.0067

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.271	-.0002	.0006	.0001	.0012	-.0098	.2898
SDev	.003	.0000	.0000	.0002	.0000	.0000	.0138
%RSD	.1488	25.87	5.046	228.2	2.326	.4055	4.766

#1	2.268	-.0001	.0005	-.0001	.0012	-.0098	.2800
#2	2.273	-.0002	.0006	.0003	.0012	-.0098	.2995

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	.0002	.0060	.0000	-.0009	6.116	8.089
SDev	.0008	.0001	.0034	.0000	.0003	.217	.060
%RSD	309.9	36.67	56.58	60.70	34.93	3.551	.7394

#1	-.0003	.0001	.0036	.0000	-.0006	5.962	8.131
#2	.0008	.0002	.0084	.0001	-.0011	6.270	8.046

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0012	.0104	.0056	.0011	.0001	.0232	-.0037
SDev	.0015	.0086	.0001	.0004	.0021	.0001	.0005
%RSD	126.4	83.15	1.939	33.10	2238.	.5657	12.55

#1	.0023	.0165	.0055	.0014	-.0014	.0233	-.0033
#2	.0001	.0043	.0056	.0008	.0016	.0231	-.0040

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	94.53	.0010	.0010	.0678	.0026	.0010	.0024
SDev	1.07	.0003	.0010	.0007	.0002	.0005	.0011
%RSD	1.135	32.46	101.3	1.077	7.977	53.44	45.03

#1	95.29	.0008	.0016	.0673	.0028	.0014	.0016
#2	93.77	.0013	.0003	.0683	.0025	.0006	.0032

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0016	.0016	.0001	.0026	-.0104	.0005	.0003
SDev	.0000	.0014	.0001	.0002	.0028	.0004	.0031
%RSD	.7198	90.55	41.50	6.633	27.29	85.57	933.0

#1	.0016	.0006	.0001	.0025	-.0124	.0002	-.0019
#2	.0016	.0026	.0002	.0028	-.0084	.0008	.0025

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	.0001	.0033	-.0002
SDev	.0000	.0001	.0004
%RSD	52.04	3.321	181.9

#1	.0001	.0032	-.0005
#2	.0000	.0033	.0001

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	837882	10000	--	--	--	--	--
SDev	9518.364	.0000000	--	--	--	--	--
%RSD	1.136004	.0000000	--	--	--	--	--

#1	844612	10000	--	--	--	--	--
#2	831151	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: 230264

Operator:

Run Time: 07/15/03 12:42:13

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0455	.0024	.0134	.0586	.0001	-.0038
SDev	.0001	.0029	.0003	.0005	.0001	.0000	.0008
%RSD	52.99	6.290	11.74	3.665	.0923	10.01	19.93

#1	.0003	.0435	.0026	.0138	.0585	.0001	-.0043
#2	.0001	.0476	.0022	.0131	.0586	.0001	-.0032

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.310	-.0002	.0000	.0002	.0019	.0057	.2010
SDev	.000	.0001	.0006	.0001	.0004	.0178	.0038
%RSD	.0152	35.95	76420.	29.57	21.25	312.2	1.891

#1	2.310	-.0002	-.0004	.0002	.0016	.0183	.2037
#2	2.310	-.0001	.0004	.0001	.0022	-.0069	.1984

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0002	-.0006	.0001	-.0005	5.764	7.800
SDev	.0007	.0000	.0067	.0000	.0004	.196	.017
%RSD	230.0	13.12	1122.	6.353	68.52	3.401	.2180

#1	-.0008	.0002	-.0053	.0001	-.0008	5.902	7.788
#2	.0002	.0002	.0041	.0001	-.0003	5.625	7.812

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0134	.0018	-.0009	-.0003	.0880	-.0048
SDev	.0002	.0030	.0009	.0014	.0023	.0064	.0029
%RSD	159.0	22.66	49.31	148.7	715.0	7.271	60.87

#1	.0003	.0156	.0011	.0000	.0013	.0835	-.0027
#2	-.0000	.0113	.0024	-.0019	-.0019	.0925	-.0068

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	95.49	-.0001	.0007	.0707	-.0000	.0005	.0016
SDev	.53	.0004	.0014	.0037	.0006	.0008	.0007
%RSD	.5528	789.6	194.4	5.153	2728.	166.1	42.83

#1	95.86	-.0004	.0017	.0682	.0004	.0010	.0021
#2	95.12	.0003	-.0003	.0733	-.0005	-.0001	.0011

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015	-.0009	.0000	-.0020	-.0119	.0002	.0004
SDev	.0000	.0011	.0000	.0001	.0251	.0005	.0014
%RSD	1.413	121.0	59.71	2.543	211.8	236.6	315.7

#1	.0015	-.0001	.0001	-.0021	-.0296	.0006	.0014
#2	.0016	-.0017	.0000	-.0020	.0059	-.0001	-.0005

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	.0000	.0044	.0001
SDev	.0001	.0001	.0002
%RSD	462.1	2.618	335.8

#1	-.0001	.0044	.0002
#2	.0001	.0045	-.0001

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	846394	10000	--	--	--	--	--
SDev	4637.206	.0000000	--	--	--	--	--
%RSD	.5478780	.0000000	--	--	--	--	--

#1	849673	10000	--	--	--	--	--
#2	843115	10000	--	--	--	--	--

Analysis Report

QC Standard

07/15/03 12:55:05 PM

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Method: DAILY2 Sample Name: icv/ccv

Operator:

Run Time: 07/15/03 12:50:35

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9936	9.833	4.975	4.889	10.05	1.009	4.960
SDev	.0001	.002	.002	.020	.00	.001	.002
%RSD	.0154	.0173	.0497	.4122	.0084	.0764	.0336
#1	.9937	9.831	4.974	4.875	10.05	1.010	4.959
#2	.9935	9.834	4.977	4.904	10.05	1.008	4.961
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000	10.00	5.000	5.000	10.00	1.000	5.000
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	19.72	1.024	5.082	1.985	2.030	10.15	18.41
SDev	.02	.001	.001	.001	.001	.01	.00
%RSD	.0889	.0503	.0168	.0736	.0657	.0984	.0172
#1	19.73	1.023	5.083	1.984	2.029	10.14	18.41
#2	19.71	1.024	5.082	1.986	2.031	10.15	18.40
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	20.00	1.000	5.000	2.000	2.000	10.00	20.00
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.055	4.707	19.82	1.027	5.166	27.60	040.50
SDev	.005	.001	.03	.000	.020	.22	.00
%RSD	.0987	.0212	.1610	.0336	.3907	.8079	.0034
#1	5.059	4.708	19.84	1.027	5.152	27.76	040.50
#2	5.052	4.707	19.80	1.027	5.180	27.45	040.50
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	5.000	5.000	20.00	1.000	5.000	30.00	30.00
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.951	5.307	4.934	4.975	1.021	1.050	.9996
SDev	.015	.010	.013	.031	.001	.026	.0001
%RSD	.2993	.1958	.2552	.6306	.0800	2.453	.0154
#1	4.962	5.300	4.943	4.997	1.021	1.032	.9995
#2	4.941	5.315	4.925	4.953	1.020	1.068	.9997
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	5.000	5.000			1.000	1.000	1.000
Range	10.00	10.00			10.00	10.00	10.00
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899

Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	97.52	5.174	5.225	5.001	4.961	5.208	4.954
SDev	.01	.012	.018	.006	.025	.016	.003
%RSD	.0146	.2325	.3491	.1180	.5061	.3105	.0617
#1	97.53	5.183	5.238	4.997	4.979	5.220	4.952
#2	97.51	5.166	5.213	5.005	4.943	5.197	4.956
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass
Value				5.000	5.000	5.000	5.000
Range				10.00	10.00	10.00	10.00
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.054	1.011	4.841	5.200	.9878	5.018	01.246
SDev	.005	.000	.000	.018	.0084	.000	.003
%RSD	.1082	.0346	.0062	.3439	.8506	.0095	.2331
#1	5.050	1.011	4.841	5.187	.9938	5.018	01.249
#2	5.058	1.011	4.841	5.213	.9819	5.019	01.244
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	5.000	1.000	5.000	5.000	1.000	5.000	1.000
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avge	5.105	1.018	5.010				
SDev	.006	.000	.003				
%RSD	.1082	.0469	.0686				
#1	5.109	1.019	5.007				
#2	5.101	1.018	5.012				
Errors	QC Pass	QC Pass	QC Pass				
Value	5.000	1.000	5.000				
Range	10.00	10.00	10.00				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	864323	10000	--	--	--	--	--
SDev	115.9655	.0000000	--	--	--	--	--
%RSD	.0134169	.0000000	--	--	--	--	--
#1	864405	10000	--	--	--	--	--
#2	864241	10000	--	--	--	--	--

Method: DAILY2 Sample Name: icb/ccb

Operator:

Run Time: 07/15/03 12:57:07

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0033	.0028	.0076	.0001	.0001	-.0028
SDev	.0000	.0013	.0020	.0006	.0000	.0000	.0016
%RSD	230.3	40.09	70.73	7.765	19.03	16.67	55.78

#1	.0000	.0043	.0014	.0080	.0001	.0001	-.0040
#2	-.0000	.0024	.0042	.0072	.0001	.0001	-.0017

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0050	.0500	.0050	.0050	.0050
Low	-.0050	-.0500	-.0050	-.0500	-.0050	-.0050	-.0050

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061	-.0001	.0005	-.0000	.0004	-.0037	.0058
SDev	.0004	.0004	.0003	.0007	.0000	.0012	.0120
%RSD	6.338	428.7	68.84	2740.	10.13	31.68	206.0

#1	.0064	.0002	.0007	.0005	.0004	-.0045	-.0026
#2	.0059	-.0003	.0003	-.0005	.0004	-.0028	.0142

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0500	.0050	.0050	.0050	.0050	.0250	.1000
Low	-.0500	-.0050	-.0050	-.0050	-.0050	-.0250	-.1000

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0002	-.0015	.0000	.0035	-.0164	.0082
SDev	.0007	.0000	.0010	.0000	.0005	.1711	.0029
%RSD	127.5	2.848	63.24	272.0	15.30	1046.	35.39

#1	.0010	.0002	-.0008	-.0000	.0039	L-.1373	.0061
#2	.0001	.0002	-.0022	.0000	.0031	H.1046	.0102

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0050	.0500	.0050	.0050	.0500	.0500
Low	-.0050	-.0050	-.0500	-.0050	-.0050	-.0500	-.0500

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	H.0101	.0045	.0004	-.0021	.0007	-.0041
SDev	.0001	.0072	.0029	.0005	.0014	.0018	.0048
%RSD	14.01	71.01	65.92	132.2	67.51	253.9	115.2

#1	.0005	.0050	.0065	.0000	-.0032	.0020	-.0008
#2	.0006	H.0152	.0024	.0007	-.0011	-.0006	-.0075

Errors	LC Pass	LC High	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	.0050	.0100			.0050	.0100	.0100
Low	-.0050	-.0100			-.0050	-.0100	-.0100

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
------	--------	--------	--------	--------	-------	-------	--------

Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	98.78	-.0011	.0019	.0039	.0018	.0009	.0005
SDev	.13	.0031	.0001	.0006	.0006	.0010	.0027
%RSD	.1270	272.8	3.041	15.49	37.30	113.3	495.7
#1	98.87	-.0033	.0019	.0035	.0022	.0002	.0024
#2	98.69	.0011	.0018	.0043	.0013	.0016	-.0013
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High				.0100	.0030	.0050	.0050
Low				-.0100	-.0030	-.0050	-.0050
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0009	.0001	.0071	-.0087	.0008	.0012
SDev	.0000	.0013	.0000	.0006	.0085	.0004	.0023
%RSD	72.41	143.8	11.32	8.230	97.42	54.15	202.0
#1	.0001	.0018	.0002	.0067	-.0027	.0005	.0028
#2	.0000	-.0000	.0001	.0075	-.0147	.0011	-.0005
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0100	.0050	.0100	.1000	.0050	.0100
Low	-.0050	-.0100	-.0050	-.0100	-.1000	-.0050	-.0100
Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avg	.0000	.0003	.0001				
SDev	.0000	.0000	.0005				
%RSD	105.5	14.15	374.3				
#1	.0000	.0003	.0005				
#2	.0001	.0003	-.0002				
Errors	LC Pass	LC Pass	LC Pass				
High	.0050	.0050	.0050				
Low	-.0050	-.0050	-.0050				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	875556	10000	--	--	--	--	--
SDev	1079.752	.0000000	--	--	--	--	--
%RSD	.1233219	.0000000	--	--	--	--	--
#1	876319	10000	--	--	--	--	--
#2	874792	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: 230265
 Run Time: 07/15/03 13:01:48
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.0000	.0208	.0014	.0262	.1007	.0001	-.0040
SDev	.0003	.0005	.0033	.0005	.0001	.0000	.0019
%RSD	620.2	2.555	242.4	1.963	.0849	4.514	47.29

#1	-.0002	.0212	.0037	.0266	.1008	.0001	-.0053
#2	.0002	.0204	-.0010	.0259	.1007	.0001	-.0026

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.8012	-.0002	.0000	-.0002	.0014	.0045	.2980
SDev	.0007	.0002	.0010	.0003	.0000	.0210	.0028
%RSD	.0914	135.9	2195.	165.9	2.786	469.1	.9259

#1	.8007	-.0004	.0007	.0000	.0014	-.0104	.2961
#2	.8017	-.0000	-.0006	-.0005	.0014	.0193	.3000

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.0002	.0002	.0024	.0001	.0007	8.531	11.59
SDev	.0003	.0000	.0015	.0001	.0002	.353	.00
%RSD	160.1	16.72	62.56	66.38	35.27	4.141	.0175

#1	.0000	.0002	.0035	.0002	.0008	8.281	11.59
#2	-.0003	.0003	.0014	.0001	.0005	8.781	11.59

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.0007	.0153	.0027	-.0012	-.0004	.0133	-.0035
SDev	.0003	.0119	.0022	.0014	.0031	.0031	.0009
%RSD	38.93	77.46	81.97	115.5	841.3	23.43	25.72

#1	.0009	.0237	.0043	-.0023	-.0026	.0111	-.0029
#2	.0005	.0069	.0011	-.0002	.0018	.0155	-.0041

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	94.33	-.0038	.0009	.0709	.0001	-.0007	.0000
SDev	.08	.0039	.0013	.0018	.0002	.0005	.0005
%RSD	.0818	104.1	146.2	2.526	218.4	68.56	963.6

#1	94.38	-.0010	-.0000	.0696	-.0001	-.0003	-.0003
#2	94.27	-.0065	.0018	.0721	.0002	-.0010	.0004

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.0013	-.0009	.0001	.0010	-.0060	.0003	.0013
SDev	.0000	.0009	.0000	.0004	.0027	.0009	.0031
%RSD	1.722	108.1	40.42	37.00	45.74	306.4	237.3

#1	.0013	-.0002	.0001	.0007	-.0080	.0009	.0035
#2	.0013	-.0015	.0001	.0012	-.0041	-.0003	-.0009

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avge	.0001	.0022	.0000
SDev	.0000	.0001	.0001
%RSD	35.66	4.293	107.4

#1	.0001	.0021	.0000
#2	.0001	.0022	.0001

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	836082	10000	--	--	--	--	--
SDev	737.5124	.0000000	--	--	--	--	--
%RSD	.0882106	.0000000	--	--	--	--	--
#1	836603	10000	--	--	--	--	--
#2	835560	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: 230266
 Run Time: 07/15/03 13:06:29
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	.0145	.0007	.0222	.0947	.0001	-.0046
SDev	.0004	.0018	.0005	.0003	.0000	.0000	.0017
%RSD	154.8	12.62	72.22	1.267	.0266	24.66	37.64
#1	.0000	.0132	.0003	.0224	.0947	.0001	-.0059
#2	-.0005	.0158	.0010	.0220	.0947	.0001	-.0034
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.7897	.0001	.0001	.0001	.0024	-.0010	.2302
SDev	.0003	.0002	.0004	.0001	.0001	.0106	.0024
%RSD	.0337	259.3	408.7	46.20	4.960	1098.	1.049
#1	.7899	.0003	-.0002	.0002	.0023	.0065	.2319
#2	.7895	-.0001	.0004	.0001	.0025	-.0084	.2285
Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	.0002	.0068	.0000	-.0003	8.558	11.55
SDev	.0002	.0000	.0009	.0000	.0008	.153	.01
%RSD	42.55	1.995	13.18	31.69	261.0	1.790	.0654
#1	.0004	.0002	.0062	.0001	.0003	8.450	11.56
#2	.0007	.0002	.0075	.0000	-.0009	8.666	11.54
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0013	.0095	.0035	.0012	-.0003	.0238	-.0039
SDev	.0015	.0049	.0002	.0003	.0010	.0130	.0013
%RSD	115.1	52.23	5.198	21.42	326.1	54.86	32.52
#1	.0003	.0060	.0036	.0013	.0004	.0330	-.0048
#2	.0024	.0130	.0033	.0010	-.0010	.0145	-.0030
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	95.96	-.0021	.0016	.0647	.0019	.0004	.0032
SDev	.30	.0023	.0007	.0020	.0002	.0012	.0027
%RSD	.3119	109.7	42.47	3.031	11.66	319.9	83.34
#1	96.17	-.0037	.0011	.0661	.0021	-.0005	.0013
#2	95.74	-.0005	.0021	.0633	.0018	.0013	.0051
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0013	.0021	.0001	.0027	-.0039	.0007	.0014
SDev	.0000	.0008	.0000	.0004	.0090	.0002	.0004
%RSD	.8782	36.58	26.48	13.90	229.9	31.16	33.19
#1	.0013	.0026	.0001	.0029	.0025	.0006	.0017
#2	.0013	.0015	.0001	.0024	-.0103	.0009	.0010

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avge	.0001	.0018	.0003
SDev	.0000	.0001	.0003
%RSD	62.83	6.559	97.61

#1	.0001	.0017	.0001
#2	.0000	.0019	.0005

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	850456	10000	--	--	--	--	--
SDev	2645.286	.0000000	--	--	--	--	--
%RSD	.3110431	.0000000	--	--	--	--	--

#1	852327	10000	--	--	--	--	--
#2	848586	10000	--	--	--	--	--

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Method: DAILY2 Sample Name: 230267

Operator:

Run Time: 07/15/03 13:11:11

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.0002	.0163	.0002	.0042	.0001	.0001	-.0019
SDev	.0006	.0044	.0009	.0005	.0000	.0000	.0017
%RSD	288.0	26.75	389.9	11.04	17.32	32.39	88.81
#1	-.0006	.0132	-.0004	.0045	.0002	.0001	-.0031
#2	.0002	.0194	.0008	.0039	.0001	.0001	-.0007
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	9.878	.0001	.0001	-.0008	.0007	-.0169	1.399
SDev	.013	.0002	.0007	.0001	.0004	.0041	.017
%RSD	.1313	277.2	773.0	8.252	54.21	23.95	1.227
#1	9.869	-.0001	-.0004	-.0009	.0004	-.0198	1.386
#2	9.887	.0002	.0006	-.0008	.0009	-.0141	1.411
Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.0002	.0002	-.0033	-.0000	.0001	7.799	10.87
SDev	.0006	.0000	.0061	.0000	.0000	.036	.01
%RSD	301.1	22.97	186.3	756.2	17.56	.4608	.1335
#1	-.0007	.0002	-.0076	.0000	.0001	7.774	10.88
#2	.0002	.0002	.0010	-.0000	.0001	7.825	10.86
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.0004	.0012	.0040	.0005	-.0030	.0017	-.0025
SDev	.0008	.0006	.0010	.0001	.0006	.0081	.0014
%RSD	210.9	53.82	26.00	28.47	20.23	473.0	56.97
#1	-.0002	.0016	.0033	.0006	-.0034	-.0040	-.0015
#2	.0010	.0007	.0048	.0004	-.0026	.0074	-.0035
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	94.66	-.0053	.0027	.0059	.0017	.0001	.0003
SDev	.45	.0034	.0024	.0051	.0003	.0027	.0003
%RSD	.4751	63.33	89.84	87.01	15.61	4714.	102.9
#1	94.98	-.0077	.0010	.0023	.0015	-.0019	.0001
#2	94.34	-.0029	.0045	.0095	.0018	.0020	.0006
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.0006	-.0019	-.0001	.0008	-.0121	-.0001	.0007
SDev	.0000	.0011	.0000	.0028	.0197	.0002	.0005
%RSD	5.441	61.38	55.73	368.4	162.3	176.2	73.46
#1	.0005	-.0011	-.0000	-.0012	-.0261	.0000	.0011
#2	.0006	-.0027	-.0001	.0027	.0018	-.0002	.0003

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	-.0001	.0012	-.0002
SDev	.0001	.0001	.0003
%RSD	199.2	6.441	114.3

#1	.0000	.0011	-.0004
#2	-.0001	.0012	-.0000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	839038	10000	--	--	--	--	--
SDev	3980.304	.0000000	--	--	--	--	--
%RSD	.4743887	.0000000	--	--	--	--	--
#1	841853	10000	--	--	--	--	--
#2	836224	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: 230268

Operator:

Run Time: 07/15/03 13:15:52

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0000	.0171	.0003	.0028	.0001	.0001	-.0073
SDev	.0007	.0004	.0001	.0002	.0000	.0000	.0026
%RSD	3602.	2.552	35.68	6.650	21.68	9.867	35.24

#1	.0005	.0168	.0003	.0027	.0001	.0001	-.0091
#2	-.0005	.0174	.0002	.0030	.0001	.0001	-.0055

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	9.649	-.0002	.0007	-.0005	.0006	-.0065	1.367
SDev	.010	.0001	.0003	.0001	.0004	.0072	.000
%RSD	.1001	35.36	43.05	14.23	65.46	109.7	.0246

#1	9.656	-.0002	.0009	-.0006	.0009	-.0015	1.367
#2	9.642	-.0001	.0005	-.0005	.0003	-.0116	1.367

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0000	.0002	-.0007	.0000	-.0001	7.666	10.65
SDev	.0003	.0000	.0090	.0000	.0008	.031	.01
%RSD	1075.	3.007	1384.	71.53	594.9	.4010	.0724

#1	.0002	.0002	.0057	.0000	-.0007	7.644	10.64
#2	-.0002	.0002	-.0070	.0001	.0004	7.687	10.66

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	.0056	.0003	.0007	-.0013	.0024	-.0026
SDev	.0006	.0056	.0059	.0002	.0015	.0059	.0043
%RSD	90.40	99.99	1872.	27.08	123.2	241.7	166.2

#1	.0002	.0016	-.0038	.0008	-.0002	-.0017	.0005
#2	.0010	.0095	.0045	.0006	-.0023	.0066	-.0057

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	95.74	-.0002	.0021	.0091	.0006	.0013	.0017
SDev	.23	.0028	.0022	.0009	.0018	.0006	.0013
%RSD	.2440	1521.	109.8	9.413	317.3	43.82	78.04

#1	95.90	.0018	.0005	.0085	-.0007	.0009	.0026
#2	95.57	-.0021	.0036	.0097	.0019	.0017	.0007

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	-.0013	-.0000	.0009	-.0055	-.0002	.0003
SDev	.0000	.0030	.0001	.0006	.0205	.0003	.0018
%RSD	2.033	224.8	1068.	72.08	370.5	181.9	655.9

#1	.0006	-.0034	-.0001	.0004	.0089	.0001	.0015
#2	.0006	.0008	.0001	.0013	-.0200	-.0004	-.0010

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avge	.0000	.0020	-.0003
SDev	.0001	.0000	.0000
%RSD	289.1	1.914	14.00

#1	.0001	.0020	-.0004
#2	-.0000	.0020	-.0003

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	848612	10000	--	--	--	--	--
SDev	2038.589	.0000000	--	--	--	--	--
%RSD	.2402264	.0000000	--	--	--	--	--
#1	850053	10000	--	--	--	--	--
#2	847170	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: 230269

Operator:

Run Time: 07/15/03 13:20:33

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	.0159	-.0001	.0122	.0434	.0001	-.0037
SDev	.0008	.0008	.0021	.0001	.0001	.0000	.0045
XRSD	642.0	5.139	1737.	.6704	.1312	4.606	119.3

#1	-.0007	.0154	.0014	.0122	.0435	.0001	-.0069
#2	.0005	.0165	-.0016	.0121	.0434	.0001	-.0006

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	29.11	-.0000	-.0002	.0001	.0028	.0013	.1440
SDev	.00	.0001	.0010	.0002	.0000	.0101	.0126
XRSD	.0022	362.6	435.7	164.5	1.434	773.6	8.766

#1	29.11	.0001	-.0009	-.0000	.0028	.0085	.1351
#2	29.11	-.0001	.0005	.0003	.0027	-.0059	.1529

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0005	.0001	-.0011	.0002	-.0004	3.725	5.119
SDev	.0003	.0000	.0017	.0001	.0003	.117	.010
XRSD	56.81	.2954	163.4	49.12	79.56	3.140	.1873

#1	-.0008	.0001	-.0023	.0001	-.0007	3.643	5.126
#2	-.0003	.0001	.0002	.0003	-.0002	3.808	5.112

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	.0056	.0029	.0002	-.0005	.0122	-.0033
SDev	.0001	.0043	.0002	.0010	.0003	.0067	.0017
XRSD	17.86	77.51	7.159	640.1	54.56	55.05	51.98

#1	.0007	.0025	.0031	-.0005	-.0003	.0075	-.0045
#2	.0005	.0086	.0028	.0009	-.0008	.0170	-.0021

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	95.79	.0019	.0032	.0440	.0011	.0027	.0017
SDev	.93	.0035	.0007	.0022	.0006	.0007	.0000
XRSD	.9681	183.3	21.00	5.098	54.20	26.16	2.297

#1	96.44	.0044	.0027	.0424	.0007	.0033	.0017
#2	95.13	-.0006	.0036	.0456	.0015	.0022	.0016

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0054	-.0014	.0000	.0010	-.0126	.0004	.0006
SDev	.0000	.0007	.0001	.0003	.0257	.0004	.0026
XRSD	.0009	48.85	126.7	27.55	204.1	123.8	428.3

#1	.0054	-.0009	.0001	.0012	-.0308	.0000	-.0013
#2	.0054	-.0019	.0000	.0008	.0056	.0007	.0025

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	-.0001	.0100	-.0002
SDev	.0000	.0001	.0004
%RSD	36.17	.7697	174.2

#1	-.0001	.0101	-.0005
#2	-.0001	.0100	.0000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	848942	10000	--	--	--	--	--
SDev	8218.702	.0000000	--	--	--	--	--
%RSD	.9681117	.0000000	--	--	--	--	--

#1	854753	10000	--	--	--	--	--
#2	843130	10000	--	--	--	--	--

Analysis Report

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page 1

Method: DAILY2 Sample Name: 230270

Operator:

Run Time: 07/15/03 13:25:15

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0000	.0139	.0011	.0132	.0423	.0001	-.0075
SDev	.0004	.0014	.0001	.0001	.0001	.0000	.0029
%RSD	9715.	10.20	9.786	.6907	.2466	2.713	38.50

#1	.0003	.0150	.0010	.0131	.0423	.0001	-.0095
#2	-.0003	.0129	.0012	.0132	.0424	.0001	-.0054

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	29.22	-.0003	-.0000	.0002	.0016	-.0069	.1738
SDev	.06	.0002	.0009	.0005	.0001	.0160	.0047
%RSD	.2135	63.94	1827.	312.3	2.862	232.9	2.718

#1	29.26	-.0001	.0006	-.0002	.0016	.0044	.1772
#2	29.17	-.0004	-.0007	.0005	.0015	-.0182	.1705

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	.0001	-.0022	.0002	-.0001	3.615	5.188
SDev	.0005	.0000	.0063	.0001	.0005	.050	.006
%RSD	196.3	7.192	288.1	56.22	382.1	1.382	.1075

#1	.0001	.0001	.0023	.0003	-.0005	3.580	5.184
#2	-.0007	.0001	-.0066	.0001	.0002	3.651	5.192

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	.0077	.0039	-.0015	-.0028	.0196	-.0051
SDev	.0005	.0061	.0008	.0008	.0013	.0069	.0004
%RSD	323.5	79.64	21.26	54.35	48.21	34.94	7.613

#1	.0005	.0034	.0045	-.0020	-.0018	.0245	-.0054
#2	-.0002	.0121	.0033	-.0009	-.0037	.0148	-.0048

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	95.97	-.0018	-.0009	.0444	.0004	-.0012	.0012
SDev	.26	.0020	.0008	.0007	.0003	.0012	.0006
%RSD	.2661	114.6	83.48	1.596	70.95	99.37	46.39

#1	95.79	-.0032	-.0015	.0439	.0002	-.0020	.0008
#2	96.15	-.0003	-.0004	.0449	.0005	-.0004	.0016

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0054	.0010	.0001	.0011	-.0018	.0006	.0004
SDev	.0000	.0009	.0001	.0006	.0185	.0000	.0013
%RSD	.1355	82.67	77.68	57.84	1052.	7.007	372.0

#1	.0055	.0004	.0001	.0015	.0113	.0006	-.0006
#2	.0054	.0017	.0000	.0006	-.0148	.0006	.0013

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avgc	-.0001	.0100	.0002
SDev	.0001	.0002	.0002
%RSD	44.28	2.049	79.46

#1	-.0001	.0102	.0003
#2	-.0002	.0099	.0001

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avgc	850650	10000	--	--	--	--	--
SDev	2290.319	.0000000	--	--	--	--	--
%RSD	.2692435	.0000000	--	--	--	--	--
#1	849030	10000	--	--	--	--	--
#2	852269	10000	--	--	--	--	--

Analysis Report

07/15/03 01:43:46 PM

page 1

Method: DAILY2 Sample Name: 230271

Operator:

Run Time: 07/15/03 13:29:56

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0010	.0174	-.0009	.0127	.0454	.0002	-.0027
SDev	.0015	.0048	.0002	.0006	.0001	.0000	.0099
%RSD	154.6	27.52	21.51	4.684	.1468	17.21	367.6

#1	-.0001	.0140	-.0008	.0131	.0454	.0001	-.0097
#2	.0020	.0208	-.0010	.0122	.0454	.0002	.0043

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	7.814	.0001	.0008	.0004	.0026	.0165	.1993
SDev	.022	.0001	.0003	.0002	.0005	.0422	.0320
%RSD	.2787	153.6	33.43	58.77	19.62	256.6	16.07

#1	7.799	-.0000	.0006	.0002	.0022	-.0134	.1767
#2	7.830	.0001	.0009	.0006	.0030	.0463	.2220

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0011	.0002	.0113	.0002	-.0002	4.530	5.935
SDev	.0016	.0001	.0094	.0000	.0002	.251	.011
%RSD	145.8	57.21	83.61	10.26	64.86	5.541	.1774

#1	-.0000	.0001	.0046	.0002	-.0001	4.352	5.942
#2	.0022	.0002	.0180	.0002	-.0004	4.707	5.927

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	.0051	.0010	-.0016	.0018	.0233	-.0028
SDev	.0003	.0012	.0001	.0000	.0045	.0004	.0002
%RSD	44.97	23.61	7.079	1.476	249.6	1.858	7.561

#1	.0005	.0043	.0011	-.0016	-.0014	.0236	-.0030
#2	.0009	.0060	.0010	-.0015	.0050	.0230	-.0027

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	95.32	.0006	.0003	.0503	-.0007	.0004	.0028
SDev	.17	.0052	.0005	.0063	.0000	.0021	.0014
%RSD	.1807	873.1	180.6	12.47	1.370	514.8	51.46

#1	95.44	-.0031	-.0001	.0458	-.0007	-.0011	.0018
#2	95.20	.0043	.0007	.0547	-.0007	.0019	.0038

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0025	-.0017	.0002	.0015	.0195	.0007	.0013
SDev	.0000	.0010	.0000	.0033	.0597	.0005	.0028
%RSD	1.643	61.33	22.75	222.6	306.7	74.86	210.9

#1	.0025	-.0010	.0001	-.0008	-.0228	.0003	-.0006
#2	.0025	-.0024	.0002	.0038	.0617	.0011	.0033

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avgc	.0000	.0062	.0005
SDev	.0001	.0003	.0005
%RSD	800.9	4.531	90.41

#1	-.0001	.0060	.0002
#2	.0001	.0064	.0009

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avgc	844918	10000	--	--	--	--	--
SDev	1530.179	.0000000	--	--	--	--	--
%RSD	.1811039	.0000000	--	--	--	--	--
#1	846000	10000	--	--	--	--	--
#2	843836	10000	--	--	--	--	--

Analysis Report

QC Standard

07/15/03 01:51:36 PM

page 1

Method: DAILY2 Sample Name: icv/ccv

Operator:

Run Time: 07/15/03 13:47:06

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9897	9.782	4.954	4.861	9.979	1.003	4.960
SDev	.0003	.000	.018	.033	.005	.002	.005
%RSD	.0282	.0027	.3665	.6797	.0504	.2159	.1036

#1	.9895	9.782	4.941	4.838	9.982	1.002	4.957
#2	.9899	9.782	4.967	4.885	9.975	1.005	4.964

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000	10.00	5.000	5.000	10.00	1.000	5.000
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.60	1.017	5.058	1.975	2.026	10.12	18.47
SDev	.03	.003	.009	.002	.003	.01	.01
%RSD	.1345	.2844	.1712	.1070	.1346	.1226	.0446

#1	19.59	1.015	5.052	1.974	2.024	10.13	18.47
#2	19.62	1.019	5.064	1.977	2.028	10.11	18.46

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	20.00	1.000	5.000	2.000	2.000	10.00	20.00
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.048	4.696	19.75	1.022	5.157	27.73	040.45
SDev	.004	.001	.03	.002	.019	.15	.02
%RSD	.0699	.0135	.1669	.2239	.3737	.5542	.0434

#1	5.045	4.696	19.72	1.021	5.144	27.84	040.43
#2	5.050	4.697	19.77	1.024	5.171	27.62	040.46

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	5.000	5.000	20.00	1.000	5.000	30.00	30.00
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.911	5.156	4.959	4.943	1.026	1.048	.9974
SDev	.016	.031	.016	.018	.001	.010	.0004
%RSD	.3356	.5936	.3219	.3552	.0664	.9520	.0362

#1	4.899	5.177	4.970	4.956	1.026	1.041	.9971
#2	4.922	5.134	4.948	4.931	1.025	1.055	.9976

Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	5.000	5.000			1.000	1.000	1.000
Range	10.00	10.00			10.00	10.00	10.00

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
------	--------	--------	--------	--------	-------	-------	--------

Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	97.04	5.247	5.218	4.988	4.948	5.228	4.938
SDev	.80	.020	.044	.000	.017	.036	.007
%RSD	.8213	.3792	.8380	.0065	.3442	.6845	.1505
#1	96.48	5.261	5.249	4.988	4.960	5.253	4.933
#2	97.61	5.233	5.187	4.988	4.936	5.202	4.943
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass
Value				5.000	5.000	5.000	5.000
Range				10.00	10.00	10.00	10.00
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.052	1.008	4.833	5.173	1.009	4.992	01.244
SDev	.005	.001	.001	.031	.020	.006	.005
%RSD	.1014	.1173	.0260	.6056	2.020	.1255	.4113
#1	5.049	1.007	4.832	5.151	1.024	4.987	01.241
#2	5.056	1.008	4.833	5.195	.9948	4.996	01.248
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	5.000	1.000	5.000	5.000	1.000	5.000	1.000
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avg	5.090	1.014	5.022				
SDev	.014	.003	.008				
%RSD	.2772	.3357	.1612				
#1	5.100	1.012	5.017				
#2	5.080	1.016	5.028				
Errors	QC Pass	QC Pass	QC Pass				
Value	5.000	1.000	5.000				
Range	10.00	10.00	10.00				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	860178	10000	--	--	--	--	--
SDev	7033.591	.0000000	--	--	--	--	--
%RSD	.8176897	.0000000	--	--	--	--	--
#1	855205	10000	--	--	--	--	--
#2	865152	10000	--	--	--	--	--

Analysis Report Blank Sample 07/15/03 01:58:07 PM page 1

Method: DAILY2 Sample Name: icb/ccb Operator:
 Run Time: 07/15/03 13:53:37
 Comment:
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	-.0020	.0008	.0070	.0001	.0002	-.0023
SDev	.0006	.0065	.0007	.0022	.0002	.0000	.0047
%RSD	163.9	317.1	86.83	31.45	142.9	11.46	205.8
#1	.0007	.0025	.0003	.0086	.0003	.0002	.0010
#2	-.0001	-.0066	.0014	.0054	-.0000	.0002	L-.0056
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0050	.0500	.0050	.0050	.0050
Low	-.0050	-.0500	-.0050	-.0500	-.0050	-.0050	-.0050
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064	-.0002	-.0000	-.0000	.0010	-.0197	-.0086
SDev	.0006	.0003	.0007	.0014	.0008	.0068	.0068
%RSD	8.637	176.2	7791.	13640.	74.02	34.46	78.88
#1	.0068	.0000	.0005	.0009	.0016	-.0149	-.0038
#2	.0060	-.0004	-.0005	-.0010	.0005	-.0245	-.0134
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0500	.0050	.0050	.0050	.0050	.0250	.1000
Low	-.0500	-.0050	-.0050	-.0050	-.0050	-.0250	-.1000
Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0001	-.0021	-.0000	.0033	L-.0972	.0111
SDev	.0010	.0001	.0091	.0001	.0017	.1236	.0000
%RSD	196.5	49.35	428.9	2821.	51.84	127.1	.2016
#1	.0012	.0001	.0043	.0001	.0045	-.0098	.0112
#2	-.0002	.0001	-.0086	-.0001	.0021	L-.1846	.0111
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	.0050	.0050	.0500	.0050	.0050	.0500	.0500
Low	-.0050	-.0050	-.0500	-.0050	-.0050	-.0500	-.0500
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0004	.0020	-.0008	-.0017	-.0001	-.0042
SDev	.0008	.0125	.0004	.0015	.0026	.0084	.0039
%RSD	401.4	2901.	21.21	195.4	150.7	7126.	93.43
#1	.0004	.0093	.0017	-.0019	.0001	-.0060	-.0014
#2	-.0008	-.0084	.0023	.0003	-.0036	.0058	-.0070
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	.0050	.0100			.0050	.0100	.0100
Low	-.0050	-.0100			-.0050	-.0100	-.0100
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899

Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	99.01	.0015	-.0008	.0026	.0002	-.0001	.0025
SDev	.51	.0006	.0014	.0005	.0012	.0012	.0016
%RSD	.5177	40.33	171.3	18.28	762.9	1728.	63.92
#1	98.65	.0019	.0002	.0022	-.0007	.0008	.0014
#2	99.37	.0010	-.0019	.0029	.0010	-.0009	.0036
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High				.0100	.0030	.0050	.0050
Low				-.0100	-.0030	-.0050	-.0050
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0000	.0012	.0001	.0030	.0020	.0004	.0019
SDev	.0000	.0026	.0003	.0028	.0358	.0012	.0038
%RSD	105.9	207.8	377.3	94.11	1799.	332.0	199.0
#1	.0001	.0030	.0003	.0049	.0273	.0012	.0046
#2	.0000	-.0006	-.0002	.0010	-.0233	-.0005	-.0008
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0100	.0050	.0100	.1000	.0050	.0100
Low	-.0050	-.0100	-.0050	-.0100	-.1000	-.0050	-.0100
Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avge	.0000	.0004	.0004				
SDev	.0002	.0000	.0010				
%RSD	397.5	6.709	273.2				
#1	.0002	.0004	.0011				
#2	-.0001	.0004	-.0004				
Errors	LC Pass	LC Pass	LC Pass				
High	.0050	.0050	.0050				
Low	-.0050	-.0050	-.0050				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	877582	10000	--	--	--	--	--
SDev	4472.450	.0000000	--	--	--	--	--
%RSD	.5096331	.0000000	--	--	--	--	--
#1	874420	10000	--	--	--	--	--
#2	880745	10000	--	--	--	--	--

#3

ICP ANALYSIS

PROJ. NO.	PROJECT	TO#	DATE	MATRIX	LOGBK PG
06002.01.141	Div 20	030714-8	8-5-03	Water	S3 212
06002.01.141	Div 20	030714-8	8-5-03	Water	S3 213

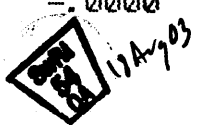
INSTRUMENT: Trac #2 FILENAME: B07148B

INSTRUMENT DL: _____

Method: DAILY2 Standard: blk
Run Time: 08/05/03 14:43:33

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Avg	-.0000	.0003	-.0000	.0012	-.0000	.0000	.0000
SDev	.0000	.0000	.0000	.0000	.0000	.0000	.0000
%RSD	55.56	1.238	52.46	.1017	29.82	416.7	362.2
#1	-.0000	.0003	-.0000	.0012	-.0000	-.0000	-.0000
#2	-.0001	.0003	-.0001	.0012	-.0000	.0000	.0000
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Avg	.0000	.0000	-.0000	.0000	.0004	.0000	.0003
SDev	.0000	.0000	.0000	.0000	.0000	.0000	.0000
%RSD	3.208	93.48	244.3	373.3	3.822	23.09	5.157
#1	.0000	.0000	-.0000	.0000	.0004	.0000	.0003
#2	.0000	.0000	.0000	-.0000	.0004	.0001	.0003
Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Avg	.0000	.0017	-.0000	.0000	.0001	-.0002	-.0119
SDev	.0000	.0001	.0000	.0000	.0000	.0000	.0001
%RSD	53.57	3.011	20760.	29.21	18.70	7.646	.9632
#1	.0000	.0017	.0000	.0000	.0001	-.0002	-.0118
#2	.0000	.0017	-.0000	.0000	.0001	-.0002	-.0119
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Avg	-.0000	.0000	.0001	-.0000	.0001	-.0000	-.0013
SDev	.0000	.0000	.0000	.0000	.0000	.0000	.0001
%RSD	141.4	100.5	11.31	51.75	33.24	18.63	3.738
#1	.0000	.0000	.0001	-.0000	.0001	-.0000	-.0013
#2	-.0000	.0000	.0001	-.0000	.0001	-.0000	-.0014
Elem	Sc3613	1960/1	1960/2	Si2881	Sn1899	Sr4215	Th2837
Avg	85.28	-.0001	.0002	.0018	.0000	.0000	.0000
SDev	.83	.0002	.0001	.0000	.0001	.0000	.0000
%RSD	.9692	158.2	50.67	.6379	109.6	47.99	29.21
#1	85.86	-.0002	.0001	.0018	.0001	.0000	.0000
#2	84.69	.0000	.0002	.0018	.0000	.0000	.0001
Elem	Ti3349	Tl1908	U_4090	V_2924	W_2079	Y_3710	Zn2062
Avg	-.0001	-.0002	-.0004	-.0000	.0004	.0000	.0013
SDev	.0000	.0001	.0001	.0000	.0001	.0000	.0000
%RSD	49.20	32.83	23.14	9.143	23.07	33.55	1.573
#1	-.0001	-.0003	-.0004	-.0000	.0003	.0000	.0013
#2	-.0000	-.0002	-.0003	-.0000	.0005	.0000	.0013
Elem	Zr3496						
Avg	.0003						
SDev	.0001						
%RSD	26.64						
#1	.0002						
#2	.0003						

Blayne
8/10/03
1



4-5-03

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	852692	10000	--	--	--	--	--
SDev	8213.045	.0000000	--	--	--	--	--
%RSD	.9631896	.0000000	--	--	--	--	--
#1	858500	10000	--	--	--	--	--
#2	846885	10000	--	--	--	--	--

Method: DAILY2 Standard: clp_std4
Run Time: 08/05/03 14:48:49

Elem	Ag3280	As1890	2203/1	2203/2	Sb2068	1960/1	1960/2
Avg	.0804	.1354	.3729	.3089	.2053	.3102	.3009
SDev	.0001	.0000	.0014	.0027	.0001	.0007	.0015
%RSD	.0826	.0176	.3883	.8878	.0514	.2356	.4894
#1	.0804	.1354	.3740	.3108	.2052	.3107	.3020
#2	.0803	.1354	.3719	.3069	.2053	.3097	.2999

Elem	Tl1908
Avg	.2658
SDev	.0007
%RSD	.2770
#1	.2653
#2	.2663

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	845684	10000	--	--	--	--	--
SDev	14078.50	.0000000	--	--	--	--	--
%RSD	1.664747	.0000000	--	--	--	--	--
#1	835729	10000	--	--	--	--	--
#2	855639	10000	--	--	--	--	--

Standardization Rpt.

08/05/03 02:57:40 PM

page 1

Method: DAILY2 Standard: clp_std1

Run Time: 08/05/03 14:53:42

Elem	Al3082	Ca3179	Fe2714	K_7664	Li6707	Mg2790	Na3302
Avge	.1111	.2109	.1066	.1750	2.857	.0911	.0093
SDev	.0001	.0000	.0000	.0000	.001	.0000	.0001
%RSD	.0647	.0101	.0393	.0248	.0260	.0107	.5013
#1	.1111	.2109	.1065	.1750	2.858	.0910	.0093
#2	.1112	.2109	.1066	.1751	2.857	.0911	.0093
IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	---	---	---	---	---	---
Wavlen	361.384	---	---	---	---	---	---
Avge	848060	10000	---	---	---	---	---
SDev	618.7184	.0000000	---	---	---	---	---
%RSD	.0729570	.0000000	---	---	---	---	---
#1	848497	10000	---	---	---	---	---
#2	847622	10000	---	---	---	---	---

Standardization Rpt.

08/05/03 03:01:51 PM

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Method: DAILY2 Standard: clp_std5
 Run Time: 08/05/03 14:57:52

Elem	B_2496	Bi2230	Mo2020	P_1782	Si2881	Sn1899	Sr4215
Avge	.1781	.0384	.4256	.0189	.1669	.1961	2.414
SDev	.0012	.0000	.0023	.0000	.0005	.0004	.004
%RSD	.6712	.0473	.5337	.1648	.3207	.1913	.1601
#1	.1772	.0384	.4240	.0188	.1672	.1958	2.412
#2	.1789	.0384	.4272	.0189	.1665	.1963	2.417

Elem	Ti3349
Avge	2.723
SDev	.005
%RSD	.1693

#1	2.720
#2	2.726

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	849624	10000	--	--	--	--	--
SDev	1898.582	.0000000	--	--	--	--	--
%RSD	.2234615	.0000000	--	--	--	--	--
#1	848281	10000	--	--	--	--	--
#2	850966	10000	--	--	--	--	--

Standardization Rpt.

08/05/03 03:05:39 PM

page 1

Method: DAILY2 Standard: clp_std2
Run Time: 08/05/03 15:02:02

Elem	Ba4934	Be3130	Cr2677	Cu3247	Ni2316
Avg	1.050	1.321	.4439	.3092	.3909
SDev	.001	.004	.0009	.0001	.0000
%RSD	.0606	.2847	.1955	.0193	.0090

#1	1.049	1.318	.4445	.3092	.3909
#2	1.050	1.323	.4433	.3093	.3908

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	854063	10000	--	--	--	--	--
SDev	20835.61	.0000000	--	--	--	--	--
%RSD	2.439587	.0000000	--	--	--	--	--
#1	839330	10000	--	--	--	--	--
#2	868796	10000	--	--	--	--	--

Standardization Rpt.

08/05/03 03:09:48 PM

page 1

Method: DAILY2 Standard: clp_std3
Run Time: 08/05/03 15:05:50

Elem	Cd2265	Co2286	Mn2576	V_2924	Zn2062
Avge	1.137	.2476	.9408	.1995	.3677
SDev	.001	.0002	.0011	.0001	.0003
%RSD	.0772	.0899	.1188	.0267	.0919

#1	1.138	.2477	.9416	.1996	.3680
#2	1.137	.2474	.9400	.1995	.3675

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	---	---	---	---	---	---
Wavlen	361.384	---	---	---	---	---	---
Avge	864750	10000	---	---	---	---	---
SDev	6638.318	.0000000	---	---	---	---	---
%RSD	.7676575	.0000000	---	---	---	---	---

#1	860056	10000	---	---	---	---	---
#2	869444	10000	---	---	---	---	---

Standardization Rpt.

08/05/03 03:14:20 PM

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Method: DAILY2 Standard: clp_std6
 Run Time: 08/05/03 15:10:00

Elem	La3988	Na5889	Pd3404	S_1820	Th2837	U_4090	W_2079
Avge	.4739	.0455	.2110	.0364	.1172	.0740	.1984
SDev	.0002	.0004	.0001	.0002	.0001	.0001	.0006
%RSD	.0480	.8061	.0721	.4867	.0978	.0673	.3023

#1	.4741	.0458	.2111	.0363	.1171	.0741	.1979
#2	.4738	.0453	.2109	.0365	.1173	.0740	.1988

Elem	Y_3710	Zr3496
Avge	.7812	1.951
SDev	.0007	.000
%RSD	.0843	.0139

#1	.7817	1.951
#2	.7808	1.951

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	852288	10000	--	--	--	--	--
SDev	4031.216	.0000000	--	--	--	--	--
%RSD	.4729878	.0000000	--	--	--	--	--
#1	855138	10000	--	--	--	--	--
#2	849437	10000	--	--	--	--	--

Standardization

Report

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Method: DAILY2

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Ag3280	328.068	clp_std4	blk	24.8706	.000907	08/05/03 03:10:00
Al3082	308.215	clp_std1	blk	451.206	-.135985	08/05/03 03:10:00
As1890	189.042	clp_std4	blk	73.8416	.002735	08/05/03 03:10:00
B_2496	249.678	clp_std5	blk	56.5276	-.065299	08/05/03 03:10:00
Ba4934	493.409	clp_std2	blk	9.52704	.000128	08/05/03 03:10:00
Be3130	313.042	clp_std2	blk	3.78564	-.000002	08/05/03 03:10:00
Bi2230	223.061	clp_std5	blk	129.057	-.000770	08/05/03 03:10:00
Ca3179	317.933	clp_std1	blk	237.182	-.008763	08/05/03 03:10:00
Cd2265	226.502	clp_std3	blk	8.78887	-.000181	08/05/03 03:10:00
Co2286	228.616	clp_std3	blk	40.3942	.000328	08/05/03 03:10:00
Cr2677	267.716	clp_std2	blk	22.5291	-.000130	08/05/03 03:10:00
Cu3247	324.753	clp_std2	blk	32.3764	-.012209	08/05/03 03:10:00
Fe2714	271.441	clp_std1	blk	469.622	-.022882	08/05/03 03:10:00
K_7664	766.491	clp_std1	blk	286.124	-.079210	08/05/03 03:10:00
La3988	398.853	clp_std6	blk	21.1194	-.000161	08/05/03 03:10:00
Li6707	670.784	clp_std1	blk	3.50175	-.005919	08/05/03 03:10:00
Mg2790	279.078	clp_std1	blk	274.476	.000002	08/05/03 03:10:00
Mn2576	257.610	clp_std3	blk	10.6297	-.000125	08/05/03 03:10:00
Mo2020	202.030	clp_std5	blk	23.5040	-.001983	08/05/03 03:10:00
Na3302	330.232	clp_std1	blk	5283.41	.852284	08/05/03 03:10:00
Na5889	588.991	clp_std6	blk	17.5132	.207820	08/05/03 03:10:00
Ni2316	231.604	clp_std2	blk	25.5827	.000529	08/05/03 03:10:00
P_1782	178.287	clp_std5	blk	530.647	-.008670	08/05/03 03:10:00
2203/1	220.351	clp_std4	blk	26.8215	-.002581	08/05/03 03:10:00
2203/2	220.352	clp_std4	blk	32.3718	.000951	08/05/03 03:10:00
Pd3404	340.458	clp_std6	blk	48.6865	-.004003	08/05/03 03:10:00
S_1820	182.040	clp_std6	blk	274.517	.002578	08/05/03 03:10:00
Sb2068	206.838	clp_std4	blk	48.4017	.065091	08/05/03 03:10:00
Sc3613	361.384	blk	dark	1.17265	.000000	08/05/03 03:10:00
1960/1	196.021	clp_std4	blk	32.2298	.003526	08/05/03 03:10:00
1960/2	196.022	clp_std4	blk	33.2509	-.005492	08/05/03 03:10:00
Si2881	288.158	clp_std5	blk	60.3508	-.107690	08/05/03 03:10:00
Pb220	220.353	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
Se196	196.026	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
Sn1899	189.989	clp_std5	blk	51.0465	-.002412	08/05/03 03:10:00
Sr4215	421.552	clp_std5	blk	4.14176	-.000029	08/05/03 03:10:00
Th2837	283.730	clp_std6	blk	89.0930	-.004447	08/05/03 03:10:00
Ti3349	334.941	clp_std5	blk	3.67257	.000279	08/05/03 03:10:00
Tl1908	190.864	clp_std4	blk	37.5891	.008208	08/05/03 03:10:00
U_4090	409.014	clp_std6	blk	142.195	.050389	08/05/03 03:10:00
V_2924	292.402	clp_std3	blk	50.1131	.001645	08/05/03 03:10:00
W_2079	207.914	clp_std6	blk	25.2479	-.009945	08/05/03 03:10:00
Y_3710	371.030	clp_std6	blk	12.7978	-.000098	08/05/03 03:10:00
Zn2062	206.200	clp_std3	blk	27.2904	-.034803	08/05/03 03:10:00
Zr3496	349.621	clp_std6	blk	5.60355	-.001520	08/05/03 03:10:00

Analysis Report

QC Standard

08/05/03 03:19:36 PM

page 1

Method: DAILY2 Sample Name: icv/ccv

Operator:

Run Time: 08/05/03 15:14:32

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9822	9.990	4.907	4.828	9.893	1.003	4.953
SDev	.0037	.005	.003	.019	.006	.002	.002
%RSD	.3736	.0457	.0561	.3973	.0648	.1878	.0307
#1	.9848	9.993	4.909	4.814	9.897	1.004	4.954
#2	.9796	9.987	4.905	4.841	9.888	1.001	4.952
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.000	10.00	5.000	5.000	10.00	1.000	5.000
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	19.84	1.014	5.031	1.964	1.994	10.18	18.31
SDev	.08	.004	.009	.005	.001	.06	.04
%RSD	.3829	.3455	.1791	.2417	.0443	.6270	.2179
#1	19.89	1.016	5.037	1.967	1.993	10.22	18.28
#2	19.78	1.011	5.024	1.961	1.994	10.13	18.34
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	20.00	1.000	5.000	2.000	2.000	10.00	20.00
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.879	4.852	20.02	1.014	5.125	28.14	Q40.66
SDev	.004	.003	.04	.002	.010	.02	.03
%RSD	.0890	.0612	.1894	.1985	.2003	.0724	.0795
#1	4.882	4.850	20.05	1.015	5.118	28.13	Q40.63
#2	4.875	4.855	19.99	1.012	5.133	28.16	Q40.68
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	5.000	5.000	20.00	1.000	5.000	30.00	30.00
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.925	5.083	4.873	4.945	.9736	1.030	.9900
SDev	.001	.131	.073	.034	.0020	.003	.0022
%RSD	.0152	2.568	1.499	.6855	.2016	.2743	.2225
#1	4.926	5.175	4.924	4.969	.9750	1.028	.9884
#2	4.925	4.991	4.821	4.921	.9722	1.032	.9915
Errors	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass
Value	5.000	5.000			1.000	1.000	1.000
Range	10.00	10.00			10.00	10.00	10.00
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899

Analysis Report QC Standard 08/05/03 03:19:36 PM page 2

Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	99.56	5.073	5.161	5.006	4.921	5.132	4.886
SDev	1.84	.058	.032	.000	.047	.041	.006
%RSD	1.844	1.138	.6256	.0047	.9539	.7944	.1210
#1	98.27	5.114	5.184	5.006	4.954	5.161	4.890
#2	100.9	5.032	5.139	5.006	4.887	5.103	4.882
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	QC Pass	QC Pass	QC Pass
Value				5.000	5.000	5.000	5.000
Range				10.00	10.00	10.00	10.00
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.038	.9834	4.819	5.124	.9679	4.956	01.151
SDev	.000	.0055	.000	.037	.0009	.008	.007
%RSD	.0078	.5634	.0024	.7310	.0940	.1605	.5875
#1	5.038	.9873	4.819	5.098	.9673	4.962	01.146
#2	5.038	.9795	4.819	5.151	.9686	4.951	01.156
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	5.000	1.000	5.000	5.000	1.000	5.000	1.000
Range	10.00	10.00	10.00	10.00	10.00	10.00	10.00
Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avg	4.961	.9996	4.865				
SDev	.010	.0032	.008				
%RSD	.2034	.3152	.1642				
#1	4.969	1.002	4.859				
#2	4.954	.9973	4.870				
Errors	QC Pass	QC Pass	QC Pass				
Value	5.000	1.000	5.000				
Range	10.00	10.00	10.00				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	848990	10000	--	--	--	--	--
SDev	15564.13	.0000000	--	--	--	--	--
%RSD	1.833251	.0000000	--	--	--	--	--
#1	837985	10000	--	--	--	--	--
#2	859996	10000	--	--	--	--	--

Analysis Report

Blank Sample

08/05/03 03:27:15 PM

page 1

Method: DAILY2 Sample Name: icb/ccb

Operator:

Run Time: 08/05/03 15:22:12

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	-.0052	-.0007	-.0052	.0001	.0000	-.0018
SDev	.0005	.0042	.0034	.0018	.0001	.0000	.0051
%RSD	132.9	81.18	458.4	35.20	83.95	7.057	285.5
#1	.0000	-.0081	.0017	-.0039	.0002	.0000	L-.0054
#2	.0007	-.0022	-.0032	-.0065	.0000	.0000	.0018
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0050	.0500	.0050	.0050	.0050
Low	-.0050	-.0500	-.0050	-.0500	-.0050	-.0050	-.0050
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	-.0001	-.0005	-.0001	-.0002	-.0142	-.0050
SDev	.0004	.0000	.0005	.0003	.0004	.0124	.0006
%RSD	112.5	23.18	97.77	383.3	173.3	87.30	12.04
#1	-.0006	-.0001	-.0001	.0001	.0001	-.0230	-.0055
#2	-.0001	-.0000	-.0008	-.0003	-.0005	-.0054	-.0046
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0500	.0050	.0050	.0050	.0050	.0250	.1000
Low	-.0500	-.0050	-.0050	-.0050	-.0050	-.0250	-.1000
Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0009	-.0003	-.0037	.0000	-.0002	H.0776	-.0013
SDev	.0007	.0000	.0063	.0001	.0001	.0599	.0035
%RSD	81.37	10.73	169.9	690.0	34.40	77.26	282.1
#1	-.0014	-.0003	-.0082	.0001	-.0003	.0352	-.0038
#2	-.0004	-.0003	.0008	-.0001	-.0002	H.1199	.0013
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass
High	.0050	.0050	.0500	.0050	.0050	.0500	.0500
Low	-.0050	-.0050	-.0500	-.0050	-.0050	-.0500	-.0500
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0048	.0009	.0005	-.0016	.0034	.0017
SDev	.0010	.0022	.0026	.0010	.0004	.0043	.0003
%RSD	133.2	44.42	304.6	213.2	26.10	129.1	18.27
#1	.0014	.0033	-.0010	.0012	-.0019	.0003	.0015
#2	.0000	.0063	.0027	-.0003	-.0013	.0065	.0019
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	.0050	.0100			.0050	.0100	.0100
Low	-.0050	-.0100			-.0050	-.0100	-.0100
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899

Analysis Report

Blank Sample

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Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	99.07	-.0067	-.0025	.0022	.0006	-.0039	-.0024
SDev	.47	.0012	.0020	.0018	.0002	.0017	.0023
%RSD	.4709	18.18	79.72	81.70	25.86	44.73	95.33
#1	98.74	-.0075	-.0039	.0009	.0005	L-.0051	-.0040
#2	99.40	-.0058	-.0011	.0034	.0007	-.0026	-.0008
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High				.0100	.0030	.0050	.0050
Low				-.0100	-.0030	-.0050	-.0050
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0016	-.0000	.0016	-.0022	-.0001	-.0024
SDev	.0000	.0013	.0000	.0001	.0188	.0003	.0001
%RSD	41.78	82.64	362.5	5.162	866.7	200.7	4.179
#1	.0000	-.0007	-.0000	.0017	-.0155	-.0003	-.0024
#2	.0000	-.0026	.0000	.0016	.0111	.0001	-.0023
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0100	.0050	.0100	.1000	.0050	.0100
Low	-.0050	-.0100	-.0050	-.0100	-.1000	-.0050	-.0100
Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avg	-.0000	L-.0160	-.0002				
SDev	.0001	.0004	.0001				
%RSD	182.0	2.703	79.78				
#1	.0000	L-.0157	-.0001				
#2	-.0001	L-.0163	-.0003				
Errors	LC Pass	LC Low	LC Pass				
High	.0050	.0050	.0050				
Low	-.0050	-.0050	-.0050				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	---	---	---	---	---	---
Wavlen	361.384	---	---	---	---	---	---
Avge	844754	10000	---	---	---	---	---
SDev	4006.467	.0000000	---	---	---	---	---
%RSD	.4742762	.0000000	---	---	---	---	---
#1	841921	10000	---	---	---	---	---
#2	847587	10000	---	---	---	---	---

Analysis Report

08/05/03 03:32:30 PM

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Method: DAILY2 Sample Name: 230264

Operator:

Run Time: 08/05/03 15:27:27

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0002	-.0055	.0005	.0795	.5477	.0001	-.0026
SDev	.0007	.0025	.0004	.0019	.0003	.0000	.0063
%RSD	371.6	45.99	84.96	2.407	.0575	12.92	240.5

#1	-.0007	-.0073	.0002	.0809	.5479	.0000	-.0071
#2	.0003	-.0037	.0008	.0782	.5475	.0001	.0018

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	22.26	.0000	-.0001	.0006	.1162	.0120	3.003
SDev	.16	.0000	.0004	.0005	.0001	.0130	.006
%RSD	.7408	94.22	724.3	82.50	.0545	108.2	.2016

#1	22.14	.0000	-.0004	.0003	.1162	.0212	3.007
#2	22.38	.0000	.0003	.0010	.1163	.0028	2.998

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	-.0053	.0226	.0002	-.0014	70.31	93.68
SDev	.0008	.0000	.0044	.0001	.0004	.00	.24
%RSD	133.5	.7283	19.49	26.63	29.80	.0062	.2573

#1	-.0012	-.0053	.0195	.0002	-.0011	70.32	93.85
#2	-.0000	-.0053	.0257	.0002	-.0016	70.31	93.51

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0023	.0198	.0056	.0054	.0012	.0971	-.0040
SDev	.0001	.0069	.0009	.0011	.0008	.0172	.0036
%RSD	2.666	34.73	17.01	20.26	65.20	17.71	90.96

#1	.0023	.0246	.0062	.0062	.0006	.0849	-.0014
#2	.0024	.0149	.0049	.0047	.0017	.1092	-.0065

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	103.8	.0028	-.0014	.5943	.0055	.0000	.0012
SDev	1.3	.0048	.0009	.0090	.0010	.0010	.0013
%RSD	1.235	170.1	64.65	1.509	19.11	4324.	104.0

#1	104.7	.0062	-.0020	.5880	.0062	.0007	.0021
#2	102.9	-.0006	-.0008	.6007	.0048	-.0007	.0003

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0122	-.0018	-.0001	.0014	-.0013	.0008	-.0004
SDev	.0001	.0017	.0000	.0038	.0149	.0006	.0001
%RSD	.3941	96.73	25.33	280.2	1131.	65.19	16.13

#1	.0122	-.0030	-.0002	.0041	-.0119	.0005	-.0005
#2	.0122	-.0006	-.0001	-.0013	.0092	.0012	-.0004

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	-.0002	.0812	-.0002
SDev	.0000	.0039	.0001
%RSD	9.550	4.855	88.88

#1	-.0002	.0784	-.0003
#2	-.0002	.0840	-.0001

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	884806	10000	--	--	--	--	--
SDev	10932.58	.0000000	--	--	--	--	--
%RSD	1.235590	.0000000	--	--	--	--	--
#1	892537	10000	--	--	--	--	--
#2	877076	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: 230265

Operator:

Run Time: 08/05/03 15:32:42

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0013	-.0006	.1564	.9612	.0001	.0022
SDev	.0001	.0006	.0026	.0009	.0017	.0000	.0012
%RSD	27.27	50.92	412.9	.5571	.1776	3.364	55.99
#1	.0003	.0017	-.0024	.1570	.9600	.0001	.0013
#2	.0004	.0008	.0012	.1558	.9624	.0001	.0031
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.680	-.0001	-.0002	.0018	.0078	.0228	4.822
SDev	.055	.0001	.0004	.0001	.0005	.0059	.019
%RSD	.7208	200.7	192.0	3.279	6.428	25.94	.3917
#1	7.641	.0000	.0001	.0019	.0082	.0269	4.809
#2	7.719	-.0002	-.0005	.0018	.0075	.0186	4.836
Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0051	.0305	.0002	-.0018	109.5	141.1
SDev	.0003	.0001	.0005	.0001	.0012	.4	.0
%RSD	578.6	1.414	1.524	64.91	64.19	.3959	.0134
#1	.0002	-.0052	.0302	.0001	-.0010	109.1	141.1
#2	-.0003	-.0051	.0308	.0002	-.0026	109.8	141.1
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0069	-.0014	.0001	.0017	.1915	-.0021
SDev	.0007	.0066	.0028	.0007	.0006	.0128	.0022
%RSD	73.16	95.69	206.8	1204.	34.47	6.686	104.9
#1	.0005	.0116	.0006	.0005	.0022	.1825	-.0036
#2	.0015	.0022	-.0034	-.0004	.0013	.2006	-.0005
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	101.9	-.0021	-.0017	.6244	-.0004	-.0018	-.0008
SDev	.9	.0033	.0021	.0028	.0014	.0025	.0006
%RSD	.9196	160.1	118.8	.4469	351.9	135.0	77.50
#1	101.2	-.0045	-.0032	.6264	.0006	-.0036	-.0003
#2	102.5	.0003	-.0003	.6224	-.0014	-.0001	-.0012
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0100	-.0012	-.0001	.0005	.0131	.0003	-.0009
SDev	.0001	.0003	.0000	.0009	.0094	.0008	.0011
%RSD	.5383	20.83	36.77	189.3	71.65	233.1	118.8
#1	.0100	-.0010	-.0001	.0012	.0197	-.0002	-.0017
#2	.0100	-.0014	-.0000	-.0002	.0065	.0009	-.0001

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	-.0000	.0093	-.0004
SDev	.0000	.0015	.0001
%RSD	66.17	15.79	34.86

#1	-.0001	.0082	-.0005
#2	-.0000	.0103	-.0003

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	868724	10000	--	--	--	--	--
SDev	7920.303	.0000000	--	--	--	--	--
%RSD	.9117163	.0000000	--	--	--	--	--

#1	863124	10000	--	--	--	--	--
#2	874325	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: 230266

Operator:

Run Time: 08/05/03 15:37:57

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0000	-.0007	-.0002	.1391	.9154	.0001	-.0038
SDev	.0002	.0021	.0009	.0003	.0000	.0000	.0016
%RSD	525.3	318.0	387.4	.2143	.0023	52.98	43.27

#1	-.0002	-.0022	-.0008	.1389	.9153	.0000	-.0026
#2	.0001	.0008	.0004	.1393	.9154	.0001	-.0049

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	7.610	-.0000	-.0001	.0035	.0103	.0136	3.713
SDev	.022	.0002	.0002	.0003	.0004	.0031	.005
%RSD	.2876	883.5	132.1	9.135	3.563	22.51	.1372

#1	7.595	-.0001	-.0003	.0037	.0101	.0115	3.709
#2	7.626	.0001	-.0000	.0033	.0106	.0158	3.716

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0005	-.0051	.0301	.0053	-.0015	109.5	141.6
SDev	.0005	.0000	.0008	.0001	.0004	.6	.5
%RSD	108.8	.3164	2.527	2.384	29.87	.5404	.3378

#1	-.0008	-.0051	.0306	.0052	-.0018	109.9	141.9
#2	-.0001	-.0051	.0296	.0054	-.0012	109.1	141.3

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0347	.0127	-.0022	.0000	.0020	.1772	-.0043
SDev	.0007	.0002	.0005	.0013	.0017	.0179	.0018
%RSD	1.981	1.435	21.67	4426.	82.77	10.10	41.17

#1	.0342	.0126	-.0026	-.0009	.0008	.1645	-.0030
#2	.0352	.0128	-.0019	.0009	.0032	.1898	-.0055

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	98.92	.0011	-.0024	.5874	-.0007	-.0012	.0001
SDev	.87	.0003	.0026	.0097	.0010	.0016	.0005
%RSD	.8833	21.59	107.9	1.649	141.2	136.3	388.5

#1	99.54	.0010	-.0006	.5805	-.0014	-.0000	-.0002
#2	98.30	.0013	-.0042	.5942	-.0000	-.0023	.0005

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0099	-.0002	.0000	-.0022	.0020	.0004	.0002
SDev	.0000	.0007	.0001	.0010	.0133	.0004	.0014
%RSD	.3613	375.0	3797.	44.48	667.7	94.36	717.2

#1	.0099	-.0007	-.0001	-.0015	-.0074	.0001	.0011
#2	.0099	.0003	.0001	-.0030	.0114	.0007	-.0008

Elem	Y_3710	Zn2062	Zn3496
Units	ppm	ppm	ppm
Avg	-.0000	.0065	-.0003
SDev	.0001	.0011	.0006
%RSD	607.2	16.52	216.9

#1	-.0001	.0058	-.0007
#2	.0001	.0073	.0001

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	843495	10000	--	--	--	--	--
SDev	7482.604	.0000000	--	--	--	--	--
%RSD	.8870952	.0000000	--	--	--	--	--

#1	848786	10000	--	--	--	--	--
#2	838204	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: ccv2

Operator:

Run Time: 08/05/03 15:48:00

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9810	9.981	4.904	4.804	9.870	.9983	4.940
SDev	.0007	.014	.011	.027	.032	.0044	.002
%RSD	.0749	.1413	.2204	.5618	.3230	.4425	.0441
#1	.9815	9.991	4.897	4.785	9.892	.9951	4.942
#2	.9804	9.971	4.912	4.823	9.847	1.001	4.939
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.100	11.00	5.500	5.500	11.00	1.100	5.500
Low	.9000	9.000	4.500	4.500	9.000	.9000	4.500
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.79	1.008	5.013	1.959	1.994	10.11	18.30
SDev	.08	.008	.015	.005	.004	.02	.05
%RSD	.4171	.7806	.3047	.2780	.1959	.2212	.2527
#1	19.73	1.002	5.003	1.955	1.997	10.10	18.33
#2	19.85	1.014	5.024	1.963	1.992	10.13	18.27
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	22.00	1.100	5.500	2.200	2.200	11.00	22.00
Low	18.00	.9000	4.500	1.800	1.800	9.000	18.00
Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.871	4.837	19.96	1.011	5.112	28.11	H40.39
SDev	.005	.009	.03	.003	.027	.29	.08
%RSD	.0939	.1861	.1694	.2927	.5234	1.022	.1896
#1	4.874	4.844	19.94	1.009	5.093	28.31	H40.45
#2	4.868	4.831	19.98	1.013	5.131	27.91	H40.34
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High
High	5.500	5.500	22.00	1.100	5.500	33.00	33.00
Low	4.500	4.500	18.00	.9000	4.500	27.00	27.00
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.890	5.063	4.880	4.917	.9719	1.008	.9813
SDev	.011	.049	.020	.030	.0012	.018	.0027
%RSD	.2182	.9622	.4125	.6158	.1202	1.798	.2766
#1	4.882	5.029	4.894	4.896	.9727	.9949	.9794
#2	4.897	5.098	4.866	4.938	.9711	1.021	.9832
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	5.500	5.500			1.100	1.100	1.100
Low	4.500	4.500			.9000	.9000	.9000
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899

Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	97.79	5.091	5.137	5.018	4.905	5.121	4.866
SDev	.23	.031	.007	.005	.013	.006	.015
%RSD	.2344	.6172	.1394	.1055	.2748	.1113	.2980
#1	97.63	5.113	5.132	5.014	4.895	5.126	4.856
#2	97.95	5.069	5.142	5.021	4.914	5.117	4.877
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High				5.500	5.500	5.500	5.500
Low				4.500	4.500	4.500	4.500
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.040	.9746	4.809	5.112	.9697	4.939	H1.151
SDev	.005	.0044	.003	.017	.0070	.014	.004
%RSD	.1082	.4486	.0628	.3403	.7261	.2889	.3231
#1	5.044	.9715	4.807	5.100	.9747	4.929	H1.149
#2	5.036	.9777	4.811	5.125	.9647	4.949	H1.154
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High
High	5.500	1.100	5.500	5.500	1.100	5.500	1.100
Low	4.500	.9000	4.500	4.500	.9000	4.500	.9000
Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avg	4.946	.9907	4.864				
SDev	.001	.0053	.001				
%RSD	.0137	.5363	.0182				
#1	4.946	.9870	4.865				
#2	4.947	.9945	4.863				
Errors	LC Pass	LC Pass	LC Pass				
High	5.500	1.100	5.500				
Low	4.500	.9000	4.500				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	833876	10000	--	--	--	--	--
SDev	1977.071	.00000000	--	--	--	--	--
%RSD	.2370941	.00000000	--	--	--	--	--
#1	832478	10000	--	--	--	--	--
#2	835274	10000	--	--	--	--	--

Analysis Report

08/05/03 04:00:42 PM

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Method: DAILY2 Sample Name: ccb2
 Run Time: 08/05/03 15:55:38
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	-.0037	-.0011	-.0114	.0001	.0001	-.0008
SDev	.0002	.0015	.0013	.0008	.0000	.0000	.0001
%RSD	53.23	40.24	124.7	7.193	7.535	9.171	11.96
#1	.0005	-.0047	-.0020	-.0108	.0001	.0001	-.0009
#2	.0002	-.0026	-.0001	-.0120	.0001	.0001	-.0008
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0050	.0500	.0050	.0050	.0050
Low	-.0050	-.0500	-.0050	-.0500	-.0050	-.0050	-.0050
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0141	-.0002	-.0006	.0001	.0008	-.0011	.0071
SDev	.0146	.0000	.0003	.0010	.0004	.0146	.0174
%RSD	103.2	19.86	48.71	851.7	47.26	1286.	245.4
#1	.0038	-.0003	-.0008	-.0006	.0006	-.0115	-.0052
#2	.0244	-.0002	-.0004	.0008	.0011	.0092	.0193
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0500	.0050	.0050	.0050	.0050	.0250	.1000
Low	-.0500	-.0050	-.0050	-.0050	-.0050	-.0250	-.1000
Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0001	-.0027	-.0000	.0008	.0207	.0143
SDev	.0008	.0000	.0034	.0000	.0009	.0920	.0006
%RSD	223.9	29.44	128.1	262.1	110.5	445.0	4.494
#1	-.0009	.0001	-.0051	-.0000	.0015	-.0444	.0148
#2	.0002	.0001	-.0003	.0000	.0002	H.0858	.0139
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0050	.0500	.0050	.0050	.0500	.0500
Low	-.0050	-.0050	-.0500	-.0050	-.0050	-.0500	-.0500
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016	.0065	.0015	.0008	-.0003	H.0115	.0013
SDev	.0009	.0046	.0027	.0003	.0020	.0008	.0005
%RSD	56.39	71.82	181.3	35.03	709.8	6.900	37.41
#1	.0010	.0032	-.0004	.0010	-.0017	H.0110	.0016
#2	.0023	.0097	.0034	.0006	.0011	H.0121	.0010
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC High	LC Pass
High	.0050	.0100			.0050	.0100	.0100
Low	-.0050	-.0100			-.0050	-.0100	-.0100
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899

Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	98.90	-.0045	-.0040	.0050	.0011	-.0041	-.0018
SDev	1.20	.0000	.0004	.0073	.0007	.0003	.0006
%RSD	1.211	.7506	9.768	147.1	66.33	6.493	35.56
#1	99.74	-.0045	-.0037	-.0002	.0006	-.0040	-.0013
#2	98.05	-.0046	-.0042	H.0101	.0016	-.0043	-.0022
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High				.0100	.0030	.0050	.0050
Low				-.0100	-.0030	-.0050	-.0050
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079.
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0020	.0000	.0017	.0095	-.0002	-.0037
SDev	.0000	.0014	.0001	.0015	.0079	.0005	.0014
%RSD	33.81	68.11	1419.	89.55	82.77	245.0	37.34
#1	.0000	-.0030	-.0001	.0006	.0151	-.0006	-.0027
#2	.0001	-.0011	.0001	.0027	.0040	.0002	-.0046
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0100	.0050	.0100	.1000	.0050	.0100
Low	-.0050	-.0100	-.0050	-.0100	-.1000	-.0050	-.0100
Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avg	.0000	L-.0195	-.0002				
SDev	.0001	.0005	.0004				
%RSD	278.1	2.708	197.7				
#1	-.0000	L-.0199	-.0004				
#2	.0001	L-.0192	.0001				
Errors	LC Pass	LC Low	LC Pass				
High	.0050	.0050	.0050				
Low	-.0050	-.0050	-.0050				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	---	---	---	---	---	---
Wavlen	361.384	---	---	---	---	---	---
Avge	843300	10000	---	---	---	---	---
SDev	10214.16	.0000000	---	---	---	---	---
%RSD	1.211213	.0000000	---	---	---	---	---
#1	850522	10000	---	---	---	---	---
#2	836077	10000	---	---	---	---	---

Analysis Report

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Method: DAILY2 Sample Name: 230267

Operator:

Run Time: 08/05/03 16:00:53

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0061	.0001	.0229	.0006	.0001	.0028
SDev	.0007	.0050	.0009	.0014	.0001	.0000	.0017
%RSD	392.3	81.50	719.5	6.140	9.762	4.220	62.37

#1	.0006	.0026	.0005	.0219	.0006	.0001	.0016
#2	.0003	.0096	.0008	.0239	.0005	.0001	.0040

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	98.78	.0001	.0000	.0001	.0031	.0043	22.90
SDev	.14	.0004	.0005	.0000	.0002	.0079	.00
%RSD	.1443	282.1	3249.	40.46	5.739	185.8	.0083

#1	98.88	.0001	.0003	.0001	.0030	.0099	22.90
#2	98.68	.0004	.0004	.0001	.0032	.0013	22.90

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0053	.0076	.0002	.0015	103.3	137.6
SDev	.0004	.0001	.0011	.0000	.0015	.0	.4
%RSD	146.1	.9579	14.78	2.625	101.6	.0207	.3193

#1	.0005	.0053	.0068	.0002	.0026	103.3	137.9
#2	.0000	.0053	.0084	.0002	.0004	103.4	137.3

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014	.0048	.0021	.0005	.0010	.0012	.0039
SDev	.0009	.0063	.0042	.0027	.0011	.0085	.0001
%RSD	60.93	131.5	194.2	572.3	101.6	678.6	1.566

#1	.0020	.0093	.0008	.0014	.0018	.0072	.0040
#2	.0008	.0003	.0051	.0024	.0003	.0047	.0039

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	96.94	.0030	.0027	.0267	.0004	.0008	.0007
SDev	.02	.0003	.0008	.0095	.0004	.0006	.0003
%RSD	.0216	8.675	28.58	35.46	96.99	75.60	37.37

#1	96.93	.0032	.0022	.0200	.0007	.0004	.0009
#2	96.96	.0028	.0033	.0334	.0001	.0012	.0005

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032	.0020	.0001	.0013	.0081	.0003	.0011
SDev	.0000	.0015	.0001	.0000	.0253	.0002	.0022
%RSD	.7414	72.09	85.18	1.037	312.9	55.35	195.9

#1	.0031	.0010	.0001	.0013	.0098	.0002	.0027
#2	.0032	.0031	.0000	.0013	.0260	.0005	.0004

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	-.0003	-.0065	-.0002
SDev	.0001	.0018	.0003
%RSD	48.86	27.87	133.9
#1	-.0002	-.0078	-.0004
#2	-.0004	-.0052	-.0000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	826588	10000	--	--	--	--	--
SDev	178.1909	.0000000	--	--	--	--	--
%RSD	.0215574	.0000000	--	--	--	--	--
#1	826462	10000	--	--	--	--	--
#2	826714	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: 230267D

Operator:

Run Time: 08/05/03 16:06:08

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	-.0044	-.0002	-.0279	.0006	.0001	-.0010
SDev	.0008	.0061	.0027	.0008	.0000	.0000	.0041
%RSD	423.9	140.3	1276.	2.834	3.210	1.959	421.6

#1	-.0004	-.0087	.0017	-.0273	.0007	.0001	-.0039
#2	.0008	-.0000	-.0021	-.0285	.0006	.0001	.0019

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	94.83	-.0001	-.0002	.0002	.0028	-.0153	22.13
SDev	.12	.0001	.0006	.0008	.0001	.0034	.03
%RSD	.1297	186.3	221.1	329.6	2.366	22.29	.1338

#1	94.92	-.0002	-.0006	.0008	.0028	-.0177	22.11
#2	94.74	.0000	.0001	-.0003	.0029	-.0129	22.16

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0005	-.0053	.0064	.0002	-.0015	99.42	132.1
SDev	.0003	.0001	.0051	.0001	.0003	.23	.3
%RSD	71.68	1.076	80.63	49.32	22.29	.2289	.2097

#1	-.0007	-.0053	.0027	.0001	-.0013	99.26	132.3
#2	-.0002	-.0052	.0100	.0003	-.0018	99.58	131.9

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0014	-.0002	.0019	.0018	-.0023	.0173	-.0033
SDev	.0005	.0078	.0011	.0027	.0014	.0054	.0004
%RSD	32.63	4593.	56.65	154.7	62.56	31.07	13.03

#1	.0018	-.0057	.0011	.0037	-.0033	.0135	-.0030
#2	.0011	.0053	.0026	-.0002	-.0013	.0211	-.0036

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	102.6	-.0026	-.0029	.0312	.0018	-.0028	-.0009
SDev	.5	.0028	.0038	.0096	.0015	.0016	.0017
%RSD	.4596	105.5	129.8	30.77	81.36	57.01	185.0

#1	102.9	-.0007	-.0056	.0244	.0029	-.0040	-.0021
#2	102.2	-.0046	-.0002	.0380	.0008	-.0017	.0003

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0030	-.0009	-.0000	.0030	.0212	-.0002	-.0056
SDev	.0000	.0015	.0001	.0023	.0047	.0001	.0003
%RSD	.7829	162.6	159.7	77.44	22.22	32.15	4.603

#1	.0030	-.0019	.0000	.0047	.0178	-.0001	-.0054
#2	.0031	.0001	-.0001	.0014	.0245	-.0002	-.0058

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	-.0002	-.0067	-.0003
SDev	.0001	.0012	.0002
%RSD	30.74	17.66	59.02

#1	-.0002	-.0076	-.0004
#2	-.0003	-.0059	-.0002

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	874636	10000	--	--	--	--	--
SDev	3953.434	.0000000	--	--	--	--	--
%RSD	.4520088	.0000000	--	--	--	--	--
#1	877432	10000	--	--	--	--	--
#2	871841	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: 230268

Operator:

Run Time: 08/05/03 16:11:23

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	.0001	-.0017	-.0293	.0017	.0001	-.0016
SDev	.0005	.0042	.0014	.0010	.0000	.0000	.0000
%RSD	172.6	4670.	81.79	3.525	.8173	10.94	.8096

#1	-.0001	-.0029	-.0026	-.0286	.0017	.0001	-.0016
#2	.0007	.0031	-.0007	-.0301	.0018	.0001	-.0017

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	95.22	.0001	.0003	-.0003	.0009	-.0113	22.22
SDev	.01	.0001	.0003	.0006	.0001	.0068	.07
%RSD	.0056	103.0	97.39	233.1	12.22	60.50	.2995

#1	95.21	.0000	.0001	-.0007	.0010	-.0065	22.18
#2	95.22	.0001	.0005	.0002	.0008	-.0162	22.27

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0004	-.0053	.0050	.0001	-.0021	99.77	132.3
SDev	.0002	.0000	.0016	.0001	.0006	.11	.2
%RSD	46.10	.3130	32.54	49.18	29.01	.1087	.1326

#1	-.0002	-.0053	.0039	.0001	-.0025	99.70	132.5
#2	-.0005	-.0053	.0062	.0002	-.0017	99.85	132.2

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	-.0002	-.0019	.0008	-.0014	.0104	-.0042
SDev	.0004	.0009	.0002	.0008	.0008	.0018	.0042
%RSD	212.7	496.4	9.791	102.4	54.89	16.95	99.01

#1	.0004	-.0008	-.0020	.0002	-.0020	.0092	-.0071
#2	-.0001	.0004	-.0018	.0014	-.0009	.0117	-.0013

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	102.4	-.0033	-.0010	.0408	-.0001	-.0018	-.0026
SDev	.1	.0006	.0030	.0102	.0006	.0022	.0005
%RSD	.0708	18.92	293.7	24.99	641.0	124.3	17.83

#1	102.4	-.0029	.0011	.0336	-.0005	-.0002	-.0029
#2	102.5	-.0038	-.0031	.0480	.0003	-.0033	-.0022

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0031	-.0013	.0000	.0011	.0141	-.0010	-.0037
SDev	.0000	.0019	.0001	.0034	.0053	.0010	.0028
%RSD	.0671	143.2	3293.	307.1	37.31	102.6	75.37

#1	.0031	.0000	.0001	.0035	.0178	-.0003	-.0017
#2	.0031	-.0027	-.0001	-.0013	.0104	-.0017	-.0056

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	-.0004	-.0069	-.0004
SDev	.0001	.0014	.0002
%RSD	17.20	19.65	38.42

#1	-.0003	-.0078	-.0003
#2	-.0004	-.0059	-.0006

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	873581	10000	--	--	--	--	--
SDev	622.2540	.0000000	--	--	--	--	--
%RSD	.0712303	.0000000	--	--	--	--	--
#1	873141	10000	--	--	--	--	--
#2	874021	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: 230768s
 Run Time: 08/05/03 16:16:39
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

2
 JH/10/03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.0522	2.124	2.078	-.0279	2.058	.0499	-.0038
SDev	.0000	.000	.007	.0002	.000	.0000	.0022
%RSD	.0807	.0063	.3403	.8385	.0223	.0497	55.97
#1	.0522	2.124	2.083	-.0281	2.058	.0499	-.0054
#2	.0522	2.124	2.073	-.0278	2.058	.0499	-.0023
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	121.3	.0521	.5187	.2032	.2615	1.089	48.62
SDev	.2	.0002	.0014	.0005	.0005	.002	.09
%RSD	.1638	.3777	.2640	.2347	.1800	.1715	.1826
#1	121.1	.0522	.5178	.2035	.2611	1.090	48.56
#2	121.4	.0519	.5197	.2028	.2618	1.087	48.68
Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.0004	-.0052	20.83	.5127	-.0020	133.2	175.6
SDev	.0007	.0001	.02	.0002	.0007	.1	.4
%RSD	153.2	1.030	.0908	.0309	33.68	.0681	.2166
#1	-.0009	-.0052	20.82	.5126	-.0024	133.2	175.9
#2	.0000	-.0051	20.85	.5128	-.0015	133.3	175.3
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.5082	.0015	.5128	.5188	-.0025	.0107	.5100
SDev	.0033	.0159	.0027	.0015	.0010	.0049	.0025
%RSD	.6444	1032.	.5287	.2898	42.21	45.90	.4834
#1	.5059	.0128	.5109	.5199	-.0032	.0072	.5083
#2	.5105	-.0097	.5147	.5178	-.0017	.0141	.5118
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	93.83	2.159	2.194	.0514	.5168	2.182	-.0030
SDev	.45	.016	.009	.0045	.0001	.001	.0006
%RSD	.4778	.7424	.4117	8.692	.0191	.0312	19.63
#1	94.15	2.148	2.201	.0482	.5169	2.183	-.0026
#2	93.52	2.170	2.188	.0546	.5168	2.182	-.0034
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	4.164	-.0150	.0001	2.145	-.0254	.5186	-.0033
SDev	.010	.0003	.0000	.001	.0031	.0007	.0029
%RSD	.2496	2.165	56.72	.0666	12.31	.1265	87.31
#1	4.156	-.0148	.0001	2.146	-.0276	.5181	-.0013
#2	4.171	-.0152	.0000	2.144	-.0232	.5190	-.0054

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	-.0004	.5173	-.0008
SDev	.0000	.0009	.0004
%RSD	3.462	.1727	56.32

#1	-.0004	.5166	-.0011
#2	-.0004	.5179	-.0005

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	800118	10000	--	--	--	--	--
SDev	3880.602	.0000000	--	--	--	--	--
%RSD	.4850037	.0000000	--	--	--	--	--
#1	802862	10000	--	--	--	--	--
#2	797374	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: 230769

Operator:

Run Time: 08/05/03 16:21:54

Comment:

Mode: CONC Corr. Factor: 1

2
 JP
 8/10/03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	-.0058	-.0000	.0616	.4212	.0001	.0008
SDev	.0000	.0041	.0017	.0005	.0003	.0000	.0055
%RSD	12.89	70.90	3825.	.7435	.0687	13.14	675.7

#1	.0003	-.0087	.0011	.0620	.4214	.0002	.0047
#2	.0004	-.0029	-.0012	.0613	.4210	.0001	-.0031

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	281.7	-.0001	.0001	.0011	.0081	.0177	2.370
SDev	.1	.0000	.0003	.0000	.0003	.0189	.001
%RSD	.0335	34.46	345.5	2.192	4.070	106.8	.0254

#1	281.8	-.0001	.0003	.0011	.0079	.0043	2.370
#2	281.7	-.0001	-.0001	.0012	.0083	.0311	2.369

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0011	-.0051	.0185	.0008	-.0014	47.98	69.03
SDev	.0007	.0000	.0033	.0000	.0005	.02	.06
%RSD	67.76	.2934	17.74	1.735	32.55	.0346	.0838

#1	-.0016	-.0050	.0162	.0008	-.0018	47.97	69.07
#2	-.0006	-.0051	.0208	.0008	-.0011	47.99	68.99

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0009	.0035	-.0026	.0029	.0014	.0849	-.0055
SDev	.0002	.0145	.0005	.0023	.0029	.0039	.0004
%RSD	26.19	418.7	20.07	80.33	206.2	4.616	7.919

#1	.0011	.0137	-.0030	.0045	-.0006	.0821	-.0052
#2	.0007	-.0068	-.0023	.0012	.0034	.0876	-.0058

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	99.70	-.0003	-.0011	.3813	.0010	-.0008	.0009
SDev	.30	.0010	.0013	.0033	.0014	.0005	.0011
%RSD	.3042	316.1	121.1	.8592	129.8	65.04	115.4

#1	99.91	.0004	-.0020	.3790	.0020	-.0012	.0017
#2	99.49	-.0010	-.0002	.3836	.0001	-.0004	.0002

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0504	-.0028	-.0004	-.0011	.0122	.0003	-.0002
SDev	.0001	.0001	.0000	.0055	.0033	.0004	.0001
%RSD	.1012	4.351	9.855	499.2	27.09	120.3	30.90

#1	.0504	-.0027	-.0004	-.0050	.0146	.0006	-.0001
#2	.0504	-.0029	-.0005	.0028	.0099	.0000	-.0002

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	-.0004	.0777	-.0007
SDev	.0000	.0006	.0004
%RSD	10.87	.7056	50.64

#1	-.0004	.0773	-.0005
#2	-.0004	.0780	-.0010

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	850144	10000	--	--	--	--	--
SDev	2600.032	.0000000	--	--	--	--	--
%RSD	.3058341	.0000000	--	--	--	--	--
#1	851983	10000	--	--	--	--	--
#2	848306	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: 230770
Run Time: 08/05/03 16:27:10
Comment:
Mode: CONC Corr. Factor: 1

Operator:

2
JR
8/10/03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	-.0082	-.0015	.0533	.4316	.0001	.0001
SDev	.0001	.0032	.0008	.0003	.0006	.0000	.0019
%RSD	16.95	39.50	53.45	.4707	.1312	10.01	1739.

#1	.0003	-.0105	-.0010	.0532	.4320	.0001	.0014
#2	.0002	-.0059	-.0021	.0535	.4312	.0002	-.0012

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	76.35	-.0001	-.0004	.0014	.0087	.0147	2.759
SDev	.01	.0000	.0004	.0002	.0001	.0191	.016
%RSD	.0092	18.54	90.58	13.88	.6853	130.1	.5926

#1	76.36	-.0001	-.0002	.0013	.0086	.0282	2.771
#2	76.35	-.0001	-.0007	.0015	.0087	.0012	2.748

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	-.0053	.0199	.0002	-.0024	53.97	73.30
SDev	.0002	.0000	.0017	.0000	.0001	.46	.01
%RSD	46.15	.5213	8.594	67.969	3.843	.8526	.0185

#1	-.0004	-.0053	.0211	.0002	-.0023	54.29	73.29
#2	-.0007	-.0053	.0187	.0002	-.0025	53.64	73.31

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011	.0118	.0010	.0027	.0018	.0871	-.0030
SDev	.0001	.0016	.0003	.0000	.0011	.0094	.0000
%RSD	11.16	13.82	26.95	.4863	64.19	10.73	.6342

#1	.0010	.0106	.0011	.0027	.0010	.0805	-.0030
#2	.0012	.0129	.0008	.0027	.0026	.0937	-.0030

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	103.5	.0015	-.0065	.3797	.0021	-.0038	.0011
SDev	.4	.0001	.0036	.0032	.0001	.0023	.0015
%RSD	.4004	7.701	54.51	.8539	4.474	60.86	138.7

#1	103.2	.0016	-.0091	.3774	.0022	-.0055	.0000
#2	103.8	.0014	-.0040	.3820	.0020	-.0022	.0021

Elem	S_4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0208	-.0034	-.0001	-.0016	.0155	.0007	-.0009
SDev	.0000	.0026	.0001	.0035	.0135	.0008	.0002
%RSD	.0491	78.48	59.88	213.1	87.40	109.1	20.36

#1	.0208	-.0052	-.0002	.0008	.0250	.0002	-.0010
#2	.0208	-.0015	-.0001	-.0041	.0059	.0012	-.0007

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avge	-.0003	.0379	-.0005
SDev	.0001	.0005	.0002
%RSD	22.96	1.312	28.76

#1	-.0003	.0376	-.0004
#2	-.0002	.0383	-.0007

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	---	---	---	---	---	---
Wavlen	361.384	---	---	---	---	---	---
Avge	882523	10000	---	---	---	---	---
SDev	3515.735	.0000000	---	---	---	---	---
%RSD	.3983732	.0000000	---	---	---	---	---

#1	880037	10000	---	---	---	---	---
#2	885009	10000	---	---	---	---	---

Handwritten signature and date: 8/11/03

Analysis Report

230271 08/05/03 04:37:28 PM

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Method: DAILY2 Sample Name: 223771 Operator:
 Run Time: 08/05/03 16:32:25
 Comment:
 Mode: CONC Corr. Factor: 1

Handwritten: 8/10/03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0000	-.0035	.0003	.0603	.4450	.0001	.0008
SDev	.0012	.0045	.0020	.0003	.0000	.0000	.0063
%RSD	8932.	128.8	696.9	.4803	.0053	3.590	815.6

#1	-.0009	-.0066	.0017	.0601	.4450	.0001	-.0037
#2	.0008	-.0003	-.0011	.0605	.4450	.0001	.0052

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	78.20	-.0000	-.0010	.0015	.0095	.0145	2.944
SDev	.07	.0001	.0005	.0003	.0003	.0092	.014
%RSD	.0911	369.3	48.91	17.34	3.184	63.39	.4631

#1	78.25	-.0001	-.0013	.0014	.0093	.0080	2.934
#2	78.15	.0000	-.0007	.0017	.0098	.0210	2.953

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0004	-.0036	.0220	.0003	-.0019	55.39	75.55
SDev	.0007	.0000	.0033	.0000	.0002	.35	.36
%RSD	180.2	.5170	15.17	7.681	8.286	.6402	.4794

#1	-.0009	-.0037	.0196	.0003	-.0020	55.64	75.81
#2	.0001	-.0036	.0244	.0004	-.0018	55.14	75.30

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0021	.0082	-.0008	.0011	.0029	.1373	-.0010
SDev	.0009	.0078	.0019	.0059	.0030	.0192	.0048
%RSD	40.63	95.94	244.2	534.1	103.9	13.97	488.3

#1	.0027	.0137	-.0021	.0052	.0008	.1237	-.0044
#2	.0015	.0026	.0006	-.0030	.0051	.1508	.0024

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	99.55	.0008	-.0024	.3872	.0005	-.0013	.0013
SDev	.83	.0031	.0045	.0071	.0033	.0041	.0026
%RSD	.8321	380.6	188.1	1.824	676.8	307.6	202.2

#1	100.1	.0030	.0008	.3822	.0028	.0016	-.0006
#2	98.97	-.0014	-.0056	.3922	-.0018	-.0042	.0031

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0215	-.0031	-.0000	-.0013	.0123	.0005	-.0017
SDev	.0000	.0015	.0000	.0031	.0241	.0003	.0022
%RSD	.0266	46.86	8326.	238.5	195.3	72.88	132.1

#1	.0215	-.0021	.0000	.0009	-.0047	.0007	-.0032
#2	.0215	-.0042	-.0000	-.0035	.0294	.0002	-.0001

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avge	-.0003	.0391	-.0004
SDev	.0000	.0006	.0001
%RSD	8.222	1.566	20.13

#1	-.0003	.0387	-.0003
#2	-.0003	.0395	-.0004

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	848924	10000	--	--	--	--	--
SDev	7040.662	.0000000	--	--	--	--	--
%RSD	.8293636	.0000000	--	--	--	--	--
#1	853902	10000	--	--	--	--	--
#2	843945	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: pbw-H05L2 pg53-213 Operator:
 Run Time: 08/05/03 16:49:17
 Comment:
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	-.0074	-.0029	-.0258	.0000	.0001	-.0011
SDev	.0002	.0022	.0024	.0004	.0000	.0000	.0002
%RSD	48.12	29.87	83.60	1.438	17.23	6.708	20.24

#1	-.0004	-.0058	-.0046	-.0256	.0000	.0001	-.0012
#2	-.0002	-.0090	-.0012	-.0261	.0000	.0001	-.0009

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0050	.0500	.0050	.0050	.0050
Low	-.0050	-.0500	-.0050	-.0500	-.0050	-.0050	-.0050

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0227	-.0001	-.0004	.0004	.0008	-.0125	.0027
SDev	.0001	.0000	.0006	.0011	.0003	.0037	.0007
%RSD	.4541	32.11	139.5	245.7	31.04	29.88	24.38

#1	.0226	-.0001	-.0000	.0012	.0006	-.0151	.0023
#2	.0228	-.0001	-.0009	-.0003	.0010	-.0098	.0032

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0500	.0050	.0050	.0050	.0050	.0250	.1000
Low	-.0500	-.0050	-.0050	-.0050	-.0050	-.0250	-.1000

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0000	-.0012	-.0012	.0000	-.0024	H.0881	.0263
SDev	.0002	.0001	.0004	.0001	.0000	.0419	.0015
%RSD	371.0	5.438	31.52	219.6	1.698	47.53	5.811

#1	.0001	-.0011	-.0015	-.0000	-.0024	H.0585	.0252
#2	-.0001	-.0012	-.0009	.0001	-.0023	H.1177	.0274

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass
High	.0050	.0050	.0500	.0050	.0050	.0500	.0500
Low	-.0050	-.0050	-.0500	-.0050	-.0050	-.0500	-.0500

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0007	-.0004	.0011	.0001	.0069	-.0012
SDev	.0002	.0133	.0021	.0005	.0006	.0034	.0004
%RSD	18.38	1815.	587.7	48.88	648.2	49.38	32.07

#1	.0009	H.0101	-.0018	.0014	-.0003	.0045	-.0009
#2	.0012	-.0087	.0011	.0007	.0005	.0094	-.0015

Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	.0050	.0100			.0050	.0100	.0100
Low	-.0050	-.0100			-.0050	-.0100	-.0100

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
------	--------	--------	--------	--------	-------	-------	--------

Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	99.50	-.0038	-.0017	H.0110	.0006	-.0024	-.0015
SDev	.34	.0025	.0007	.0016	.0003	.0013	.0014
%RSD	.3455	65.50	43.28	14.82	56.26	55.23	89.76
#1	99.25	-.0056	-.0022	.0098	.0004	-.0033	-.0025
#2	99.74	-.0020	-.0012	H.0121	.0009	-.0015	-.0006
Errors	NOCHECK	NOCHECK	NOCHECK	LC High	LC Pass	LC Pass	LC Pass
High				.0100	.0030	.0050	.0050
Low				-.0100	-.0030	-.0050	-.0050
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	-.0026	-.0001	-.0056	.0072	-.0001	-.0023
SDev	.0000	.0016	.0000	.0011	.0067	.0007	.0004
%RSD	.8058	62.22	16.14	19.69	92.26	881.1	16.48
#1	.0001	-.0015	-.0001	-.0048	.0025	.0004	-.0020
#2	.0001	-.0038	-.0001	-.0064	.0119	-.0006	-.0026
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0100	.0050	.0100	.1000	.0050	.0100
Low	-.0050	-.0100	-.0050	-.0100	-.1000	-.0050	-.0100
Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avge	-.0000	L-.0228	-.0003				
SDev	.0000	.0005	.0003				
%RSD	275.2	2.384	107.4				
#1	-.0000	L-.0224	-.0001				
#2	.0000	L-.0232	-.0005				
Errors	LC Pass	LC Low	LC Pass				
High	.0050	.0050	.0050				
Low	-.0050	-.0050	-.0050				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	848423	10000	--	--	--	--	--
SDev	2964.192	.0000000	--	--	--	--	--
%RSD	.3493766	.0000000	--	--	--	--	--
#1	846327	10000	--	--	--	--	--
#2	850519	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: lcsw-H05W2

Operator:

Run Time: 08/05/03 16:54:33

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0514	2.008	2.021	-.0253	2.059	.0512	-.0020
SDev	.0002	.003	.007	.0011	.001	.0001	.0005
%RSD	.4655	.1728	.3585	4.348	.0459	.2343	23.63

#1	.0512	2.011	2.016	-.0261	2.059	.0511	-.0017
#2	.0515	2.006	2.026	-.0245	2.060	.0513	-.0023

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	20.55	.0514	.5130	.2033	.2577	1.089	17.71
SDev	.05	.0001	.0018	.0003	.0006	.018	.02
%RSD	.2233	.2448	.3516	.1434	.2173	1.653	.1411

#1	20.52	.0513	.5117	.2030	.2573	1.076	17.73
#2	20.58	.0515	.5142	.2035	.2581	1.102	17.69

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	-.0002	20.87	.5147	-.0028	18.79	26.77
SDev	.0005	.0001	.03	.0009	.0006	.05	.07
%RSD	158.0	57.69	.1603	.1741	20.44	.2913	.2621

#1	.0000	-.0002	20.85	.5140	-.0032	18.83	26.82
#2	-.0007	-.0001	20.90	.5153	-.0024	18.75	26.72

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.5042	-.0011	.5003	.5096	.0003	.0155	.4924
SDev	.0001	.0037	.0032	.0027	.0004	.0011	.0006
%RSD	.0221	342.0	.6426	.5351	173.8	6.836	.1168

#1	.5043	.0015	.5026	.5116	-.0001	.0147	.4920
#2	.5041	-.0037	.4980	.5077	.0006	.0162	.4928

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	93.92	2.054	2.096	.0156	.5065	2.082	-.0011
SDev	.58	.009	.012	.0018	.0029	.011	.0011
%RSD	.6224	.4304	.5898	11.83	.5704	.5374	96.84

#1	94.34	2.060	2.105	.0143	.5086	2.090	-.0019
#2	93.51	2.048	2.088	.0169	.5045	2.074	-.0004

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.177	-.0146	-.0000	2.086	-.0218	.5099	-.0028
SDev	.007	.0006	.0001	.001	.0115	.0005	.0036
%RSD	.1759	3.899	240.8	.0478	52.86	.0902	127.7

#1	4.172	-.0151	-.0001	2.087	-.0137	.5102	-.0054
#2	4.182	-.0142	.0000	2.085	-.0300	.5096	-.0003

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	-.0001	.4933	-.0004
SDev	.0001	.0002	.0002
%RSD	78.15	.0323	50.69

#1	-.0001	.4932	-.0003
#2	-.0002	.4934	-.0005

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	800928	10000	--	--	--	--	--
SDev	4993.588	.0000000	--	--	--	--	--
%RSD	.6234753	.0000000	--	--	--	--	--
#1	804459	10000	--	--	--	--	--
#2	797397	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: 230272

Operator:

Run Time: 08/05/03 16:59:48

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	-.0049	.0019	.0522	.4373	.0002	-.0027
SDev	.0001	.0001	.0007	.0008	.0011	.0000	.0051
%RSD	63.61	2.849	37.85	1.507	.2505	12.76	189.5

#1	-.0001	-.0049	.0024	.0528	.4365	.0002	.0009
#2	-.0002	-.0048	.0014	.0517	.4380	.0002	-.0063

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	78.60	-.0000	-.0009	.0014	.0088	.0227	2.928
SDev	.23	.0000	.0001	.0008	.0000	.0361	.027
%RSD	.2916	233.8	13.72	53.92	.0502	159.3	.9134

#1	78.76	.0000	-.0009	.0009	.0088	.0482	2.947
#2	78.43	-.0000	-.0008	.0019	.0088	-.0029	2.910

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	-.0054	.0197	.0004	-.0026	54.77	74.79
SDev	.0003	.0001	.0039	.0000	.0002	.54	.16
%RSD	49.79	1.594	19.90	9.441	8.929	.9941	.2112

#1	-.0008	-.0053	.0169	.0004	-.0024	55.16	74.91
#2	-.0004	-.0054	.0225	.0004	-.0027	54.39	74.68

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023	.0107	-.0002	.0015	.0045	.1022	-.0017
SDev	.0010	.0038	.0009	.0013	.0072	.0156	.0023
%RSD	42.66	35.28	434.0	85.44	161.3	15.30	135.5

#1	.0016	.0134	.0004	.0024	.0095	.0912	-.0034
#2	.0031	.0080	-.0008	.0006	-.0006	.1133	-.0001

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	99.65	-.0022	-.0009	.3751	.0009	-.0013	.0001
SDev	1.26	.0012	.0013	.0017	.0011	.0013	.0012
%RSD	1.269	55.65	142.4	.4593	121.3	95.68	1376.

#1	98.76	-.0030	-.0018	.3763	.0018	-.0022	.0009
#2	100.5	-.0013	.0000	.3739	.0001	-.0004	-.0007

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0216	-.0027	-.0001	-.0011	.0170	.0002	-.0005
SDev	.0001	.0020	.0001	.0006	.0072	.0004	.0018
%RSD	.4876	75.55	50.81	59.89	42.11	185.3	358.2

#1	.0217	-.0012	-.0002	-.0006	.0221	.0005	-.0018
#2	.0215	-.0041	-.0001	-.0015	.0119	-.0001	.0008

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avge	-.0003	.0272	-.0001
SDev	.0001	.0002	.0005
%RSD	40.99	.8636	589.1

#1	-.0003	.0270	.0003
#2	-.0002	.0274	-.0004

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	849678	10000	--	--	--	--	--
SDev	10785.50	.0000000	--	--	--	--	--
%RSD	1.269362	.0000000	--	--	--	--	--

#1	842052	10000	--	--	--	--	--
#2	857305	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: ccv3

Operator:

Run Time: 08/05/03 17:09:51

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9764	9.946	4.863	4.781	9.832	.9871	4.943
SDev	.0027	.001	.006	.030	.013	.0006	.008
%RSD	.2758	.0138	.1231	.6349	.1324	.0614	.1623
#1	.9783	9.945	4.859	4.760	9.823	.9867	4.938
#2	.9745	9.947	4.868	4.802	9.841	.9876	4.949
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.100	11.00	5.500	5.500	11.00	1.100	5.500
Low	.9000	9.000	4.500	4.500	9.000	.9000	4.500
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.59	.9941	4.980	1.948	2.000	10.01	18.43
SDev	.02	.0005	.001	.000	.002	.02	.03
%RSD	.0867	.0507	.0193	.0135	.0895	.2207	.1371
#1	19.58	.9938	4.981	1.948	1.998	9.999	18.42
#2	19.61	.9945	4.980	1.948	2.001	10.03	18.45
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	22.00	1.100	5.500	2.200	2.200	11.00	22.00
Low	18.00	.9000	4.500	1.800	1.800	9.000	18.00
Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.865	4.856	19.77	1.002	5.093	28.03	H40.68
SDev	.001	.005	.03	.000	.012	.11	.02
%RSD	.0222	.1091	.1460	.0011	.2364	.3805	.0567
#1	4.866	4.860	19.75	1.002	5.084	28.11	H40.70
#2	4.865	4.852	19.79	1.002	5.101	27.96	H40.66
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High
High	5.500	5.500	22.00	1.100	5.500	33.00	33.00
Low	4.500	4.500	18.00	.9000	4.500	27.00	27.00
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.831	5.189	4.807	4.868	.9693	1.017	.9841
SDev	.007	.021	.007	.027	.0001	.010	.0033
%RSD	.1348	.4042	.1502	.5531	.0096	.9671	.3373
#1	4.826	5.203	4.812	4.849	.9692	1.010	.9817
#2	4.835	5.174	4.802	4.887	.9694	1.024	.9864
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	5.500	5.500			1.100	1.100	1.100
Low	4.500	4.500			.9000	.9000	.9000
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899

Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	99.25	5.058	5.116	5.002	4.847	5.096	4.833
SDev	.23	.001	.022	.008	.016	.015	.002
%RSD	.2339	.0181	.4271	.1611	.3206	.2918	.0454
#1	99.08	5.057	5.100	5.008	4.836	5.086	4.831
#2	99.41	5.058	5.131	4.997	4.858	5.107	4.834
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High				5.500	5.500	5.500	5.500
Low				4.500	4.500	4.500	4.500
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.045	.9682	4.797	5.079	.9782	4.900	H1.143
SDev	.005	.0035	.010	.024	.0052	.003	.002
%RSD	.0986	.3605	.2086	.4713	.5314	.0522	.2128
#1	5.042	.9658	4.790	5.063	.9818	4.899	H1.145
#2	5.049	.9707	4.804	5.096	.9745	4.902	H1.141
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High
High	5.500	1.100	5.500	5.500	1.100	5.500	1.100
Low	4.500	.9000	4.500	4.500	.9000	4.500	.9000
Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avg	4.945	.9692	4.888				
SDev	.005	.0001	.010				
%RSD	.0959	.0135	.1977				
#1	4.942	.9693	4.881				
#2	4.949	.9691	4.895				
Errors	LC Pass	LC Pass	LC Pass				
High	5.500	1.100	5.500				
Low	4.500	.9000	4.500				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	846281	10000	--	--	--	--	--
SDev	1969.999	.0000000	--	--	--	--	--
%RSD	.2327831	.0000000	--	--	--	--	--
#1	844888	10000	--	--	--	--	--
#2	847674	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: ccb3

Operator:

Run Time: 08/05/03 17:17:30

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0006	-.0097	.0001	-.0258	.0001	.0002	.0029
SDev	.0003	.0035	.0008	.0026	.0001	.0000	.0036
%RSD	48.87	35.57	523.8	9.997	131.8	3.961	126.7
#1	.0008	-.0122	.0007	-.0240	.0000	.0002	.0003
#2	.0004	-.0073	-.0004	-.0277	.0002	.0002	H.0054
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0050	.0500	.0050	.0050	.0050
Low	-.0050	-.0500	-.0050	-.0500	-.0050	-.0050	-.0050
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0198	.0000	.0001	-.0003	.0004	-.0072	-.0044
SDev	.0236	.0002	.0002	.0005	.0002	.0006	.0073
%RSD	118.8	554.7	146.5	176.7	51.79	8.568	166.2
#1	.0032	-.0001	-.0000	-.0007	.0005	-.0067	-.0096
#2	.0365	.0001	.0002	.0001	.0002	-.0076	.0008
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0500	.0050	.0050	.0050	.0050	.0250	.1000
Low	-.0500	-.0050	-.0050	-.0050	-.0050	-.0250	-.1000
Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	-.0008	.0009	-.0000	-.0003	H.1325	.0197
SDev	.0003	.0000	.0022	.0000	.0010	.0272	.0012
%RSD	108.7	1.950	240.0	79.66	295.6	20.53	6.037
#1	.0001	-.0008	.0025	-.0000	.0004	H.1133	.0205
#2	.0006	-.0008	-.0007	-.0000	-.0010	H.1518	.0188
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass
High	.0050	.0050	.0500	.0050	.0050	.0500	.0500
Low	-.0050	-.0050	-.0500	-.0050	-.0050	-.0500	-.0500
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0008	-.0056	.0008	-.0006	.0017	.0037	.0011
SDev	.0008	.0017	.0028	.0010	.0016	.0057	.0022
%RSD	101.8	31.21	340.6	171.4	96.92	152.9	198.2
#1	.0002	-.0044	-.0012	.0001	.0028	-.0003	-.0004
#2	.0014	-.0068	.0028	-.0013	.0005	.0077	.0027
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	.0050	.0100			.0050	.0100	.0100
Low	-.0050	-.0100			-.0050	-.0100	-.0100
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899

Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	100.5	-.0038	-.0014	.0053	-.0001	-.0022	-.0014
SDev	.3	.0087	.0022	.0006	.0003	.0043	.0020
%RSD	.3112	226.6	156.5	10.52	355.1	198.0	138.6
#1	100.7	.0023	.0001	.0057	-.0003	.0009	-.0028
#2	100.3	-.0099	-.0029	.0049	.0001	L-.0053	-.0000
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High				.0100	.0030	.0050	.0050
Low				-.0100	-.0030	-.0050	-.0050
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	-.0025	-.0001	.0008	.0259	-.0007	-.0034
SDev	.0000	.0026	.0001	.0002	.0043	.0004	.0024
%RSD	40.39	103.6	71.79	27.71	16.45	58.71	72.03
#1	.0000	-.0007	-.0001	.0009	.0229	-.0004	-.0051
#2	.0001	-.0044	-.0002	.0006	.0289	-.0009	-.0017
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0100	.0050	.0100	.1000	.0050	.0100
Low	-.0050	-.0100	-.0050	-.0100	-.1000	-.0050	-.0100
Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avge	.0000	L-.0250	-.0001				
SDev	.0000	.0004	.0002				
%RSD	196.8	1.469	119.1				
#1	.0001	L-.0253	-.0000				
#2	-.0000	L-.0248	-.0003				
Errors	LC Pass	LC Low	LC Pass				
High	.0050	.0050	.0050				
Low	-.0050	-.0050	-.0050				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	856865	10000	--	--	--	--	--
SDev	2636.094	.0000000	--	--	--	--	--
%RSD	.3076440	.0000000	--	--	--	--	--
#1	858729	10000	--	--	--	--	--
#2	855001	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: 230273
 Run Time: 08/05/03 17:22:45
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Rg10/03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.0002	-.0101	-.0004	.0624	.5919	.0002	.0009
SDev	.0001	.0041	.0017	.0008	.0008	.0000	.0011
%RSD	75.83	40.69	427.1	1.259	.1302	3.781	122.5

#1	.0001	-.0130	-.0016	.0618	.5925	.0002	.0017
#2	.0003	-.0072	.0008	.0629	.5914	.0002	.0001

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	7.656	.0002	.0003	.0014	.0110	.0246	3.940
SDev	.035	.0002	.0005	.0003	.0001	.0224	.020
%RSD	.4535	108.1	175.5	22.64	.4429	91.09	.5056

#1	7.632	.0003	-.0001	.0016	.0110	.0404	3.954
#2	7.681	.0000	.0006	.0011	.0110	.0088	3.926

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.0004	-.0053	.0199	.0002	-.0020	105.6	136.6
SDev	.0001	.0000	.0010	.0001	.0003	.1	.2
%RSD	31.66	.8782	5.182	38.75	15.62	.1319	.1802

#1	-.0005	-.0052	.0191	.0001	-.0022	105.7	136.8
#2	-.0003	-.0053	.0206	.0002	-.0017	105.5	136.4

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.0024	.0203	.0002	.0010	.0040	.0998	-.0009
SDev	.0012	.0081	.0019	.0008	.0056	.0151	.0043
%RSD	48.86	39.95	1105.	81.53	139.4	15.09	498.8

#1	.0016	.0260	-.0012	.0004	.0079	.0892	-.0039
#2	.0032	.0146	.0015	.0016	.0001	.1105	.0022

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	101.9	.0016	-.0010	.4774	.0008	-.0001	.0016
SDev	.3	.0015	.0021	.0052	.0012	.0019	.0033
%RSD	.3291	94.17	223.9	1.081	158.8	2066.	203.8

#1	102.1	.0027	.0006	.4738	-.0001	.0013	.0039
#2	101.7	.0005	-.0025	.4811	.0016	-.0015	-.0007

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.0094	-.0042	.0000	-.0010	.0165	.0005	-.0004
SDev	.0000	.0008	.0001	.0022	.0027	.0001	.0014
%RSD	.0401	18.91	484.7	233.0	16.17	23.87	325.1

#1	.0094	-.0048	.0001	.0006	.0146	.0006	-.0014
#2	.0094	-.0037	-.0000	-.0025	.0184	.0004	.0006

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	-.0001	-.0035	-.0004
SDev	.0000	.0015	.0000
%RSD	16.30	42.11	7.486

#1	-.0001	-.0045	-.0004
#2	-.0001	-.0024	-.0004

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	869018	10000	--	--	--	--	--
SDev	2841.155	.00000000	--	--	--	--	--
%RSD	.3269386	.00000000	--	--	--	--	--
#1	871027	10000	--	--	--	--	--
#2	867009	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: 230274

Operator:

Run Time: 08/05/03 17:28:01

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	-.0090	-.0021	.0541	.4788	.0002	-.0037
SDev	.0010	.0012	.0025	.0003	.0001	.0000	.0013
%RSD	199.9	13.34	115.7	.4816	.0301	15.89	34.73

#1	-.0002	-.0098	-.0039	.0543	.4787	.0002	-.0046
#2	.0012	-.0081	-.0004	.0540	.4789	.0002	-.0028

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.70	-.0000	.0008	.0008	.0086	.0221	3.168
SDev	.06	.0004	.0004	.0000	.0004	.0092	.015
%RSD	.2760	3254.	53.13	1.582	4.839	41.74	.4686

#1	22.66	-.0003	.0011	.0008	.0089	.0156	3.179
#2	22.75	.0002	.0005	.0008	.0083	.0286	3.158

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	-.0053	.0232	.0001	-.0026	71.84	94.97
SDev	.0002	.0000	.0088	.0000	.0010	.18	.51
%RSD	46.00	.5107	37.81	26.62	39.80	.2476	.5341

#1	-.0006	-.0053	.0170	.0001	-.0033	71.96	95.33
#2	-.0003	-.0053	.0294	.0001	-.0019	71.71	94.61

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015	.0103	.0026	-.0002	.0039	.0889	-.0017
SDev	.0008	.0012	.0008	.0008	.0001	.0059	.0012
%RSD	50.59	11.39	30.91	316.1	1.206	6.685	73.89

#1	.0021	.0112	.0031	.0003	.0039	.0847	-.0026
#2	.0010	.0095	.0020	-.0008	.0039	.0931	-.0008

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	XR	ppm	ppm	ppm	ppm	ppm	ppm
Avg	99.74	-.0002	-.0019	.6076	.0007	-.0013	.0008
SDev	.80	.0009	.0000	.0118	.0008	.0003	.0020
%RSD	.7996	524.3	1.306	1.938	108.0	21.32	265.4

#1	100.3	-.0008	-.0019	.5993	.0013	-.0015	.0022
#2	99.18	.0005	-.0019	.6160	.0002	-.0011	-.0007

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0129	-.0048	-.0001	.0022	.0152	.0002	-.0007
SDev	.0000	.0013	.0001	.0010	.0132	.0002	.0002
%RSD	.0284	26.84	98.59	47.27	86.96	79.72	23.21

#1	.0129	-.0039	-.0000	.0014	.0058	.0001	-.0006
#2	.0129	-.0057	-.0002	.0029	.0245	.0003	-.0008

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	-.0001	.0085	-.0004
SDev	.0000	.0007	.0004
%RSD	14.49	8.383	103.5

#1	-.0002	.0080	-.0001
#2	-.0001	.0090	-.0007

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	850487	10000	--	--	--	--	--
SDev	6827.823	.0000000	--	--	--	--	--
%RSD	.8028133	.0000000	--	--	--	--	--
#1	855315	10000	--	--	--	--	--
#2	845659	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: 230275
 Run Time: 08/05/03 17:33:16
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

3
 JP 8/10/03

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	-.0123	-.0009	.0536	.5375	.0002	.0024
SDev	.0003	.0001	.0000	.0001	.0016	.0000	.0050
%RSD	91.31	.6454	.9019	.1817	.2950	16.40	204.6

#1	-.0001	-.0124	-.0009	.0536	.5364	.0002	-.0011
#2	-.0005	-.0122	-.0009	.0537	.5387	.0002	.0059

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	22.51	.0001	-.0000	.0013	.0087	.0115	3.681
SDev	.00	.0000	.0006	.0007	.0004	.0002	.004
%RSD	.0021	41.93	5330.	53.01	4.884	1.833	.1214

#1	22.51	.0001	.0004	.0018	.0090	.0113	3.678
#2	22.51	.0001	-.0004	.0008	.0084	.0116	3.685

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	-.0054	.0197	.0001	-.0021	72.44	95.64
SDev	.0000	.0000	.0006	.0001	.0007	.29	.04
%RSD	1.242	.4218	3.290	113.4	35.64	.4038	.0390

#1	-.0004	-.0054	.0202	.0002	-.0015	72.24	95.62
#2	-.0004	-.0054	.0193	.0000	-.0026	72.65	95.67

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	.0112	-.0004	.0022	.0012	.0943	.0006
SDev	.0009	.0074	.0005	.0008	.0004	.0096	.0002
%RSD	56.21	65.62	120.6	34.71	38.48	10.19	32.71

#1	.0023	.0165	-.0007	.0017	.0015	.0875	.0007
#2	.0010	.0060	-.0001	.0028	.0009	.1011	.0004

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	101.5	-.0042	-.0058	.6035	.0014	-.0052	-.0016
SDev	.0	.0001	.0041	.0128	.0007	.0028	.0014
%RSD	.0290	2.174	71.67	2.127	48.53	53.25	89.49

#1	101.5	-.0041	-.0029	.5944	.0009	-.0033	-.0006
#2	101.5	-.0043	-.0087	.6126	.0019	-.0072	-.0026

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0127	-.0027	-.0001	-.0014	.0096	.0000	.0004
SDev	.0000	.0014	.0000	.0009	.0071	.0007	.0026
%RSD	.0912	51.39	20.49	66.01	74.27	6550.	641.1

#1	.0127	-.0017	-.0000	-.0007	.0045	.0005	.0022
#2	.0127	-.0037	-.0001	-.0020	.0146	-.0005	-.0014

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	-.0001	.0042	-.0004
SDev	.0000	.0004	.0003
%RSD	26.22	9.746	68.07

#1	-.0001	.0039	-.0002
#2	-.0001	.0045	-.0006

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	865360	10000	--	--	--	--	--
SDev	316.7838	.0000000	--	--	--	--	--
%RSD	.0366072	.0000000	--	--	--	--	--

#1	865136	10000	--	--	--	--	--
#2	865584	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: 230276
 Run Time: 08/05/03 17:38:31
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	5.652	-.0020	.0571	.5705	.0002	-.0009
SDev	.0002	3.159	.0019	.0003	.0004	.0000	.0055
%RSD	45.84	55.90	94.53	.4307	.0656	3.356	615.2

#1	-.0003	7.886	-.0033	.0569	.5702	.0002	.0030
#2	-.0006	3.418	-.0007	.0572	.5708	.0002	-.0048

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.643	-.0004	-.0007	.0052	.0153	.0071	3.868
SDev	.018	.0001	.0000	.0020	.0006	.0023	.023
%RSD	.2360	26.91	7.004	38.38	3.916	32.86	.5899

#1	7.655	-.0005	-.0007	.0066	.0157	.0087	3.852
#2	7.630	-.0003	-.0006	.0038	.0149	.0054	3.885

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	-.0053	.0586	.0012	-.0021	107.0	138.5
SDev	.0001	.0000	.0173	.0004	.0008	.2	.2
%RSD	15.83	.2033	29.47	35.26	38.64	.1818	.1664

#1	-.0005	-.0053	.0708	.0016	-.0015	107.1	138.7
#2	-.0004	-.0053	.0464	.0009	-.0027	106.8	138.3

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042	.0157	-.0029	.0029	.0002	.1476	.0017
SDev	.0005	.0048	.0008	.0013	.0001	.0081	.0005
%RSD	13.01	30.63	25.94	43.54	69.66	5.494	28.13

#1	.0045	.0123	-.0034	.0038	.0003	.1533	.0014
#2	.0038	.0191	-.0024	.0020	.0001	.1419	.0021

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	101.1	-.0016	-.0019	.4976	.0010	-.0018	-.0002
SDev	1.1	.0012	.0019	.0089	.0006	.0017	.0005
%RSD	1.090	73.81	100.7	1.779	60.85	93.47	288.2

#1	100.3	-.0007	-.0006	.5039	.0014	-.0006	-.0005
#2	101.9	-.0024	-.0033	.4913	.0005	-.0030	.0002

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0093	-.0046	.0004	-.0066	.0196	.0007	-.0045
SDev	.0000	.0013	.0003	.0026	.0104	.0000	.0043
%RSD	.0782	27.55	57.44	39.14	53.04	.7144	94.95

#1	.0093	-.0055	.0006	-.0084	.0270	.0007	-.0075
#2	.0093	-.0037	.0003	-.0048	.0123	.0006	-.0015

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	-.0001	-.0004	-.0003
SDev	.0000	.0011	.0001
%RSD	16.77	289.9	50.21

#1	-.0001	.0004	-.0002
#2	-.0001	-.0012	-.0003

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	861970	10000	--	--	--	--	--
SDev	9367.044	.0000000	--	--	--	--	--
%RSD	1.086702	.0000000	--	--	--	--	--
#1	855346	10000	--	--	--	--	--
#2	868593	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: 230277
 Run Time: 08/05/03 17:43:46
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.0003	-.0099	-.0001	-.0132	.1245	.0002	-.0002
SDev	.0001	.0015	.0011	.0006	.0003	.0000	.0100
%RSD	38.47	15.56	1082.	4.829	.2640	2.907	5762.
#1	.0002	-.0110	.0007	-.0128	.1248	.0002	.0069
#2	.0004	-.0088	-.0009	-.0137	.1243	.0002	-.0073
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	275.7	-.0002	-.0001	-.0002	.0051	-.0110	.2758
SDev	.0	.0001	.0006	.0006	.0000	.0050	.0022
%RSD	.0103	59.81	467.9	256.7	.0884	45.20	.7882
#1	275.7	-.0001	.0003	-.0007	.0052	-.0075	.2743
#2	275.7	-.0003	-.0005	.0002	.0051	-.0145	.2774
Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	-.0011	-.0053	.0018	.0009	-.0016	11.58	17.58
SDev	.0003	.0000	.0023	.0001	.0004	.03	.01
%RSD	29.95	.2313	132.6	14.88	24.04	.2680	.0580
#1	-.0009	-.0053	.0034	.0010	-.0013	11.61	17.58
#2	-.0014	-.0053	.0001	.0008	-.0019	11.56	17.57
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.0016	.0001	-.0004	.0015	-.0007	.0348	-.0019
SDev	.0014	.0013	.0001	.0012	.0004	.0077	.0011
%RSD	89.16	930.0	33.70	76.47	53.33	22.22	55.98
#1	.0025	-.0008	-.0005	.0007	-.0009	.0293	-.0026
#2	.0006	.0010	-.0003	.0023	-.0004	.0402	-.0011
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sr1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	102.4	-.0011	-.0023	.3078	.0009	-.0019	-.0011
SDev	.2	.0013	.0013	.0003	.0008	.0005	.0008
%RSD	.1692	119.9	58.00	.0878	92.00	24.67	71.47
#1	102.2	-.0020	-.0014	.3080	.0003	-.0016	-.0017
#2	102.5	-.0002	-.0033	.3076	.0015	-.0022	-.0005
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avgc	.0473	-.0026	-.0004	.0026	.0149	-.0004	-.0047
SDev	.0000	.0006	.0000	.0057	.0053	.0002	.0026
%RSD	.0505	24.18	4.284	219.1	35.98	65.48	54.94
#1	.0474	-.0021	-.0004	.0066	.0187	-.0005	-.0029
#2	.0473	-.0030	-.0004	-.0014	.0111	-.0002	-.0065

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avge	-.0004	.0403	-.0007
SDev	.0000	.0002	.0002
%RSD	2.531	.4268	27.95

#1	-.0004	.0404	-.0005
#2	-.0004	.0402	-.0008

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	872748	10000	--	--	--	--	--
SDev	1494.117	.0000000	--	--	--	--	--
%RSD	.1711969	.0000000	--	--	--	--	--
#1	871691	10000	--	--	--	--	--
#2	873804	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: 230277d

Operator:

Run Time: 08/05/03 17:49:01

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	-.0070	-.0018	-.0120	.1287	.0002	.0022
SDev	.0001	.0021	.0012	.0002	.0002	.0000	.0046
%RSD	30.11	29.78	67.01	1.659	.1525	3.563	208.9
#1	.0004	-.0055	-.0026	-.0121	.1285	.0002	-.0011
#2	.0006	-.0085	-.0009	-.0119	.1288	.0002	.0055
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	284.4	-.0001	.0024	.0006	.0060	-.0079	.2950
SDev	.7	.0003	.0009	.0005	.0003	.0004	.0042
%RSD	.2459	427.4	38.83	86.93	5.757	5.110	1.423
#1	283.9	.0001	.0017	.0002	.0058	-.0081	.2920
#2	284.9	-.0003	.0030	.0010	.0063	-.0076	.2980
Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0013	-.0054	.0049	.0009	-.0022	12.00	18.05
SDev	.0000	.0000	.0003	.0001	.0004	.08	.02
%RSD	2.815	.0985	6.511	12.46	19.88	.6982	.0975
#1	-.0013	-.0054	.0047	.0008	-.0025	11.94	18.06
#2	-.0014	-.0054	.0051	.0010	-.0019	12.06	18.04
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	-.0033	-.0002	.0024	-.0004	.0261	-.0015
SDev	.0010	.0059	.0006	.0006	.0037	.0107	.0000
%RSD	78.39	181.4	290.3	23.24	952.9	41.12	1.758
#1	.0005	-.0074	.0002	.0020	-.0030	.0185	-.0015
#2	.0019	.0009	-.0007	.0028	.0022	.0337	-.0015
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	98.06	-.0013	-.0040	.3250	.0015	-.0031	-.0006
SDev	1.17	.0016	.0041	.0076	.0002	.0033	.0003
%RSD	1.189	124.1	104.1	2.334	10.51	107.4	48.47
#1	98.89	-.0025	-.0069	.3196	.0014	-.0054	-.0008
#2	97.24	-.0002	-.0010	.3303	.0016	-.0007	-.0004
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0487	.0004	-.0003	.0008	.0240	-.0000	-.0062
SDev	.0000	.0003	.0000	.0034	.0113	.0003	.0009
%RSD	.0136	70.71	1.623	439.2	46.96	720.3	14.89
#1	.0487	.0002	-.0003	.0032	.0319	-.0003	-.0055
#2	.0487	.0006	-.0003	-.0016	.0160	.0002	-.0068

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	-.0003	.0433	-.0003
SDev	.0000	.0006	.0003
%RSD	.7930	1.450	83.78

#1	-.0003	.0428	-.0001
#2	-.0003	.0437	-.0005

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	836178	10000	--	--	--	--	--
SDev	9923.536	.00000000	--	--	--	--	--
%RSD	1.186773	.00000000	--	--	--	--	--
#1	843195	10000	--	--	--	--	--
#2	829161	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: 230278

Operator:

Run Time: 08/05/03 17:54:17

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	-.0075	.0003	-.0357	.0043	.0002	.0025
SDev	.0002	.0023	.0015	.0007	.0000	.0000	.0018
%RSD	66.22	30.57	467.1	1.952	.8655	5.871	70.51
#1	.0002	-.0091	-.0007	-.0352	.0043	.0002	.0038
#2	.0004	-.0059	.0014	-.0362	.0044	.0002	.0013
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	288.2	-.0000	-.0005	.0004	.0065	-.0046	.1710
SDev	.2	.0002	.0005	.0008	.0005	.0084	.0094
%RSD	.0865	517.0	99.49	182.5	7.517	180.7	5.468
#1	288.0	.0001	-.0002	-.0001	.0061	.0013	.1644
#2	288.4	-.0002	-.0009	.0010	.0068	-.0106	.1776
Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	-.0054	.0046	.0009	-.0030	11.71	17.80
SDev	.0003	.0000	.0024	.0000	.0000	.16	.01
%RSD	45.26	.8385	52.04	.1844	1.370	1.343	.0577
#1	-.0004	-.0054	.0062	.0009	-.0029	11.82	17.81
#2	-.0008	-.0054	.0029	.0009	-.0030	11.60	17.80
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0012	.0013	.0011	.0021	-.0010	.0268	.0013
SDev	.0013	.0159	.0015	.0009	.0010	.0029	.0003
%RSD	113.0	1263.	135.0	43.58	101.6	10.64	20.30
#1	.0021	-.0100	.0022	.0028	-.0003	.0288	.0011
#2	.0002	.0125	.0001	.0015	-.0018	.0248	.0015
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	XR	ppm	ppm	ppm	ppm	ppm	ppm
Avge	97.03	.0024	-.0025	.2578	.0018	-.0009	.0004
SDev	.07	.0065	.0004	.0107	.0011	.0019	.0009
%RSD	.0726	273.1	15.59	4.151	62.15	217.8	232.9
#1	96.98	.0069	-.0028	.2502	.0026	.0005	-.0003
#2	97.08	-.0022	-.0022	.2653	.0010	-.0022	.0010
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0490	-.0030	-.0004	.0000	.0205	-.0004	-.0031
SDev	.0000	.0001	.0001	.0002	.0057	.0002	.0003
%RSD	.0315	4.252	17.57	1188.	27.98	47.07	8.841
#1	.0490	-.0031	-.0004	-.0001	.0164	-.0005	-.0033
#2	.0490	-.0029	-.0005	.0001	.0245	-.0002	-.0029

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	-.0005	-.0180	-.0002
SDev	.0000	.0000	.0002
%RSD	6.720	.1909	111.6

#1	-.0005	-.0180	-.0004
#2	-.0005	-.0180	-.0000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	827321	10000	--	--	--	--	--
SDev	616.5971	.0000000	--	--	--	--	--
%RSD	.0745294	.0000000	--	--	--	--	--
#1	826885	10000	--	--	--	--	--
#2	827757	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: 230278s

Operator:

Run Time: 08/05/03 17:59:32

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0524	2.122	2.084	-.0360	2.065	.0494	-.0007
SDev	.0004	.001	.000	.0010	.001	.0001	.0031
%RSD	.7521	.0619	.0111	2.637	.0461	.1315	464.3

#1	.0527	2.123	2.084	-.0354	2.064	.0495	.0015
#2	.0521	2.121	2.084	-.0367	2.066	.0494	-.0029

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	304.5	.0508	.5144	.2034	.2682	1.095	23.64
SDev	.6	.0003	.0008	.0012	.0001	.001	.06
%RSD	.2080	.5763	.1618	.6081	.0195	.1026	.2496

#1	304.9	.0510	.5138	.2025	.2683	1.095	23.60
#2	304.0	.0506	.5150	.2043	.2682	1.094	23.69

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0010	-.0053	20.94	.5140	-.0026	33.64	50.73
SDev	.0002	.0000	.01	.0004	.0005	.00	.07
%RSD	20.68	.1181	.0571	.0792	18.43	.0119	.1357

#1	-.0008	-.0053	20.94	.5143	-.0023	33.64	50.68
#2	-.0011	-.0053	20.93	.5137	-.0030	33.64	50.78

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.4972	.0189	.5097	.5163	-.0018	.0366	.5119
SDev	.0030	.0066	.0042	.0015	.0008	.0059	.0112
%RSD	.5972	34.79	.8258	.2843	43.69	16.04	2.194

#1	.4993	.0235	.5127	.5152	-.0012	.0408	.5039
#2	.4951	.0142	.5067	.5173	-.0023	.0325	.5198

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	95.94	2.196	2.213	.2663	.5141	2.207	.0003
SDev	.53	.016	.001	.0073	.0004	.006	.0008
%RSD	.5472	.7235	.0288	2.740	.0836	.2591	231.9

#1	95.57	2.207	2.214	.2612	.5144	2.212	-.0002
#2	96.31	2.184	2.213	.2715	.5138	2.203	.0009

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.230	-.0173	-.0004	2.134	-.0107	.5123	-.0046
SDev	.001	.0014	.0001	.013	.0184	.0001	.0000
%RSD	.0150	8.190	17.84	.5947	172.9	.0292	1.043

#1	4.230	-.0163	-.0004	2.125	.0024	.5122	-.0047
#2	4.229	-.0183	-.0003	2.143	-.0237	.5124	-.0046

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avgc	-.0004	.4922	-.0004
SDev	.0000	.0001	.0001
%RSD	7.520	.0292	36.16

#1	-.0004	.4921	-.0003
#2	-.0004	.4923	-.0004

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avgc	818078	10000	--	--	--	--	--
SDev	4463.965	.0000000	--	--	--	--	--
%RSD	.5456647	.0000000	--	--	--	--	--
#1	814922	10000	--	--	--	--	--
#2	821235	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: 230279

Operator:

Run Time: 08/05/03 18:04:47

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0002	-.0135	.0023	-.0312	.0152	.0002	-.0023
SDev	.0006	.0003	.0010	.0004	.0001	.0000	.0053
%RSD	267.1	1.858	45.54	1.140	.8777	1.124	234.0

#1	-.0006	-.0134	.0030	-.0310	.0153	.0002	-.0060
#2	.0002	-.0137	.0016	-.0315	.0151	.0002	.0015

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	78.09	.0000	-.0000	.0044	.0092	.0116	.2357
SDev	.00	.0000	.0003	.0001	.0005	.0117	.0007
%RSD	.0022	53.04	1792.	1.020	5.077	100.6	.2812

#1	78.09	.0000	-.0002	.0044	.0088	.0034	.2362
#2	78.09	.0000	.0002	.0045	.0095	.0198	.2353

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	-.0048	.0230	.0521	-.0023	19.15	26.87
SDev	.0001	.0000	.0041	.0000	.0002	.03	.09
%RSD	17.95	.0996	17.96	.0612	8.405	.1440	.3278

#1	-.0007	-.0048	.0259	.0522	-.0022	19.17	26.93
#2	-.0005	-.0048	.0201	.0521	-.0025	19.13	26.80

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0049	.0035	.0042	.0062	-.0016	.3903	-.0030
SDev	.0016	.0022	.0032	.0009	.0003	.0107	.0022
%RSD	33.63	64.96	77.07	14.84	17.46	2.736	71.74

#1	.0037	.0051	.0065	.0056	-.0018	.3827	-.0015
#2	.0060	.0019	.0019	.0069	-.0014	.3978	-.0045

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	99.93	.0018	.0004	1.290	.0056	.0009	-.0018
SDev	.36	.0015	.0012	.003	.0005	.0003	.0005
%RSD	.3628	81.58	303.7	.2480	8.285	34.43	26.51

#1	99.68	.0029	-.0005	1.287	.0059	.0007	-.0014
#2	100.2	.0008	.0013	1.292	.0052	.0011	-.0021

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0193	-.0010	.0007	-.0012	.0187	.0000	-.0049
SDev	.0003	.0010	.0002	.0047	.0137	.0001	.0029
%RSD	1.608	99.34	33.53	381.5	73.32	403.8	58.77

#1	.0195	-.0018	.0005	.0021	.0090	-.0000	-.0028
#2	.0191	-.0003	.0009	-.0046	.0283	.0000	-.0069

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	-.0003	.3824	.0001
SDev	.0001	.0007	.0001
%RSD	22.01	.1747	226.2

#1	-.0003	.3819	-.0000
#2	-.0002	.3829	.0002

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	---	---	---	---	---	---
Wavlen	361.384	---	---	---	---	---	---
Avg	852154	10000	---	---	---	---	---
SDev	3078.036	.0000000	---	---	---	---	---
%RSD	.3612067	.0000000	---	---	---	---	---

#1	849977	10000	---	---	---	---	---
#2	854330	10000	---	---	---	---	---

Analysis Report

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Method: DAILY2 Sample Name: 230280

Operator:

Run Time: 08/05/03 18:10:03

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0007	-.0122	-.0009	-.0362	.0030	.0002	-.0007
SDev	.0000	.0031	.0022	.0013	.0000	.0000	.0020
%RSD	3.163	25.62	255.7	3.624	1.105	5.885	276.1
#1	-.0007	-.0100	.0007	-.0353	.0030	.0002	-.0021
#2	-.0007	-.0145	-.0024	-.0371	.0030	.0002	.0007
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	80.46	-.0002	-.0004	.0001	.0065	-.0190	.1886
SDev	.24	.0001	.0006	.0003	.0001	.0107	.0013
%RSD	.2931	35.22	131.2	275.3	1.520	56.43	.6804
#1	80.63	-.0002	-.0008	.0003	.0066	-.0265	.1895
#2	80.29	-.0003	-.0000	-.0001	.0064	-.0114	.1877
Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0007	-.0056	-.0019	.0003	-.0017	19.28	27.03
SDev	.0003	.0000	.0055	.0000	.0004	.08	.09
%RSD	34.34	.4764	292.9	6.040	23.62	.4063	.3380
#1	-.0009	-.0056	-.0058	.0003	-.0014	19.23	26.97
#2	-.0006	-.0056	.0020	.0003	-.0019	19.34	27.10
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	.0065	-.0015	.0031	-.0039	.0245	-.0018
SDev	.0006	.0120	.0029	.0007	.0019	.0083	.0025
%RSD	346.2	185.4	189.7	22.72	49.35	33.96	137.1
#1	-.0002	.0150	-.0036	.0036	-.0053	.0186	-.0001
#2	.0005	-.0020	.0005	.0026	-.0026	.0304	-.0035
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	101.4	.0002	-.0031	.2647	.0016	-.0020	-.0005
SDev	2.0	.0014	.0030	.0025	.0005	.0024	.0013
%RSD	1.973	562.7	97.31	.9576	31.23	124.8	252.6
#1	100.0	.0012	-.0010	.2665	.0012	-.0002	.0004
#2	102.8	-.0007	-.0052	.2629	.0019	-.0037	-.0014
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0195	-.0015	-.0002	-.0024	.0055	.0002	-.0054
SDev	.0001	.0015	.0000	.0013	.0006	.0005	.0023
%RSD	.2724	95.08	8.906	54.15	11.74	314.0	43.09
#1	.0195	-.0005	-.0002	-.0015	.0051	.0005	-.0037
#2	.0195	-.0026	-.0002	-.0033	.0060	-.0002	-.0070

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avge	-.0003	-.0203	-.0005
SDev	.0001	.0002	.0002
%RSD	39.12	1.182	42.87

#1	-.0002	-.0201	-.0004
#2	-.0003	-.0205	-.0007

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	864890	10000	--	--	--	--	--
SDev	16986.83	.0000000	--	--	--	--	--
%RSD	1.964046	.0000000	--	--	--	--	--
#1	852878	10000	--	--	--	--	--
#2	876901	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: ccv4
 Run Time: 08/05/03 18:20:06
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9757	9.960	4.855	4.787	9.781	.9854	4.942
SDev	.0015	.005	.008	.028	.013	.0014	.007
%RSD	.1547	.0464	.1642	.5910	.1291	.1454	.1482
#1	.9746	9.956	4.860	4.767	9.773	.9864	4.937
#2	.9768	9.963	4.849	4.807	9.790	.9844	4.947
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.100	11.00	5.500	5.500	11.00	1.100	5.500
Low	.9000	9.000	4.500	4.500	9.000	.9000	4.500
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.55	.9923	4.980	1.946	2.004	10.01	18.54
SDev	.02	.0018	.004	.003	.001	.01	.03
%RSD	.1226	.1845	.0860	.1588	.0339	.0993	.1465
#1	19.56	.9935	4.983	1.949	2.004	10.01	18.52
#2	19.53	.9910	4.977	1.944	2.004	9.998	18.56
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	22.00	1.100	5.500	2.200	2.200	11.00	22.00
Low	18.00	.9000	4.500	1.800	1.800	9.000	18.00
Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.868	4.863	19.83	1.002	5.108	28.31	H40.77
SDev	.004	.000	.02	.001	.010	.16	.02
%RSD	.0798	.0077	.0808	.0800	.1934	.5565	.0388
#1	4.865	4.864	19.85	1.003	5.101	28.42	H40.78
#2	4.871	4.863	19.82	1.002	5.115	28.20	H40.76
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High
High	5.500	5.500	22.00	1.100	5.500	33.00	33.00
Low	4.500	4.500	18.00	.9000	4.500	27.00	27.00
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.800	4.998	4.834	4.857	.9720	1.015	.9871
SDev	.000	.050	.008	.016	.0001	.001	.0042
%RSD	.0096	1.001	.1687	.3370	.0093	.0718	.4296
#1	4.801	4.962	4.840	4.869	.9721	1.014	.9841
#2	4.800	5.033	4.828	4.846	.9719	1.015	.9901
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	5.500	5.500			1.100	1.100	1.100
Low	4.500	4.500			.9000	.9000	.9000
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899

Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	100.5	5.098	5.117	5.012	4.849	5.110	4.832
SDev	.7	.001	.000	.005	.014	.001	.001
%RSD	.7383	.0192	.0086	.1072	.2810	.0121	.0180
#1	100.0	5.097	5.116	5.016	4.859	5.110	4.833
#2	101.1	5.099	5.117	5.008	4.840	5.111	4.831
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High				5.500	5.500	5.500	5.500
Low				4.500	4.500	4.500	4.500
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.053	.9695	4.797	5.069	.9786	4.893	H1.145
SDev	.001	.0035	.001	.016	.0092	.006	.003
%RSD	.0158	.3593	.0170	.3092	.9381	.1281	.2892
#1	5.053	.9720	4.798	5.058	.9722	4.897	H1.143
#2	5.054	.9671	4.797	5.080	.9851	4.888	H1.147
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High
High	5.500	1.100	5.500	5.500	1.100	5.500	1.100
Low	4.500	.9000	4.500	4.500	.9000	4.500	.9000
Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avg	4.940	.9696	4.922				
SDev	.000	.0017	.001				
%RSD	.0068	.1761	.0267				
#1	4.940	.9708	4.923				
#2	4.939	.9683	4.921				
Errors	LC Pass	LC Pass	LC Pass				
High	5.500	1.100	5.500				
Low	4.500	.9000	4.500				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	857210	10000	--	--	--	--	--
SDev	6267.794	.0000000	--	--	--	--	--
%RSD	.7311854	.0000000	--	--	--	--	--
#1	852778	10000	--	--	--	--	--
#2	861642	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: ccb4

Operator:

Run Time: 08/05/03 18:27:46

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0163	-.0027	-.0216	.0001	.0003	-.0013
SDev	.0006	.0005	.0004	.0003	.0000	.0000	.0007
%RSD	263.7	2.801	16.17	1.157	15.00	1.765	57.13
#1	-.0002	-.0160	-.0024	-.0218	.0001	.0003	-.0008
#2	.0006	-.0166	-.0030	-.0214	.0001	.0003	-.0018
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0050	.0500	.0050	.0050	.0050
Low	-.0050	-.0500	-.0050	-.0500	-.0050	-.0050	-.0050
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028	-.0000	-.0001	.0001	.0006	-.0052	.0063
SDev	.0010	.0000	.0001	.0003	.0002	.0057	.0080
%RSD	35.47	207.9	77.06	220.8	36.22	109.7	127.1
#1	.0021	.0000	-.0000	-.0001	.0008	-.0092	.0006
#2	.0036	-.0001	-.0001	.0003	.0005	-.0012	.0120
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0500	.0050	.0050	.0050	.0050	.0250	.1000
Low	-.0500	-.0050	-.0050	-.0050	-.0050	-.0250	-.1000
Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	-.0010	-.0004	-.0000	-.0003	-.0012	.0268
SDev	.0004	.0001	.0021	.0001	.0006	.0246	.0042
%RSD	120.6	6.340	496.9	421.5	231.7	2102.	15.46
#1	.0000	-.0010	-.0019	-.0001	.0002	-.0185	.0298
#2	.0006	-.0009	.0010	.0001	-.0007	.0162	.0239
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0050	.0500	.0050	.0050	.0500	.0500
Low	-.0050	-.0050	-.0500	-.0050	-.0050	-.0500	-.0500
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016	L-.0118	-.0017	-.0001	.0001	.0075	-.0019
SDev	.0006	.0001	.0037	.0017	.0016	.0003	.0016
%RSD	34.52	.4933	218.4	3146.	1369.	4.200	83.24
#1	.0020	L-.0117	.0009	.0011	-.0010	.0073	-.0008
#2	.0012	L-.0118	-.0043	-.0013	.0013	.0077	-.0031
Errors	LC Pass	LC Low	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	.0050	.0100			.0050	.0100	.0100
Low	-.0050	-.0100			-.0050	-.0100	-.0100
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899

Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	101.3	-.0035	-.0026	.0076	-.0006	-.0029	-.0017
SDev	1.8	.0005	.0029	.0028	.0024	.0018	.0007
%RSD	1.744	14.80	112.5	37.15	405.4	61.01	39.82
#1	102.5	-.0032	-.0046	.0056	.0011	-.0041	-.0012
#2	100.0	-.0039	-.0005	.0095	-.0023	-.0016	-.0021
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High				.0100	.0030	.0050	.0050
Low				-.0100	-.0030	-.0050	-.0050
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	-.0013	.0001	-.0002	.0207	.0003	-.0032
SDev	.0000	.0033	.0001	.0012	.0060	.0008	.0005
%RSD	15.51	258.4	103.5	567.0	29.09	293.9	14.45
#1	.0000	-.0036	.0000	-.0011	.0164	-.0003	-.0035
#2	.0001	.0011	.0001	.0006	.0249	.0008	-.0029
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0100	.0050	.0100	.1000	.0050	.0100
Low	-.0050	-.0100	-.0050	-.0100	-.1000	-.0050	-.0100
Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avge	-.0001	L-.0274	.0000				
SDev	.0001	.0000	.0001				
%RSD	121.2	.1011	444.7				
#1	-.0001	L-.0274	.0001				
#2	-.0000	L-.0274	-.0000				
Errors	LC Pass	LC Low	LC Pass				
High	.0050	.0050	.0050				
Low	-.0050	-.0050	-.0050				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	863709	10000	--	--	--	--	--
SDev	14994.91	.0000000	--	--	--	--	--
%RSD	1.736106	.0000000	--	--	--	--	--
#1	874312	10000	--	--	--	--	--
#2	853106	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: 230281

Operator:

Run Time: 08/05/03 18:33:01

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0000	-.0165	-.0034	-.0203	.0157	.0002	-.0012
SDev	.0003	.0001	.0040	.0015	.0000	.0000	.0030
%RSD	1064.	.8158	119.0	7.233	.0504	10.12	242.2

#1	-.0002	-.0164	-.0005	-.0193	.0157	.0002	-.0033
#2	.0003	-.0166	-.0063	-.0214	.0157	.0003	.0009

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	23.24	-.0001	.0006	.0005	.0055	-.0040	.2254
SDev	.02	.0001	.0006	.0005	.0006	.0134	.0021
%RSD	.1035	94.52	113.6	101.3	10.73	335.3	.9181

#1	23.25	-.0002	.0010	.0001	.0051	.0055	.2268
#2	23.22	-.0000	.0001	.0009	.0059	-.0134	.2239

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	-.0054	.0007	.0001	-.0019	34.41	46.68
SDev	.0003	.0000	.0001	.0000	.0001	.25	.08
%RSD	236.5	.4183	13.63	16.42	4.204	.7390	.1647

#1	.0001	-.0054	.0006	.0001	-.0018	34.59	46.73
#2	-.0004	-.0054	.0007	.0001	-.0019	34.23	46.62

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	-.0037	.0008	-.0009	.0002	.0238	-.0018
SDev	.0004	.0096	.0002	.0023	.0006	.0030	.0006
%RSD	137.2	256.2	20.02	253.5	315.9	12.69	32.77

#1	.0006	.0030	.0009	.0007	.0006	.0217	-.0013
#2	.0000	-.0105	.0007	-.0025	-.0002	.0259	-.0022

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	101.4	.0004	-.0030	.4862	-.0003	-.0019	.0022
SDev	.6	.0019	.0007	.0057	.0016	.0001	.0004
%RSD	.5981	504.7	24.91	1.176	482.1	7.226	20.01

#1	101.0	-.0010	-.0025	.4821	.0008	-.0020	.0026
#2	101.8	.0017	-.0035	.4902	-.0014	-.0018	.0019

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0104	-.0016	-.0000	.0033	.0192	-.0000	-.0038
SDev	.0000	.0010	.0001	.0009	.0154	.0001	.0016
%RSD	.3383	59.31	273.8	28.99	80.28	339.5	41.21

#1	.0104	-.0023	-.0001	.0039	.0083	.0001	-.0027
#2	.0104	-.0010	.0000	.0026	.0301	-.0001	-.0049

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avgc	-.0001	-.0099	.0003
SDev	.0001	.0002	.0001
%RSD	85.37	1.881	45.04

#1	-.0002	-.0100	.0002
#2	-.0000	-.0097	.0004

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avgc	864784	10000	--	--	--	--	--
SDev	5210.670	.0000000	--	--	--	--	--
%RSD	.6025397	.0000000	--	--	--	--	--

#1	861100	10000	--	--	--	--	--
#2	868469	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: 230282

Operator:

Run Time: 08/05/03 18:38:17

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	-.0019	-.0037	-.0263	.0037	.0002	-.0014
SDev	.0001	.0006	.0028	.0001	.0001	.0000	.0017
%RSD	84.87	31.87	76.39	.4122	1.311	1.488	120.9

#1	.0001	-.0015	-.0017	-.0262	.0036	.0002	-.0002
#2	.0003	-.0024	-.0057	-.0264	.0037	.0002	-.0026

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	36.91	.0001	-.0000	.0039	.0052	.0042	.2084
SDev	.03	.0003	.0006	.0001	.0001	.0060	.0051
%RSD	.0731	478.4	1412.	2.641	1.942	142.6	2.441

#1	36.93	-.0001	.0004	.0038	.0051	.0085	.2048
#2	36.89	.0003	-.0004	.0040	.0053	-.0000	.2119

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	-.0054	.0114	.0066	-.0026	34.64	47.35
SDev	.0004	.0001	.0048	.0000	.0004	.02	.03
%RSD	108.6	1.079	42.05	.2850	14.48	.0514	.0616

#1	-.0006	-.0055	.0147	.0066	-.0029	34.63	47.37
#2	-.0001	-.0054	.0080	.0066	-.0024	34.66	47.33

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0027	.0059	.0033	.0041	-.0017	.1309	-.0036
SDev	.0006	.0026	.0006	.0007	.0010	.0135	.0010
%RSD	22.64	43.39	18.63	16.50	56.69	10.35	28.40

#1	.0023	.0041	.0037	.0037	-.0010	.1213	-.0044
#2	.0032	.0077	.0029	.0046	-.0024	.1405	-.0029

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	102.6	.0006	-.0021	.9337	.0039	-.0012	.0001
SDev	.2	.0018	.0005	.0078	.0003	.0009	.0006
%RSD	.1576	292.5	22.70	.8403	6.494	76.52	499.3

#1	102.5	.0019	-.0018	.9281	.0037	-.0005	.0006
#2	102.7	-.0007	-.0024	.9392	.0040	-.0018	-.0003

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0143	-.0007	.0003	.0013	.0177	-.0002	-.0045
SDev	.0000	.0001	.0000	.0010	.0026	.0003	.0024
%RSD	.0256	9.976	.6190	78.01	14.65	153.0	54.25

#1	.0143	-.0007	.0003	.0020	.0195	.0000	-.0062
#2	.0143	-.0008	.0003	.0006	.0159	-.0004	-.0028

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avge	-.0002	.1032	-.0003
SDev	.0000	.0001	.0001
%RSD	8.916	.0820	47.31

#1	-.0002	.1031	-.0002
#2	-.0002	.1032	-.0004

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	874597	10000	--	--	--	--	--
SDev	1415.628	.0000000	--	--	--	--	--
%RSD	.1618606	.0000000	--	--	--	--	--
#1	873596	10000	--	--	--	--	--
#2	875598	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: 230283

Operator:

Run Time: 08/05/03 18:43:32

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	-.0148	.0009	-.0197	.0225	.0002	.0019
SDev	.0002	.0014	.0011	.0015	.0004	.0000	.0031
%RSD	149.7	9.429	118.3	7.509	1.986	6.780	166.4

#1	-.0003	-.0158	.0001	-.0186	.0221	.0002	.0041
#2	.0000	-.0138	.0017	-.0207	.0228	.0002	-.0003

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	8.325	-.0000	.0006	-.0003	.0100	-.0142	.2238
SDev	.051	.0001	.0004	.0006	.0003	.0054	.0088
%RSD	.6086	3502.	65.82	199.1	3.164	38.21	3.942

#1	8.289	-.0001	.0009	.0001	.0102	-.0180	.2176
#2	8.361	.0001	.0003	-.0007	.0098	-.0104	.2300

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0005	-.0054	.0014	.0001	-.0019	65.79	87.01
SDev	.0003	.0000	.0001	.0000	.0004	.43	.50
%RSD	50.99	.8738	4.751	1.471	22.95	.6515	.5802

#1	-.0007	-.0055	.0013	.0001	-.0016	66.09	87.37
#2	-.0003	-.0054	.0014	.0001	-.0022	65.49	86.66

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	.0047	.0022	.0007	-.0006	.0319	-.0009
SDev	.0001	.0051	.0003	.0010	.0001	.0105	.0015
%RSD	19.97	109.8	11.73	133.8	11.42	32.86	174.6

#1	.0008	.0010	.0024	.0014	-.0005	.0393	.0002
#2	.0006	.0083	.0020	.0000	-.0006	.0245	-.0019

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	102.6	.0014	-.0020	.4220	.0012	-.0008	.0010
SDev	.1	.0004	.0027	.0110	.0007	.0016	.0007
%RSD	.1333	29.34	134.9	2.606	59.21	194.2	75.75

#1	102.6	.0011	-.0001	.4142	.0017	.0003	.0005
#2	102.7	.0017	-.0039	.4298	.0007	-.0020	.0015

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0071	-.0024	-.0001	-.0033	.0056	-.0006	-.0033
SDev	.0000	.0010	.0000	.0017	.0080	.0003	.0028
%RSD	.1856	40.41	28.31	51.47	141.7	49.48	83.41

#1	.0071	-.0031	-.0001	-.0021	-.0000	-.0008	-.0014
#2	.0071	-.0017	-.0001	-.0044	.0113	-.0004	-.0053

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	-.0001	.0015	-.0003
SDev	.0001	.0023	.0001
%RSD	74.26	153.6	31.44

#1	-.0000	-.0001	-.0002
#2	-.0001	.0032	-.0003

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	875295	10000	--	--	--	--	--
SDev	1221.880	.0000000	--	--	--	--	--
%RSD	.1395964	.0000000	--	--	--	--	--

#1	874431	10000	--	--	--	--	--
#2	876159	10000	--	--	--	--	--

Method: DAILY2 Sample Name: 230284
 Run Time: 08/05/03 18:48:48
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0000	.0046	-.0005	-.0243	.0049	.0002	.0026
SDev	.0005	.0024	.0000	.0005	.0000	.0000	.0024
%RSD	1807.	51.79	8.325	1.972	.2002	1.308	93.19
#1	-.0003	.0062	-.0005	-.0240	.0049	.0002	.0009
#2	.0004	.0029	-.0005	-.0246	.0049	.0003	.0043
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	8.600	-.0001	.0006	.0005	.0061	-.0318	.2319
SDev	.004	.0001	.0003	.0004	.0002	.0113	.0094
%RSD	.0460	56.37	49.19	93.36	3.196	35.62	4.052
#1	8.598	-.0002	.0004	.0002	.0060	-.0399	.2252
#2	8.603	-.0001	.0008	.0008	.0063	-.0238	.2385
Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	-.0054	.0033	.0001	-.0022	65.21	86.50
SDev	.0004	.0000	.0039	.0001	.0000	.06	.25
%RSD	138.6	.3580	116.6	103.2	.0664	.0977	.2937
#1	-.0005	-.0054	.0006	.0000	-.0022	65.26	86.68
#2	-.0000	-.0054	.0061	.0002	-.0022	65.17	86.32
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0012	.0076	-.0017	.0032	-.0027	.0342	-.0010
SDev	.0004	.0098	.0001	.0019	.0007	.0012	.0018
%RSD	36.65	129.2	7.909	57.38	25.82	3.384	175.9
#1	.0015	.0007	-.0018	.0019	-.0032	.0334	-.0024
#2	.0009	.0145	-.0016	.0046	-.0022	.0351	.0003
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	101.0	.0041	-.0007	.4182	.0016	.0009	.0014
SDev	1.3	.0038	.0002	.0002	.0013	.0014	.0011
%RSD	1.286	92.41	23.88	.0578	80.02	149.5	76.91
#1	100.1	.0067	-.0006	.4181	.0007	.0019	.0006
#2	101.9	.0014	-.0008	.4184	.0025	-.0001	.0022
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0072	-.0004	-.0000	-.0023	.0106	.0001	-.0058
SDev	.0000	.0000	.0001	.0007	.0128	.0000	.0010
%RSD	.0781	4.637	199.4	31.40	120.2	21.11	17.65
#1	.0072	-.0004	-.0001	-.0018	.0016	.0001	-.0051
#2	.0072	-.0004	.0000	-.0028	.0197	.0001	-.0065

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avge	-.0001	-.0193	-.0002
SDev	.0000	.0001	.0003
%RSD	30.02	.3662	147.3

#1	-.0001	-.0194	-.0005
#2	-.0001	-.0193	.0000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	861206	10000	--	--	--	--	--
SDev	11061.98	.0000000	--	--	--	--	--
%RSD	1.284475	.0000000	--	--	--	--	--
#1	853384	10000	--	--	--	--	--
#2	869028	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: ccv5
 Run Time: 08/05/03 18:58:51
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9762	9.950	4.860	4.790	9.791	.9885	4.943
SDev	.0008	.000	.006	.024	.023	.0016	.015
%RSD	.0872	.0000	.1268	.5070	.2390	.1622	.3113
#1	.9768	9.950	4.856	4.772	9.774	.9897	4.954
#2	.9756	9.950	4.865	4.807	9.807	.9874	4.932
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.100	11.00	5.500	5.500	11.00	1.100	5.500
Low	.9000	9.000	4.500	4.500	9.000	.9000	4.500
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.62	.9951	4.997	1.951	2.000	10.02	18.44
SDev	.02	.0013	.005	.006	.001	.02	.03
%RSD	.0924	.1298	.1045	.2878	.0663	.1963	.1395
#1	19.63	.9960	5.001	1.954	2.001	10.04	18.42
#2	19.60	.9942	4.993	1.947	1.999	10.01	18.46
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	22.00	1.100	5.500	2.200	2.200	11.00	22.00
Low	18.00	.9000	4.500	1.800	1.800	9.000	18.00
Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.869	4.847	19.85	1.003	5.113	28.26	H40.56
SDev	.001	.009	.00	.000	.012	.38	.06
%RSD	.0266	.1860	.0062	.0402	.2313	1.354	.1438
#1	4.870	4.841	19.85	1.004	5.105	28.53	H40.52
#2	4.868	4.854	19.85	1.003	5.121	27.99	H40.61
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High
High	5.500	5.500	22.00	1.100	5.500	33.00	33.00
Low	4.500	4.500	18.00	.9000	4.500	27.00	27.00
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.806	5.092	4.803	4.865	.9730	1.021	.9875
SDev	.010	.016	.003	.001	.0004	.001	.0026
%RSD	.2068	.3154	.0664	.0304	.0427	.1358	.2659
#1	4.813	5.081	4.801	4.864	.9733	1.022	.9893
#2	4.799	5.103	4.806	4.866	.9727	1.020	.9856
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	5.500	5.500			1.100	1.100	1.100
Low	4.500	4.500			.9000	.9000	.9000
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899

Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	99.11	5.066	5.123	5.014	4.845	5.104	4.837
SDev	2.06	.015	.009	.008	.002	.011	.002
%RSD	2.080	.2921	.1798	.1504	.0423	.2169	.0458
#1	97.66	5.055	5.117	5.019	4.843	5.096	4.839
#2	100.6	5.076	5.130	5.008	4.846	5.112	4.836
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High				5.500	5.500	5.500	5.500
Low				4.500	4.500	4.500	4.500
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079.
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	5.049	.9737	4.800	5.067	.9677	4.904	H1.147
SDev	.004	.0008	.001	.019	.0006	.002	.003
%RSD	.0796	.0800	.0177	.3725	.0639	.0305	.2834
#1	5.046	.9732	4.799	5.053	.9672	4.905	H1.145
#2	5.052	.9743	4.801	5.080	.9681	4.903	H1.150
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High
High	5.500	1.100	5.500	5.500	1.100	5.500	1.100
Low	4.500	.9000	4.500	4.500	.9000	4.500	.9000
Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avge	4.938	.9730	4.913				
SDev	.001	.0017	.008				
%RSD	.0182	.1725	.1645				
#1	4.937	.9742	4.908				
#2	4.938	.9718	4.919				
Errors	LC Pass	LC Pass	LC Pass				
High	5.500	1.100	5.500				
Low	4.500	.9000	4.500				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	845126	10000	--	--	--	--	--
SDev	17558.17	.00000000	--	--	--	--	--
%RSD	2.077581	.00000000	--	--	--	--	--
#1	832710	10000	--	--	--	--	--
#2	857541	10000	--	--	--	--	--

Method: DAILY2 Sample Name: ccb5
 Run Time: 08/05/03 19:06:30
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0000	-.0177	-.0002	-.0232	.0002	.0003	-.0047
SDev	.0002	.0005	.0007	.0004	.0001	.0000	.0014
%RSD	328.7	2.573	309.0	1.894	52.90	2.492	29.01
#1	-.0001	-.0181	-.0008	-.0229	.0001	.0003	L-.0057
#2	.0002	-.0174	.0003	-.0235	.0003	.0003	-.0037
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0050	.0500	.0050	.0050	.0050
Low	-.0050	-.0500	-.0050	-.0500	-.0050	-.0050	-.0050
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0034	-.0000	-.0003	.0001	.0002	-.0170	-.0065
SDev	.0017	.0000	.0002	.0003	.0002	.0019	.0028
%RSD	51.25	16.84	66.17	379.2	109.4	11.26	42.63
#1	.0022	-.0000	-.0005	-.0001	.0001	-.0183	-.0045
#2	.0046	-.0000	-.0002	.0002	.0004	-.0156	-.0084
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0500	.0050	.0050	.0050	.0050	.0250	.1000
Low	-.0500	-.0050	-.0050	-.0050	-.0050	-.0250	-.1000
Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0004	-.0010	.0009	.0000	-.0004	-.0471	.0255
SDev	.0008	.0000	.0011	.0000	.0008	.0179	.0002
%RSD	195.2	.0480	128.0	101.7	208.8	38.08	.6963
#1	-.0010	-.0010	.0017	.0000	.0002	-.0344	.0256
#2	.0002	-.0010	.0001	.0000	-.0009	L-.0598	.0254
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0050	.0500	.0050	.0050	.0500	.0500
Low	-.0050	-.0050	-.0500	-.0050	-.0050	-.0500	-.0500
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0009	-.0053	.0014	-.0006	-.0015	H.0114	-.0002
SDev	.0006	.0056	.0007	.0017	.0006	.0071	.0001
%RSD	62.78	105.6	47.42	302.7	37.60	62.56	32.13
#1	.0013	-.0093	.0010	-.0017	-.0019	.0064	-.0001
#2	.0005	-.0013	.0019	.0006	-.0011	H.0165	-.0002
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC High	LC Pass
High	.0050	.0100			.0050	.0100	.0100
Low	-.0050	-.0100			-.0050	-.0100	-.0100
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899

Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	101.9	-.0038	-.0024	.0064	.0001	-.0028	-.0012
SDev	.0	.0010	.0028	.0013	.0014	.0015	.0015
%RSD	.0428	26.45	117.7	19.72	1081.	53.78	133.6
#1	102.0	-.0031	-.0043	.0055	-.0008	-.0039	-.0001
#2	101.9	-.0045	-.0004	.0073	.0011	-.0018	-.0022
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High				.0100	.0030	.0050	.0050
Low				-.0100	-.0030	-.0050	-.0050
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0029	-.0001	.0008	.0093	-.0001	-.0026
SDev	.0001	.0001	.0000	.0019	.0016	.0001	.0005
%RSD	106.1	1.749	10.90	242.8	17.10	66.28	19.84
#1	.0000	-.0028	-.0001	.0022	.0082	-.0001	-.0030
#2	.0001	-.0029	-.0001	-.0006	.0105	-.0002	-.0023
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0100	.0050	.0100	.1000	.0050	.0100
Low	-.0050	-.0100	-.0050	-.0100	-.1000	-.0050	-.0100
Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avg	.0000	L-.0277	-.0003				
SDev	.0001	.0003	.0000				
%RSD	422.7	.9493	8.415				
#1	-.0000	L-.0275	-.0003				
#2	.0000	L-.0279	-.0003				
Errors	LC Pass	LC Low	LC Pass				
High	.0050	.0050	.0050				
Low	-.0050	-.0050	-.0050				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	---	---	---	---	---	---
Wavlen	361.384	---	---	---	---	---	---
Avge	869299	10000	---	---	---	---	---
SDev	418.6072	.0000000	---	---	---	---	---
%RSD	.0481546	.0000000	---	---	---	---	---
#1	869595	10000	---	---	---	---	---
#2	869003	10000	---	---	---	---	---

Method: DAILY2 Sample Name: pbw-H05L1 pg53-212 Operator:
 Run Time: 08/05/03 19:11:45
 Comment:
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0088	.0010	-.0252	.0002	.0003	-.0027
SDev	.0002	.0009	.0000	.0013	.0001	.0000	.0045
%RSD	108.5	10.51	2.011	5.196	28.02	.1676	166.2
#1	-.0000	-.0094	.0010	-.0242	.0002	.0003	.0005
#2	-.0002	-.0081	.0010	-.0261	.0001	.0003	L-.0059
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0050	.0500	.0050	.0050	.0050
Low	-.0050	-.0500	-.0050	-.0500	-.0050	-.0050	-.0050
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	H.0677	-.0001	.0009	.0002	.0015	-.0075	.0031
SDev	.0534	.0001	.0000	.0008	.0008	.0049	.0113
%RSD	78.91	143.0	4.097	465.0	58.18	65.13	361.8
#1	.0299	.0000	.0009	-.0004	.0009	-.0110	-.0049
#2	H.1055	-.0002	.0009	.0007	.0021	-.0041	.0111
Errors	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0500	.0050	.0050	.0050	.0050	.0250	.1000
Low	-.0500	-.0050	-.0050	-.0050	-.0050	-.0250	-.1000
Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0008	-.0014	-.0028	.0001	-.0015	L-.0530	.0224
SDev	.0001	.0001	.0014	.0000	.0011	.0165	.0014
%RSD	9.680	9.340	48.11	35.19	71.59	31.09	6.009
#1	-.0008	-.0013	-.0038	.0001	-.0007	-.0413	.0215
#2	-.0007	-.0015	-.0019	.0002	-.0022	L-.0646	.0234
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass
High	.0050	.0050	.0500	.0050	.0050	.0500	.0500
Low	-.0050	-.0050	-.0500	-.0050	-.0050	-.0500	-.0500
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0022	-.0012	.0013	-.0003	H.0110	.0012
SDev	.0008	.0045	.0033	.0030	.0023	.0016	.0028
%RSD	201.7	203.7	282.3	224.9	758.0	14.63	242.7
#1	.0010	-.0010	-.0035	.0034	-.0019	.0099	.0032
#2	-.0002	.0054	.0011	-.0008	.0013	H.0122	-.0008
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC High	LC Pass
High	.0050	.0100			.0050	.0100	.0100
Low	-.0050	-.0100			-.0050	-.0100	-.0100
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899

Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	97.19	-.0007	-.0010	H.0164	.0005	-.0009	.0001
SDev	.25	.0037	.0040	.0030	.0009	.0039	.0009
%RSD	.2592	542.1	416.0	18.32	173.5	454.9	633.2
#1	97.02	.0020	.0019	H.0143	.0011	.0019	.0008
#2	97.37	-.0033	-.0038	H.0186	-.0001	-.0036	-.0005
Errors	NOCHECK	NOCHECK	NOCHECK	LC High	LC Pass	LC Pass	LC Pass
High				.0100	.0030	.0050	.0050
Low				-.0100	-.0030	-.0050	-.0050
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0015	-.0001	-.0002	.0029	-.0005	-.0022
SDev	.0001	.0007	.0000	.0003	.0050	.0004	.0001
%RSD	38.48	47.44	2.123	183.9	173.6	85.76	4.189
#1	.0001	-.0010	-.0001	-.0004	-.0007	-.0002	-.0023
#2	.0002	-.0019	-.0001	.0001	.0064	-.0007	-.0022
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0100	.0050	.0100	.1000	.0050	.0100
Low	-.0050	-.0100	-.0050	-.0100	-.1000	-.0050	-.0100
Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avg	-.0001	L-.0250	-.0004				
SDev	.0001	.0017	.0002				
%RSD	73.25	6.992	65.68				
#1	-.0000	L-.0262	-.0002				
#2	-.0001	L-.0237	-.0005				
Errors	LC Pass	LC Low	LC Pass				
High	.0050	.0050	.0050				
Low	-.0050	-.0050	-.0050				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	828784	10000	--	--	--	--	--
SDev	2101.521	.0000000	--	--	--	--	--
%RSD	.2535668	.0000000	--	--	--	--	--
#1	827298	10000	--	--	--	--	--
#2	830270	10000	--	--	--	--	--

Method: DAILY2 Sample Name: lcsw-H05L1 Operator:
 Run Time: 08/05/03 19:17:01
 Comment:
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0513	1.994	2.023	-.0243	2.045	.0512	.0027
SDev	.0009	.004	.000	.0016	.000	.0000	.0005
%RSD	1.706	.1821	.0085	6.525	.0110	.0541	19.23

#1	.0519	1.996	2.022	-.0232	2.046	.0511	.0024
#2	.0506	1.991	2.023	-.0255	2.045	.0512	.0031

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	20.35	.0511	.5136	.2039	.2572	1.097	17.43
SDev	.03	.0003	.0003	.0003	.0001	.019	.02
%RSD	.1240	.4895	.0497	.1340	.0587	1.707	.1350

#1	20.34	.0513	.5134	.2037	.2571	1.110	17.44
#2	20.37	.0509	.5137	.2041	.2573	1.084	17.41

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0005	20.68	.5137	-.0019	18.35	26.30
SDev	.0011	.0001	.01	.0004	.0006	.08	.05
%RSD	738.4	30.13	.0252	.0714	31.86	.4599	.1796

#1	.0010	-.0006	20.68	.5134	-.0015	18.29	26.33
#2	-.0007	-.0004	20.67	.5139	-.0024	18.41	26.27

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5020	-.0008	.5021	.5017	.0016	.0221	.4918
SDev	.0015	.0024	.0040	.0030	.0022	.0118	.0051
%RSD	.2954	308.1	.7868	.5987	143.3	53.53	1.029

#1	.5010	-.0024	.5049	.4996	.0032	.0305	.4882
#2	.5030	.0009	.4993	.5039	-.0000	.0137	.4953

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	94.26	2.105	2.081	.0231	.5019	2.089	-.0009
SDev	.02	.001	.008	.0047	.0007	.005	.0014
%RSD	.0169	.0486	.4035	20.15	.1367	.2516	153.6

#1	94.27	2.105	2.087	.0264	.5014	2.093	-.0019
#2	94.25	2.106	2.075	.0198	.5023	2.085	.0001

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.172	-.0160	.0000	2.080	-.0175	.5091	-.0029
SDev	.004	.0004	.0001	.011	.0392	.0024	.0008
%RSD	.0851	2.240	541.4	.5300	223.4	.4683	28.45

#1	4.175	-.0157	-.0001	2.072	.0102	.5108	-.0023
#2	4.170	-.0163	.0001	2.087	-.0453	.5074	-.0035

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avge	-.0002	.4900	-.0003
SDev	.0001	.0003	.0002
%RSD	79.64	.0618	89.28

#1	-.0002	.4898	-.0004
#2	-.0001	.4902	-.0001

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	803720	10000	--	--	--	--	--
SDev	168.2914	.0000000	--	--	--	--	--
%RSD	.0209391	.0000000	--	--	--	--	--

#1	803839	10000	--	--	--	--	--
#2	803601	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: 230259

Operator:

Run Time: 08/05/03 19:22:17

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	-.0026	-.0011	.1660	.7856	.0003	.0049
SDev	.0007	.0045	.0009	.0017	.0020	.0000	.0001
%RSD	229.5	173.3	80.45	1.042	.2524	1.282	2.411

#1	-.0002	-.0057	-.0018	.1647	.7870	.0003	.0049
#2	.0008	.0006	-.0005	.1672	.7842	.0003	.0050

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	294.7	.0002	-.0002	.0013	.0077	.0442	10.31
SDev	.6	.0001	.0008	.0007	.0003	.0241	.01
%RSD	.1989	53.96	470.5	53.72	3.758	54.44	.0750

#1	294.3	.0001	-.0007	.0008	.0075	.0272	10.30
#2	295.1	.0003	.0004	.0019	.0079	.0612	10.31

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0004	-.0050	.0431	.0009	-.0020	56.32	80.49
SDev	.0007	.0002	.0020	.0000	.0004	.10	.18
%RSD	182.2	3.144	4.579	4.009	21.52	.1826	.2276

#1	-.0009	-.0052	.0417	.0009	-.0023	56.25	80.61
#2	.0001	-.0049	.0445	.0009	-.0017	56.39	80.36

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0027	.0399	.0011	-.0003	.0062	.1346	-.0025
SDev	.0003	.0015	.0025	.0014	.0055	.0130	.0004
%RSD	10.26	3.817	223.0	437.7	88.76	9.656	17.87

#1	.0029	.0410	-.0007	-.0013	.0023	.1254	-.0028
#2	.0025	.0388	.0029	.0007	.0101	.1438	-.0022

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	94.16	-.0031	-.0050	.6234	.0002	-.0043	-.0020
SDev	.21	.0044	.0002	.0079	.0018	.0016	.0010
%RSD	.2232	140.6	4.576	1.262	972.1	37.08	49.66

#1	94.01	-.0062	-.0051	.6179	-.0011	-.0055	-.0027
#2	94.31	-.0000	-.0048	.6290	.0014	-.0032	-.0013

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0541	-.0029	-.0003	.0002	.0386	.0003	-.0011
SDev	.0002	.0033	.0001	.0000	.0249	.0002	.0019
%RSD	.3037	115.0	44.65	23.38	64.55	72.76	173.0

#1	.0542	-.0005	-.0002	.0002	.0210	.0005	-.0024
#2	.0540	-.0052	-.0003	.0001	.0563	.0002	.0002

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avge	-.0004	.0820	-.0002
SDev	.0001	.0015	.0001
%RSD	16.14	1.823	47.27

#1	-.0004	.0810	-.0003
#2	-.0005	.0831	-.0001

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	---	---	---	---	---	---
Wavlen	361.384	---	---	---	---	---	---
Avge	802864	10000	---	---	---	---	---
SDev	1778.373	.0000000	---	---	---	---	---
%RSD	.2215036	.0000000	---	---	---	---	---
#1	801607	10000	---	---	---	---	---
#2	804122	10000	---	---	---	---	---

Method: DAILY2 Sample Name: 230260
 Run Time: 08/05/03 19:27:32
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0110	-.0022	.1280	.7501	.0002	.0003
SDev	.0003	.0036	.0006	.0001	.0009	.0000	.0031
%RSD	223.2	32.71	27.96	.0355	.1249	8.376	963.4

#1	-.0001	-.0085	-.0027	.1281	.7508	.0003	.0025
#2	.0004	-.0136	-.0018	.1280	.7494	.0002	-.0019

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	292.4	.0000	-.0002	.0016	.0078	.0188	4.491
SDev	.5	.0000	.0004	.0000	.0003	.0002	.018
%RSD	.1634	25.50	166.1	2.656	3.771	1.182	.4024

#1	292.7	.0000	-.0005	.0016	.0080	.0186	4.478
#2	292.0	.0000	.0000	.0015	.0076	.0189	4.503

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0013	-.0052	.0327	.0009	-.0022	54.97	78.86
SDev	.0010	.0000	.0038	.0001	.0001	.03	.08
%RSD	72.63	.3354	11.60	5.816	3.611	.0499	.1056

#1	-.0020	-.0053	.0354	.0010	-.0022	54.95	78.92
#2	-.0006	-.0052	.0300	.0009	-.0023	54.99	78.80

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015	.0062	-.0013	-.0018	.0013	.1284	-.0046
SDev	.0007	.0010	.0007	.0004	.0010	.0079	.0017
%RSD	45.37	16.09	57.09	19.67	72.71	6.118	35.96

#1	.0010	.0069	-.0008	-.0021	.0006	.1229	-.0058
#2	.0020	.0055	-.0018	-.0016	.0020	.1340	-.0034

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	96.11	.0009	-.0016	.4790	-.0016	-.0007	-.0020
SDev	.52	.0017	.0018	.0052	.0000	.0018	.0018
%RSD	.5359	195.1	114.2	1.089	.2339	235.8	90.33

#1	95.75	-.0003	-.0028	.4754	-.0016	-.0020	-.0033
#2	96.48	.0021	-.0003	.4827	-.0016	.0005	-.0007

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0535	-.0001	-.0004	.0052	.0012	.0005	-.0028
SDev	.0001	.0011	.0001	.0015	.0109	.0003	.0003
%RSD	.2129	887.5	24.01	29.36	879.6	59.28	11.85

#1	.0534	.0007	-.0003	.0042	-.0065	.0007	-.0030
#2	.0535	-.0009	-.0005	.0063	.0090	.0003	-.0025

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avgc	-.0004	.0909	-.0006
SDev	.0000	.0000	.0004
%RSD	5.398	.0054	66.89

#1	-.0005	.0909	-.0009
#2	-.0004	.0908	-.0003

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avgc	819542	10000	--	--	--	--	--
SDev	4329.615	.0000000	--	--	--	--	--
%RSD	.5282965	.0000000	--	--	--	--	--
#1	816481	10000	--	--	--	--	--
#2	822604	10000	--	--	--	--	--

Analysis Report

08/05/03 07:37:52 PM

Method: DAILY2 Sample Name: 230261
 Run Time: 08/05/03 19:32:48
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	-.0124	-.0022	.1135	.9364	.0003	-.0004
SDev	.0001	.0015	.0011	.0000	.0018	.0000	.0008
%RSD	46.24	11.72	49.31	.0092	.1880	.5953	196.7
#1	-.0003	-.0114	-.0014	.1135	.9352	.0003	-.0009
#2	-.0002	-.0134	-.0029	.1135	.9377	.0003	.0002
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	79.70	-.0002	-.0008	.0012	.0308	.0188	3.534
SDev	.18	.0000	.0004	.0005	.0001	.0078	.005
%RSD	.2226	3.394	48.02	40.61	.2672	41.72	.1322
#1	79.83	-.0002	-.0011	.0015	.0309	.0132	3.531
#2	79.58	-.0002	-.0005	.0008	.0307	.0243	3.537
Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	-.0054	.0283	.0002	-.0021	59.30	80.68
SDev	.0004	.0000	.0036	.0000	.0001	.02	.02
%RSD	81.26	.2667	12.73	5.587	2.882	.0322	.0274
#1	-.0002	-.0054	.0258	.0002	-.0021	59.28	80.67
#2	-.0008	-.0054	.0308	.0002	-.0021	59.31	80.70
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	.0164	.0041	.0003	-.0001	.1580	-.0005
SDev	.0003	.0102	.0027	.0015	.0023	.0071	.0048
%RSD	20.75	62.07	67.60	546.6	2310.	4.501	925.2
#1	.0020	.0092	.0021	.0013	-.0017	.1530	.0029
#2	.0015	.0236	.0060	-.0008	.0015	.1631	-.0039
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	97.98	.0016	-.0017	.4530	.0016	-.0006	-.0004
SDev	.64	.0019	.0001	.0120	.0001	.0006	.0004
%RSD	.6562	118.9	3.973	2.649	5.879	101.9	88.25
#1	97.52	.0003	-.0016	.4445	.0016	-.0010	-.0007
#2	98.43	.0029	-.0017	.4614	.0015	-.0002	-.0002
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0226	-.0031	-.0003	.0012	-.0043	.0002	-.0019
SDev	.0000	.0004	.0001	.0001	.0079	.0001	.0028
%RSD	.1868	12.86	26.77	6.536	183.2	35.19	144.7
#1	.0226	-.0029	-.0002	.0012	-.0099	.0001	-.0039
#2	.0227	-.0034	-.0003	.0013	.0013	.0002	.0000

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avge	-.0003	.0500	-.0005
SDev	.0001	.0001	.0005
%RSD	36.83	.2708	98.31

#1	-.0002	.0501	-.0002
#2	-.0004	.0499	-.0009

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	835447	10000	--	--	--	--	--
SDev	5415.024	.0000000	--	--	--	--	--
%RSD	.6481588	.0000000	--	--	--	--	--
#1	831618	10000	--	--	--	--	--
#2	839276	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: 230262

Operator:

Run Time: 08/05/03 19:38:04

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	-.0086	.0007	.0708	.4987	.0002	-.0012
SDev	.0005	.0122	.0031	.0018	.0006	.0000	.0002
%RSD	270.3	141.3	449.6	2.466	.1136	2.965	16.72

#1	-.0002	-.0172	.0029	.0695	.4991	.0002	-.0011
#2	.0006	-.0000	-.0015	.0720	.4983	.0002	-.0014

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	80.89	-.0000	.0006	.0011	.0085	.0240	3.336
SDev	.04	.0001	.0002	.0003	.0000	.0268	.009
%RSD	.0509	400.0	29.72	26.62	.0133	111.5	.2559

#1	80.86	-.0001	.0005	.0009	.0084	.0051	3.329
#2	80.92	.0001	.0007	.0013	.0085	.0430	3.342

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	-.0054	.0256	.0003	-.0020	56.57	76.80
SDev	.0003	.0001	.0048	.0001	.0007	.02	.41
%RSD	126.0	1.146	18.81	23.87	36.93	.0427	.5342

#1	-.0005	-.0054	.0222	.0004	-.0015	56.59	77.09
#2	-.0000	-.0053	.0289	.0003	-.0025	56.55	76.51

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0013	.0091	.0021	.0024	.0020	.1052	-.0031
SDev	.0000	.0056	.0027	.0020	.0041	.0045	.0026
%RSD	.6063	61.24	125.9	81.95	207.5	4.267	83.51

#1	.0013	.0131	.0002	.0038	-.0009	.1020	-.0013
#2	.0013	.0052	.0040	.0010	.0049	.1084	-.0049

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avge	95.80	.0005	-.0004	.4394	.0023	-.0001	-.0010
SDev	2.18	.0011	.0015	.0114	.0004	.0006	.0006
%RSD	2.280	241.4	351.6	2.604	17.53	536.5	62.62

#1	97.34	-.0003	.0006	.4313	.0026	.0003	-.0006
#2	94.25	.0013	-.0015	.4475	.0020	-.0005	-.0015

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0216	-.0052	-.0000	-.0041	.0330	.0005	.0008
SDev	.0000	.0026	.0000	.0002	.0219	.0004	.0000
%RSD	.2009	48.98	195.0	4.187	66.32	69.95	4.849

#1	.0216	-.0070	.0000	-.0040	.0175	.0003	.0008
#2	.0217	-.0034	-.0001	-.0042	.0485	.0008	.0007

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avgc	-.0003	.0267	-.0001
SDev	.0000	.0008	.0002
%RSD	2.121	3.148	230.3

#1	-.0003	.0261	-.0003
#2	-.0003	.0273	.0001

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avgc	816862	10000	--	--	--	--	--
SDev	18690.95	.0000000	--	--	--	--	--
%RSD	2.288142	.0000000	--	--	--	--	--
#1	830078	10000	--	--	--	--	--
#2	803645	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: 230263

Operator:

Run Time: 08/05/03 19:43:20

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	-.0040	.0015	.1256	.8247	.0002	.0042
SDev	.0014	.0032	.0018	.0010	.0017	.0000	.0028
%RSD	153.7	81.46	121.2	.7809	.2062	7.550	67.68

#1	-.0001	-.0062	.0002	.1250	.8259	.0003	.0022
#2	.0020	-.0017	.0027	.1263	.8235	.0002	.0062

Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	23.13	.0001	.0001	.0016	.0072	.0395	4.787
SDev	.05	.0003	.0011	.0005	.0003	.0266	.014
%RSD	.1963	305.4	874.6	31.70	3.995	67.22	.2848

#1	23.10	-.0001	-.0007	.0020	.0074	.0207	4.777
#2	23.16	.0003	.0009	.0012	.0070	.0583	4.797

Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	-.0053	.0348	.0001	-.0026	78.04	103.0
SDev	.0015	.0001	.0082	.0001	.0001	.26	.8
%RSD	236.3	1.498	23.46	85.92	2.111	.3387	.7635

#1	-.0004	-.0054	.0290	.0002	-.0025	78.23	103.6
#2	.0017	-.0053	.0405	.0000	-.0026	77.86	102.5

Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015	.0214	.0048	-.0023	.0035	.1332	-.0019
SDev	.0012	.0023	.0064	.0022	.0039	.0109	.0036
%RSD	80.79	10.94	133.1	96.15	111.8	8.156	191.8

#1	.0024	.0198	.0003	-.0007	.0007	.1255	-.0044
#2	.0007	.0231	.0093	-.0038	.0062	.1409	.0007

Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899
Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	97.09	.0051	-.0071	.6525	.0001	-.0031	.0016
SDev	1.15	.0058	.0043	.0014	.0007	.0009	.0001
%RSD	1.184	115.2	59.59	.2179	634.2	29.24	7.454

#1	96.28	.0009	-.0041	.6535	-.0004	-.0024	.0015
#2	97.90	.0092	-.0101	.6515	.0006	-.0037	.0017

Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0139	-.0041	-.0003	-.0017	.0306	-.0001	-.0013
SDev	.0000	.0029	.0001	.0010	.0364	.0004	.0032
%RSD	.2591	69.89	26.75	59.50	119.1	690.4	238.9

#1	.0139	-.0021	-.0002	-.0025	.0048	.0002	-.0036
#2	.0139	-.0062	-.0003	-.0010	.0563	-.0003	.0009

Elem	Y_3710	Zn2062	Zr3496
Units	ppm	ppm	ppm
Avg	-.0002	.0020	-.0007
SDev	.0001	.0001	.0004
%RSD	36.34	7.258	62.75

#1	-.0002	.0019	-.0004
#2	-.0003	.0021	-.0010

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avg	827854	10000	--	--	--	--	--
SDev	9779.287	.00000000	--	--	--	--	--
%RSD	1.181282	.00000000	--	--	--	--	--
#1	820939	10000	--	--	--	--	--
#2	834769	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: ccv6

Operator:

Run Time: 08/05/03 19:53:23

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9734	9.855	4.874	4.784	9.739	.9914	4.939
SDev	.0021	.027	.008	.013	.016	.0003	.017
%RSD	.2123	.2718	.1657	.2809	.1648	.0349	.3499
#1	.9748	9.874	4.880	4.775	9.751	.9911	4.951
#2	.9719	9.836	4.868	4.794	9.728	.9916	4.926
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.100	11.00	5.500	5.500	11.00	1.100	5.500
Low	.9000	9.000	4.500	4.500	9.000	.9000	4.500
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	19.65	1.002	5.008	1.957	1.989	10.03	18.24
SDev	.01	.001	.004	.001	.001	.00	.01
%RSD	.0420	.0712	.0844	.0262	.0362	.0130	.0468
#1	19.65	1.003	5.011	1.957	1.989	10.03	18.24
#2	19.66	1.002	5.005	1.956	1.988	10.03	18.23
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	22.00	1.100	5.500	2.200	2.200	11.00	22.00
Low	18.00	.9000	4.500	1.800	1.800	9.000	18.00
Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.857	4.805	19.88	1.005	5.119	27.77	H40.13
SDev	.007	.008	.00	.001	.008	.29	.10
%RSD	.1530	.1572	.0051	.0725	.1659	1.031	.2529
#1	4.862	4.810	19.88	1.005	5.113	27.98	H40.20
#2	4.851	4.800	19.88	1.004	5.125	27.57	H40.05
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High
High	5.500	5.500	22.00	1.100	5.500	33.00	33.00
Low	4.500	4.500	18.00	.9000	4.500	27.00	27.00
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.815	4.891	4.829	4.890	.9703	1.007	.9883
SDev	.006	.058	.032	.014	.0009	.014	.0029
%RSD	.1165	1.180	.6523	.2790	.0897	1.432	.2909
#1	4.811	4.931	4.851	4.899	.9709	1.017	.9903
#2	4.819	4.850	4.806	4.880	.9697	.9971	.9862
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass
High	5.500	5.500			1.100	1.100	1.100
Low	4.500	4.500			.9000	.9000	.9000
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899

Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	99.34	5.079	5.141	5.000	4.869	5.120	4.860
SDev	.31	.027	.008	.010	.020	.014	.011
%RSD	.3133	.5364	.1464	.2095	.4025	.2754	.2305
#1	99.56	5.098	5.146	5.008	4.883	5.130	4.852
#2	99.12	5.060	5.135	4.993	4.855	5.110	4.868
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High				5.500	5.500	5.500	5.500
Low				4.500	4.500	4.500	4.500
Elem	Sr4215	Th2837	Ti3349	Ti1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.029	.9683	4.804	5.087	.9669	4.894	H1.150
SDev	.003	.0031	.004	.018	.0005	.008	.003
%RSD	.0526	.3149	.0730	.3530	.0561	.1572	.2963
#1	5.027	.9705	4.801	5.074	.9673	4.900	H1.152
#2	5.031	.9662	4.806	5.100	.9665	4.889	H1.147
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High
High	5.500	1.100	5.500	5.500	1.100	5.500	1.100
Low	4.500	.9000	4.500	4.500	.9000	4.500	.9000
Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avg	4.934	.9833	4.904				
SDev	.005	.0011	.002				
%RSD	.0958	.1161	.0400				
#1	4.937	.9825	4.903				
#2	4.930	.9841	4.905				
Errors	LC Pass	LC Pass	LC Pass				
High	5.500	1.100	5.500				
Low	4.500	.9000	4.500				

IntStd	1	2	3	4	5	6	7
Mode	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Sc	--	--	--	--	--	--
Wavlen	361.384	--	--	--	--	--	--
Avge	847092	10000	--	--	--	--	--
SDev	2653.772	.0000000	--	--	--	--	--
%RSD	.3132800	.0000000	--	--	--	--	--
#1	848969	10000	--	--	--	--	--
#2	845216	10000	--	--	--	--	--

Analysis Report

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Method: DAILY2 Sample Name: ccb6
 Run Time: 08/05/03 20:01:03
 Comment:
 Mode: CONC Corr. Factor: 1

Operator:

Elem	Ag3280	Al3082	As1890	B_2496	Ba4934	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0161	-.0005	-.0237	.0001	.0003	-.0042
SDev	.0003	.0029	.0020	.0004	.0000	.0000	.0032
%RSD	685.6	18.02	386.5	1.519	7.144	.4279	75.46
#1	.0003	-.0182	-.0019	-.0235	.0001	.0003	L-.0065
#2	-.0002	-.0141	.0009	-.0240	.0001	.0003	-.0020
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0050	.0500	.0050	.0050	.0050
Low	-.0050	-.0500	-.0050	-.0500	-.0050	-.0050	-.0050
Elem	Ca3179	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011	-.0003	-.0005	.0007	.0009	-.0125	-.0012
SDev	.0011	.0001	.0002	.0010	.0004	.0264	.0032
%RSD	97.91	35.31	29.00	140.0	49.31	211.9	262.7
#1	.0003	-.0002	-.0007	.0000	.0006	.0062	-.0034
#2	.0019	-.0004	-.0004	.0014	.0012	L-.0311	.0010
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0500	.0050	.0050	.0050	.0050	.0250	.1000
Low	-.0500	-.0050	-.0050	-.0050	-.0050	-.0250	-.1000
Elem	La3988	Li6707	Mg2790	Mn2576	Mo2020	Na3302	Na5889
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	-.0010	-.0058	.0001	-.0004	H.0881	.0250
SDev	.0001	.0001	.0015	.0000	.0000	.0717	.0003
%RSD	25.80	5.394	25.10	46.46	6.871	81.33	1.079
#1	-.0007	-.0009	-.0069	.0000	-.0004	H.1388	.0252
#2	-.0005	-.0010	-.0048	.0001	-.0004	.0375	.0248
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	LC Pass
High	.0050	.0050	.0500	.0050	.0050	.0500	.0500
Low	-.0050	-.0050	-.0500	-.0050	-.0050	-.0500	-.0500
Elem	Ni2316	P_1782	2203/1	2203/2	Pd3404	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	.0025	-.0017	.0008	.0010	H.0124	-.0030
SDev	.0004	.0008	.0042	.0024	.0004	.0015	.0061
%RSD	51.37	31.93	253.2	321.9	42.89	12.26	201.2
#1	.0011	.0031	.0013	-.0010	.0007	H.0135	.0013
#2	.0005	.0020	-.0047	.0025	.0013	H.0113	-.0073
Errors	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC High	LC Pass
High	.0050	.0100			.0050	.0100	.0100
Low	-.0050	-.0100			-.0050	-.0100	-.0100
Elem	Sc3613	1960/1	1960/2	Si2881	Pb220	Se196	Sn1899

Units	%R	ppm	ppm	ppm	ppm	ppm	ppm
Avg	100.0	-.0023	.0003	.0059	-.0000	-.0006	-.0026
SDev	.7	.0035	.0003	.0015	.0002	.0014	.0028
%RSD	.7065	156.2	117.7	24.84	665.0	247.8	104.8
#1	100.5	.0002	.0005	.0049	-.0002	.0004	-.0007
#2	99.53	-.0048	.0000	.0070	.0001	-.0016	-.0046
Errors	NOCHECK	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High				.0100	.0030	.0050	.0050
Low				-.0100	-.0030	-.0050	-.0050
Elem	Sr4215	Th2837	Ti3349	Tl1908	U_4090	V_2924	W_2079
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-.0010	.0001	.0009	.0016	-.0004	-.0038
SDev	.0000	.0006	.0003	.0014	.0143	.0009	.0006
%RSD	28.47	56.68	455.9	161.9	895.6	249.0	15.47
#1	.0000	-.0014	-.0001	-.0001	-.0085	-.0010	-.0034
#2	.0000	-.0006	.0002	.0019	.0117	.0003	-.0042
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0100	.0050	.0100	.1000	.0050	.0100
Low	-.0050	-.0100	-.0050	-.0100	-.1000	-.0050	-.0100
Elem	Y_3710	Zn2062	Zr3496				
Units	ppm	ppm	ppm				
Avg	.0001	L-.0286	.0002				
SDev	.0001	.0001	.0005				
%RSD	196.2	.4754	286.0				
#1	-.0000	L-.0285	-.0002				
#2	.0001	L-.0287	.0005				
Errors	LC Pass	LC Low	LC Pass				
High	.0050	.0050	.0050				
Low	-.0050	-.0050	-.0050				

Analysis Report

	1	2	3	4	5	6	7
IntStd	*Counts	Time	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Mode	Sc	---	---	---	---	---	---
Elem	361.384	---	---	---	---	---	---
Wavlen	852923	10000	---	---	---	---	---
Avgc	6042.935	.0000000	---	---	---	---	---
SDev	.7084971	.0000000	---	---	---	---	---
%RSD							
#1	857196	10000	---	---	---	---	---
#2	848650	10000	---	---	---	---	---