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ANALYTICAL REPORT

REVISED

Carus Chemical Company

Lot #: H7J050295

Nandra Weeks

GeoSyntec Consultants
2258 Riverside Ave
Jacksonville, FL 32204

TESTAMERICA LABORATORIES, INC.



Linda McWhirter
Project Manager

December 17, 2007

ANALYTICAL METHODS SUMMARY

H7J050295

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Mercury in Solid Sequential Extraction	SW846 7470A
Percent Moisture	MCAWW 160.3 MOD
Trace Inductively Coupled Plasma (ICP) SEP Metals	SW846 6010B

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

H7J050295

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
J8DH0	001	OU1-SS-SB316-0-1 - Step1	10/03/07	12:00
J8DH8	002	OU1-SS-SB316-0-1 - Step2	10/03/07	12:00
J8DJA	003	OU1-SS-SB316-0-1 - Step3	10/03/07	12:00
J8DJE	004	OU1-SS-SB316-0-1 - Step4	10/03/07	12:00
J8DJG	005	OU1-SS-SB316-0-1 - Step5	10/03/07	12:00
J8DJJ	006	OU1-SS-SB316-0-1 - Step6	10/03/07	12:00
J8DJL	007	OU1-SS-SB316-0-1 - Step7	10/03/07	12:00
J8DJN	008	OU1-SS-SB316-0-1 - Totals	10/03/07	12:00
J8DJQ	009	OU1-SS-SB318-2-4 - Step1	10/03/07	13:20
J8DJW	010	OU1-SS-SB318-2-4 - Step2	10/03/07	13:20
J8DJ0	011	OU1-SS-SB318-2-4 - Step3	10/03/07	13:20
J8DJ1	012	OU1-SS-SB318-2-4 - Step4	10/03/07	13:20
J8DJ2	013	OU1-SS-SB318-2-4 - Step5	10/03/07	13:20
J8DJ4	014	OU1-SS-SB318-2-4 - Step6	10/03/07	13:20
J8DJ5	015	OU1-SS-SB318-2-4 - Step7	10/03/07	13:20
J8DJ7	016	OU1-SS-SB318-2-4 - Totals	10/03/07	13:20
J8DJ9	017	OU1-SS-SB313-2-4 - Step1	10/03/07	15:15
J8DKA	018	OU1-SS-SB313-2-4 - Step2	10/03/07	15:15
J8DKE	019	OU1-SS-SB313-2-4 - Step3	10/03/07	15:15
J8DKG	020	OU1-SS-SB313-2-4 - Step4	10/03/07	15:15
J8DKH	021	OU1-SS-SB313-2-4 - Step5	10/03/07	15:15
J8DKL	022	OU1-SS-SB313-2-4 - Step6	10/03/07	15:15
J8DKP	023	OU1-SS-SB313-2-4 - Step7	10/03/07	15:15
J8DKT	024	OU1-SS-SB313-2-4 - Totals	10/03/07	15:15
J8DKW	025	OU1-SS-SB311-0-1 - Step1	10/03/07	15:45
J8DK3	026	OU1-SS-SB311-0-1 - Step2	10/03/07	15:45
J8DK7	027	OU1-SS-SB311-0-1 - Step3	10/03/07	15:45
J8DK8	028	OU1-SS-SB311-0-1 - Step4	10/03/07	15:45
J8DK9	029	OU1-SS-SB311-0-1 - Step5	10/03/07	15:45
J8DLA	030	OU1-SS-SB311-0-1 - Step6	10/03/07	15:45
J8DLD	031	OU1-SS-SB311-0-1 - Step7	10/03/07	15:45
J8DLE	032	OU1-SS-SB311-0-1 - Totals	10/03/07	15:45

NOTE (S) :

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

PROJECT NARRATIVE

H7J050295

Revised

This report has been revised to correct client ID from OU1-SS-SB317-2-4 to OU1-SS-SB318-2-4 due to laboratory error.

The results reported herein are applicable to the samples submitted for analysis only.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

The temperature of the cooler was outside of temperature specifications at 16°C.

The container label for sample OU1-SS-SB311-0-1 did not match the associated chain of custody documentation.

Quality Control and Data Interpretation

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

These soil samples were prepared and analyzed using TestAmerica Knoxville standard operating procedure KNOX-MT-0008, "7 Step Sequential Extraction Procedure". SW-846 Methods 6010B and 7470A as incorporated in TestAmerica Knoxville standard operating procedures KNOX-MT-0007 and KNOX-MT-0009 were used to perform the final instrument analyses.

An aliquot of each sample was sequentially extracted using the steps listed below:

- Step 1 - Exchangeable Fraction: A 5 gram aliquot of sample was extracted with 25 mL of 1M magnesium sulfate ($MgSO_4$), centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method

TestAmerica Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906, Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Cert. #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. #QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert. #345, Wisconsin DNR Lab ID #998044300, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

PROJECT NARRATIVE

H7J050295

6010B. A second 5 mL portion of the leachate was digested and analyzed for mercury by method 7470A. Results are reported in mg/kg on a dry weight basis.

- Step 2 - Organic-bound Fraction: The sample residue from step 1 was extracted three times with 25 mL of 5% sodium hypochlorite (NaClO) at pH 9.5, centrifuged and filtered. The resulting leachates were combined and 5 mL were digested using method 3010A and analyzed by method 6010B. A second 5 mL portion of the leachate was digested and analyzed for mercury by method 7470A. Results are reported in mg/kg on a dry weight basis.
- Step 3 - Carbonate Fraction: The sample residue from step 2 was extracted with 25 mL of 1M sodium acetate/acetic acid (NaOAc/HOAc) at pH 5, centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. A second 5 mL portion of the leachate was digested and analyzed for mercury by method 7470A. Results are reported in mg/kg on a dry weight basis.
- Step 4 - Non-crystalline Materials Fraction: The sample residue from step 3 was extracted with 25 mL of 0.2M ammonium oxalate (pH 3), centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. A second 5 mL portion of the leachate was digested and analyzed for mercury by method 7470A. Results are reported in mg/kg on a dry weight basis.
- Step 5 - Metal Hydroxide Fraction: The sample residue from step 4 was extracted with 25 mL of 1M hydroxylamine hydrochloride solution in 25% v/v acetic acid, centrifuged and filtered. 5 mL of the resulting leachate was digested using method 3010A and analyzed by method 6010B. A second 5 mL portion of the leachate was digested and analyzed for mercury by method 7470A. Results are reported in mg/kg on a dry weight basis.
- Step 6 - Acid/Sulfide Fraction: The sample residue from step 5 was extracted with 25 mL of a 3:1:2 v/v solution of HCl-HNO₃-H₂O, centrifuged and filtered. 5 mL of the resulting leachate was diluted to 50 mL with reagent water and analyzed by method 6010B. A second 5 mL portion of the leachate was digested and analyzed for mercury by method 7470A. Results are reported in mg/kg on a dry weight basis.
- Step 7 - Residual Fraction: A 1.0 g aliquot of the sample residue from step 6 was digested using HF, HNO₃, HCl and H₃BO₃. The digestate was analyzed by ICP using method 6010B. A 5 mL aliquot of the digestate was prepared and analyzed for mercury by method 7470A. Results are reported in mg/kg on a dry weight basis.

In addition, a 1.0 g aliquot of the original sample was digested using HF, HNO₃, HCl and H₃BO₃. The digestate was analyzed by ICP using method 6010B. A 5 mL aliquot of the

PROJECT NARRATIVE H7J050295

digestate was prepared and analyzed for mercury by method 7470A. Total metal results are reported in mg/kg on a dry weight basis.

Results were calculated using the following equation:

$$\mu\text{g} / \text{g} \text{ or } \text{mg} / \text{kg}, \text{ dryweight} = \frac{C \times V \times V1 \times D}{W \times S \times V2}$$

Where:

- C = Concentration from instrument readout, $\mu\text{g}/\text{mL}$
- V = Final volume of digestate, mL
- D = Instrument dilution factor
- V1 = Total volume of leachate, mL
- V2 = Volume of leachate digested, mL
- W = Wet weight of sample, g
- S = Percent solids/100

A method blank, laboratory control sample and laboratory control sample duplicate were prepared and analyzed with each SEP step in order to provide information about both the presence of elements of interest in the extraction solutions, and the recovery of elements of interest from the extraction solutions. Results outside of laboratory QC limits do not reflect out of control performance, but rather the effect of the extraction solution upon the analyte.

A laboratory sample duplicate was prepared and analyzed with each batch of samples in order to provide information regarding the reproducibility of the procedure.

Report Notes:

The final report lists the results for each step, the result for the total digestion of the sample, and a sum of the results of steps 1 through 7 by element.

The digestates for steps 1, 2 and 3 were analyzed at a 1/3 dilution due to instrument problems caused by the high solids content of the digestates. The reporting limits were adjusted accordingly.

The serial dilution of samples OU1-SS-SB316-0-1 and OU1-SS-SB316-0-1 were outside control limits due to physical or chemical matrix interferences.

Sample Receipt Documentation

STL Knoxville

5815 Middlebrook Pike • Knoxville, TN 37921-5947
 Phone: (865) 291-3000 • Fax: (865) 584-4315
 Receiving: (865) 291-3031

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No.
 Page 1 of 1

Project Name/No. ¹ Carus Chemicals / FR1347
 Sample Team Members ² EE, BB
 Profit Center No. ³ 1234
 Project Manager ⁴ Linda M.
 Purchase Order No. ⁵ FR1347
 Required Report Date ¹¹ _____

Samples Shipment Date ⁷ 10/4/07
 Lab Destination ⁸ STL Knoxville
 Lab Contact ⁹ Linda M.
 Project Contact / Phone ¹² B Bodine 312-658-0500
 Carrier / Waybill No. ¹³ 8881 3755 0782

Bill to: ⁵ Geosyntec Consultants
Attn: Nandia Weeks
2258 Riverside Avenue
Jacksonville, FL 32204
 Report to: ¹⁰ Geosyntec Consultants
Attn: Nandia Weeks
2258 Riverside Avenue
Jacksonville, FL 32204

ONE CONTAINER PER LINE

Sample ¹⁴ Number	Sample ¹⁵ Type	Date/Time ¹⁶ Collected	Container ¹⁷ Type	Sample ¹⁸ Volume	Pre- ¹⁹ servative	Requested Testing ²⁰ Program	Condition on Receipt ²¹ Lab use only
OU1-SS-SB316-0-1	Grab/Soil	1200/10/3	WM Jar Glass	120ML	None	Metals SEP	Custody seals intact <input checked="" type="radio"/> N NA
OU1-SS-SB318-2-4	"	1320/10/3	"	"	"	Metals SEP	Temperature received at <u>16°C</u>
OU1-SS-SB318-2-4	"	1515/10/3	"	"	"	Metals SEP	Received by <u>RH</u> Date <u>10/5/07</u>
OU1-SS-SB311-0-1	"	1545/10/3	"	"	"	Metals SEP	Number of packages <u>1</u>
							Tracking # <u>858137550782</u>

Special Instructions: ²³

Possible Hazard Identification: ²⁴ Non-Hazard Flammable Skin Irritant Poison B Unknown Sample Disposal: ²⁵ Return to Client Disposal by Lab Archive (mos.)

Turnaround Time Required: ²⁶ Normal Rush QC Level: ²⁷ I. II. III. Project Specific (specify):

1. Relinquished by ²⁸ Brad Bodine/Geosyntec Date: 10/4/07
 (Signature / Affiliation) Time: 0830

1. Received by ²⁸ Ryan Henry Date: 10/5/07
 (Signature / Affiliation) Time: 1000

1. Relinquished by (Signature / Affiliation) Date: _____ Time: _____

1. Received by (Signature / Affiliation) Date: _____ Time: _____

Comments: ²⁹

WRITE: 10 accompany samples
 YELLOW: Field copy

STL KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: _____ Project: _____ Lot Number: H7J050295

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)		✓		<input checked="" type="checkbox"/> 1a Do not match COC <input type="checkbox"/> 1b Incomplete information <input type="checkbox"/> 1c Marking smeared <input type="checkbox"/> 1d Label torn <input type="checkbox"/> 1e No label <input type="checkbox"/> 1f COC not received <input type="checkbox"/> 1g Other:	<u>2b - RECEIVED AT 16°C</u> <u>1a - COC HAS OUI-SS-SB311-0-1</u> <u>SAMPLE LABEL HAS OUI-SS-SS311-0-1</u>
2. Is the cooler temperature within limits? (> freezing temp. of water to 6°C; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6°C)		✓		<input type="checkbox"/> 2a Temp Blank = _____ <input checked="" type="checkbox"/> 2b Cooler Temp = <u>16°C</u>	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	<input type="checkbox"/> 3a Sample preservative = _____	
4. Were custody seals present/intact on cooler and/or containers?	✓			<input type="checkbox"/> 4a Not present <input type="checkbox"/> 4b Not intact <input type="checkbox"/> 4c Other:	
5. Were all of the samples listed on the COC received?	✓			<input type="checkbox"/> 5a Samples received-not on COC <input type="checkbox"/> 5b Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			<input type="checkbox"/> 6a Leaking <input type="checkbox"/> 6b Broken	
7. Were VOA samples received without headspace?			✓	<input type="checkbox"/> 7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			<input type="checkbox"/> 8a Improper container	
9. Did you check for residual chlorine, if necessary?			✓	<input type="checkbox"/> 9a Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			<input type="checkbox"/> 10a Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	<input type="checkbox"/> Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
13. Are the shipping containers intact?	✓			<input type="checkbox"/> 13a Leaking <input type="checkbox"/> 13b Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	✓			<input type="checkbox"/> 14a Not relinquished	
15. Are tests/parameters listed for each sample?	✓			<input type="checkbox"/> 15a Incomplete information	
16. Is the matrix of the samples noted?	✓			<input type="checkbox"/> 15a Incomplete information	
17. Is the date/time of sample collection noted?	✓			<input type="checkbox"/> 15a Incomplete information	
18. Is the client and project name/# identified?	✓			<input type="checkbox"/> 15a Incomplete information	
19. Was the sampler identified on the COC?	✓				

Quote #: 76168 PM Instructions: _____

Sample Receiving Associate: Ryan Henry Date: 10/5/07

Metals

Sample Results

GeoSyntec Consultants
Client Sample ID: OUI-SS-SB311-0-1
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 6010B
Date Received:	10/05/07	% Moisture:	17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Arsenic - Step 1	ND Dilution Factor: 3	1.8	mg/kg	7283063 Analysis Time: 15:01	Lot-Sample #: H7J050295 - 025 10/10 - 10/17/07 MDL: 0.62	J8DKW1AA
Arsenic - Step 2	4.9 B Dilution Factor: 9	5.4	mg/kg	7284046 Analysis Time 16:08	Lot-Sample #: H7J050295 - 026 10/11 - 10/17/07 MDL: 1.9	J8DK31AA
Arsenic - Step 3	ND Dilution Factor: 3	1.8	mg/kg	7285046 Analysis Time: 12:18	Lot-Sample #: H7J050295 - 027 10/15 - 10/19/07 MDL: 0.80	J8DK71AA
Arsenic - Step 4	2.0 Dilution Factor: 1	0.61	mg/kg	7288126 Analysis Time 13:25	Lot-Sample #: H7J050295 - 028 10/16 - 10/19/07 MDL: 0.21	J8DK81AA
Arsenic - Step 5	0.76 Dilution Factor: 1	0.61	mg/kg	7289443 Analysis Time 14:32	Lot-Sample #: H7J050295 - 029 10/17 - 10/19/07 MDL: 0.21	J8DK91AA
Arsenic - Step 6	12.2 Dilution Factor: 1	0.61	mg/kg	7291075 Analysis Time 15:43	Lot-Sample #: H7J050295 - 030 10/18 - 10/19/07 MDL: 0.21	J8DLA1AA
Arsenic - Step 7	1.6 Dilution Factor: 1	0.61	mg/kg	7291515 Analysis Time 12:06	Lot-Sample #: H7J050295 - 031 10/19 - 10/22/07 MDL: 0.21	J8DLD1AA
Arsenic - Total	17.6 Dilution Factor: 1	0.61	mg/kg	7282067 Analysis Time 17:15	Lot-Sample #: H7J050295 - 032 10/09 - 10/17/07 MDL: 0.21	J8DLE1AA
Sum of Steps 1-7	21.5					

GeoSyntec Consultants
Client Sample ID: OU1-SS-SB311-0-1
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 6010B
Date Received:	10/05/07	% Moisture:	17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Cadmium - Step 1	ND	0.91	mg/kg	7283063	10/10 - 10/17/07	J8DKW1AC
	Dilution Factor: 3			Analysis Time: 15:01	MDL: 0.12	
					Lot-Sample #: H7J050295 - 025	
Cadmium - Step 2	ND	2.7	mg/kg	7284046	10/11 - 10/17/07	J8DK31AC
	Dilution Factor: 9			Analysis Time: 16:08	MDL: 0.37	
					Lot-Sample #: H7J050295 - 026	
Cadmium - Step 3	ND	0.91	mg/kg	7285046	10/15 - 10/19/07	J8DK71AC
	Dilution Factor: 3			Analysis Time: 12:18	MDL: 0.12	
					Lot-Sample #: H7J050295 - 027	
Cadmium - Step 4	ND	0.30	mg/kg	7288126	10/16 - 10/19/07	J8DK81AC
	Dilution Factor: 1			Analysis Time: 13:25	MDL: 0.041	
					Lot-Sample #: H7J050295 - 028	
Cadmium - Step 5	0.42	0.30	mg/kg	7289443	10/17 - 10/19/07	J8DK91AC
	Dilution Factor: 1			Analysis Time: 14:32	MDL: 0.041	
					Lot-Sample #: H7J050295 - 029	
Cadmium - Step 6	0.079 B	0.30	mg/kg	7291075	10/18 - 10/19/07	J8DLA1AC
	Dilution Factor: 1			Analysis Time: 15:43	MDL: 0.041	
					Lot-Sample #: H7J050295 - 030	
Cadmium - Step 7	ND	0.30	mg/kg	7291515	10/19 - 10/22/07	J8DLD1AC
	Dilution Factor: 1			Analysis Time: 12:06	MDL: 0.041	
					Lot-Sample #: H7J050295 - 031	
Cadmium - Total	0.65	0.30	mg/kg	7282067	10/09 - 10/17/07	J8DLE1AC
	Dilution Factor: 1			Analysis Time: 17:15	MDL: 0.041	
					Lot-Sample #: H7J050295 - 032	
Sum of Steps 1-7	0.50					

GeoSyntec Consultants
Client Sample ID: OU1-SS-SB311-0-1
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 6010B
Date Received:	10/05/07	% Moisture:	17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Chromium - Step 1	ND Dilution Factor: 3	1.8 mg/kg		7283063 Analysis Time: 15:01	Lot-Sample #: H7J050295 - 025 10/10 - 10/17/07 MDL: 0.51	J8DKW1AD
Chromium - Step 2	18.8 Dilution Factor: 9	5.4 mg/kg		7284046 Analysis Time 16:08	Lot-Sample #: H7J050295 - 026 10/11 - 10/17/07 MDL: 1.5	J8DK31AD
Chromium - Step 3	ND Dilution Factor: 3	1.8 mg/kg		7285046 Analysis Time: 12:18	Lot-Sample #: H7J050295 - 027 10/15 - 10/19/07 MDL: 0.51	J8DK71AD
Chromium - Step 4	1.0 Dilution Factor: 1	0.61 mg/kg		7288126 Analysis Time 13:25	Lot-Sample #: H7J050295 - 028 10/16 - 10/19/07 MDL: 0.17	J8DK81AD
Chromium - Step 5	2.7 Dilution Factor: 1	0.61 mg/kg		7289443 Analysis Time 14:32	Lot-Sample #: H7J050295 - 029 10/17 - 10/19/07 MDL: 0.17	J8DK91AD
Chromium - Step 6	7.2 Dilution Factor: 1	0.61 mg/kg		7291075 Analysis Time 15:43	Lot-Sample #: H7J050295 - 030 10/18 - 10/19/07 MDL: 0.17	J8DLA1AD
Chromium - Step 7	25.7 Dilution Factor: 1	0.61 mg/kg		7291515 Analysis Time 12:06	Lot-Sample #: H7J050295 - 031 10/19 - 10/22/07 MDL: 0.17	J8DLD1AD
Chromium - Total	52.3 Dilution Factor: 1	0.61 mg/kg		7282067 Analysis Time 17:15	Lot-Sample #: H7J050295 - 032 10/09 - 10/17/07 MDL: 0.17	J8DLE1AD
Sum of Steps 1-7	55.4					

GeoSyntec Consultants
Client Sample ID: OU1-SS-SB311-0-1
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 6010B
Date Received:	10/05/07	% Moisture:	17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
					Lot-Sample #: H7J050295 - 025	
Copper - Step 1	ND	4.7 mg/kg		7283063	10/10 - 10/17/07	J8DKW1AE
	Dilution Factor: 3			Analysis Time: 15:01	MDL: 1.3	
					Lot-Sample #: H7J050295 - 026	
Copper - Step 2	ND	14.2 mg/kg		7284046	10/11 - 10/17/07	J8DK31AE
	Dilution Factor: 9			Analysis Time: 16:08	MDL: 3.8	
					Lot-Sample #: H7J050295 - 027	
Copper - Step 3	ND	4.7 mg/kg		7285046	10/15 - 10/19/07	J8DK71AE
	Dilution Factor: 3			Analysis Time: 12:18	MDL: 1.3	
					Lot-Sample #: H7J050295 - 028	
Copper - Step 4	8.3	1.6 mg/kg		7288126	10/16 - 10/19/07	J8DK81AE
	Dilution Factor: 1			Analysis Time: 13:25	MDL: 0.42	
					Lot-Sample #: H7J050295 - 029	
Copper - Step 5	2.9	1.6 mg/kg		7289443	10/17 - 10/19/07	J8DK91AE
	Dilution Factor: 1			Analysis Time: 14:32	MDL: 0.42	
					Lot-Sample #: H7J050295 - 030	
Copper - Step 6	4.5	1.6 mg/kg		7291075	10/18 - 10/19/07	J8DLA1AE
	Dilution Factor: 1			Analysis Time: 15:43	MDL: 0.42	
					Lot-Sample #: H7J050295 - 031	
Copper - Step 7	1.3 B	1.6 mg/kg		7291515	10/19 - 10/22/07	J8DLD1AE
	Dilution Factor: 1			Analysis Time: 12:06	MDL: 0.42	
					Lot-Sample #: H7J050295 - 032	
Copper - Total	17.9	1.6 mg/kg		7282067	10/09 - 10/17/07	J8DLE1AE
	Dilution Factor: 1			Analysis Time: 17:15	MDL: 0.42	
Sum of Steps 1-7	17.0					

GeoSyntec Consultants
Client Sample ID: OU1-SS-SB311-0-1
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 6010B
Date Received:	10/05/07	% Moisture:	17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Lead - Step 1	ND Dilution Factor: 3	1.8 mg/kg		7283063 Analysis Time: 15:01	Lot-Sample #: H7J050295 - 025 10/10 - 10/17/07 MDL: 0.65	J8DKW1AF
Lead - Step 2	ND Dilution Factor: 9	5.4 mg/kg		7284046 Analysis Time: 16:08	Lot-Sample #: H7J050295 - 026 10/11 - 10/17/07 MDL: 2.0	J8DK31AF
Lead - Step 3	ND Dilution Factor: 3	1.8 mg/kg		7285046 Analysis Time: 12:18	Lot-Sample #: H7J050295 - 027 10/15 - 10/19/07 MDL: 0.65	J8DK71AF
Lead - Step 4	ND Dilution Factor: 1	0.61 mg/kg		7288126 Analysis Time: 13:25	Lot-Sample #: H7J050295 - 028 10/16 - 10/19/07 MDL: 0.22	J8DK81AF
Lead - Step 5	22.4 Dilution Factor: 1	0.61 mg/kg		7289443 Analysis Time 14:32	Lot-Sample #: H7J050295 - 029 10/17 - 10/19/07 MDL: 0.22	J8DK91AF
Lead - Step 6	7.3 Dilution Factor: 1	0.61 mg/kg		7291075 Analysis Time 15:43	Lot-Sample #: H7J050295 - 030 10/18 - 10/19/07 MDL: 0.22	J8DLA1AF
Lead - Step 7	1.8 Dilution Factor: 1	0.61 mg/kg		7291515 Analysis Time 12:06	Lot-Sample #: H7J050295 - 031 10/19 - 10/22/07 MDL: 0.22	J8DLD1AF
Lead - Total	25.9 Dilution Factor: 1	0.61 mg/kg		7282067 Analysis Time 17:15	Lot-Sample #: H7J050295 - 032 10/09 - 10/17/07 MDL: 0.22	J8DLE1AF
Sum of Steps 1-7	31.5					

GeoSyntec Consultants
Client Sample ID: OUI-SS-SB311-0-1
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 7470A
Date Received:	10/05/07	% Moisture:	17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
					Lot-Sample #: H7J050295 - 025	
Mercury - Step 1	ND	0.012	mg/kg	7295103	10/22 - 10/23/07	J8DKW1AK
	Dilution Factor: 1			Analysis Time: 09:00	MDL: 0.0071	
					Lot-Sample #: H7J050295 - 026	
Mercury - Step 2	0.087	0.036	mg/kg	7295104	10/22 - 10/23/07	J8DK31AK
	Dilution Factor: 3			Analysis Time: 09:20	MDL: 0.021	
					Lot-Sample #: H7J050295 - 027	
Mercury - Step 3	ND	0.012	mg/kg	7295105	10/22 - 10/23/07	J8DK71AK
	Dilution Factor: 1			Analysis Time: 09:39	MDL: 0.0087	
					Lot-Sample #: H7J050295 - 028	
Mercury - Step 4	ND	0.012	mg/kg	7295107	10/22 - 10/23/07	J8DK81AK
	Dilution Factor: 1			Analysis Time: 09:59	MDL: 0.0052	
					Lot-Sample #: H7J050295 - 029	
Mercury - Step 5	ND	0.012	mg/kg	7295110	10/22 - 10/23/07	J8DK91AK
	Dilution Factor: 1			Analysis Time: 10:14	MDL: 0.0057	
					Lot-Sample #: H7J050295 - 030	
Mercury - Step 6	ND	0.012	mg/kg	7295111	10/22 - 10/23/07	J8DLA1AK
	Dilution Factor: 1			Analysis Time: 10:34	MDL: 0.0048	
					Lot-Sample #: H7J050295 - 031	
Mercury - Step 7	ND	0.12	mg/kg	7295113	10/22 - 10/23/07	J8DLD1AK
	Dilution Factor: 1			Analysis Time: 10:54	MDL: 0.048	
					Lot-Sample #: H7J050295 - 032	
Mercury - Total	0.10 B	0.12	mg/kg	7282076	10/11 - 10/16/07	J8DLE1AK
	Dilution Factor: 1			Analysis Time: 10:04	MDL: 0.048	
Sum of Steps 1-7	0.087					

GeoSyntec Consultants
Client Sample ID: OU1-SS-SB311-0-1
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 6010B
Date Received:	10/05/07	% Moisture:	17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Nickel - Step 1	ND	7.3	mg/kg	7283063	10/10 - 10/17/07	J8DKW1AG
	Dilution Factor: 3			Analysis Time: 15:01	MDL: 0.69	
					Lot-Sample #: H7J050295 - 025	
Nickel - Step 2	ND	21.8	mg/kg	7284046	10/11 - 10/17/07	J8DK31AG
	Dilution Factor: 9			Analysis Time: 16:08	MDL: 2.1	
					Lot-Sample #: H7J050295 - 026	
Nickel - Step 3	ND	7.3	mg/kg	7285046	10/15 - 10/19/07	J8DK71AG
	Dilution Factor: 3			Analysis Time: 12:18	MDL: 0.69	
					Lot-Sample #: H7J050295 - 027	
Nickel - Step 4	11.8	2.4	mg/kg	7288126	10/16 - 10/19/07	J8DK81AG
	Dilution Factor: 1			Analysis Time 13:25	MDL: 0.23	
					Lot-Sample #: H7J050295 - 028	
Nickel - Step 5	6.1	2.4	mg/kg	7289443	10/17 - 10/19/07	J8DK91AG
	Dilution Factor: 1			Analysis Time 14:32	MDL: 0.23	
					Lot-Sample #: H7J050295 - 029	
Nickel - Step 6	6.8	2.4	mg/kg	7291075	10/18 - 10/19/07	J8DLA1AG
	Dilution Factor: 1			Analysis Time 15:43	MDL: 0.23	
					Lot-Sample #: H7J050295 - 030	
Nickel - Step 7	3.9	2.4	mg/kg	7291515	10/19 - 10/22/07	J8DLD1AG
	Dilution Factor: 1			Analysis Time 12:06	MDL: 0.23	
					Lot-Sample #: H7J050295 - 031	
Nickel - Total	22.7	2.4	mg/kg	7282067	10/09 - 10/17/07	J8DLE1AG
	Dilution Factor: 1			Analysis Time 17:15	MDL: 0.23	
					Lot-Sample #: H7J050295 - 032	
Sum of Steps 1-7	28.6					

GeoSyntec Consultants
Client Sample ID: OUI-SS-SB311-0-1
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 6010B
Date Received:	10/05/07	% Moisture:	17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Selenium - Step 1	ND Dilution Factor: 3	1.8	mg/kg	7283063 Analysis Time: 15:01	Lot-Sample #: H7J050295 - 025 10/10 - 10/17/07 MDL: 0.76	J8DKW1AH
Selenium - Step 2	ND Dilution Factor: 9	5.4	mg/kg	7284046 Analysis Time: 16:08	Lot-Sample #: H7J050295 - 026 10/11 - 10/17/07 MDL: 2.3	J8DK31AH
Selenium - Step 3	ND Dilution Factor: 3	1.8	mg/kg	7285046 Analysis Time: 12:18	Lot-Sample #: H7J050295 - 027 10/15 - 10/19/07 MDL: 1.7	J8DK71AH
Selenium - Step 4	0.26 B Dilution Factor: 1	0.61	mg/kg	7288126 Analysis Time: 13:25	Lot-Sample #: H7J050295 - 028 10/16 - 10/19/07 MDL: 0.25	J8DK81AH
Selenium - Step 5	ND Dilution Factor: 1	0.61	mg/kg	7289443 Analysis Time: 14:32	Lot-Sample #: H7J050295 - 029 10/17 - 10/19/07 MDL: 0.25	J8DK91AH
Selenium - Step 6	ND Dilution Factor: 1	0.61	mg/kg	7291075 Analysis Time: 15:43	Lot-Sample #: H7J050295 - 030 10/18 - 10/19/07 MDL: 0.25	J8DLA1AH
Selenium - Step 7	0.61 Dilution Factor: 1	0.61	mg/kg	7291515 Analysis Time: 12:06	Lot-Sample #: H7J050295 - 031 10/19 - 10/22/07 MDL: 0.25	J8DLD1AH
Selenium - Total	0.65 Dilution Factor: 1	0.61	mg/kg	7282067 Analysis Time: 17:15	Lot-Sample #: H7J050295 - 032 10/09 - 10/17/07 MDL: 0.25	J8DLE1AH
Sum of Steps 1-7	0.87					

GeoSyntec Consultants
Client Sample ID: OUI-SS-SB311-0-1
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 6010B
Date Received:	10/05/07	% Moisture:	17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Zinc - Step 1	ND	3.6	mg/kg	7283063	10/10 - 10/17/07	J8DKW1AJ
	Dilution Factor: 3			Analysis Time: 15:01	MDL: 0.87	
Zinc - Step 2	6.8 B J	10.9	mg/kg	7284046	10/11 - 10/17/07	J8DK31AJ
	Dilution Factor: 9			Analysis Time 16:08	MDL: 2.2	
Zinc - Step 3	7.9	3.6	mg/kg	7285046	10/15 - 10/19/07	J8DK71AJ
	Dilution Factor: 3			Analysis Time 12:18	MDL: 0.69	
Zinc - Step 4	61.0	1.2	mg/kg	7288126	10/16 - 10/19/07	J8DK81AJ
	Dilution Factor: 1			Analysis Time 13:25	MDL: 0.23	
Zinc - Step 5	36.1	1.2	mg/kg	7289443	10/17 - 10/19/07	J8DK91AJ
	Dilution Factor: 1			Analysis Time 14:32	MDL: 0.23	
Zinc - Step 6	33.6 J	1.2	mg/kg	7291075	10/18 - 10/19/07	J8DLA1AJ
	Dilution Factor: 1			Analysis Time 15:43	MDL: 0.23	
Zinc - Step 7	10.6 B	12.1	mg/kg	7291515	10/19 - 10/22/07	J8DLD1AJ
	Dilution Factor: 10			Analysis Time 13:01	MDL: 2.3	
Zinc - Total	168	12.1	mg/kg	7282067	10/09 - 10/17/07	J8DLE1AJ
	Dilution Factor: 10			Analysis Time 18:40	MDL: 2.3	
Sum of Steps 1-7	156					

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

GeoSyntec Consultants
Client Sample ID: OUI-SS-SB313-2-4
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 6010B
Date Received:	10/05/07	% Moisture:	12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Arsenic - Step 1	ND	1.7 mg/kg		7283063	10/10 - 10/17/07	J8DJ91AA
	Dilution Factor: 3			Analysis Time: 14:55	MDL: 0.58	
Arsenic - Step 2	ND	5.1 mg/kg		7284046	10/11 - 10/17/07	J8DKA1AA
	Dilution Factor: 9			Analysis Time: 16:02	MDL: 1.7	
Arsenic - Step 3	ND	1.7 mg/kg		7285046	10/15 - 10/19/07	J8DKE1AA
	Dilution Factor: 3			Analysis Time: 12:12	MDL: 0.75	
Arsenic - Step 4	ND	0.57 mg/kg		7288126	10/16 - 10/19/07	J8DKG1AA
	Dilution Factor: 1			Analysis Time: 13:19	MDL: 0.19	
Arsenic - Step 5	0.23 B	0.57 mg/kg		7289443	10/17 - 10/19/07	J8DKH1AA
	Dilution Factor: 1			Analysis Time: 14:26	MDL: 0.19	
Arsenic - Step 6	1.1	0.57 mg/kg		7291075	10/18 - 10/19/07	J8DKL1AA
	Dilution Factor: 1			Analysis Time: 15:37	MDL: 0.19	
Arsenic - Step 7	1.2	0.57 mg/kg		7291515	10/19 - 10/22/07	J8DKP1AA
	Dilution Factor: 1			Analysis Time: 12:00	MDL: 0.19	
Arsenic - Total	5.5	0.57 mg/kg		7282067	10/09 - 10/17/07	J8DKT1AA
	Dilution Factor: 1			Analysis Time: 17:09	MDL: 0.19	
Sum of Steps 1-7	2.5					

GeoSyntec Consultants
Client Sample ID: OUI-SS-SB313-2-4
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 6010B
Date Received:	10/05/07	% Moisture:	12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Cadmium - Step 1	ND	0.85	mg/kg	7283063	10/10 - 10/17/07	J8DJ91AC
	Dilution Factor: 3			Analysis Time: 14:55	MDL: 0.12	
					Lot-Sample #: H7J050295 - 017	
Cadmium - Step 2	ND	2.5	mg/kg	7284046	10/11 - 10/17/07	J8DKA1AC
	Dilution Factor: 9			Analysis Time: 16:02	MDL: 0.35	
					Lot-Sample #: H7J050295 - 018	
Cadmium - Step 3	ND	0.85	mg/kg	7285046	10/15 - 10/19/07	J8DKE1AC
	Dilution Factor: 3			Analysis Time: 12:12	MDL: 0.12	
					Lot-Sample #: H7J050295 - 019	
Cadmium - Step 4	ND	0.28	mg/kg	7288126	10/16 - 10/19/07	J8DKG1AC
	Dilution Factor: 1			Analysis Time: 13:19	MDL: 0.038	
					Lot-Sample #: H7J050295 - 020	
Cadmium - Step 5	0.086 B	0.28	mg/kg	7289443	10/17 - 10/19/07	J8DKH1AC
	Dilution Factor: 1			Analysis Time: 14:26	MDL: 0.038	
					Lot-Sample #: H7J050295 - 021	
Cadmium - Step 6	ND	0.28	mg/kg	7291075	10/18 - 10/19/07	J8DKL1AC
	Dilution Factor: 1			Analysis Time: 15:37	MDL: 0.038	
					Lot-Sample #: H7J050295 - 022	
Cadmium - Step 7	ND	0.28	mg/kg	7291515	10/19 - 10/22/07	J8DKP1AC
	Dilution Factor: 1			Analysis Time: 12:00	MDL: 0.038	
					Lot-Sample #: H7J050295 - 023	
Cadmium - Total	0.33	0.28	mg/kg	7282067	10/09 - 10/17/07	J8DKT1AC
	Dilution Factor: 1			Analysis Time: 17:09	MDL: 0.038	
					Lot-Sample #: H7J050295 - 024	
Sum of Steps 1-7	0.086					

GeoSyntec Consultants
Client Sample ID: OU1-SS-SB313-2-4
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 6010B
Date Received:	10/05/07	% Moisture:	12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Chromium - Step 1	ND Dilution Factor: 3	1.7 mg/kg		7283063 Analysis Time: 14:55	Lot-Sample #: H7J050295 - 017 10/10 - 10/17/07 MDL: 0.48	J8DJ91AD
Chromium - Step 2	4.2 B Dilution Factor: 9	5.1 mg/kg		7284046 Analysis Time 16:02	Lot-Sample #: H7J050295 - 018 10/11 - 10/17/07 MDL: 1.4	J8DKA1AD
Chromium - Step 3	ND Dilution Factor: 3	1.7 mg/kg		7285046 Analysis Time: 12:12	Lot-Sample #: H7J050295 - 019 10/15 - 10/19/07 MDL: 0.48	J8DKE1AD
Chromium - Step 4	0.64 Dilution Factor: 1	0.57 mg/kg		7288126 Analysis Time 13:19	Lot-Sample #: H7J050295 - 020 10/16 - 10/19/07 MDL: 0.16	J8DKG1AD
Chromium - Step 5	2.4 Dilution Factor: 1	0.57 mg/kg		7289443 Analysis Time 14:26	Lot-Sample #: H7J050295 - 021 10/17 - 10/19/07 MDL: 0.16	J8DKH1AD
Chromium - Step 6	6.8 Dilution Factor: 1	0.57 mg/kg		7291075 Analysis Time 15:37	Lot-Sample #: H7J050295 - 022 10/18 - 10/19/07 MDL: 0.16	J8DKL1AD
Chromium - Step 7	27.7 Dilution Factor: 1	0.57 mg/kg		7291515 Analysis Time 12:00	Lot-Sample #: H7J050295 - 023 10/19 - 10/22/07 MDL: 0.16	J8DKP1AD
Chromium - Total	52.1 Dilution Factor: 1	0.57 mg/kg		7282067 Analysis Time 17:09	Lot-Sample #: H7J050295 - 024 10/09 - 10/17/07 MDL: 0.16	J8DKT1AD
Sum of Steps 1-7	41.7					

GeoSyntec Consultants
Client Sample ID: OUI-SS-SB313-2-4
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 6010B
Date Received:	10/05/07	% Moisture:	12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Copper - Step 1	ND	4.4	mg/kg	7283063	10/10 - 10/17/07	J8DJ91AE
	Dilution Factor: 3			Analysis Time: 14:55	MDL: 1.2	
					Lot-Sample #: H7J050295 - 017	
Copper - Step 2	ND	13.2	mg/kg	7284046	10/11 - 10/17/07	J8DKA1AE
	Dilution Factor: 9			Analysis Time: 16:02	MDL: 3.6	
					Lot-Sample #: H7J050295 - 018	
Copper - Step 3	ND	4.4	mg/kg	7285046	10/15 - 10/19/07	J8DKE1AE
	Dilution Factor: 3			Analysis Time: 12:12	MDL: 1.2	
					Lot-Sample #: H7J050295 - 019	
Copper - Step 4	1.3 B	1.5	mg/kg	7288126	10/16 - 10/19/07	J8DKG1AE
	Dilution Factor: 1			Analysis Time 13:19	MDL: 0.40	
					Lot-Sample #: H7J050295 - 020	
Copper - Step 5	2.3	1.5	mg/kg	7289443	10/17 - 10/19/07	J8DKH1AE
	Dilution Factor: 1			Analysis Time 14:26	MDL: 0.40	
					Lot-Sample #: H7J050295 - 021	
Copper - Step 6	0.82 B	1.5	mg/kg	7291075	10/18 - 10/19/07	J8DKL1AE
	Dilution Factor: 1			Analysis Time 15:37	MDL: 0.40	
					Lot-Sample #: H7J050295 - 022	
Copper - Step 7	1.5	1.5	mg/kg	7291515	10/19 - 10/22/07	J8DKP1AE
	Dilution Factor: 1			Analysis Time 12:00	MDL: 0.40	
					Lot-Sample #: H7J050295 - 023	
Copper - Total	7.9	1.5	mg/kg	7282067	10/09 - 10/17/07	J8DKT1AE
	Dilution Factor: 1			Analysis Time 17:09	MDL: 0.40	
					Lot-Sample #: H7J050295 - 024	
Sum of Steps 1-7	5.9					

GeoSyntec Consultants
Client Sample ID: OUI-SS-SB313-2-4
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 6010B
Date Received:	10/05/07	% Moisture:	12

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>Prep Batch #</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Lead - Step 1	ND Dilution Factor: 3	1.7	mg/kg	7283063 Analysis Time: 14:55	Lot-Sample #: H7J050295 - 017 10/10 - 10/17/07 MDL: 0.61	J8DJ91AF
Lead - Step 2	ND Dilution Factor: 9	5.1	mg/kg	7284046 Analysis Time: 16:02	Lot-Sample #: H7J050295 - 018 10/11 - 10/17/07 MDL: 1.8	J8DKA1AF
Lead - Step 3	ND Dilution Factor: 3	1.7	mg/kg	7285046 Analysis Time: 12:12	Lot-Sample #: H7J050295 - 019 10/15 - 10/19/07 MDL: 0.61	J8DKE1AF
Lead - Step 4	ND Dilution Factor: 1	0.57	mg/kg	7288126 Analysis Time: 13:19	Lot-Sample #: H7J050295 - 020 10/16 - 10/19/07 MDL: 0.20	J8DKG1AF
Lead - Step 5	2.7 Dilution Factor: 1	0.57	mg/kg	7289443 Analysis Time: 14:26	Lot-Sample #: H7J050295 - 021 10/17 - 10/19/07 MDL: 0.20	J8DKH1AF
Lead - Step 6	0.89 Dilution Factor: 1	0.57	mg/kg	7291075 Analysis Time: 15:37	Lot-Sample #: H7J050295 - 022 10/18 - 10/19/07 MDL: 0.20	J8DKL1AF
Lead - Step 7	0.37 B Dilution Factor: 1	0.57	mg/kg	7291515 Analysis Time: 12:00	Lot-Sample #: H7J050295 - 023 10/19 - 10/22/07 MDL: 0.20	J8DKP1AF
Lead - Total	10.4 Dilution Factor: 1	0.57	mg/kg	7282067 Analysis Time: 17:09	Lot-Sample #: H7J050295 - 024 10/09 - 10/17/07 MDL: 0.20	J8DKT1AF
Sum of Steps 1-7	4.0					

GeoSyntec Consultants
Client Sample ID: OU1-SS-SB313-2-4
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 7470A
Date Received:	10/05/07	% Moisture:	12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Mercury - Step 1	ND	0.011	mg/kg	7295103	10/22 - 10/23/07	J8DJ91AK
	Dilution Factor: 1			Analysis Time: 08:58	MDL: 0.0067	
					Lot-Sample #: H7J050295 - 017	
Mercury - Step 2	ND	0.034	mg/kg	7295104	10/22 - 10/23/07	J8DKA1AK
	Dilution Factor: 3			Analysis Time: 09:18	MDL: 0.019	
					Lot-Sample #: H7J050295 - 018	
Mercury - Step 3	ND	0.011	mg/kg	7295105	10/22 - 10/23/07	J8DKE1AK
	Dilution Factor: 1			Analysis Time: 09:37	MDL: 0.0082	
					Lot-Sample #: H7J050295 - 019	
Mercury - Step 4	ND	0.011	mg/kg	7295107	10/22 - 10/23/07	J8DKG1AK
	Dilution Factor: 1			Analysis Time: 09:57	MDL: 0.0049	
					Lot-Sample #: H7J050295 - 020	
Mercury - Step 5	ND	0.011	mg/kg	7295110	10/22 - 10/23/07	J8DKH1AK
	Dilution Factor: 1			Analysis Time: 10:12	MDL: 0.0053	
					Lot-Sample #: H7J050295 - 021	
Mercury - Step 6	ND	0.011	mg/kg	7295111	10/22 - 10/23/07	J8DKL1AK
	Dilution Factor: 1			Analysis Time: 10:32	MDL: 0.0045	
					Lot-Sample #: H7J050295 - 022	
Mercury - Step 7	ND	0.11	mg/kg	7295113	10/22 - 10/23/07	J8DKP1AK
	Dilution Factor: 1			Analysis Time: 10:52	MDL: 0.045	
					Lot-Sample #: H7J050295 - 023	
Mercury - Total	ND	0.11	mg/kg	7282076	10/11 - 10/16/07	J8DKT1AK
	Dilution Factor: 1			Analysis Time: 10:02	MDL: 0.045	
					Lot-Sample #: H7J050295 - 024	

GeoSyntec Consultants
Client Sample ID: OU1-SS-SB313-2-4
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 6010B
Date Received:	10/05/07	% Moisture:	12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Nickel - Step 1	0.77 B J Dilution Factor: 3	6.8 mg/kg		7283063 Analysis Time 14:55	Lot-Sample #: H7J050295 - 017 10/10 - 10/17/07 MDL: 0.65	J8DJ91AG
Nickel - Step 2	ND Dilution Factor: 9	20.4 mg/kg		7284046 Analysis Time: 16:02	Lot-Sample #: H7J050295 - 018 10/11 - 10/17/07 MDL: 1.9	J8DKA1AG
Nickel - Step 3	ND Dilution Factor: 3	6.8 mg/kg		7285046 Analysis Time: 12:12	Lot-Sample #: H7J050295 - 019 10/15 - 10/19/07 MDL: 0.65	J8DKE1AG
Nickel - Step 4	2.7 Dilution Factor: 1	2.3 mg/kg		7288126 Analysis Time 13:19	Lot-Sample #: H7J050295 - 020 10/16 - 10/19/07 MDL: 0.22	J8DKG1AG
Nickel - Step 5	7.3 Dilution Factor: 1	2.3 mg/kg		7289443 Analysis Time 14:26	Lot-Sample #: H7J050295 - 021 10/17 - 10/19/07 MDL: 0.22	J8DKH1AG
Nickel - Step 6	8.5 Dilution Factor: 1	2.3 mg/kg		7291075 Analysis Time 15:37	Lot-Sample #: H7J050295 - 022 10/18 - 10/19/07 MDL: 0.22	J8DKL1AG
Nickel - Step 7	4.2 Dilution Factor: 1	2.3 mg/kg		7291515 Analysis Time 12:00	Lot-Sample #: H7J050295 - 023 10/19 - 10/22/07 MDL: 0.22	J8DKP1AG
Nickel - Total	40.5 Dilution Factor: 1	2.3 mg/kg		7282067 Analysis Time 17:09	Lot-Sample #: H7J050295 - 024 10/09 - 10/17/07 MDL: 0.22	J8DKT1AG
Sum of Steps 1-7	23.5					

GeoSyntec Consultants
Client Sample ID: OUI-SS-SB313-2-4
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 6010B
Date Received:	10/05/07	% Moisture:	12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Selenium - Step 1	ND Dilution Factor: 3	1.7	mg/kg	7283063 Analysis Time: 14:55	Lot-Sample #: H7J050295 - 017 10/10 - 10/17/07 MDL: 0.71	J8DJ91AH
Selenium - Step 2	ND Dilution Factor: 9	5.1	mg/kg	7284046 Analysis Time: 16:02	Lot-Sample #: H7J050295 - 018 10/11 - 10/17/07 MDL: 2.1	J8DKA1AH
Selenium - Step 3	ND Dilution Factor: 3	1.7	mg/kg	7285046 Analysis Time: 12:12	Lot-Sample #: H7J050295 - 019 10/15 - 10/19/07 MDL: 1.6	J8DKE1AH
Selenium - Step 4	ND Dilution Factor: 1	0.57	mg/kg	7288126 Analysis Time: 13:19	Lot-Sample #: H7J050295 - 020 10/16 - 10/19/07 MDL: 0.24	J8DKG1AH
Selenium - Step 5	0.50 B J Dilution Factor: 1	0.57	mg/kg	7289443 Analysis Time: 14:26	Lot-Sample #: H7J050295 - 021 10/17 - 10/19/07 MDL: 0.24	J8DKH1AH
Selenium - Step 6	ND Dilution Factor: 1	0.57	mg/kg	7291075 Analysis Time: 15:37	Lot-Sample #: H7J050295 - 022 10/18 - 10/19/07 MDL: 0.24	J8DKL1AH
Selenium - Step 7	0.27 B Dilution Factor: 1	0.57	mg/kg	7291515 Analysis Time: 12:00	Lot-Sample #: H7J050295 - 023 10/19 - 10/22/07 MDL: 0.24	J8DKP1AH
Selenium - Total	ND G Dilution Factor: 1	1.7	mg/kg	7282067 Analysis Time: 17:09	Lot-Sample #: H7J050295 - 024 10/09 - 10/17/07 MDL: 0.24	J8DKT1AH
Sum of Steps 1-7	0.77					

GeoSyntec Consultants
Client Sample ID: OUI-SS-SB313-2-4
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 6010B
Date Received:	10/05/07	% Moisture:	12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Zinc - Step 1	ND Dilution Factor: 3	3.4	mg/kg	7283063 Analysis Time: 14:55	Lot-Sample #: H7J050295 - 017 10/10 - 10/17/07 MDL: 0.82	J8DJ91AJ
Zinc - Step 2	6.4 B J Dilution Factor: 9	10.2	mg/kg	7284046 Analysis Time 16:02	Lot-Sample #: H7J050295 - 018 10/11 - 10/17/07 MDL: 2.0	J8DKA1AJ
Zinc - Step 3	0.69 B Dilution Factor: 3	3.4	mg/kg	7285046 Analysis Time 12:12	Lot-Sample #: H7J050295 - 019 10/15 - 10/19/07 MDL: 0.65	J8DKE1AJ
Zinc - Step 4	2.5 Dilution Factor: 1	1.1	mg/kg	7288126 Analysis Time 13:19	Lot-Sample #: H7J050295 - 020 10/16 - 10/19/07 MDL: 0.22	J8DKG1AJ
Zinc - Step 5	8.3 Dilution Factor: 1	1.1	mg/kg	7289443 Analysis Time 14:26	Lot-Sample #: H7J050295 - 021 10/17 - 10/19/07 MDL: 0.22	J8DKH1AJ
Zinc - Step 6	9.3 J Dilution Factor: 1	1.1	mg/kg	7291075 Analysis Time 15:37	Lot-Sample #: H7J050295 - 022 10/18 - 10/19/07 MDL: 0.22	J8DKL1AJ
Zinc - Step 7	12.7 Dilution Factor: 10	11.3	mg/kg	7291515 Analysis Time 12:55	Lot-Sample #: H7J050295 - 023 10/19 - 10/22/07 MDL: 2.2	J8DKP1AJ
Zinc - Total	75.1 Dilution Factor: 10	11.3	mg/kg	7282067 Analysis Time 18:34	Lot-Sample #: H7J050295 - 024 10/09 - 10/17/07 MDL: 2.2	J8DKT1AJ
Sum of Steps 1-7	39.9					

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

- G Elevated reporting limit. The reporting limit is elevated due to matrix interference.
- B Estimated result. Result is less than RL.
- J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

GeoSyntec Consultants
Client Sample ID: OU1-SS-SB316-0-1
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 6010B
Date Received:	10/05/07	% Moisture:	13

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>Prep Batch #</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Arsenic - Step 1	ND Dilution Factor: 3	1.7 mg/kg		7283063 Analysis Time: 14:36	Lot-Sample #: H7J050295 - 001 10/10 - 10/17/07 MDL: 0.58	J8DH01AA
Arsenic - Step 2	ND Dilution Factor: 9	5.2 mg/kg		7284046 Analysis Time: 15:44	Lot-Sample #: H7J050295 - 002 10/11 - 10/17/07 MDL: 1.8	J8DH81AA
Arsenic - Step 3	ND Dilution Factor: 3	1.7 mg/kg		7285046 Analysis Time: 11:53	Lot-Sample #: H7J050295 - 003 10/15 - 10/19/07 MDL: 0.76	J8DJA1AA
Arsenic - Step 4	2.4 Dilution Factor: 1	0.57 mg/kg		7288126 Analysis Time 13:01	Lot-Sample #: H7J050295 - 004 10/16 - 10/19/07 MDL: 0.19	J8DJE1AA
Arsenic - Step 5	6.5 Dilution Factor: 1	0.57 mg/kg		7289443 Analysis Time 14:08	Lot-Sample #: H7J050295 - 005 10/17 - 10/19/07 MDL: 0.19	J8DJG1AA
Arsenic - Step 6	24.4 Dilution Factor: 1	0.57 mg/kg		7291075 Analysis Time 15:19	Lot-Sample #: H7J050295 - 006 10/18 - 10/19/07 MDL: 0.19	J8DJJ1AA
Arsenic - Step 7	6.0 Dilution Factor: 1	0.57 mg/kg		7291515 Analysis Time 11:41	Lot-Sample #: H7J050295 - 007 10/19 - 10/22/07 MDL: 0.19	J8DJL1AA
Arsenic - Total	26.3 Dilution Factor: 1	0.57 mg/kg		7282067 Analysis Time 16:51	Lot-Sample #: H7J050295 - 008 10/09 - 10/17/07 MDL: 0.19	J8DJN1AA
Sum of Steps 1-7	39.3					

GeoSyntec Consultants
Client Sample ID: OU1-SS-SB316-0-1
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 6010B
Date Received:	10/05/07	% Moisture:	13

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
					Lot-Sample #: H7J050295 - 001	
Cadmium - Step 1	1.0	0.86	mg/kg	7283063	10/10 - 10/17/07	J8DH01AC
	Dilution Factor: 3			Analysis Time 14:36	MDL: 0.12	
					Lot-Sample #: H7J050295 - 002	
Cadmium - Step 2	7.7	2.6	mg/kg	7284046	10/11 - 10/17/07	J8DH81AC
	Dilution Factor: 9			Analysis Time 15:44	MDL: 0.35	
					Lot-Sample #: H7J050295 - 003	
Cadmium - Step 3	12.3	0.86	mg/kg	7285046	10/15 - 10/19/07	J8DJA1AC
	Dilution Factor: 3			Analysis Time 11:53	MDL: 0.12	
					Lot-Sample #: H7J050295 - 004	
Cadmium - Step 4	1.8	0.29	mg/kg	7288126	10/16 - 10/19/07	J8DJE1AC
	Dilution Factor: 1			Analysis Time 13:01	MDL: 0.039	
					Lot-Sample #: H7J050295 - 005	
Cadmium - Step 5	12.6	0.29	mg/kg	7289443	10/17 - 10/19/07	J8DJG1AC
	Dilution Factor: 1			Analysis Time 14:08	MDL: 0.039	
					Lot-Sample #: H7J050295 - 006	
Cadmium - Step 6	4.3	0.29	mg/kg	7291075	10/18 - 10/19/07	J8DJJ1AC
	Dilution Factor: 1			Analysis Time 15:19	MDL: 0.039	
					Lot-Sample #: H7J050295 - 007	
Cadmium - Step 7	2.0	0.29	mg/kg	7291515	10/19 - 10/22/07	J8DJL1AC
	Dilution Factor: 1			Analysis Time 11:41	MDL: 0.039	
					Lot-Sample #: H7J050295 - 008	
Cadmium - Total	42.8	0.29	mg/kg	7282067	10/09 - 10/17/07	J8DJN1AC
	Dilution Factor: 1			Analysis Time 16:51	MDL: 0.039	
Sum of Steps 1-7	41.7					

GeoSyntec Consultants
Client Sample ID: OUI-SS-SB316-0-1
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 6010B
Date Received:	10/05/07	% Moisture:	13

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Chromium - Step 1	ND	1.7	mg/kg	7283063	10/10 - 10/17/07	J8DH01AD
	Dilution Factor: 3			Analysis Time: 14:36	MDL: 0.48	
					Lot-Sample #: H7J050295 - 001	
Chromium - Step 2	12.1	5.2	mg/kg	7284046	10/11 - 10/17/07	J8DH81AD
	Dilution Factor: 9			Analysis Time 15:44	MDL: 1.4	
					Lot-Sample #: H7J050295 - 002	
Chromium - Step 3	2.3	1.7	mg/kg	7285046	10/15 - 10/19/07	J8DJA1AD
	Dilution Factor: 3			Analysis Time 11:53	MDL: 0.48	
					Lot-Sample #: H7J050295 - 003	
Chromium - Step 4	1.9	0.57	mg/kg	7288126	10/16 - 10/19/07	J8DJE1AD
	Dilution Factor: 1			Analysis Time 13:01	MDL: 0.16	
					Lot-Sample #: H7J050295 - 004	
Chromium - Step 5	6.8	0.57	mg/kg	7289443	10/17 - 10/19/07	J8DJG1AD
	Dilution Factor: 1			Analysis Time 14:08	MDL: 0.16	
					Lot-Sample #: H7J050295 - 005	
Chromium - Step 6	35.0	0.57	mg/kg	7291075	10/18 - 10/19/07	J8DJJ1AD
	Dilution Factor: 1			Analysis Time 15:19	MDL: 0.16	
					Lot-Sample #: H7J050295 - 006	
Chromium - Step 7	31.1	0.57	mg/kg	7291515	10/19 - 10/22/07	J8DJL1AD
	Dilution Factor: 1			Analysis Time 11:41	MDL: 0.16	
					Lot-Sample #: H7J050295 - 007	
Chromium - Total	48.4	0.57	mg/kg	7282067	10/09 - 10/17/07	J8DJN1AD
	Dilution Factor: 1			Analysis Time 16:51	MDL: 0.16	
					Lot-Sample #: H7J050295 - 008	
Sum of Steps 1-7	89.2					

GeoSyntec Consultants
Client Sample ID: OU1-SS-SB316-0-1
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 6010B
Date Received:	10/05/07	% Moisture:	13

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Copper - Step 1	ND	4.5	mg/kg	7283063	10/10 - 10/17/07	J8DH01AE
	Dilution Factor: 3			Analysis Time: 14:36	MDL: 1.2	
Copper - Step 2	ND	13.4	mg/kg	7284046	10/11 - 10/17/07	J8DH81AE
	Dilution Factor: 9			Analysis Time: 15:44	MDL: 3.6	
Copper - Step 3	18.8	4.5	mg/kg	7285046	10/15 - 10/19/07	J8DJA1AE
	Dilution Factor: 3			Analysis Time: 11:53	MDL: 1.2	
Copper - Step 4	55.8	1.5	mg/kg	7288126	10/16 - 10/19/07	J8DJE1AE
	Dilution Factor: 1			Analysis Time: 13:01	MDL: 0.40	
Copper - Step 5	62.3	1.5	mg/kg	7289443	10/17 - 10/19/07	J8DJG1AE
	Dilution Factor: 1			Analysis Time: 14:08	MDL: 0.40	
Copper - Step 6	54.1	1.5	mg/kg	7291075	10/18 - 10/19/07	J8DJJ1AE
	Dilution Factor: 1			Analysis Time: 15:19	MDL: 0.40	
Copper - Step 7	23.1	1.5	mg/kg	7291515	10/19 - 10/22/07	J8DJL1AE
	Dilution Factor: 1			Analysis Time: 11:41	MDL: 0.40	
Copper - Total	197	1.5	mg/kg	7282067	10/09 - 10/17/07	J8DJN1AE
	Dilution Factor: 1			Analysis Time: 16:51	MDL: 0.40	
Sum of Steps 1-7	214					

GeoSyntec Consultants
Client Sample ID: OUI-SS-SB316-0-1
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 6010B
Date Received:	10/05/07	% Moisture:	13

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Lead - Step 1	ND	1.7	mg/kg	7283063	10/10 - 10/17/07	J8DH01AF
	Dilution Factor: 3			Analysis Time: 14:36	MDL: 0.62	
					Lot-Sample #: H7J050295 - 001	
Lead - Step 2	ND	5.2	mg/kg	7284046	10/11 - 10/17/07	J8DH81AF
	Dilution Factor: 9			Analysis Time: 15:44	MDL: 1.9	
					Lot-Sample #: H7J050295 - 002	
Lead - Step 3	31.4	1.7	mg/kg	7285046	10/15 - 10/19/07	J8DJA1AF
	Dilution Factor: 3			Analysis Time: 11:53	MDL: 0.62	
					Lot-Sample #: H7J050295 - 003	
Lead - Step 4	33.3	0.57	mg/kg	7288126	10/16 - 10/19/07	J8DJE1AF
	Dilution Factor: 1			Analysis Time: 13:01	MDL: 0.21	
					Lot-Sample #: H7J050295 - 004	
Lead - Step 5	1180	0.57	mg/kg	7289443	10/17 - 10/19/07	J8DJG1AF
	Dilution Factor: 1			Analysis Time: 14:08	MDL: 0.21	
					Lot-Sample #: H7J050295 - 005	
Lead - Step 6	344	0.57	mg/kg	7291075	10/18 - 10/19/07	J8DJJ1AF
	Dilution Factor: 1			Analysis Time: 15:19	MDL: 0.21	
					Lot-Sample #: H7J050295 - 006	
Lead - Step 7	63.6	0.57	mg/kg	7291515	10/19 - 10/22/07	J8DJL1AF
	Dilution Factor: 1			Analysis Time: 11:41	MDL: 0.21	
					Lot-Sample #: H7J050295 - 007	
Lead - Total	958	0.57	mg/kg	7282067	10/09 - 10/17/07	J8DJN1AF
	Dilution Factor: 1			Analysis Time: 16:51	MDL: 0.21	
					Lot-Sample #: H7J050295 - 008	
Sum of Steps 1-7	1650					

GeoSyntec Consultants
Client Sample ID: OU1-SS-SB316-0-1
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 7470A
Date Received:	10/05/07	% Moisture:	13

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Mercury - Step 1	ND	0.011	mg/kg	7295103	10/22 - 10/23/07	J8DH01AK
	Dilution Factor: 1			Analysis Time: 08:52	MDL: 0.0068	
					Lot-Sample #: H7J050295 - 001	
Mercury - Step 2	1.3	0.034	mg/kg	7295104	10/22 - 10/23/07	J8DH81AK
	Dilution Factor: 3			Analysis Time 09:12	MDL: 0.020	
					Lot-Sample #: H7J050295 - 002	
Mercury - Step 3	0.016	0.011	mg/kg	7295105	10/22 - 10/23/07	J8DJA1AK
	Dilution Factor: 1			Analysis Time 09:27	MDL: 0.0082	
					Lot-Sample #: H7J050295 - 003	
Mercury - Step 4	ND	0.011	mg/kg	7295107	10/22 - 10/23/07	J8DJE1AK
	Dilution Factor: 1			Analysis Time: 09:47	MDL: 0.0049	
					Lot-Sample #: H7J050295 - 004	
Mercury - Step 5	ND	0.011	mg/kg	7295110	10/22 - 10/23/07	J8DJG1AK
	Dilution Factor: 1			Analysis Time: 10:06	MDL: 0.0054	
					Lot-Sample #: H7J050295 - 005	
Mercury - Step 6	ND	0.011	mg/kg	7295111	10/22 - 10/23/07	J8DJJ1AK
	Dilution Factor: 1			Analysis Time: 10:26	MDL: 0.0046	
					Lot-Sample #: H7J050295 - 006	
Mercury - Step 7	ND	0.11	mg/kg	7295113	10/22 - 10/23/07	J8DJL1AK
	Dilution Factor: 1			Analysis Time: 10:46	MDL: 0.046	
					Lot-Sample #: H7J050295 - 007	
Mercury - Total	0.97	0.11	mg/kg	7282076	10/11 - 10/16/07	J8DJN1AK
	Dilution Factor: 1			Analysis Time 09:51	MDL: 0.046	
					Lot-Sample #: H7J050295 - 008	
Sum of Steps 1-7	1.3					

GeoSyntec Consultants
Client Sample ID: OU1-SS-SB316-0-1
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 6010B
Date Received:	10/05/07	% Moisture:	13

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Nickel - Step 1	0.73 B J Dilution Factor: 3	6.9 mg/kg		7283063 Analysis Time 14:36	Lot-Sample #: H7J050295 - 001 10/10 - 10/17/07 MDL: 0.65	J8DH01AG
Nickel - Step 2	ND Dilution Factor: 9	20.6 mg/kg		7284046 Analysis Time: 15:44	Lot-Sample #: H7J050295 - 002 10/11 - 10/17/07 MDL: 2.0	J8DH81AG
Nickel - Step 3	0.73 B Dilution Factor: 3	6.9 mg/kg		7285046 Analysis Time 11:53	Lot-Sample #: H7J050295 - 003 10/15 - 10/19/07 MDL: 0.65	J8DJA1AG
Nickel - Step 4	9.9 Dilution Factor: 1	2.3 mg/kg		7288126 Analysis Time 13:01	Lot-Sample #: H7J050295 - 004 10/16 - 10/19/07 MDL: 0.22	J8DJE1AG
Nickel - Step 5	15.2 Dilution Factor: 1	2.3 mg/kg		7289443 Analysis Time 14:08	Lot-Sample #: H7J050295 - 005 10/17 - 10/19/07 MDL: 0.22	J8DJG1AG
Nickel - Step 6	20.8 Dilution Factor: 1	2.3 mg/kg		7291075 Analysis Time 15:19	Lot-Sample #: H7J050295 - 006 10/18 - 10/19/07 MDL: 0.22	J8DJJ1AG
Nickel - Step 7	7.4 Dilution Factor: 1	2.3 mg/kg		7291515 Analysis Time 11:41	Lot-Sample #: H7J050295 - 007 10/19 - 10/22/07 MDL: 0.22	J8DJL1AG
Nickel - Total	44.9 Dilution Factor: 1	2.3 mg/kg		7282067 Analysis Time 16:51	Lot-Sample #: H7J050295 - 008 10/09 - 10/17/07 MDL: 0.22	J8DJN1AG
Sum of Steps 1-7	54.8					

GeoSyntec Consultants
Client Sample ID: OUI-SS-SB316-0-1
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 6010B
Date Received:	10/05/07	% Moisture:	13

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Selenium - Step 1	ND Dilution Factor: 3	1.7 mg/kg		7283063 Analysis Time: 14:36	Lot-Sample #: H7J050295 - 001 10/10 - 10/17/07 MDL: 0.72	J8DH01AH
Selenium - Step 2	ND Dilution Factor: 9	5.2 mg/kg		7284046 Analysis Time: 15:44	Lot-Sample #: H7J050295 - 002 10/11 - 10/17/07 MDL: 2.2	J8DH81AH
Selenium - Step 3	ND Dilution Factor: 3	1.7 mg/kg		7285046 Analysis Time: 11:53	Lot-Sample #: H7J050295 - 003 10/15 - 10/19/07 MDL: 1.6	J8DJA1AH
Selenium - Step 4	ND Dilution Factor: 1	0.57 mg/kg		7288126 Analysis Time: 13:01	Lot-Sample #: H7J050295 - 004 10/16 - 10/19/07 MDL: 0.24	J8DJE1AH
Selenium - Step 5	0.58 J Dilution Factor: 1	0.57 mg/kg		7289443 Analysis Time: 14:08	Lot-Sample #: H7J050295 - 005 10/17 - 10/19/07 MDL: 0.24	J8DJG1AH
Selenium - Step 6	ND Dilution Factor: 1	0.57 mg/kg		7291075 Analysis Time: 15:19	Lot-Sample #: H7J050295 - 006 10/18 - 10/19/07 MDL: 0.24	J8DJJ1AH
Selenium - Step 7	0.26 B Dilution Factor: 1	0.57 mg/kg		7291515 Analysis Time: 11:41	Lot-Sample #: H7J050295 - 007 10/19 - 10/22/07 MDL: 0.24	J8DJL1AH
Selenium - Total	1.0 Dilution Factor: 1	0.57 mg/kg		7282067 Analysis Time: 16:51	Lot-Sample #: H7J050295 - 008 10/09 - 10/17/07 MDL: 0.24	J8DJN1AH
Sum of Steps 1-7	0.84					

GeoSyntec Consultants
Client Sample ID: OU1-SS-SB316-0-1
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 6010B
Date Received:	10/05/07	% Moisture:	13

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
					Lot-Sample #: H7J050295 - 001	
Zinc - Step 1	56.6	3.4	mg/kg	7283063	10/10 - 10/17/07	J8DH01AJ
	Dilution Factor: 3			Analysis Time 14:36	MDL: 0.82	
					Lot-Sample #: H7J050295 - 002	
Zinc - Step 2	41.0 J	10.3	mg/kg	7284046	10/11 - 10/17/07	J8DH81AJ
	Dilution Factor: 9			Analysis Time 15:44	MDL: 2.1	
					Lot-Sample #: H7J050295 - 003	
Zinc - Step 3	3520	22.9	mg/kg	7285046	10/15 - 10/19/07	J8DJA1AJ
	Dilution Factor: 20			Analysis Time 16:08	MDL: 4.4	
					Lot-Sample #: H7J050295 - 004	
Zinc - Step 4	5390	57.3	mg/kg	7288126	10/16 - 10/19/07	J8DJE1AJ
	Dilution Factor: 50			Analysis Time 16:28	MDL: 10.9	
					Lot-Sample #: H7J050295 - 005	
Zinc - Step 5	6520	57.3	mg/kg	7289443	10/17 - 10/19/07	J8DJG1AJ
	Dilution Factor: 50			Analysis Time 16:53	MDL: 10.9	
					Lot-Sample #: H7J050295 - 006	
Zinc - Step 6	2450 J	22.9	mg/kg	7291075	10/18 - 10/19/07	J8DJJ1AJ
	Dilution Factor: 20			Analysis Time 17:30	MDL: 4.4	
					Lot-Sample #: H7J050295 - 007	
Zinc - Step 7	942	11.5	mg/kg	7291515	10/19 - 10/22/07	J8DJL1AJ
	Dilution Factor: 10			Analysis Time 12:36	MDL: 2.2	
					Lot-Sample #: H7J050295 - 008	
Zinc - Total	13800	115	mg/kg	7282067	10/09 - 10/17/07	J8DJN1AJ
	Dilution Factor: 100			Analysis Time 18:53	MDL: 21.8	
Sum of Steps 1-7	18900					

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

- B Estimated result. Result is less than RL.
 J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

GeoSyntec Consultants
Client Sample ID: OUI-SS-SB318-2-4
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 6010B
Date Received:	10/05/07	% Moisture:	17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Arsenic - Step 1	ND	1.8 mg/kg		7283063	10/10 - 10/17/07	J8DJQ1AA
	Dilution Factor: 3			Analysis Time: 14:49	MDL: 0.62	
Arsenic - Step 2	ND	5.4 mg/kg		7284046	10/11 - 10/17/07	J8DJW1AA
	Dilution Factor: 9			Analysis Time: 15:56	MDL: 1.8	
Arsenic - Step 3	ND	1.8 mg/kg		7285046	10/15 - 10/19/07	J8DJ01AA
	Dilution Factor: 3			Analysis Time: 12:06	MDL: 0.80	
Arsenic - Step 4	4.1	0.60 mg/kg		7288126	10/16 - 10/19/07	J8DJ11AA
	Dilution Factor: 1			Analysis Time 13:13	MDL: 0.21	
Arsenic - Step 5	3.4	0.60 mg/kg		7289443	10/17 - 10/19/07	J8DJ21AA
	Dilution Factor: 1			Analysis Time 14:20	MDL: 0.21	
Arsenic - Step 6	3.6	0.60 mg/kg		7291075	10/18 - 10/19/07	J8DJ41AA
	Dilution Factor: 1			Analysis Time 15:31	MDL: 0.21	
Arsenic - Step 7	1.8	0.60 mg/kg		7291515	10/19 - 10/22/07	J8DJ51AA
	Dilution Factor: 1			Analysis Time 11:54	MDL: 0.21	
Arsenic - Total	19.0	0.60 mg/kg		7282067	10/09 - 10/17/07	J8DJ71AA
	Dilution Factor: 1			Analysis Time 17:03	MDL: 0.21	
Sum of Steps 1-7	12.9					

GeoSyntec Consultants
Client Sample ID: OU1-SS-SB318-2-4
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 6010B
Date Received:	10/05/07	% Moisture:	17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
					Lot-Sample #: H7J050295 - 009	
Cadmium - Step 1	0.38 B Dilution Factor: 3	0.90 mg/kg		7283063 Analysis Time 14:49	10/10 - 10/17/07 MDL: 0.12	J8DJQ1AC
					Lot-Sample #: H7J050295 - 010	
Cadmium - Step 2	1.9 B Dilution Factor: 9	2.7 mg/kg		7284046 Analysis Time 15:56	10/11 - 10/17/07 MDL: 0.37	J8DJW1AC
					Lot-Sample #: H7J050295 - 011	
Cadmium - Step 3	4.5 Dilution Factor: 3	0.90 mg/kg		7285046 Analysis Time 12:06	10/15 - 10/19/07 MDL: 0.12	J8DJ01AC
					Lot-Sample #: H7J050295 - 012	
Cadmium - Step 4	0.38 Dilution Factor: 1	0.30 mg/kg		7288126 Analysis Time 13:13	10/16 - 10/19/07 MDL: 0.041	J8DJ11AC
					Lot-Sample #: H7J050295 - 013	
Cadmium - Step 5	3.5 Dilution Factor: 1	0.30 mg/kg		7289443 Analysis Time 14:20	10/17 - 10/19/07 MDL: 0.041	J8DJ21AC
					Lot-Sample #: H7J050295 - 014	
Cadmium - Step 6	0.80 Dilution Factor: 1	0.30 mg/kg		7291075 Analysis Time 15:31	10/18 - 10/19/07 MDL: 0.041	J8DJ41AC
					Lot-Sample #: H7J050295 - 015	
Cadmium - Step 7	0.14 B Dilution Factor: 1	0.30 mg/kg		7291515 Analysis Time 11:54	10/19 - 10/22/07 MDL: 0.041	J8DJ51AC
					Lot-Sample #: H7J050295 - 016	
Cadmium - Total	9.4 Dilution Factor: 1	0.30 mg/kg		7282067 Analysis Time 17:03	10/09 - 10/17/07 MDL: 0.041	J8DJ71AC
Sum of Steps 1-7	11.6					

GeoSyntec Consultants
Client Sample ID: OUI-SS-SB318-2-4
Metals

Client Lot #: H7J050295	Matrix: SOLID
Date Sampled: 10/03/07	Method: SW846 6010B
Date Received: 10/05/07	% Moisture: 17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Chromium - Step 1	ND Dilution Factor: 3	1.8 mg/kg		7283063 Analysis Time: 14:49	10/10 - 10/17/07 MDL: 0.51	J8DJQ1AD
Chromium - Step 2	5.4 Dilution Factor: 9	5.4 mg/kg		7284046 Analysis Time 15:56	10/11 - 10/17/07 MDL: 1.5	J8DJVIAD
Chromium - Step 3	ND Dilution Factor: 3	1.8 mg/kg		7285046 Analysis Time: 12:06	10/15 - 10/19/07 MDL: 0.51	J8DJ01AD
Chromium - Step 4	0.55 B Dilution Factor: 1	0.60 mg/kg		7288126 Analysis Time 13:13	10/16 - 10/19/07 MDL: 0.17	J8DJ11AD
Chromium - Step 5	7.4 Dilution Factor: 1	0.60 mg/kg		7289443 Analysis Time 14:20	10/17 - 10/19/07 MDL: 0.17	J8DJ21AD
Chromium - Step 6	15.1 Dilution Factor: 1	0.60 mg/kg		7291075 Analysis Time 15:31	10/18 - 10/19/07 MDL: 0.17	J8DJ41AD
Chromium - Step 7	38.7 Dilution Factor: 1	0.60 mg/kg		7291515 Analysis Time 11:54	10/19 - 10/22/07 MDL: 0.17	J8DJ51AD
Chromium - Total	61.1 Dilution Factor: 1	0.60 mg/kg		7282067 Analysis Time 17:03	10/09 - 10/17/07 MDL: 0.17	J8DJ71AD
Sum of Steps 1-7	67.2					

GeoSyntec Consultants
Client Sample ID: OU1-SS-SB318-2-4
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 6010B
Date Received:	10/05/07	% Moisture:	17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
					Lot-Sample #: H7J050295 - 009	
Copper - Step 1	ND	4.7	mg/kg	7283063	10/10 - 10/17/07	J8DJQ1AE
	Dilution Factor: 3			Analysis Time: 14:49	MDL: 1.3	
					Lot-Sample #: H7J050295 - 010	
Copper - Step 2	ND	14.1	mg/kg	7284046	10/11 - 10/17/07	J8DJW1AE
	Dilution Factor: 9			Analysis Time: 15:56	MDL: 3.8	
					Lot-Sample #: H7J050295 - 011	
Copper - Step 3	4.9	4.7	mg/kg	7285046	10/15 - 10/19/07	J8DJ01AE
	Dilution Factor: 3			Analysis Time: 12:06	MDL: 1.3	
					Lot-Sample #: H7J050295 - 012	
Copper - Step 4	19.2	1.6	mg/kg	7288126	10/16 - 10/19/07	J8DJ11AE
	Dilution Factor: 1			Analysis Time: 13:13	MDL: 0.42	
					Lot-Sample #: H7J050295 - 013	
Copper - Step 5	15.2	1.6	mg/kg	7289443	10/17 - 10/19/07	J8DJ21AE
	Dilution Factor: 1			Analysis Time: 14:20	MDL: 0.42	
					Lot-Sample #: H7J050295 - 014	
Copper - Step 6	5.8	1.6	mg/kg	7291075	10/18 - 10/19/07	J8DJ41AE
	Dilution Factor: 1			Analysis Time: 15:31	MDL: 0.42	
					Lot-Sample #: H7J050295 - 015	
Copper - Step 7	2.7	1.6	mg/kg	7291515	10/19 - 10/22/07	J8DJ51AE
	Dilution Factor: 1			Analysis Time: 11:54	MDL: 0.42	
					Lot-Sample #: H7J050295 - 016	
Copper - Total	54.3	1.6	mg/kg	7282067	10/09 - 10/17/07	J8DJ71AE
	Dilution Factor: 1			Analysis Time: 17:03	MDL: 0.42	
Sum of Steps 1-7	47.8					

GeoSyntec Consultants
Client Sample ID: OUI-SS-SB318-2-4
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 6010B
Date Received:	10/05/07	% Moisture:	17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Lead - Step 1	ND	1.8 mg/kg		7283063	10/10 - 10/17/07	J8DJQ1AF
	Dilution Factor: 3			Analysis Time: 14:49	MDL: 0.65	
					Lot-Sample #: H7J050295 - 009	
Lead - Step 2	ND	5.4 mg/kg		7284046	10/11 - 10/17/07	J8DJW1AF
	Dilution Factor: 9			Analysis Time: 15:56	MDL: 2.0	
					Lot-Sample #: H7J050295 - 010	
Lead - Step 3	3.1	1.8 mg/kg		7285046	10/15 - 10/19/07	J8DJ01AF
	Dilution Factor: 3			Analysis Time: 12:06	MDL: 0.65	
					Lot-Sample #: H7J050295 - 011	
Lead - Step 4	4.3	0.60 mg/kg		7288126	10/16 - 10/19/07	J8DJ11AF
	Dilution Factor: 1			Analysis Time: 13:13	MDL: 0.22	
					Lot-Sample #: H7J050295 - 012	
Lead - Step 5	106	0.60 mg/kg		7289443	10/17 - 10/19/07	J8DJ21AF
	Dilution Factor: 1			Analysis Time: 14:20	MDL: 0.22	
					Lot-Sample #: H7J050295 - 013	
Lead - Step 6	35.5	0.60 mg/kg		7291075	10/18 - 10/19/07	J8DJ41AF
	Dilution Factor: 1			Analysis Time: 15:31	MDL: 0.22	
					Lot-Sample #: H7J050295 - 014	
Lead - Step 7	6.9	0.60 mg/kg		7291515	10/19 - 10/22/07	J8DJ51AF
	Dilution Factor: 1			Analysis Time: 11:54	MDL: 0.22	
					Lot-Sample #: H7J050295 - 015	
Lead - Total	130	0.60 mg/kg		7282067	10/09 - 10/17/07	J8DJ71AF
	Dilution Factor: 1			Analysis Time: 17:03	MDL: 0.22	
					Lot-Sample #: H7J050295 - 016	
Sum of Steps 1-7	156					

GeoSyntec Consultants
Client Sample ID: OU1-SS-SB318-2-4
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 7470A
Date Received:	10/05/07	% Moisture:	17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
					Lot-Sample #: H7J050295 - 009	
Mercury - Step 1	ND	0.012	mg/kg	7295103	10/22 - 10/23/07	J8DJQ1AK
	Dilution Factor: 1			Analysis Time: 08:56	MDL: 0.0071	
					Lot-Sample #: H7J050295 - 010	
Mercury - Step 2	0.15	0.036	mg/kg	7295104	10/22 - 10/23/07	J8DJW1AK
	Dilution Factor: 3			Analysis Time 09:16	MDL: 0.021	
					Lot-Sample #: H7J050295 - 011	
Mercury - Step 3	ND	0.012	mg/kg	7295105	10/22 - 10/23/07	J8DJ01AK
	Dilution Factor: 1			Analysis Time: 09:35	MDL: 0.0087	
					Lot-Sample #: H7J050295 - 012	
Mercury - Step 4	ND	0.012	mg/kg	7295107	10/22 - 10/23/07	J8DJ11AK
	Dilution Factor: 1			Analysis Time: 09:51	MDL: 0.0052	
					Lot-Sample #: H7J050295 - 013	
Mercury - Step 5	ND	0.012	mg/kg	7295110	10/22 - 10/23/07	J8DJ21AK
	Dilution Factor: 1			Analysis Time: 10:10	MDL: 0.0057	
					Lot-Sample #: H7J050295 - 014	
Mercury - Step 6	ND	0.012	mg/kg	7295111	10/22 - 10/23/07	J8DJ41AK
	Dilution Factor: 1			Analysis Time: 10:29	MDL: 0.0048	
					Lot-Sample #: H7J050295 - 015	
Mercury - Step 7	ND	0.12	mg/kg	7295113	10/22 - 10/23/07	J8DJ51AK
	Dilution Factor: 1			Analysis Time: 10:50	MDL: 0.048	
					Lot-Sample #: H7J050295 - 016	
Mercury - Total	0.14	0.12	mg/kg	7282076	10/11 - 10/16/07	J8DJ71AK
	Dilution Factor: 1			Analysis Time 10:00	MDL: 0.048	
Sum of Steps 1-7	0.15					

GeoSyntec Consultants
Client Sample ID: OU1-SS-SB318-2-4
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 6010B
Date Received:	10/05/07	% Moisture:	17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Nickel - Step 1	0.78 B J Dilution Factor: 3	7.2	mg/kg	7283063 Analysis Time 14:49	Lot-Sample #: H7J050295 - 009 10/10 - 10/17/07 MDL: 0.69	J8DJQ1AG
Nickel - Step 2	ND Dilution Factor: 9	21.7	mg/kg	7284046 Analysis Time: 15:56	Lot-Sample #: H7J050295 - 010 10/11 - 10/17/07 MDL: 2.1	J8DJW1AG
Nickel - Step 3	ND Dilution Factor: 3	7.2	mg/kg	7285046 Analysis Time: 12:06	Lot-Sample #: H7J050295 - 011 10/15 - 10/19/07 MDL: 0.69	J8DJ01AG
Nickel - Step 4	6.0 Dilution Factor: 1	2.4	mg/kg	7288126 Analysis Time 13:13	Lot-Sample #: H7J050295 - 012 10/16 - 10/19/07 MDL: 0.23	J8DJ11AG
Nickel - Step 5	18.6 Dilution Factor: 1	2.4	mg/kg	7289443 Analysis Time 14:20	Lot-Sample #: H7J050295 - 013 10/17 - 10/19/07 MDL: 0.23	J8DJ21AG
Nickel - Step 6	17.1 Dilution Factor: 1	2.4	mg/kg	7291075 Analysis Time 15:31	Lot-Sample #: H7J050295 - 014 10/18 - 10/19/07 MDL: 0.23	J8DJ41AG
Nickel - Step 7	8.0 Dilution Factor: 1	2.4	mg/kg	7291515 Analysis Time 11:54	Lot-Sample #: H7J050295 - 015 10/19 - 10/22/07 MDL: 0.23	J8DJ51AG
Nickel - Total	40.0 Dilution Factor: 1	2.4	mg/kg	7282067 Analysis Time 17:03	Lot-Sample #: H7J050295 - 016 10/09 - 10/17/07 MDL: 0.23	J8DJ71AG
Sum of Steps 1-7	50.5					

GeoSyntec Consultants
Client Sample ID: OU1-SS-SB318-2-4
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 6010B
Date Received:	10/05/07	% Moisture:	17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Selenium - Step 1	ND Dilution Factor: 3	1.8 mg/kg		7283063 Analysis Time: 14:49	Lot-Sample #: H7J050295 - 009 10/10 - 10/17/07 MDL: 0.76	J8DJQ1AH
Selenium - Step 2	ND Dilution Factor: 9	5.4 mg/kg		7284046 Analysis Time: 15:56	Lot-Sample #: H7J050295 - 010 10/11 - 10/17/07 MDL: 2.3	J8DJW1AH
Selenium - Step 3	ND Dilution Factor: 3	1.8 mg/kg		7285046 Analysis Time: 12:06	Lot-Sample #: H7J050295 - 011 10/15 - 10/19/07 MDL: 1.7	J8DJ01AH
Selenium - Step 4	ND Dilution Factor: 1	0.60 mg/kg		7288126 Analysis Time: 13:13	Lot-Sample #: H7J050295 - 012 10/16 - 10/19/07 MDL: 0.25	J8DJ11AH
Selenium - Step 5	ND Dilution Factor: 1	0.60 mg/kg		7289443 Analysis Time: 14:20	Lot-Sample #: H7J050295 - 013 10/17 - 10/19/07 MDL: 0.25	J8DJ21AH
Selenium - Step 6	ND Dilution Factor: 1	0.60 mg/kg		7291075 Analysis Time: 15:31	Lot-Sample #: H7J050295 - 014 10/18 - 10/19/07 MDL: 0.25	J8DJ41AH
Selenium - Step 7	0.32 B Dilution Factor: 1	0.60 mg/kg		7291515 Analysis Time: 11:54	Lot-Sample #: H7J050295 - 015 10/19 - 10/22/07 MDL: 0.25	J8DJ51AH
Selenium - Total	ND G Dilution Factor: 1	0.84 mg/kg		7282067 Analysis Time: 17:03	Lot-Sample #: H7J050295 - 016 10/09 - 10/17/07 MDL: 0.25	J8DJ71AH
Sum of Steps 1-7	0.32					

GeoSyntec Consultants
Client Sample ID: OUI-SS-SB318-2-4
Metals

Client Lot #:	H7J050295	Matrix:	SOLID
Date Sampled:	10/03/07	Method:	SW846 6010B
Date Received:	10/05/07	% Moisture:	17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Zinc - Step 1	11.7 Dilution Factor: 3	3.6	mg/kg	7283063 Analysis Time 14:49	Lot-Sample #: H7J050295 - 009 10/10 - 10/17/07 MDL: 0.87	J8DJQ1AJ
Zinc - Step 2	8.7 B J Dilution Factor: 9	10.9	mg/kg	7284046 Analysis Time 15:56	Lot-Sample #: H7J050295 - 010 10/11 - 10/17/07 MDL: 2.2	J8DJW1AJ
Zinc - Step 3	296 Dilution Factor: 3	3.6	mg/kg	7285046 Analysis Time 12:06	Lot-Sample #: H7J050295 - 011 10/15 - 10/19/07 MDL: 0.69	J8DJ01AJ
Zinc - Step 4	1060 Dilution Factor: 10	12.1	mg/kg	7288126 Analysis Time 16:41	Lot-Sample #: H7J050295 - 012 10/16 - 10/19/07 MDL: 2.3	J8DJ11AJ
Zinc - Step 5	1060 Dilution Factor: 10	12.1	mg/kg	7289443 Analysis Time 17:05	Lot-Sample #: H7J050295 - 013 10/17 - 10/19/07 MDL: 2.3	J8DJ21AJ
Zinc - Step 6	216 J Dilution Factor: 1	1.2	mg/kg	7291075 Analysis Time 15:31	Lot-Sample #: H7J050295 - 014 10/18 - 10/19/07 MDL: 0.23	J8DJ41AJ
Zinc - Step 7	73.3 Dilution Factor: 10	12.1	mg/kg	7291515 Analysis Time 12:49	Lot-Sample #: H7J050295 - 015 10/19 - 10/22/07 MDL: 2.3	J8DJ51AJ
Zinc - Total	2480 Dilution Factor: 10	12.1	mg/kg	7282067 Analysis Time 18:24	Lot-Sample #: H7J050295 - 016 10/09 - 10/17/07 MDL: 2.3	J8DJ71AJ
Sum of Steps 1-7	2730					

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

- G Elevated reporting limit. The reporting limit is elevated due to matrix interference.
- B Estimated result. Result is less than RL.
- J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

QC Summary

METHOD BLANK

Metals

Client Lot #: H7J050295
 Matrix: SOLID
 Method: SW846 6010B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
					Lot-Sample #: H7J100000 - 063B	
Arsenic - Step 1	ND	1.5 mg/kg		7283063	10/10 - 10/17/07	J8KNV1AA
	Dilution Factor:	3		Analysis Time: 14:18	MDL: 0.51	
					Lot-Sample #: H7J110000 - 046B	
Arsenic - Step 2	ND	4.5 mg/kg		7284046	10/11 - 10/17/07	J8NGH1AA
	Dilution Factor:	9		Analysis Time: 15:25	MDL: 1.5	
					Lot-Sample #: H7J120000 - 046B	
Arsenic - Step 3	ND	1.5 mg/kg		7285046	10/15 - 10/19/07	J8RNH1AA
	Dilution Factor:	3		Analysis Time: 11:35	MDL: 0.66	
					Lot-Sample #: H7J150000 - 126B	
Arsenic - Step 4	ND	0.50 mg/kg		7288126	10/16 - 10/19/07	J80QP1AA
	Dilution Factor:	1		Analysis Time: 12:42	MDL: 0.17	
					Lot-Sample #: H7J160000 - 443B	
Arsenic - Step 5	ND	0.50 mg/kg		7289443	10/17 - 10/19/07	J83W51AA
	Dilution Factor:	1		Analysis Time: 13:49	MDL: 0.17	
					Lot-Sample #: H7J180000 - 075B	
Arsenic - Step 6	ND	0.50 mg/kg		7291075	10/18 - 10/19/07	J88D31AA
	Dilution Factor:	1		Analysis Time: 14:57	MDL: 0.17	
					Lot-Sample #: H7J180000 - 515B	
Arsenic - Step 7	ND	0.50 mg/kg		7291515	10/19 - 10/22/07	J89P01AA
	Dilution Factor:	1		Analysis Time: 11:23	MDL: 0.17	
					Lot-Sample #: H7J090000 - 067B	
Arsenic - Total	ND	0.50 mg/kg		7282067	10/09 - 10/17/07	J8G4A1AA
	Dilution Factor:	1		Analysis Time: 16:33	MDL: 0.17	

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Metals

Client Lot #: H7J050295
 Matrix: SOLID
 Method: SW846 6010B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Cadmium - Step 1	ND	0.75 mg/kg		7283063	10/10 - 10/17/07	J8KNV1AC
	Dilution Factor:	3		Analysis Time: 14:18	MDL: 0.10	
Cadmium - Step 2	ND	2.2 mg/kg		7284046	10/11 - 10/17/07	J8NGH1AC
	Dilution Factor:	9		Analysis Time: 15:25	MDL: 0.31	
Cadmium - Step 3	ND	0.75 mg/kg		7285046	10/15 - 10/19/07	J8RNH1AC
	Dilution Factor:	3		Analysis Time: 11:35	MDL: 0.10	
Cadmium - Step 4	ND	0.25 mg/kg		7288126	10/16 - 10/19/07	J80QP1AC
	Dilution Factor:	1		Analysis Time: 12:42	MDL: 0.034	
Cadmium - Step 5	ND	0.25 mg/kg		7289443	10/17 - 10/19/07	J83W51AC
	Dilution Factor:	1		Analysis Time: 13:49	MDL: 0.034	
Cadmium - Step 6	ND	0.25 mg/kg		7291075	10/18 - 10/19/07	J88D31AC
	Dilution Factor:	1		Analysis Time: 14:57	MDL: 0.034	
Cadmium - Step 7	ND	0.25 mg/kg		7291515	10/19 - 10/22/07	J89P01AC
	Dilution Factor:	1		Analysis Time: 11:23	MDL: 0.034	
Cadmium - Total	ND	0.25 mg/kg		7282067	10/09 - 10/17/07	J8G4A1AC
	Dilution Factor:	1		Analysis Time: 16:33	MDL: 0.034	

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Metals

Client Lot #: H7J050295
 Matrix: SOLID
 Method: SW846 6010B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Chromium - Step 1	ND	1.5 mg/kg		7283063	10/10 - 10/17/07	J8KNV1AD
	Dilution Factor: 3			Analysis Time: 14:18	MDL: 0.42	
Chromium - Step 2	ND	4.5 mg/kg		7284046	10/11 - 10/17/07	J8NGH1AD
	Dilution Factor: 9			Analysis Time: 15:25	MDL: 1.3	
Chromium - Step 3	ND	1.5 mg/kg		7285046	10/15 - 10/19/07	J8RNH1AD
	Dilution Factor: 3			Analysis Time: 11:35	MDL: 0.42	
Chromium - Step 4	ND	0.50 mg/kg		7288126	10/16 - 10/19/07	J80QP1AD
	Dilution Factor: 1			Analysis Time: 12:42	MDL: 0.14	
Chromium - Step 5	ND	0.50 mg/kg		7289443	10/17 - 10/19/07	J83W51AD
	Dilution Factor: 1			Analysis Time: 13:49	MDL: 0.14	
Chromium - Step 6	ND	0.50 mg/kg		7291075	10/18 - 10/19/07	J88D31AD
	Dilution Factor: 1			Analysis Time: 14:57	MDL: 0.14	
Chromium - Step 7	ND	0.50 mg/kg		7291515	10/19 - 10/22/07	J89P01AD
	Dilution Factor: 1			Analysis Time: 11:23	MDL: 0.14	
Chromium - Total	ND	0.50 mg/kg		7282067	10/09 - 10/17/07	J8G4A1AD
	Dilution Factor: 1			Analysis Time: 16:33	MDL: 0.14	

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Metals

Client Lot #: H7J050295
 Matrix: SOLID
 Method: SW846 6010B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Copper - Step 1	ND	3.9 mg/kg		7283063	10/10 - 10/17/07	J8KNV1AE
	Dilution Factor:	3		Analysis Time: 14:18	MDL: 1.0	
Copper - Step 2	ND	11.7 mg/kg		7284046	10/11 - 10/17/07	J8NGH1AE
	Dilution Factor:	9		Analysis Time: 15:25	MDL: 3.2	
Copper - Step 3	ND	3.9 mg/kg		7285046	10/15 - 10/19/07	J8RNH1AE
	Dilution Factor:	3		Analysis Time: 11:35	MDL: 1.0	
Copper - Step 4	ND	1.3 mg/kg		7288126	10/16 - 10/19/07	J80QP1AE
	Dilution Factor:	1		Analysis Time: 12:42	MDL: 0.35	
Copper - Step 5	ND	1.3 mg/kg		7289443	10/17 - 10/19/07	J83W51AE
	Dilution Factor:	1		Analysis Time: 13:49	MDL: 0.35	
Copper - Step 6	ND	1.3 mg/kg		7291075	10/18 - 10/19/07	J88D31AE
	Dilution Factor:	1		Analysis Time: 14:57	MDL: 0.35	
Copper - Step 7	ND	1.3 mg/kg		7291515	10/19 - 10/22/07	J89P01AE
	Dilution Factor:	1		Analysis Time: 11:23	MDL: 0.35	
Copper - Total	ND	1.3 mg/kg		7282067	10/09 - 10/17/07	J8G4A1AE
	Dilution Factor:	1		Analysis Time: 16:33	MDL: 0.35	

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Metals

Client Lot #: H7J050295
 Matrix: SOLID
 Method: SW846 6010B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Lead - Step 1	ND	1.5 mg/kg		7283063	Lot-Sample #: H7J100000 - 063B 10/10 - 10/17/07	J8KNV1AF
	Dilution Factor:	3		Analysis Time: 14:18	MDL: 0.54	
Lead - Step 2	ND	4.5 mg/kg		7284046	Lot-Sample #: H7J110000 - 046B 10/11 - 10/17/07	J8NGH1AF
	Dilution Factor:	9		Analysis Time: 15:25	MDL: 1.6	
Lead - Step 3	ND	1.5 mg/kg		7285046	Lot-Sample #: H7J120000 - 046B 10/15 - 10/19/07	J8RNH1AF
	Dilution Factor:	3		Analysis Time: 11:35	MDL: 0.54	
Lead - Step 4	ND	0.50 mg/kg		7288126	Lot-Sample #: H7J150000 - 126B 10/16 - 10/19/07	J80QP1AF
	Dilution Factor:	1		Analysis Time: 12:42	MDL: 0.18	
Lead - Step 5	ND	0.50 mg/kg		7289443	Lot-Sample #: H7J160000 - 443B 10/17 - 10/19/07	J83W51AF
	Dilution Factor:	1		Analysis Time: 13:49	MDL: 0.18	
Lead - Step 6	ND	0.50 mg/kg		7291075	Lot-Sample #: H7J180000 - 075B 10/18 - 10/19/07	J88D31AF
	Dilution Factor:	1		Analysis Time: 14:57	MDL: 0.18	
Lead - Step 7	ND	0.50 mg/kg		7291515	Lot-Sample #: H7J180000 - 515B 10/19 - 10/22/07	J89P01AF
	Dilution Factor:	1		Analysis Time: 11:23	MDL: 0.18	
Lead - Total	ND	0.50 mg/kg		7282067	Lot-Sample #: H7J090000 - 067B 10/09 - 10/17/07	J8G4A1AF
	Dilution Factor:	1		Analysis Time: 16:33	MDL: 0.18	

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Metals

Client Lot #: H7J050295
 Matrix: SOLID
 Method: SW846 7470A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Mercury - Step 1	ND	0.010	mg/kg	7295103	10/22 - 10/23/07	J8KNV1AK
	Dilution Factor:	1		Analysis Time: 08:46	MDL: 0.0059	
Mercury - Step 2	ND	0.030	mg/kg	7295104	10/22 - 10/23/07	J8NGH1AK
	Dilution Factor:	3		Analysis Time: 09:02	MDL: 0.017	
Mercury - Step 3	ND	0.010	mg/kg	7295105	10/22 - 10/23/07	J8RNH1AK
	Dilution Factor:	1		Analysis Time: 09:22	MDL: 0.0072	
Mercury - Step 4	ND	0.010	mg/kg	7295107	10/22 - 10/23/07	J80QP1AK
	Dilution Factor:	1		Analysis Time: 09:41	MDL: 0.0043	
Mercury - Step 5	ND	0.010	mg/kg	7295110	10/22 - 10/23/07	J83W51AK
	Dilution Factor:	1		Analysis Time: 10:01	MDL: 0.0047	
Mercury - Step 6	ND	0.10	mg/kg	7295111	10/22 - 10/23/07	J88D31AK
	Dilution Factor:	1		Analysis Time: 10:20	MDL: 0.040	
Mercury - Step 7	ND	0.010	mg/kg	7295113	10/22 - 10/23/07	J89P01AK
	Dilution Factor:	1		Analysis Time: 10:36	MDL: 0.0040	
Mercury - Total	ND	0.10	mg/kg	7282076	10/11 - 10/16/07	J8G4A1AK
	Dilution Factor:	1		Analysis Time: 09:45	MDL: 0.040	

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Metals

Client Lot #: H7J050295
 Matrix: SOLID
 Method: SW846 6010B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
					Lot-Sample #: H7J100000 - 063B	
Nickel - Step 1	1.1 B	6.0 mg/kg		7283063	10/10 - 10/17/07	J8KNV1AG
	Dilution Factor: 3			Analysis Time: 14:18	MDL: 0.57	
					Lot-Sample #: H7J110000 - 046B	
Nickel - Step 2	ND	18.0 mg/kg		7284046	10/11 - 10/17/07	J8NGH1AG
	Dilution Factor: 9			Analysis Time: 15:25	MDL: 1.7	
					Lot-Sample #: H7J120000 - 046B	
Nickel - Step 3	ND	6.0 mg/kg		7285046	10/15 - 10/19/07	J8RNH1AG
	Dilution Factor: 3			Analysis Time: 11:35	MDL: 0.57	
					Lot-Sample #: H7J150000 - 126B	
Nickel - Step 4	ND	2.0 mg/kg		7288126	10/16 - 10/19/07	J80QP1AG
	Dilution Factor: 1			Analysis Time: 12:42	MDL: 0.19	
					Lot-Sample #: H7J160000 - 443B	
Nickel - Step 5	ND	2.0 mg/kg		7289443	10/17 - 10/19/07	J83W51AG
	Dilution Factor: 1			Analysis Time: 13:49	MDL: 0.19	
					Lot-Sample #: H7J180000 - 075B	
Nickel - Step 6	ND	2.0 mg/kg		7291075	10/18 - 10/19/07	J88D31AG
	Dilution Factor: 1			Analysis Time: 14:57	MDL: 0.19	
					Lot-Sample #: H7J180000 - 515B	
Nickel - Step 7	ND	2.0 mg/kg		7291515	10/19 - 10/22/07	J89P01AG
	Dilution Factor: 1			Analysis Time: 11:23	MDL: 0.19	
					Lot-Sample #: H7J090000 - 067B	
Nickel - Total	ND	2.0 mg/kg		7282067	10/09 - 10/17/07	J8G4A1AG
	Dilution Factor: 1			Analysis Time: 16:33	MDL: 0.19	

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Metals

Client Lot #: H7J050295
 Matrix: SOLID
 Method: SW846 6010B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Selenium - Step 1	ND	1.5 mg/kg		7283063	10/10 - 10/17/07	J8KNV1AH
	Dilution Factor: 3			Analysis Time: 14:18	MDL: 0.63	
Selenium - Step 2	ND	4.5 mg/kg		7284046	10/11 - 10/17/07	J8NGH1AH
	Dilution Factor: 9			Analysis Time: 15:25	MDL: 1.9	
Selenium - Step 3	ND	1.5 mg/kg		7285046	10/15 - 10/19/07	J8RNH1AH
	Dilution Factor: 3			Analysis Time: 11:35	MDL: 1.4	
Selenium - Step 4	ND	0.50 mg/kg		7288126	10/16 - 10/19/07	J80QP1AH
	Dilution Factor: 1			Analysis Time: 12:42	MDL: 0.21	
Selenium - Step 5	0.39 B	0.50 mg/kg		7289443	10/17 - 10/19/07	J83W51AH
	Dilution Factor: 1			Analysis Time: 13:49	MDL: 0.21	
Selenium - Step 6	ND	0.50 mg/kg		7291075	10/18 - 10/19/07	J88D31AH
	Dilution Factor: 1			Analysis Time: 14:57	MDL: 0.21	
Selenium - Step 7	ND	0.50 mg/kg		7291515	10/19 - 10/22/07	J89P01AH
	Dilution Factor: 1			Analysis Time: 11:23	MDL: 0.21	
Selenium - Total	ND	0.50 mg/kg		7282067	10/09 - 10/17/07	J8G4A1AH
	Dilution Factor: 1			Analysis Time: 16:33	MDL: 0.21	

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Metals

Client Lot #: H7J050295
 Matrix: SOLID
 Method: SW846 6010B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	Prep Batch #	PREPARATION- ANALYSIS DATE	WORK ORDER #
Zinc - Step 1	ND	3.0 mg/kg		7283063	10/10 - 10/17/07	J8KNVIAJ
	Dilution Factor: 3			Analysis Time: 14:18	MDL: 0.72	
Zinc - Step 2	6.4 B	9.0 mg/kg		7284046	10/11 - 10/17/07	J8NGH1AJ
	Dilution Factor: 9			Analysis Time: 15:25	MDL: 1.8	
Zinc - Step 3	ND	3.0 mg/kg		7285046	10/15 - 10/19/07	J8RNH1AJ
	Dilution Factor: 3			Analysis Time: 11:35	MDL: 0.57	
Zinc - Step 4	ND	1.0 mg/kg		7288126	10/16 - 10/19/07	J80QP1AJ
	Dilution Factor: 1			Analysis Time: 12:42	MDL: 0.19	
Zinc - Step 5	ND	1.0 mg/kg		7289443	10/17 - 10/19/07	J83W51AJ
	Dilution Factor: 1			Analysis Time: 13:49	MDL: 0.19	
Zinc - Step 6	0.28 B	1.0 mg/kg		7291075	10/18 - 10/19/07	J88D31AJ
	Dilution Factor: 1			Analysis Time: 14:57	MDL: 0.19	
Zinc - Step 7	ND	1.0 mg/kg		7291515	10/19 - 10/22/07	J89P01AJ
	Dilution Factor: 1			Analysis Time: 11:23	MDL: 0.19	
Zinc - Total	ND	1.0 mg/kg		7282067	10/09 - 10/17/07	J8G4A1AJ
	Dilution Factor: 1			Analysis Time: 16:33	MDL: 0.19	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

Metals

Client Lot #: H7J050295
 Matrix : SOLID
 Method : SW846 6010B

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	WORK ORDER #
	Prep Batch #: 7283063			LCS Lot-Sample#: H7J100000 - 063				
Arsenic - Step 1	5.00	4.72	mg/kg	94	(75 - 125)			J8KNVIAL-LCS
	5.00	5.13	mg/kg	103	(75 - 125)	8.3	(0 - 30)	J8KNVIAM-LCSD
	Dilution Factor : 5			Prep Date: 10/10/07		Analysis Date : 10/17/07		
	Prep Batch #: 7284046			LCS Lot-Sample#: H7J110000 - 046				
Arsenic - Step 2	15.0	14.2	mg/kg	95	(75 - 125)			J8NGHIAL-LCS
	15.0	14.1	mg/kg	94	(75 - 125)	1.0	(0 - 30)	J8NGHIAM-LCS
	Dilution Factor : 15			Prep Date: 10/11/07		Analysis Date : 10/17/07		
	Prep Batch #: 7285046			LCS Lot-Sample#: H7J120000 - 046				
Arsenic - Step 3	5.00	3.68	N	74	(75 - 125)			J8RNHIAL-LCS
	5.00	4.15	mg/kg	83	(75 - 125)	12	(0 - 30)	J8RNHIAM-LCSD
	Dilution Factor : 5			Prep Date: 10/15/07		Analysis Date : 10/19/07		
	Prep Batch #: 7288126			LCS Lot-Sample#: H7J150000 - 126				
Arsenic - Step 4	5.00	4.89	mg/kg	98	(75 - 125)			J80QP1AL-LCS
	5.00	4.65	mg/kg	93	(75 - 125)	5.2	(0 - 30)	J80QP1AM-LCSD
	Dilution Factor : 1			Prep Date: 10/16/07		Analysis Date : 10/19/07		
	Prep Batch #: 7289443			LCS Lot-Sample#: H7J160000 - 443				
Arsenic - Step 5	5.00	5.17	mg/kg	103	(75 - 125)			J83W51AL-LCS
	5.00	4.96	mg/kg	99	(75 - 125)	4.0	(0 - 30)	J83W51AM-LCSD
	Dilution Factor : 1			Prep Date: 10/17/07		Analysis Date : 10/19/07		
	Prep Batch #: 7291075			LCS Lot-Sample#: H7J180000 - 075				
Arsenic - Step 6	5.00	5.65	mg/kg	113	(75 - 125)			J88D31AL-LCS
	5.00	5.63	mg/kg	113	(75 - 125)	0.42	(0 - 30)	J88D31AM-LCSD
	Dilution Factor : 1			Prep Date: 10/18/07		Analysis Date : 10/19/07		
	Prep Batch #: 7291515			LCS Lot-Sample#: H7J180000 - 515				
Arsenic - Step 7	5.00	4.86	mg/kg	97	(75 - 125)			J89P01AL-LCS
	5.00	4.83	mg/kg	97	(75 - 125)	0.67	(0 - 30)	J89P01AM-LCSD
	Dilution Factor : 1			Prep Date: 10/19/07		Analysis Date : 10/22/07		
	Prep Batch #: 7282067			LCS Lot-Sample#: H7J090000 - 067				
Arsenic - Total	5.00	4.74	mg/kg	95	(75 - 125)			J8G4A1AL-LCS
	5.00	4.78	mg/kg	96	(75 - 125)	0.91	(0 - 30)	J8G4A1AM-LCSD
	Dilution Factor : 1			Prep Date: 10/09/07		Analysis Date : 10/17/07		

LABORATORY CONTROL SAMPLE DATA REPORT

Metals

Client Lot #: H7J050295
 Matrix : SOLID
 Method : SW846 6010B

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	WORK ORDER #
	Prep Batch # : 7283063				LCS Lot-Sample#: H7J100000 - 063			
Cadmium - Step 1	2.50	2.54	mg/kg	101	(75 - 125)			J8KNVIAN-LCS
	2.50	2.58	mg/kg	103	(75 - 125)	1.6	(0 - 30)	J8KNVIAP-LCSD
	Dilution Factor : 5			Prep Date: 10/10/07	Analysis Date : 10/17/07			
	Prep Batch # : 7284046				LCS Lot-Sample#: H7J110000 - 046			
Cadmium - Step 2	7.50	9.39	mg/kg	125	(75 - 125)			J8NGHIAN-LCS
	7.50	9.06	mg/kg	121	(75 - 125)	3.6	(0 - 30)	J8NGHIAP-LCSD
	Dilution Factor : 15			Prep Date: 10/11/07	Analysis Date : 10/17/07			
	Prep Batch # : 7285046				LCS Lot-Sample#: H7J120000 - 046			
Cadmium - Step 3	2.50	2.40	mg/kg	96	(75 - 125)			J8RNHIAN-LCS
	2.50	2.36	mg/kg	94	(75 - 125)	1.7	(0 - 30)	J8RNHIAP-LCSD
	Dilution Factor : 5			Prep Date: 10/15/07	Analysis Date : 10/19/07			
	Prep Batch # : 7288126				LCS Lot-Sample#: H7J150000 - 126			
Cadmium - Step 4	2.50	0.880 N	mg/kg	35	(75 - 125)			J80QPIAN-LCS
	2.50	0.813 N	mg/kg	33	(75 - 125)	7.8	(0 - 30)	J80QPIAP-LCSD
	Dilution Factor : 1			Prep Date: 10/16/07	Analysis Date : 10/19/07			
	Prep Batch # : 7289443				LCS Lot-Sample#: H7J160000 - 443			
Cadmium - Step 5	2.50	2.58	mg/kg	103	(75 - 125)			J83W51AN-LCS
	2.50	2.52	mg/kg	101	(75 - 125)	2.4	(0 - 30)	J83W51AP-LCSD
	Dilution Factor : 1			Prep Date: 10/17/07	Analysis Date : 10/19/07			
	Prep Batch # : 7291075				LCS Lot-Sample#: H7J180000 - 075			
Cadmium - Step 6	2.50	2.85	mg/kg	114	(75 - 125)			J88D31AN-LCS
	2.50	2.84	mg/kg	113	(75 - 125)	0.37	(0 - 30)	J88D31AP-LCSD
	Dilution Factor : 1			Prep Date: 10/18/07	Analysis Date : 10/19/07			
	Prep Batch # : 7291515				LCS Lot-Sample#: H7J180000 - 515			
Cadmium - Step 7	2.50	2.55	mg/kg	102	(75 - 125)			J89P01AN-LCS
	2.50	2.51	mg/kg	100	(75 - 125)	1.5	(0 - 30)	J89P01AP-LCSD
	Dilution Factor : 1			Prep Date: 10/19/07	Analysis Date : 10/22/07			
	Prep Batch # : 7282067				LCS Lot-Sample#: H7J090000 - 067			
Cadmium - Total	2.50	2.42	mg/kg	97	(75 - 125)			J8G4A1AN-LCS
	2.50	2.46	mg/kg	99	(75 - 125)	1.6	(0 - 30)	J8G4A1AP-LCSD
	Dilution Factor : 1			Prep Date: 10/09/07	Analysis Date : 10/17/07			

LABORATORY CONTROL SAMPLE DATA REPORT

Metals

Client Lot #: H7J050295
 Matrix : SOLID
 Method : SW846 6010B

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	WORK ORDER #
	Prep Batch #: 7283063			LCS Lot-Sample#: H7J100000 - 063				
Chromium - Step 1	10.0	9.96	mg/kg	100	(75 - 125)			J8KNV1AQ-LCS
	10.0	10.2	mg/kg	102	(75 - 125)	2.7	(0 - 30)	J8KNVIAR-LCSD
	Dilution Factor : 5			Prep Date: 10/10/07		Analysis Date : 10/17/07		
	Prep Batch #: 7284046			LCS Lot-Sample#: H7J110000 - 046				
Chromium - Step 2	30.0	35.9	mg/kg	120	(75 - 125)			J8NGH1AQ-LCS
	30.0	34.5	mg/kg	115	(75 - 125)	3.8	(0 - 30)	J8NGHIAR-LCSD
	Dilution Factor : 15			Prep Date: 10/11/07		Analysis Date : 10/17/07		
	Prep Batch #: 7285046			LCS Lot-Sample#: H7J120000 - 046				
Chromium - Step 3	10.0	7.91	mg/kg	79	(75 - 125)			J8RNH1AQ-LCS
	10.0	7.78	mg/kg	78	(75 - 125)	1.8	(0 - 30)	J8RNHIAR-LCSD
	Dilution Factor : 5			Prep Date: 10/15/07		Analysis Date : 10/19/07		
	Prep Batch #: 7288126			LCS Lot-Sample#: H7J150000 - 126				
Chromium - Step 4	10.0	9.85	mg/kg	99	(75 - 125)			J80QP1AQ-LCS
	10.0	9.64	mg/kg	96	(75 - 125)	2.1	(0 - 30)	J80QP1AR-LCSD
	Dilution Factor : 1			Prep Date: 10/16/07		Analysis Date : 10/19/07		
	Prep Batch #: 7289443			LCS Lot-Sample#: H7J160000 - 443				
Chromium - Step 5	10.0	10.2	mg/kg	102	(75 - 125)			J83W51AQ-LCS
	10.0	10.0	mg/kg	100	(75 - 125)	2.1	(0 - 30)	J83W51AR-LCSD
	Dilution Factor : 1			Prep Date: 10/17/07		Analysis Date : 10/19/07		
	Prep Batch #: 7291075			LCS Lot-Sample#: H7J180000 - 075				
Chromium - Step 6	10.0	11.1	mg/kg	111	(75 - 125)			J88D31AQ-LCS
	10.0	11.0	mg/kg	110	(75 - 125)	0.75	(0 - 30)	J88D31AR-LCSD
	Dilution Factor : 1			Prep Date: 10/18/07		Analysis Date : 10/19/07		
	Prep Batch #: 7291515			LCS Lot-Sample#: H7J180000 - 515				
Chromium - Step 7	10.0	10.1	mg/kg	101	(75 - 125)			J89P01AQ-LCS
	10.0	10.0	mg/kg	100	(75 - 125)	1.0	(0 - 30)	J89P01AR-LCSD
	Dilution Factor : 1			Prep Date: 10/19/07		Analysis Date : 10/22/07		
	Prep Batch #: 7282067			LCS Lot-Sample#: H7J090000 - 067				
Chromium - Total	10.0	9.84	mg/kg	98	(75 - 125)			J8G4A1AQ-LCS
	10.0	9.88	mg/kg	99	(75 - 125)	0.41	(0 - 30)	J8G4A1AR-LCSD
	Dilution Factor : 1			Prep Date: 10/09/07		Analysis Date : 10/17/07		

LABORATORY CONTROL SAMPLE DATA REPORT

Metals

Client Lot #: H7J050295
 Matrix : SOLID
 Method : SW846 6010B

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	WORK ORDER #
	Prep Batch #: 7283063			LCS Lot-Sample#: H7J100000 - 063				
Copper - Step 1	12.5	11.9	mg/kg	95	(75 - 125)			J8KNVIAT-LCS
	12.5	12.1	mg/kg	97	(75 - 125)	2.4	(0 - 30)	J8KNVIAU-LCSD
	Dilution Factor : 5			Prep Date: 10/10/07		Analysis Date : 10/17/07		
	Prep Batch #: 7284046			LCS Lot-Sample#: H7J110000 - 046				
Copper - Step 2	37.5	35.2	mg/kg	94	(75 - 125)			J8NGHIAT-LCS
	37.5	34.4	mg/kg	92	(75 - 125)	2.3	(0 - 30)	J8NGHIAU-LCSD
	Dilution Factor : 15			Prep Date: 10/11/07		Analysis Date : 10/17/07		
	Prep Batch #: 7285046			LCS Lot-Sample#: H7J120000 - 046				
Copper - Step 3	12.5	11.8	mg/kg	94	(75 - 125)			J8RNHIAT-LCS
	12.5	11.8	mg/kg	94	(75 - 125)	0.080	(0 - 30)	J8RNHIAU-LCSD
	Dilution Factor : 5			Prep Date: 10/15/07		Analysis Date : 10/19/07		
	Prep Batch #: 7288126			LCS Lot-Sample#: H7J150000 - 126				
Copper - Step 4	12.5	11.6	mg/kg	93	(75 - 125)			J80QPIAT-LCS
	12.5	11.5	mg/kg	92	(75 - 125)	1.2	(0 - 30)	J80QPIAU-LCSD
	Dilution Factor : 1			Prep Date: 10/16/07		Analysis Date : 10/19/07		
	Prep Batch #: 7289443			LCS Lot-Sample#: H7J160000 - 443				
Copper - Step 5	12.5	12.7	mg/kg	101	(75 - 125)			J83W51AT-LCS
	12.5	12.4	mg/kg	100	(75 - 125)	1.9	(0 - 30)	J83W51AU-LCSD
	Dilution Factor : 1			Prep Date: 10/17/07		Analysis Date : 10/19/07		
	Prep Batch #: 7291075			LCS Lot-Sample#: H7J180000 - 075				
Copper - Step 6	12.5	13.7	mg/kg	110	(75 - 125)			J88D31AT-LCS
	12.5	13.6	mg/kg	109	(75 - 125)	1.0	(0 - 30)	J88D31AU-LCSD
	Dilution Factor : 1			Prep Date: 10/18/07		Analysis Date : 10/19/07		
	Prep Batch #: 7291515			LCS Lot-Sample#: H7J180000 - 515				
Copper - Step 7	12.5	12.6	mg/kg	100	(75 - 125)			J89P01AT-LCS
	12.5	12.6	mg/kg	101	(75 - 125)	0.15	(0 - 30)	J89P01AU-LCSD
	Dilution Factor : 1			Prep Date: 10/19/07		Analysis Date : 10/22/07		
	Prep Batch #: 7282067			LCS Lot-Sample#: H7J090000 - 067				
Copper - Total	12.5	12.3	mg/kg	99	(75 - 125)			J8G4A1AT-LCS
	12.5	12.4	mg/kg	99	(75 - 125)	0.77	(0 - 30)	J8G4A1AU-LCSD
	Dilution Factor : 1			Prep Date: 10/09/07		Analysis Date : 10/17/07		

LABORATORY CONTROL SAMPLE DATA REPORT

Metals

Client Lot #: H7J050295
 Matrix : SOLID
 Method : SW846 6010B

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	WORK ORDER #
	Prep Batch #: 7283063			LCS Lot-Sample#: H7J100000 - 063				
Lead - Step 1	5.00	4.60	mg/kg	92	(75 - 125)			J8KNV1AV-LCS
	5.00	4.78	mg/kg	96	(75 - 125)	3.9	(0 - 30)	J8KNV1AW-LCSD
	Dilution Factor : 5			Prep Date: 10/10/07		Analysis Date : 10/17/07		
	Prep Batch #: 7284046			LCS Lot-Sample#: H7J110000 - 046				
Lead - Step 2	15.0	5.74 N	mg/kg	38	(75 - 125)			J8NGH1AV-LCS
	15.0	5.80 N	mg/kg	39	(75 - 125)	1.0	(0 - 30)	J8NGH1AW-LCS
	Dilution Factor : 15			Prep Date: 10/11/07		Analysis Date : 10/17/07		
	Prep Batch #: 7285046			LCS Lot-Sample#: H7J120000 - 046				
Lead - Step 3	5.00	4.47	mg/kg	89	(75 - 125)			J8RNH1AV-LCS
	5.00	4.06	mg/kg	81	(75 - 125)	9.6	(0 - 30)	J8RNH1AW-LCS
	Dilution Factor : 5			Prep Date: 10/15/07		Analysis Date : 10/19/07		
	Prep Batch #: 7288126			LCS Lot-Sample#: H7J150000 - 126				
Lead - Step 4	5.00	ND	mg/kg	0.0	(75 - 125)			J80QP1AV-LCS
	5.00	ND	mg/kg	0.0	(75 - 125)	0.0	(0 - 30)	J80QP1AW-LCSD
	Dilution Factor : 1			Prep Date: 10/16/07		Analysis Date : 10/19/07		
	Prep Batch #: 7289443			LCS Lot-Sample#: H7J160000 - 443				
Lead - Step 5	5.00	5.04	mg/kg	101	(75 - 125)			J83W51AV-LCS
	5.00	5.02	mg/kg	100	(75 - 125)	0.36	(0 - 30)	J83W51AW-LCSD
	Dilution Factor : 1			Prep Date: 10/17/07		Analysis Date : 10/19/07		
	Prep Batch #: 7291075			LCS Lot-Sample#: H7J180000 - 075				
Lead - Step 6	5.00	5.66	mg/kg	113	(75 - 125)			J88D31AV-LCS
	5.00	5.56	mg/kg	111	(75 - 125)	1.8	(0 - 30)	J88D31AW-LCSD
	Dilution Factor : 1			Prep Date: 10/18/07		Analysis Date : 10/19/07		
	Prep Batch #: 7291515			LCS Lot-Sample#: H7J180000 - 515				
Lead - Step 7	5.00	5.03	mg/kg	101	(75 - 125)			J89P01AV-LCS
	5.00	4.97	mg/kg	99	(75 - 125)	1.2	(0 - 30)	J89P01AW-LCSD
	Dilution Factor : 1			Prep Date: 10/19/07		Analysis Date : 10/22/07		
	Prep Batch #: 7282067			LCS Lot-Sample#: H7J090000 - 067				
Lead - Total	5.00	4.89	mg/kg	98	(75 - 125)			J8G4A1AV-LCS
	5.00	4.92	mg/kg	98	(75 - 125)	0.67	(0 - 30)	J8G4A1AW-LCSD
	Dilution Factor : 1			Prep Date: 10/09/07		Analysis Date : 10/17/07		

LABORATORY CONTROL SAMPLE DATA REPORT

Metals

Client Lot #: H7J050295
 Matrix : SOLID
 Method : SW846 7470A

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	WORK ORDER #
		Prep Batch # : 7295103				LCS Lot-Sample# : H7J220000 - 103		
Mercury - Step 1	0.250	0.0274 N	mg/kg	11	(75 - 125)			J8KNV1A5-LCS
	0.250	0.0266 N	mg/kg	11	(75 - 125)	3.3	(0 - 20)	J8KNV1A6-LCSD
		Dilution Factor : 1		Prep Date : 10/22/07		Analysis Date : 10/23/07		
		Prep Batch # : 7295104				LCS Lot-Sample# : H7J220000 - 104		
Mercury - Step 2	0.750	0.926	mg/kg	123	(75 - 125)			J8NGH1A5-LCS
	0.750	0.934	mg/kg	125	(75 - 125)	0.96	(0 - 20)	J8NGH1A6-LCSD
		Dilution Factor : 3		Prep Date : 10/22/07		Analysis Date : 10/23/07		
		Prep Batch # : 7295105				LCS Lot-Sample# : H7J220000 - 105		
Mercury - Step 3	0.250	0.0218 N	mg/kg	8.7	(75 - 125)			J8RNH1A5-LCS
	0.250	0.0276 N *	mg/kg	11	(75 - 125)	2.4	(0 - 20)	J8RNH1A6-LCSD
		Dilution Factor : 1		Prep Date : 10/22/07		Analysis Date : 10/23/07		
		Prep Batch # : 7295107				LCS Lot-Sample# : H7J220000 - 107		
Mercury - Step 4	0.250	0.233	mg/kg	93	(75 - 125)			J80QP1A5-LCS
	0.250	0.232	mg/kg	93	(75 - 125)	0.21	(0 - 20)	J80QP1A6-LCSD
		Dilution Factor : 1		Prep Date : 10/22/07		Analysis Date : 10/23/07		
		Prep Batch # : 7295110				LCS Lot-Sample# : H7J220000 - 110		
Mercury - Step 5	0.250	0.222	mg/kg	89	(75 - 125)			J83W51A5-LCS
	0.250	0.210	mg/kg	84	(75 - 125)	5.8	(0 - 20)	J83W51A6-LCSD
		Dilution Factor : 1		Prep Date : 10/22/07		Analysis Date : 10/23/07		
		Prep Batch # : 7295111				LCS Lot-Sample# : H7J220000 - 111		
Mercury - Step 6	0.250	0.318 N	mg/kg	127	(75 - 125)			J88D31A5-LCS
	0.250	0.310	mg/kg	124	(75 - 125)	2.2	(0 - 20)	J88D31A6-LCSD
		Dilution Factor : 1		Prep Date : 10/22/07		Analysis Date : 10/23/07		
		Prep Batch # : 7295113				LCS Lot-Sample# : H7J220000 - 113		
Mercury - Step 7	2.50	2.72	mg/kg	109	(75 - 125)			J89P01A5-LCS
	2.50	2.74	mg/kg	110	(75 - 125)	0.73	(0 - 20)	J89P01A6-LCSD
		Dilution Factor : 1		Prep Date : 10/22/07		Analysis Date : 10/23/07		
		Prep Batch # : 7282076				LCS Lot-Sample# : H7J090000 - 076		
Mercury - Total	2.50	2.58	mg/kg	103	(75 - 125)			J8G4A1A5-LCS
	2.50	2.54	mg/kg	102	(75 - 125)	1.8	(0 - 20)	J8G4A1A6-LCSD
		Dilution Factor : 1		Prep Date : 10/11/07		Analysis Date : 10/16/07		

LABORATORY CONTROL SAMPLE DATA REPORT

Metals

Client Lot #: H7J050295
 Matrix : SOLID
 Method : SW846 6010B

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	WORK ORDER #
	Prep Batch #: 7283063			LCS Lot-Sample#: H7J100000 - 063				
Nickel - Step 1	25.0	26.0	mg/kg	104	(75 - 125)			J8KNV1AX-LCS
	25.0	26.5	mg/kg	106	(75 - 125)	1.7	(0 - 30)	J8KNV1A0-LCSD
	Dilution Factor : 5			Prep Date: 10/10/07		Analysis Date : 10/17/07		
	Prep Batch #: 7284046			LCS Lot-Sample#: H7J110000 - 046				
Nickel - Step 2	75.0	89.1	mg/kg	119	(75 - 125)			J8NGH1AX-LCS
	75.0	87.6	mg/kg	117	(75 - 125)	1.7	(0 - 30)	J8NGH1A0-LCSD
	Dilution Factor : 15			Prep Date: 10/11/07		Analysis Date : 10/17/07		
	Prep Batch #: 7285046			LCS Lot-Sample#: H7J120000 - 046				
Nickel - Step 3	25.0	24.5	mg/kg	98	(75 - 125)			J8RNH1AX-LCS
	25.0	24.4	mg/kg	98	(75 - 125)	0.37	(0 - 30)	J8RNH1A0-LCSD
	Dilution Factor : 5			Prep Date: 10/15/07		Analysis Date : 10/19/07		
	Prep Batch #: 7288126			LCS Lot-Sample#: H7J150000 - 126				
Nickel - Step 4	25.0	21.2	mg/kg	85	(75 - 125)			J80QP1AX-LCS
	25.0	21.1	mg/kg	84	(75 - 125)	0.64	(0 - 30)	J80QP1A0-LCSD
	Dilution Factor : 1			Prep Date: 10/16/07		Analysis Date : 10/19/07		
	Prep Batch #: 7289443			LCS Lot-Sample#: H7J160000 - 443				
Nickel - Step 5	25.0	25.9	mg/kg	103	(75 - 125)			J83W51AX-LCS
	25.0	25.4	mg/kg	102	(75 - 125)	1.7	(0 - 30)	J83W51A0-LCSD
	Dilution Factor : 1			Prep Date: 10/17/07		Analysis Date : 10/19/07		
	Prep Batch #: 7291075			LCS Lot-Sample#: H7J180000 - 075				
Nickel - Step 6	25.0	28.4	mg/kg	114	(75 - 125)			J88D31AX-LCS
	25.0	28.1	mg/kg	112	(75 - 125)	1.2	(0 - 30)	J88D31A0-LCSD
	Dilution Factor : 1			Prep Date: 10/18/07		Analysis Date : 10/19/07		
	Prep Batch #: 7291515			LCS Lot-Sample#: H7J180000 - 515				
Nickel - Step 7	25.0	25.4	mg/kg	102	(75 - 125)			J89P01AX-LCS
	25.0	25.2	mg/kg	101	(75 - 125)	0.87	(0 - 30)	J89P01A0-LCSD
	Dilution Factor : 1			Prep Date: 10/19/07		Analysis Date : 10/22/07		
	Prep Batch #: 7282067			LCS Lot-Sample#: H7J090000 - 067				
Nickel - Total	25.0	24.5	mg/kg	98	(75 - 125)			J8G4A1AX-LCS
	25.0	24.7	mg/kg	99	(75 - 125)	0.70	(0 - 30)	J8G4A1A0-LCSD
	Dilution Factor : 1			Prep Date: 10/09/07		Analysis Date : 10/17/07		

LABORATORY CONTROL SAMPLE DATA REPORT

Metals

Client Lot #: H7J050295
 Matrix : SOLID
 Method : SW846 6010B

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	WORK ORDER #
	Prep Batch # : 7283063				LCS Lot-Sample#: H7J100000 - 063			
Selenium - Step 1	7.50	7.77	mg/kg	104	(75 - 125)			J8KNV1A1-LCS
	7.50	8.16	mg/kg	109	(75 - 125)	4.9	(0 - 30)	J8KNV1A2-LCSD
	Dilution Factor : 5			Prep Date: 10/10/07	Analysis Date : 10/17/07			
	Prep Batch # : 7284046				LCS Lot-Sample#: H7J110000 - 046			
Selenium - Step 2	22.5	28.1	mg/kg	125	(75 - 125)			J8NGH1A1-LCS
	22.5	27.1	mg/kg	120	(75 - 125)	3.6	(0 - 30)	J8NGH1A2-LCSD
	Dilution Factor : 15			Prep Date: 10/11/07	Analysis Date : 10/17/07			
	Prep Batch # : 7285046				LCS Lot-Sample#: H7J120000 - 046			
Selenium - Step 3	7.50	6.47	mg/kg	86	(75 - 125)			J8RNH1A1-LCS
	7.50	6.36	mg/kg	85	(75 - 125)	1.6	(0 - 30)	J8RNH1A2-LCSD
	Dilution Factor : 5			Prep Date: 10/15/07	Analysis Date : 10/19/07			
	Prep Batch # : 7288126				LCS Lot-Sample#: H7J150000 - 126			
Selenium - Step 4	7.50	7.24	mg/kg	97	(75 - 125)			J80QP1A1-LCS
	7.50	7.02	mg/kg	94	(75 - 125)	3.1	(0 - 30)	J80QP1A2-LCSD
	Dilution Factor : 1			Prep Date: 10/16/07	Analysis Date : 10/19/07			
	Prep Batch # : 7289443				LCS Lot-Sample#: H7J160000 - 443			
Selenium - Step 5	7.50	0.350 N	mg/kg	4.7	(75 - 125)			J83W51A1-LCS
	7.50	0.292 N	mg/kg	3.9	(75 - 125)	18	(0 - 30)	J83W51A2-LCSD
	Dilution Factor : 1			Prep Date: 10/17/07	Analysis Date : 10/19/07			
	Prep Batch # : 7291075				LCS Lot-Sample#: H7J180000 - 075			
Selenium - Step 6	7.50	8.84	mg/kg	118	(75 - 125)			J88D31A1-LCS
	7.50	8.77	mg/kg	117	(75 - 125)	0.85	(0 - 30)	J88D31A2-LCSD
	Dilution Factor : 1			Prep Date: 10/18/07	Analysis Date : 10/19/07			
	Prep Batch # : 7291515				LCS Lot-Sample#: H7J180000 - 515			
Selenium - Step 7	7.50	6.99	mg/kg	93	(75 - 125)			J89P01A1-LCS
	7.50	7.01	mg/kg	93	(75 - 125)	0.24	(0 - 30)	J89P01A2-LCSD
	Dilution Factor : 1			Prep Date: 10/19/07	Analysis Date : 10/22/07			
	Prep Batch # : 7282067				LCS Lot-Sample#: H7J090000 - 067			
Selenium - Total	7.50	6.89	mg/kg	92	(75 - 125)			J8G4A1A1-LCS
	7.50	7.05	mg/kg	94	(75 - 125)	2.3	(0 - 30)	J8G4A1A2-LCSD
	Dilution Factor : 1			Prep Date: 10/09/07	Analysis Date : 10/17/07			

LABORATORY CONTROL SAMPLE DATA REPORT

Metals

Client Lot #: H7J050295
 Matrix : SOLID
 Method : SW846 6010B

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	WORK ORDER #
	Prep Batch # : 7283063				LCS Lot-Sample#: H7J100000 - 063			
Zinc - Step 1	25.0	26.8	mg/kg	107	(75 - 125)			J8KNV1A3-LCS
	25.0	27.3	mg/kg	109	(75 - 125)	1.8	(0 - 30)	J8KNV1A4-LCSD
	Dilution Factor : 5			Prep Date: 10/10/07	Analysis Date : 10/17/07			
	Prep Batch # : 7284046				LCS Lot-Sample#: H7J110000 - 046			
Zinc - Step 2	75.0	93.9	mg/kg	125	(75 - 125)			J8NGH1A3-LCS
	75.0	91.8	mg/kg	122	(75 - 125)	2.3	(0 - 30)	J8NGH1A4-LCSD
	Dilution Factor : 15			Prep Date: 10/11/07	Analysis Date : 10/17/07			
	Prep Batch # : 7285046				LCS Lot-Sample#: H7J120000 - 046			
Zinc - Step 3	25.0	25.9	mg/kg	103	(75 - 125)			J8RNH1A3-LCS
	25.0	25.6	mg/kg	102	(75 - 125)	0.99	(0 - 30)	J8RNH1A4-LCSD
	Dilution Factor : 5			Prep Date: 10/15/07	Analysis Date : 10/19/07			
	Prep Batch # : 7288126				LCS Lot-Sample#: H7J150000 - 126			
Zinc - Step 4	25.0	22.8	mg/kg	91	(75 - 125)			J80QP1A3-LCS
	25.0	22.6	mg/kg	90	(75 - 125)	0.96	(0 - 30)	J80QP1A4-LCSD
	Dilution Factor : 1			Prep Date: 10/16/07	Analysis Date : 10/19/07			
	Prep Batch # : 7289443				LCS Lot-Sample#: H7J160000 - 443			
Zinc - Step 5	25.0	26.6	mg/kg	106	(75 - 125)			J83W51A3-LCS
	25.0	26.1	mg/kg	105	(75 - 125)	1.6	(0 - 30)	J83W51A4-LCSD
	Dilution Factor : 1			Prep Date: 10/17/07	Analysis Date : 10/19/07			
	Prep Batch # : 7291075				LCS Lot-Sample#: H7J180000 - 075			
Zinc - Step 6	25.0	29.7	mg/kg	119	(75 - 125)			J88D31A3-LCS
	25.0	29.2	mg/kg	117	(75 - 125)	1.5	(0 - 30)	J88D31A4-LCSD
	Dilution Factor : 1			Prep Date: 10/18/07	Analysis Date : 10/19/07			
	Prep Batch # : 7291515				LCS Lot-Sample#: H7J180000 - 515			
Zinc - Step 7	25.0	26.2	mg/kg	105	(75 - 125)			J89P01A3-LCS
	25.0	26.0	mg/kg	104	(75 - 125)	0.63	(0 - 30)	J89P01A4-LCSD
	Dilution Factor : 1			Prep Date: 10/19/07	Analysis Date : 10/22/07			
	Prep Batch # : 7282067				LCS Lot-Sample#: H7J090000 - 067			
Zinc - Total	25.0	25.3	mg/kg	101	(75 - 125)			J8G4A1A3-LCS
	25.0	25.4	mg/kg	101	(75 - 125)	0.44	(0 - 30)	J8G4A1A4-LCSD
	Dilution Factor : 1			Prep Date: 10/09/07	Analysis Date : 10/17/07			

LABORATORY CONTROL SAMPLE DATA REPORT

Metals

Notes:

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

- * Relative percent difference (RPD) is outside stated control limits.
- N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

Client Sample ID: OUI-SS-SB316-0-1

Metals

Client Lot #: H7J050295
 Date Sampled: 10/03/07
 Date Received: 10/05/07

Matrix: SOLID
 Method: SW846 6010B
 % Moisture: 13

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	WORK ORDER #	PREPARATION- ANALYSIS DATE	QC BATCH #
Arsenic - Step 1	ND	ND	mg/kg	0	(0-30)	J8DH01AA J8DH01AM	10/10 - 10/17/07 10/10 - 10/17/07	7283063
		Dilution Factor: 3 Dilution Factor: 3				Analysis Time: 14:36 Analysis Time: 14:43	SD Lot-Sample #: H7J050295 - 001	
Arsenic - Step 2	ND	ND	mg/kg	0	(0-30)	J8DH81AA J8DH81AM	10/11 - 10/17/07 10/11 - 10/17/07	7284046
		Dilution Factor: 9 Dilution Factor: 9				Analysis Time: 15:44 Analysis Time: 15:50	SD Lot-Sample #: H7J050295 - 002	
Arsenic - Step 3	ND	ND	mg/kg	0	(0-30)	J8DJA1AA J8DJA1AM	10/15 - 10/19/07 10/15 - 10/19/07	7285046
		Dilution Factor: 3 Dilution Factor: 3				Analysis Time: 11:53 Analysis Time: 11:59	SD Lot-Sample #: H7J050295 - 003	
Arsenic - Step 4	2.4	2.8	mg/kg	16	(0-30)	J8DJE1AA J8DJE1AM	10/16 - 10/19/07 10/16 - 10/19/07	7288126
		Dilution Factor: 1 Dilution Factor: 1				Analysis Time: 13:01 Analysis Time: 13:07	SD Lot-Sample #: H7J050295 - 004	
Arsenic - Step 5	6.5	7.5	mg/kg	14	(0-30)	J8DJG1AA J8DJG1AM	10/17 - 10/19/07 10/17 - 10/19/07	7289443
		Dilution Factor: 1 Dilution Factor: 1				Analysis Time: 14:08 Analysis Time: 14:14	SD Lot-Sample #: H7J050295 - 005	
Arsenic - Step 6	24.4	20.7	mg/kg	17	(0-30)	J8DJJ1AA J8DJJ1AM	10/18 - 10/19/07 10/18 - 10/19/07	7291075
		Dilution Factor: 1 Dilution Factor: 1				Analysis Time: 15:19 Analysis Time: 15:25	SD Lot-Sample #: H7J050295 - 006	
Arsenic - Step 7	6.0	5.1	mg/kg	18	(0-30)	J8DJL1AA J8DJL1AM	10/19 - 10/22/07 10/19 - 10/22/07	7291515
		Dilution Factor: 1 Dilution Factor: 1				Analysis Time: 11:41 Analysis Time: 11:48	SD Lot-Sample #: H7J050295 - 007	
Arsenic - Total	26.3	33.5	mg/kg	24	(0-30)	J8DJN1AA J8DJN1AM	10/09 - 10/17/07 10/09 - 10/17/07	7282067
		Dilution Factor: 1 Dilution Factor: 1				Analysis Time: 16:51 Analysis Time: 16:57	SD Lot-Sample #: H7J050295 - 008	

SAMPLE DUPLICATE EVALUATION REPORT

Client Sample ID: OUI-SS-SB316-0-1

Metals

Client Lot #: H7J050295
 Date Sampled: 10/03/07
 Date Received: 10/05/07

Matrix: SOLID
 Method: SW846 6010B
 % Moisture: 13

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	WORK ORDER #	PREPARATION- ANALYSIS DATE	QC BATCH #
Cadmium - Step 1	1.0	1.1	mg/kg	2.1	(0-30)	J8DH01AC	10/10 - 10/17/07	
						J8DH01AN	10/10 - 10/17/07	7283063
		Dilution Factor: 3		Analysis Time: 14:36		SD Lot-Sample #: H7J050295 - 001		
		Dilution Factor: 3		Analysis Time: 14:43				
Cadmium - Step 2	7.7	7.4	mg/kg	4.6	(0-30)	J8DH81AC	10/11 - 10/17/07	
						J8DH81AN	10/11 - 10/17/07	7284046
		Dilution Factor: 9		Analysis Time: 15:44		SD Lot-Sample #: H7J050295 - 002		
		Dilution Factor: 9		Analysis Time: 15:50				
Cadmium - Step 3	12.3	12.4	mg/kg	0.57	(0-30)	J8DJA1AC	10/15 - 10/19/07	
						J8DJA1AN	10/15 - 10/19/07	7285046
		Dilution Factor: 3		Analysis Time: 11:53		SD Lot-Sample #: H7J050295 - 003		
		Dilution Factor: 3		Analysis Time: 11:59				
Cadmium - Step 4	1.8	1.8	mg/kg	0.90	(0-30)	J8DJE1AC	10/16 - 10/19/07	
						J8DJE1AN	10/16 - 10/19/07	7288126
		Dilution Factor: 1		Analysis Time: 13:01		SD Lot-Sample #: H7J050295 - 004		
		Dilution Factor: 1		Analysis Time: 13:07				
Cadmium - Step 5	12.6	13.3	mg/kg	5.2	(0-30)	J8DJG1AC	10/17 - 10/19/07	
						J8DJG1AN	10/17 - 10/19/07	7289443
		Dilution Factor: 1		Analysis Time: 14:08		SD Lot-Sample #: H7J050295 - 005		
		Dilution Factor: 1		Analysis Time: 14:14				
Cadmium - Step 6	4.3	10.1	mg/kg	81	(0-30)	J8DJJ1AC	10/18 - 10/19/07	
						J8DJJ1AN	10/18 - 10/19/07	7291075
		Dilution Factor: 1		Analysis Time: 15:19		SD Lot-Sample #: H7J050295 - 006		
		Dilution Factor: 1		Analysis Time: 15:25				
Cadmium - Step 7	2.0	4.6	mg/kg	80	(0-30)	J8DJL1AC	10/19 - 10/22/07	
						J8DJL1AN	10/19 - 10/22/07	7291515
		Dilution Factor: 1		Analysis Time: 11:41		SD Lot-Sample #: H7J050295 - 007		
		Dilution Factor: 1		Analysis Time: 11:48				
Cadmium - Total	42.8	40.2	mg/kg	6.2	(0-30)	J8DJN1AC	10/09 - 10/17/07	
						J8DJN1AN	10/09 - 10/17/07	7282067
		Dilution Factor: 1		Analysis Time: 16:51		SD Lot-Sample #: H7J050295 - 008		
		Dilution Factor: 1		Analysis Time: 16:57				

SAMPLE DUPLICATE EVALUATION REPORT

Client Sample ID: OU1-SS-SB316-0-1

Metals

Client Lot #: H7J050295
 Date Sampled: 10/03/07
 Date Received: 10/05/07

Matrix: SOLID
 Method: SW846 6010B
 % Moisture: 13

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	WORK ORDER #	PREPARATION- ANALYSIS DATE	QC BATCH #
Chromium - Step 1	ND	ND	mg/kg	0	(0-30)	J8DH01AD J8DH01AP	10/10 - 10/17/07 10/10 - 10/17/07	7283063
		Dilution Factor: 3				Analysis Time: 14:36	SD Lot-Sample #: H7J050295 - 001	
		Dilution Factor: 3				Analysis Time: 14:43		
Chromium - Step 2	12.1	8.3	mg/kg	38	(0-30)	J8DH81AD J8DH81AP	10/11 - 10/17/07 10/11 - 10/17/07	7284046
		Dilution Factor: 9				Analysis Time: 15:44	SD Lot-Sample #: H7J050295 - 002	
		Dilution Factor: 9				Analysis Time: 15:50		
Chromium - Step 3	2.3	ND	mg/kg	200	(0-30)	J8DJA1AD J8DJA1AP	10/15 - 10/19/07 10/15 - 10/19/07	7285046
		Dilution Factor: 3				Analysis Time: 11:53	SD Lot-Sample #: H7J050295 - 003	
		Dilution Factor: 3				Analysis Time: 11:59		
Chromium - Step 4	1.9	1.2	mg/kg	44	(0-30)	J8DJE1AD J8DJE1AP	10/16 - 10/19/07 10/16 - 10/19/07	7288126
		Dilution Factor: 1				Analysis Time: 13:01	SD Lot-Sample #: H7J050295 - 004	
		Dilution Factor: 1				Analysis Time: 13:07		
Chromium - Step 5	6.8	4.6	mg/kg	38	(0-30)	J8DJG1AD J8DJG1AP	10/17 - 10/19/07 10/17 - 10/19/07	7289443
		Dilution Factor: 1				Analysis Time: 14:08	SD Lot-Sample #: H7J050295 - 005	
		Dilution Factor: 1				Analysis Time: 14:14		
Chromium - Step 6	35.0	16.8	mg/kg	70	(0-30)	J8DJJ1AD J8DJJ1AP	10/18 - 10/19/07 10/18 - 10/19/07	7291075
		Dilution Factor: 1				Analysis Time: 15:19	SD Lot-Sample #: H7J050295 - 006	
		Dilution Factor: 1				Analysis Time: 15:25		
Chromium - Step 7	31.1	28.1	mg/kg	10	(0-30)	J8DJL1AD J8DJL1AP	10/19 - 10/22/07 10/19 - 10/22/07	7291515
		Dilution Factor: 1				Analysis Time: 11:41	SD Lot-Sample #: H7J050295 - 007	
		Dilution Factor: 1				Analysis Time: 11:48		
Chromium - Total	48.4	56.7	mg/kg	16	(0-30)	J8DJN1AD J8DJN1AP	10/09 - 10/17/07 10/09 - 10/17/07	7282067
		Dilution Factor: 1				Analysis Time: 16:51	SD Lot-Sample #: H7J050295 - 008	
		Dilution Factor: 1				Analysis Time: 16:57		

SAMPLE DUPLICATE EVALUATION REPORT

Client Sample ID: OUI-SS-SB316-0-1

Metals

Client Lot #: H7J050295
 Date Sampled: 10/03/07
 Date Received: 10/05/07

Matrix: SOLID
 Method: SW846 6010B
 % Moisture: 13

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	WORK ORDER #	PREPARATION- ANALYSIS DATE	QC BATCH #
Copper - Step 1	ND	ND	mg/kg	0	(0-30)	J8DH01AE J8DH01AQ	10/10 - 10/17/07 10/10 - 10/17/07	7283063
		Dilution Factor: 3 Dilution Factor: 3				Analysis Time: 14:36 Analysis Time: 14:43	SD Lot-Sample #: H7J050295 - 001	
Copper - Step 2	ND	ND	mg/kg	0	(0-30)	J8DH81AE J8DH81AQ	10/11 - 10/17/07 10/11 - 10/17/07	7284046
		Dilution Factor: 9 Dilution Factor: 9				Analysis Time: 15:44 Analysis Time: 15:50	SD Lot-Sample #: H7J050295 - 002	
Copper - Step 3	18.8	27.9	mg/kg	39	(0-30)	J8DJA1AE J8DJA1AQ	10/15 - 10/19/07 10/15 - 10/19/07	7285046
		Dilution Factor: 3 Dilution Factor: 3				Analysis Time: 11:53 Analysis Time: 11:59	SD Lot-Sample #: H7J050295 - 003	
Copper - Step 4	55.8	77.0	mg/kg	32	(0-30)	J8DJE1AE J8DJE1AQ	10/16 - 10/19/07 10/16 - 10/19/07	7288126
		Dilution Factor: 1 Dilution Factor: 1				Analysis Time: 13:01 Analysis Time: 13:07	SD Lot-Sample #: H7J050295 - 004	
Copper - Step 5	62.3	66.5	mg/kg	6.5	(0-30)	J8DJG1AE J8DJG1AQ	10/17 - 10/19/07 10/17 - 10/19/07	7289443
		Dilution Factor: 1 Dilution Factor: 1				Analysis Time: 14:08 Analysis Time: 14:14	SD Lot-Sample #: H7J050295 - 005	
Copper - Step 6	54.1	57.5	mg/kg	6.3	(0-30)	J8DJJ1AE J8DJJ1AQ	10/18 - 10/19/07 10/18 - 10/19/07	7291075
		Dilution Factor: 1 Dilution Factor: 1				Analysis Time: 15:19 Analysis Time: 15:25	SD Lot-Sample #: H7J050295 - 006	
Copper - Step 7	23.1	43.3	mg/kg	61	(0-30)	J8DJL1AE J8DJL1AQ	10/19 - 10/22/07 10/19 - 10/22/07	7291515
		Dilution Factor: 1 Dilution Factor: 1				Analysis Time: 11:41 Analysis Time: 11:48	SD Lot-Sample #: H7J050295 - 007	
Copper - Total	197	247	mg/kg	23	(0-30)	J8DJN1AE J8DJN1AQ	10/09 - 10/17/07 10/09 - 10/17/07	7282067
		Dilution Factor: 1 Dilution Factor: 1				Analysis Time: 16:51 Analysis Time: 16:57	SD Lot-Sample #: H7J050295 - 008	

SAMPLE DUPLICATE EVALUATION REPORT

Client Sample ID: OU1-SS-SB316-0-1

Metals

Client Lot #: H7J050295

Date Sampled: 10/03/07

Date Received: 10/05/07

Matrix: SOLID

Method: SW846 6010B

% Moisture: 13

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	WORK ORDER #	PREPARATION- ANALYSIS DATE	QC BATCH #
Lead - Step 1	ND	ND	mg/kg	0	(0-30)	J8DH01AF J8DH01AR	10/10 - 10/17/07 10/10 - 10/17/07	7283063
		Dilution Factor: 3				Analysis Time: 14:36	SD Lot-Sample #: H7J050295 - 001	
		Dilution Factor: 3				Analysis Time: 14:43		
Lead - Step 2	ND	ND	mg/kg	0	(0-30)	J8DH81AF J8DH81AR	10/11 - 10/17/07 10/11 - 10/17/07	7284046
		Dilution Factor: 9				Analysis Time: 15:44	SD Lot-Sample #: H7J050295 - 002	
		Dilution Factor: 9				Analysis Time: 15:50		
Lead - Step 3	31.4	62.2	mg/kg	66	(0-30)	J8DJA1AF J8DJA1AR	10/15 - 10/19/07 10/15 - 10/19/07	7285046
		Dilution Factor: 3				Analysis Time: 11:53	SD Lot-Sample #: H7J050295 - 003	
		Dilution Factor: 3				Analysis Time: 11:59		
Lead - Step 4	33.3	35.0	mg/kg	4.9	(0-30)	J8DJE1AF J8DJE1AR	10/16 - 10/19/07 10/16 - 10/19/07	7288126
		Dilution Factor: 1				Analysis Time: 13:01	SD Lot-Sample #: H7J050295 - 004	
		Dilution Factor: 1				Analysis Time: 13:07		
Lead - Step 5	1180	1150	mg/kg	2.4	(0-30)	J8DJG1AF J8DJG1AR	10/17 - 10/19/07 10/17 - 10/19/07	7289443
		Dilution Factor: 1				Analysis Time: 14:08	SD Lot-Sample #: H7J050295 - 005	
		Dilution Factor: 1				Analysis Time: 14:14		
Lead - Step 6	344	308	mg/kg	11	(0-30)	J8DJJ1AF J8DJJ1AR	10/18 - 10/19/07 10/18 - 10/19/07	7291075
		Dilution Factor: 1				Analysis Time: 15:19	SD Lot-Sample #: H7J050295 - 006	
		Dilution Factor: 1				Analysis Time: 15:25		
Lead - Step 7	63.6	66.0	mg/kg	3.6	(0-30)	J8DJL1AF J8DJL1AR	10/19 - 10/22/07 10/19 - 10/22/07	7291515
		Dilution Factor: 1				Analysis Time: 11:41	SD Lot-Sample #: H7J050295 - 007	
		Dilution Factor: 1				Analysis Time: 11:48		
Lead - Total	958	1200	mg/kg	22	(0-30)	J8DJN1AF J8DJN1AR	10/09 - 10/17/07 10/09 - 10/17/07	7282067
		Dilution Factor: 1				Analysis Time: 16:51	SD Lot-Sample #: H7J050295 - 008	
		Dilution Factor: 1				Analysis Time: 16:57		

SAMPLE DUPLICATE EVALUATION REPORT

Client Sample ID: OUI-SS-SB316-0-1

Metals

Client Lot #: H7J050295
 Date Sampled: 10/03/07
 Date Received: 10/05/07

Matrix: SOLID
 Method: SW846 7470A
 % Moisture: 13

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	WORK ORDER #	PREPARATION- ANALYSIS DATE	QC BATCH #
Mercury - Step 1	ND	ND	mg/kg	0	(0-20)	J8DH01AK J8DH01AW	10/22 - 10/23/07 10/22 - 10/23/07	7295103
		Dilution Factor: 1				Analysis Time: 08:52	SD Lot-Sample #: H7J050295 - 001	
		Dilution Factor: 1				Analysis Time: 08:53		
Mercury - Step 2	1.3	1.2	mg/kg	11	(0-20)	J8DH81AK J8DH81AW	10/22 - 10/23/07 10/22 - 10/23/07	7295104
		Dilution Factor: 3				Analysis Time: 09:12	SD Lot-Sample #: H7J050295 - 002	
		Dilution Factor: 3				Analysis Time: 09:14		
Mercury - Step 3	0.016	0.011	mg/kg	37	(0-20)	J8DJA1AK J8DJA1AW	10/22 - 10/23/07 10/22 - 10/23/07	7295105
		Dilution Factor: 1				Analysis Time: 09:27	SD Lot-Sample #: H7J050295 - 003	
		Dilution Factor: 1				Analysis Time: 09:33		
Mercury - Step 4	ND	ND	mg/kg	0	(0-20)	J8DJE1AK J8DJE1AW	10/22 - 10/23/07 10/22 - 10/23/07	7295107
		Dilution Factor: 1				Analysis Time: 09:47	SD Lot-Sample #: H7J050295 - 004	
		Dilution Factor: 1				Analysis Time: 09:49		
Mercury - Step 5	ND	ND	mg/kg	0	(0-20)	J8DJG1AK J8DJG1AW	10/22 - 10/23/07 10/22 - 10/23/07	7295110
		Dilution Factor: 1				Analysis Time: 10:06	SD Lot-Sample #: H7J050295 - 005	
		Dilution Factor: 1				Analysis Time: 10:08		
Mercury - Step 6	ND	0.0057 B	mg/kg	52	(0-20)	J8DJJ1AK J8DJJ1AW	10/22 - 10/23/07 10/22 - 10/23/07	7295111
		Dilution Factor: 1				Analysis Time: 10:26	SD Lot-Sample #: H7J050295 - 006	
		Dilution Factor: 1				Analysis Time: 10:27		
Mercury - Step 7	ND	ND	mg/kg	0	(0-20)	J8DJL1AK J8DJL1AW	10/22 - 10/23/07 10/22 - 10/23/07	7295113
		Dilution Factor: 1				Analysis Time: 10:46	SD Lot-Sample #: H7J050295 - 007	
		Dilution Factor: 1				Analysis Time: 10:48		
Mercury - Total	0.97	0.90	mg/kg	7.3	(0-20)	J8DJN1AK J8DJN1AW	10/11 - 10/16/07 10/11 - 10/16/07	7282076
		Dilution Factor: 1				Analysis Time: 09:51	SD Lot-Sample #: H7J050295 - 008	
		Dilution Factor: 1				Analysis Time: 09:53		

SAMPLE DUPLICATE EVALUATION REPORT

Client Sample ID: OUI-SS-SB316-0-1

Metals

Client Lot #: H7J050295

Date Sampled: 10/03/07

Date Received: 10/05/07

Matrix: SOLID

Method: SW846 6010B

% Moisture: 13

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	WORK ORDER #	PREPARATION- ANALYSIS DATE	QC BATCH #
Nickel - Step 1	0.73 B J	0.84 B	mg/kg	14	(0-30)	J8DH01AG J8DH01AT	10/10 - 10/17/07 10/10 - 10/17/07	7283063
		Dilution Factor: 3				Analysis Time: 14:36	SD Lot-Sample #: H7J050295 - 001	
		Dilution Factor: 3				Analysis Time: 14:43		
Nickel - Step 2	ND	ND	mg/kg	0	(0-30)	J8DH81AG J8DH81AT	10/11 - 10/17/07 10/11 - 10/17/07	7284046
		Dilution Factor: 9				Analysis Time: 15:44	SD Lot-Sample #: H7J050295 - 002	
		Dilution Factor: 9				Analysis Time: 15:50		
Nickel - Step 3	0.73 B	0.68 B	mg/kg	7.8	(0-30)	J8DJA1AG J8DJA1AT	10/15 - 10/19/07 10/15 - 10/19/07	7285046
		Dilution Factor: 3				Analysis Time: 11:53	SD Lot-Sample #: H7J050295 - 003	
		Dilution Factor: 3				Analysis Time: 11:59		
Nickel - Step 4	9.9	9.4	mg/kg	4.9	(0-30)	J8DJE1AG J8DJE1AT	10/16 - 10/19/07 10/16 - 10/19/07	7288126
		Dilution Factor: 1				Analysis Time: 13:01	SD Lot-Sample #: H7J050295 - 004	
		Dilution Factor: 1				Analysis Time: 13:07		
Nickel - Step 5	15.2	13.1	mg/kg	15	(0-30)	J8DJG1AG J8DJG1AT	10/17 - 10/19/07 10/17 - 10/19/07	7289443
		Dilution Factor: 1				Analysis Time: 14:08	SD Lot-Sample #: H7J050295 - 005	
		Dilution Factor: 1				Analysis Time: 14:14		
Nickel - Step 6	20.8	33.6	mg/kg	47	(0-30)	J8DJI1AG J8DJI1AT	10/18 - 10/19/07 10/18 - 10/19/07	7291075
		Dilution Factor: 1				Analysis Time: 15:19	SD Lot-Sample #: H7J050295 - 006	
		Dilution Factor: 1				Analysis Time: 15:25		
Nickel - Step 7	7.4	12.0	mg/kg	48	(0-30)	J8DJL1AG J8DJL1AT	10/19 - 10/22/07 10/19 - 10/22/07	7291515
		Dilution Factor: 1				Analysis Time: 11:41	SD Lot-Sample #: H7J050295 - 007	
		Dilution Factor: 1				Analysis Time: 11:48		
Nickel - Total	44.9	44.4	mg/kg	0.99	(0-30)	J8DJN1AG J8DJN1AT	10/09 - 10/17/07 10/09 - 10/17/07	7282067
		Dilution Factor: 1				Analysis Time: 16:51	SD Lot-Sample #: H7J050295 - 008	
		Dilution Factor: 1				Analysis Time: 16:57		

SAMPLE DUPLICATE EVALUATION REPORT

Client Sample ID: OUI-SS-SB316-0-1

Metals

Client Lot #: H7J050295
 Date Sampled: 10/03/07
 Date Received: 10/05/07

Matrix: SOLID
 Method: SW846 6010B
 % Moisture: 13

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	WORK ORDER #	PREPARATION- ANALYSIS DATE	QC BATCH #
Selenium - Step 1	ND	ND	mg/kg	0	(0-30)	J8DH01AH J8DH01AU	10/10 - 10/17/07 10/10 - 10/17/07	7283063
		Dilution Factor: 3 Dilution Factor: 3				Analysis Time: 14:36 Analysis Time: 14:43	SD Lot-Sample #: H7J050295 - 001	
Selenium - Step 2	ND	ND	mg/kg	0	(0-30)	J8DH81AH J8DH81AU	10/11 - 10/17/07 10/11 - 10/17/07	7284046
		Dilution Factor: 9 Dilution Factor: 9				Analysis Time: 15:44 Analysis Time: 15:50	SD Lot-Sample #: H7J050295 - 002	
Selenium - Step 3	ND	ND	mg/kg	0	(0-30)	J8DJA1AH J8DJA1AU	10/15 - 10/19/07 10/15 - 10/19/07	7285046
		Dilution Factor: 3 Dilution Factor: 3				Analysis Time: 11:53 Analysis Time: 11:59	SD Lot-Sample #: H7J050295 - 003	
Selenium - Step 4	ND	0.36 B	mg/kg	200	(0-30)	J8DJE1AH J8DJE1AU	10/16 - 10/19/07 10/16 - 10/19/07	7288126
		Dilution Factor: 1 Dilution Factor: 1				Analysis Time: 13:01 Analysis Time: 13:07	SD Lot-Sample #: H7J050295 - 004	
Selenium - Step 5	0.58 J	0.58	mg/kg	0.20	(0-30)	J8DJG1AH J8DJG1AU	10/17 - 10/19/07 10/17 - 10/19/07	7289443
		Dilution Factor: 1 Dilution Factor: 1				Analysis Time: 14:08 Analysis Time: 14:14	SD Lot-Sample #: H7J050295 - 005	
Selenium - Step 6	ND	0.40 B	mg/kg	200	(0-30)	J8DJJ1AH J8DJJ1AU	10/18 - 10/19/07 10/18 - 10/19/07	7291075
		Dilution Factor: 1 Dilution Factor: 1				Analysis Time: 15:19 Analysis Time: 15:25	SD Lot-Sample #: H7J050295 - 006	
Selenium - Step 7	0.26 B	0.70	mg/kg	91	(0-30)	J8DJL1AH J8DJL1AU	10/19 - 10/22/07 10/19 - 10/22/07	7291515
		Dilution Factor: 1 Dilution Factor: 1				Analysis Time: 11:41 Analysis Time: 11:48	SD Lot-Sample #: H7J050295 - 007	
Selenium - Total	1.0	0.96	mg/kg	6.8	(0-30)	J8DJN1AH J8DJN1AU	10/09 - 10/17/07 10/09 - 10/17/07	7282067
		Dilution Factor: 1 Dilution Factor: 1				Analysis Time: 16:51 Analysis Time: 16:57	SD Lot-Sample #: H7J050295 - 008	

SAMPLE DUPLICATE EVALUATION REPORT

Client Sample ID: OU1-SS-SB316-0-1

Metals

Client Lot #: H7J050295
 Date Sampled: 10/03/07
 Date Received: 10/05/07

Matrix: SOLID
 Method: SW846 6010B
 % Moisture: 13

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	WORK ORDER #	PREPARATION- ANALYSIS DATE	QC BATCH #
Zinc - Step 1	56.6	54.9	mg/kg	3.1	(0-30)	J8DH01AJ J8DH01AV	10/10 - 10/17/07 10/10 - 10/17/07	7283063
		Dilution Factor: 3				Analysis Time: 14:36	SD Lot-Sample #: H7J050295 - 001	
		Dilution Factor: 3				Analysis Time: 14:43		
Zinc - Step 2	41.0J	32.7	mg/kg	23	(0-30)	J8DH81AJ J8DH81AV	10/11 - 10/17/07 10/11 - 10/17/07	7284046
		Dilution Factor: 9				Analysis Time: 15:44	SD Lot-Sample #: H7J050295 - 002	
		Dilution Factor: 9				Analysis Time: 15:50		
Zinc - Step 3	3520	3370	mg/kg	4.2	(0-30)	J8DJA1AJ J8DJA1AV	10/15 - 10/19/07 10/15 - 10/19/07	7285046
		Dilution Factor: 20				Analysis Time: 16:08	SD Lot-Sample #: H7J050295 - 003	
		Dilution Factor: 20				Analysis Time: 16:16		
Zinc - Step 4	5390	5520	mg/kg	2.4	(0-30)	J8DJE1AJ J8DJE1AV	10/16 - 10/19/07 10/16 - 10/19/07	7288126
		Dilution Factor: 50				Analysis Time: 16:28	SD Lot-Sample #: H7J050295 - 004	
		Dilution Factor: 50				Analysis Time: 16:34		
Zinc - Step 5	6520	7500	mg/kg	14	(0-30)	J8DJG1AJ J8DJG1AV	10/17 - 10/19/07 10/17 - 10/19/07	7289443
		Dilution Factor: 50				Analysis Time: 16:53	SD Lot-Sample #: H7J050295 - 005	
		Dilution Factor: 50				Analysis Time: 16:59		
Zinc - Step 6	2450J	4030	mg/kg	49	(0-30)	J8DJJ1AJ J8DJJ1AV	10/18 - 10/19/07 10/18 - 10/19/07	7291075
		Dilution Factor: 20				Analysis Time: 17:30	SD Lot-Sample #: H7J050295 - 006	
		Dilution Factor: 20				Analysis Time: 17:36		
Zinc - Step 7	942	2620	mg/kg	94	(0-30)	J8DJL1AJ J8DJL1AV	10/19 - 10/22/07 10/19 - 10/22/07	7291515
		Dilution Factor: 10				Analysis Time: 12:36	SD Lot-Sample #: H7J050295 - 007	
		Dilution Factor: 10				Analysis Time: 12:43		
Zinc - Total	13800	21200	mg/kg	42	(0-30)	J8DJN1AJ J8DJN1AV	10/09 - 10/17/07 10/09 - 10/17/07	7282067
		Dilution Factor: 100				Analysis Time: 18:53	SD Lot-Sample #: H7J050295 - 008	
		Dilution Factor: 100				Analysis Time: 18:59		

SAMPLE DUPLICATE EVALUATION REPORT**Client Sample ID: OUI-SS-SB316-0-1****Metals****NOTE(S):**

Calculations are performed before rounding to avoid round-off errors in calculated results.
Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Quality Control
Results
SuperTrace ICP

ICP Data Reporting Form

Initial Calibration Verification

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t101707.arc

Elem	True Conc	ICV 17-Oct-07 1:35 PM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
		Found	% Rec										
As	250.0	250.55	100.2										
Cd	250.0	260.49	104.2										
Cr	1000.0	1027.27	102.7										
Cu	1000.0	977.55	97.8										
Ni	1000.0	1034.11	103.4										
Pb	250.0	259.62	103.8										
Se	250.0	252.69	101.1										
Zn	1000.0	1052.84	105.3										

ICP Data Reporting Form

Continuing Calibration Verification

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t101707.arc

Elem	True Conc	CCV1 17-Oct-07 2:06 PM		CCV2 17-Oct-07 3:13 PM		CCV3 17-Oct-07 4:20 PM		CCV4 17-Oct-07 5:48 PM		CCV5 17-Oct-07 7:12 PM		Found	% Rec
		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec		
As	500.0	496.02	99.2	495.76	99.2	491.94	98.4	486.28	97.3	491.69	98.3		
Cd	500.0	510.51	102.1	506.10	101.2	499.17	99.8	493.69	98.7	501.00	100.2		
Cr	2000.0	2023.69	101.2	2016.97	100.8	1975.46	98.8	1940.94	97.0	1948.75	97.4		
Cu	2000.0	1935.09	96.8	1939.39	97.0	1945.93	97.3	1938.09	96.9	1936.27	96.8		
Ni	2000.0	2025.01	101.3	2016.57	100.8	1986.91	99.3	1957.91	97.9	1974.67	98.7		
Pb	500.0	510.91	102.2	511.05	102.2	499.12	99.8	495.71	99.1	498.31	99.7		
Se	500.0	501.33	100.3	504.62	100.9	496.10	99.2	494.41	98.9	492.32	98.5		
Zn	2000.0	2039.05	102.0	2030.74	101.5	2002.69	100.1	1978.38	98.9	1980.53	99.0		

ICP Data Reporting Form

Reporting Limit Standard(s)

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t101707.arc

Elem	True Conc	CRDL 17-Oct-07 2:00 PM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
		Found	% Rec										
As	10.0	10.82	108.2										
Cd	5.0	5.70	114.0										
Cr	10.0	10.35	103.5										
Cu	25.0	23.97	95.9										
Ni	40.0	40.87	102.2										
Pb	4.0	4.04	101.0										
Se	5.0	6.50	130.0										
Zn	20.0	21.90	109.5										

ICP Data Reporting Form

Initial Calibration Blank(s)

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t101707.arc

Elem	Acceptance Limit	ICB 17-Oct-07 1:41 PM		Found	Flag	Found	Flag	Found	Flag	Found	Flag	Found	Flag
		Found	Flag										
As	10.0	2.3	U										
Cd	5.0	0.4	U										
Cr	10.0	2.3	U										
Cu	25.0	0.9	U										
Ni	40.0	2.0	U										
Pb	10.0	0.7	B										
Se	10.0	2.4	U										
Zn	20.0	0.3	U										

ICP Data Reporting Form

Continuing Calibration Blank(s)

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t101707.arc

Elem	Acceptance Limit	CCB1 17-Oct-07 2:12 PM		CCB2 17-Oct-07 3:19 PM		CCB3 17-Oct-07 4:26 PM		CCB4 17-Oct-07 5:59 PM		CCB5 17-Oct-07 7:18 PM			
		Found	Flag	Found	Flag	Found	Flag	Found	Flag	Found	Flag	Found	Flag
As	10.0	2.3	U	2.3	U	2.3	U	2.3	U	2.3	U		
Cd	5.0	0.4	U	0.4	U	0.4	U	0.9	B	0.4	U		
Cr	10.0	2.3	U	2.3	U	2.3	U	2.8	B	2.3	U		
Cu	25.0	0.9	U	0.9	U	0.9	U	2.6	B	0.9	U		
Ni	40.0	2.0	U	2.0	U	2.0	U	2.7	B	2.0	U		
Pb	10.0	0.6	U	0.6	U	0.8	B	1.6	B	0.8	B		
Se	10.0	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U		
Zn	20.0	0.3	U	0.4	B	0.3	U	8.8	B	0.9	B		

ICP Data Reporting Form

Interference Check Standard A

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t101707.arc

Elem	True Conc	Reporting Limit	ICSA1 17-Oct-07 1:48 PM				
			Found	Found	Found	Found	Found
Al	500000		472640				
As		10	1				
Ca	500000		453049				
Cd		5	-1				
Cr		10	2				
Cu		25	1				
Fe	200000		197514				
Mg	500000		528177				
Ni		40	3				
Pb		10	2				
Se		10	-5				
Zn		20	9				

ICP Data Reporting Form

Interference Check Standard AB

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t101707.arc

Elem	True Conc	ICSAB1 17-Oct-07 1:54 PM											
		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Al	250000	245139.1	98.1										
As	100	98.5	98.5										
Ca	250000	242026.5	96.8										
Cd	1000	991.8	99.2										
Cr	500	497.0	99.4										
Cu	500	504.3	100.9										
Fe	100000	100304.7	100.3										
Mg	250000	259687.1	103.9										
Ni	1000	996.5	99.7										
Pb	50	49.8	99.5										
Se	50	51.1	102.2										
Zn	1000	1054.1	105.4										

ICP Data Reporting Form

Serial Dilution(s) *Total*

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t101707.arc

Element	J8DJN	J8DJNP	Percent Difference
As	460.06	547.05	18.9 E
Cd	747.49	925.30	23.8 E
Cr	845.44	1079.50	27.7 E
Cu	3437.04	3799.40	10.5 E
Ni	783.79	985.95	25.8 E
Pb	16726.40	20547.95	22.8 E
Se	17.85	40.45 B	126.6

ICP Data Reporting Form

Serial Dilution(s) *Total*

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t101707.arc

Element	J8DJN <i>20</i>	J8DJNP <i>50</i>	Percent Difference
Zn	19845.35	30344.15	52.9 E

ICP Data Reporting Form

Serial Dilution(s) *Step 1*

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t101707.arc

Element	J8DH073	J8DH015	Percent Difference
As	2.30 U	11.50 U	
Cd	6.02	6.60 B	9.6
Cr	2.30 U	11.50 U	
Cu	0.85 U	4.25 U	
Ni	4.27 B	10.00 U	100.0
Pb	0.81 B	3.15 B	288.9
Se	2.40 U	12.00 U	
Zn	329.49	340.90	3.5

ICP Data Reporting Form

Serial Dilution(s) *Step 2*

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t101707.arc

Element	J8DH823	J8DH8P15	Percent Difference
As	2.39 B	11.50 U	100.0
Cd	15.00	15.35 B	2.3
Cr	23.51	26.45 B	12.5
Cu	5.63 B	4.25 U	100.0
Ni	2.00 U	10.00 U	
Pb	1.09 B	3.05 U	100.0
Se	3.13 B	12.00 U	100.0
Zn	79.52	90.65 B	14.0 E

ICP Data Reporting Form

Instrument Detection Limits

Units: ug/L (ppb)

IDL Completion Date: 17-Aug-07

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t101707.arc

Element	Wavelength (nm)	IDL
As	189.04	2.3
Cd	226.50	0.36
Cr	267.71	2.3
Cu	324.75	0.85
Ni	231.60	2.0
Pb	220.35	0.61
Se	196.03	2.4
Zn	213.86	0.34

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ICP Data Reporting Form

Inter-Element Correction Factors

Instrument: TJA 61-E SuperTrace ICP

Date of IEC's: 6/27/2007

Analyte	Correction Factor(s)
Aluminum	V(0.011632)
Antimony	Cr(-0.004141), Fe(0.000034), Ti(-0.003519)
Arsenic	Cr(-0.00199), Fe(-0.000002), Mo(-0.001584)
Beryllium	V(-0.008185)
Cadmium	Fe(0.000032)
Chromium	Fe(-0.000013)
Cobalt	Ti(0.002309)
Iron	Co(0.074397)
Lead	Al(0.000392), Fe(0.000068), Mo(-0.000795)
Lead	Al(-0.000147), Fe(0.000043), Mn(0.000087), Mo(-0.000864), Ti(0.000806)
Manganese	Fe(0.000021)
Phosphorus	Al(0.000151)
Selenium	Co(-0.000416), Fe(-0.000228), Mn(0.000421)
Selenium	Fe(-0.000038), Mn(0.000335)
Silver	Fe(0.000009)
Strontium	Ca(0.000019)
Thallium	Co(0.003284), Fe(-0.000378), Ti(-0.002004)
Vanadium	Fe(-0.000074), Mg(-0.001091)
Zinc	Cu(0.000541), Fe(0.000092), Ni(0.004397)

ICP Data Reporting Form

Linear Dynamic Ranges

Units: ug/L (ppb)

LDR Date: 09-Oct-07

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t101707.arc

Element	Linear Dynamic Range
As	30000.0
Cd	40000.0
Cr	40000.0
Cu	50000.0
Ni	40000.0
Pb	70000.0
Se	30000.0
Zn	10000.0

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Sample ID Nomenclature

The laboratory sample ID consists of 5 alpha-numeric characters followed by a suffix in the 6th position that designates the sample type:

<u>Suffix</u>	<u>Sample Type</u>
B	Method Blank
C	Laboratory Control Sample
L	Laboratory Control Sample Duplicate
S	Matrix Spike
D	Matrix Spike Duplicate
X	Sample Duplicate
P	Serial Dilution
A	Post Digestion Spike
Z#	Dilution; # = Dilution Factor

ICP Data Reporting Form

Initial Calibration Verification

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t101907.arc

Elem	True Conc	ICV 19-Oct-07 10:52 AM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
		Found	% Rec										
As	250.0	249.44	99.8										
Cd	250.0	256.04	102.4										
Cr	1000.0	1021.86	102.2										
Cu	1000.0	1016.43	101.6										
Ni	1000.0	1031.84	103.2										
Pb	250.0	256.68	102.7										
Se	250.0	251.51	100.6										
Zn	1000.0	1062.32	106.2										

ICP Data Reporting Form

Continuing Calibration Verification

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t101907.arc

Elem	True Conc	CCV1 19-Oct-07 11:23 AM		CCV2 19-Oct-07 12:30 PM		CCV3 19-Oct-07 1:37 PM		CCV4 19-Oct-07 2:44 PM		CCV5 19-Oct-07 3:56 PM		CCV6 19-Oct-07 5:11 PM	
		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
As	500.0	494.99	99.0	498.42	99.7	493.26	98.7	496.07	99.2	497.33	99.5	497.62	99.5
Cd	500.0	502.37	100.5	502.15	100.4	500.34	100.1	497.57	99.5	506.24	101.2	505.78	101.2
Cr	2000.0	1994.53	99.7	1984.34	99.2	1959.19	98.0	1963.06	98.2	1982.04	99.1	1976.19	98.8
Cu	2000.0	1971.83	98.6	1985.67	99.3	1969.55	98.5	1949.28	97.5	1969.18	98.5	1965.12	98.3
Ni	2000.0	2010.60	100.5	1999.61	100.0	1994.12	99.7	2001.46	100.1	2023.39	101.2	2020.78	101.0
Pb	500.0	497.91	99.6	496.88	99.4	495.17	99.0	496.72	99.3	500.20	100.0	499.91	100.0
Se	500.0	493.96	98.8	498.74	99.7	493.56	98.7	493.08	98.6	497.60	99.5	490.01	98.0
Zn	2000.0	2035.76	101.8	2024.65	101.2	2003.93	100.2	1999.32	100.0	2016.63	100.8	2019.52	101.0

ICP Data Reporting Form

Continuing Calibration Verification

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t101907.arc

Elem	True Conc	CCV7 19-Oct-07 5:48 PM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
		Found	% Rec										
As	500.0	498.40	99.7										
Cd	500.0	507.71	101.5										
Cr	2000.0	1984.62	99.2										
Cu	2000.0	1973.74	98.7										
Ni	2000.0	2027.10	101.4										
Pb	500.0	502.32	100.5										
Se	500.0	491.57	98.3										
Zn	2000.0	2029.72	101.5										

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ICP Data Reporting Form

Reporting Limit Standard(s)

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t101907.arc

Elem	True Conc	CRDL 19-Oct-07 11:17 AM											
		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
As	10.0	8.66	86.6										
Cd	5.0	4.99	99.8										
Cr	10.0	9.87	98.7										
Cu	25.0	25.21	100.8										
Ni	40.0	40.81	102.0										
Pb	4.0	3.51	87.8										
Se	5.0	5.55	111.0										
Zn	20.0	22.00	110.0										

ICP Data Reporting Form

Initial Calibration Blank(s)

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t101907.arc

Elem	Acceptance Limit	ICB 19-Oct-07 10:58 AM											
		Found	Flag	Found	Flag	Found	Flag	Found	Flag	Found	Flag	Found	Flag
As	10.0	2.3	U										
Cd	5.0	0.4	U										
Cr	10.0	2.3	U										
Cu	25.0	0.9	U										
Ni	40.0	2.0	U										
Pb	10.0	0.6	U										
Se	10.0	2.4	U										
Zn	20.0	0.3	U										

ICP Data Reporting Form

Continuing Calibration Blank(s)

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t101907.arc

Elem	Acceptance Limit	CCB1 19-Oct-07 11:29 AM		CCB2 19-Oct-07 12:36 PM		CCB3 19-Oct-07 1:43 PM		CCB4 19-Oct-07 2:51 PM		CCB5 19-Oct-07 4:02 PM		CCB6 19-Oct-07 5:17 PM	
		Found	Flag	Found	Flag	Found	Flag	Found	Flag	Found	Flag	Found	Flag
As	10.0	2.3	U	2.3	U	2.3	U	2.3	U	2.3	U	2.3	U
Cd	5.0	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
Cr	10.0	2.3	U	2.3	U	2.3	U	2.3	U	2.3	U	2.3	U
Cu	25.0	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U	1.0	B
Ni	40.0	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Pb	10.0	-0.8	B	-2.0	B	-2.6	B	-2.3	B	-3.0	B	-2.5	B
Se	10.0	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U
Zn	20.0	0.3	U	0.3	U	0.3	U	0.4	B	0.7	B	0.3	U

ICP Data Reporting Form

Continuing Calibration Blank(s)

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t101907.arc

Elem	Acceptance Limit	CCB7 19-Oct-07 5:54 PM											
		Found	Flag	Found	Flag	Found	Flag	Found	Flag	Found	Flag	Found	Flag
As	10.0	2.3	U										
Cd	5.0	0.4	U										
Cr	10.0	2.3	U										
Cu	25.0	1.9	B										
Ni	40.0	2.0	U										
Pb	10.0	-3.0	B										
Se	10.0	2.4	U										
Zn	20.0	0.8	B										

ICP Data Reporting Form

Interference Check Standard A

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t101907.arc

Elem	True Conc	Reporting Limit	ICSA1 19-Oct-07 11:04 AM				
			Found	Found	Found	Found	Found
Al	500000		480666				
As		10	0				
Ca	500000		443347				
Cd		5	-2				
Cr		10	2				
Cu		25	2				
Fe	200000		195367				
Mg	500000		523845				
Ni		40	2				
Pb		10	-1				
Se		10	-6				
Zn		20	8				

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ICP Data Reporting Form

Interference Check Standard AB

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t101907.arc

Elem	True Conc	ICSAB1 19-Oct-07 11:11 AM											
		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Al	250000	250775.3	100.3										
As	100	98.5	98.5										
Ca	250000	238840.1	95.5										
Cd	1000	974.4	97.4										
Cr	500	490.7	98.1										
Cu	500	516.7	103.3										
Fe	100000	99114.8	99.1										
Mg	250000	257360.8	102.9										
Ni	1000	990.7	99.1										
Pb	50	47.5	95.0										
Se	50	50.4	100.9										
Zn	1000	1056.8	105.7										

ICP Data Reporting Form

Serial Dilution(s) *Step 3*

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t101907.arc

Element	J8DJA7.3	J8DJAP15	Percent Difference
As	2.30 U	11.50 U	
Cd	71.47	71.15	0.4
Cr	13.23	14.15 B	7.0
Cu	109.27	108.40 B	0.8
Ni	4.27 B	10.00 U	100.0
Pb	182.84	179.05	2.1
Se	2.40 U	12.00 U	

ICP Data Reporting Form

Serial Dilution(s) *Step 3*

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t101907.arc

Element	J8DJA 2.20	J8DJAP\00	Percent Difference
Zn	3069.14	3191.60	4.0

ICP Data Reporting Form

Serial Dilution(s) *Step 4*

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t101907.arc

Element	J8DJE	J8DJEP	Percent Difference
As	41.26	39.90 B	3.3
Cd	30.83	30.10	2.4
Cr	33.67	34.05 B	1.1
Cu	974.69	996.95	2.3
Ni	172.17	175.55 B	2.0
Pb	582.01	573.30	1.5
Se	3.55 B	12.00 U	100.0

ICP Data Reporting Form

Serial Dilution(s) *Step 4*

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t101907.arc

Element	<i>J8DJE 250</i>	<i>J8DJEP 250</i>	Percent Difference
Zn	1880.65	1935.25	2.9

ICP Data Reporting Form

Serial Dilution(s) *Step 5*

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t101907.arc

Element	J8DJG	J8DJGP	Percent Difference
As	114.31	110.35	3.5
Cd	220.59	226.05	2.5
Cr	117.92	121.20	2.8
Cu	1088.17	1095.70	0.7
Ni	265.58	276.80	4.2
Pb	20569.97	21260.90	3.4
Se	10.17	12.00U	100.0

ICP Data Reporting Form

Serial Dilution(s) *Step 5*

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t101907.arc

Element	J8DJG <i>250</i>	J8DJGP <i>250</i>	Percent Difference
Zn	2275.74	2253.55	1.0

ICP Data Reporting Form

Serial Dilution(s) *Step 6*

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t101907.arc

Element	J8DJJ	J8DJJP	Percent Difference
As	426.34	442.25	3.7
Cd	74.82	79.25	5.9
Cr	610.54	664.40	8.8
Cu	943.75	979.60	3.8
Ni	363.62	395.40	8.7
Pb	6002.67	6506.70	8.4
Se	2.40 U	12.00 U	

ICP Data Reporting Form

Serial Dilution(s) *Step 6*

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t101907.arc

Element	J8DJJZ20	J8DJJP00	Percent Difference
Zn	2142.21	2258.55	5.4

ICP Data Reporting Form

Instrument Detection Limits

Units: ug/L (ppb)

IDL Completion Date: 17-Aug-07

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t101907.arc

Element	Wavelength (nm)	IDL
As	189.04	2.3
Cd	226.50	0.36
Cr	267.71	2.3
Cu	324.75	0.85
Ni	231.60	2.0
Pb	220.35	0.61
Se	196.03	2.4
Zn	213.86	0.34

TestAmerica Knoxville
ICP Data Reporting Form

Inter-Element Correction Factors

Instrument: TJA 61-E SuperTrace ICP

Date of IEC's: 6/27/2007

Analyte	Correction Factor(s)
Aluminum	V(0.011632)
Antimony	Cr(-0.004141), Fe(0.000034), Ti(-0.003519)
Arsenic	Cr(-0.00199), Fe(-0.000002), Mo(-0.001584)
Beryllium	V(-0.008185)
Cadmium	Fe(0.000032)
Chromium	Fe(-0.000013)
Cobalt	Ti(0.002309)
Iron	Co(0.074397)
Lead	Al(0.000392), Fe(0.000068), Mo(-0.000795)
Lead	Al(-0.000147), Fe(0.000043), Mn(0.000087), Mo(-0.000864), Ti(0.000806)
Manganese	Fe(0.000021)
Phosphorus	Al(0.000151)
Selenium	Co(-0.000416), Fe(-0.000228), Mn(0.000421)
Selenium	Fe(-0.000038), Mn(0.000335)
Silver	Fe(0.000009)
Strontium	Ca(0.000019)
Thallium	Co(0.003284), Fe(-0.000378), Ti(-0.002004)
Vanadium	Fe(-0.000074), Mg(-0.001091)
Zinc	Cu(0.000541), Fe(0.000092), Ni(0.004397)

ICP Data Reporting Form

Linear Dynamic Ranges

Units: ug/L (ppb)

LDR Date: 09-Oct-07

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t101907.arc

Element	Linear Dynamic Range
As	30000.0
Cd	40000.0
Cr	40000.0
Cu	50000.0
Ni	40000.0
Pb	70000.0
Se	30000.0
Zn	10000.0

TestAmerica Knoxville

Sample ID Nomenclature

The laboratory sample ID consists of 5 alpha-numeric characters followed by a suffix in the 6th position that designates the sample type:

<u>Suffix</u>	<u>Sample Type</u>
B	Method Blank
C	Laboratory Control Sample
L	Laboratory Control Sample Duplicate
S	Matrix Spike
D	Matrix Spike Duplicate
X	Sample Duplicate
P	Serial Dilution
A	Post Digestion Spike
Z#	Dilution; # = Dilution Factor

ICP Data Reporting Form

Initial Calibration Verification

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t102207.arc

Elem	True Conc	ICV 22-Oct-07 10:40 AM											
		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
As	250.0	246.11	98.4										
Cd	250.0	255.58	102.2										
Cr	1000.0	1001.39	100.1										
Cu	1000.0	1003.14	100.3										
Ni	1000.0	1012.32	101.2										
Pb	250.0	253.12	101.2										
Se	250.0	250.57	100.2										
Zn	1000.0	1046.07	104.6										

ICP Data Reporting Form

Continuing Calibration Verification

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t102207.arc

Elem	True Conc	CCV1 22-Oct-07 11:11 AM		CCV2 22-Oct-07 12:18 PM		CCV3 22-Oct-07 1:33 PM		Found	Rec	Found	Rec	Found	Rec
		Found	% Rec	Found	% Rec	Found	% Rec						
As	500.0	496.26	99.3	496.71	99.3	498.91	99.8						
Cd	500.0	504.13	100.8	499.34	99.9	508.83	101.8						
Cr	2000.0	2005.02	100.3	1977.19	98.9	1990.13	99.5						
Cu	2000.0	1988.33	99.4	1968.99	98.4	1951.38	97.6						
Ni	2000.0	2013.97	100.7	2001.68	100.1	2014.62	100.7						
Pb	500.0	505.97	101.2	493.61	98.7	506.53	101.3						
Se	500.0	498.66	99.7	487.36	97.5	495.40	99.1						
Zn	2000.0	2050.80	102.5	2023.38	101.2	2031.43	101.6						

ICP Data Reporting Form

Reporting Limit Standard(s)

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t102207.arc

Elem	True Conc	CRDL 22-Oct-07 11:05 AM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
		Found	% Rec										
As	10.0	8.03	80.3										
Cd	5.0	5.50	110.0										
Cr	10.0	9.58	95.8										
Cu	25.0	25.36	101.4										
Ni	40.0	39.99	100.0										
Pb	4.0	4.00	100.0										
Se	5.0	5.32	106.4										
Zn	20.0	21.50	107.5										

ICP Data Reporting Form

Initial Calibration Blank(s)

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t102207.arc

Elem	Acceptance Limit	ICB 22-Oct-07 10:46 AM									
		Found	Flag	Found	Flag	Found	Flag	Found	Flag	Found	Flag
As	10.0	2.3	U								
Cd	5.0	0.4	U								
Cr	10.0	2.3	U								
Cu	25.0	0.9	U								
Ni	40.0	2.0	U								
Pb	10.0	0.6	U								
Se	10.0	2.4	U								
Zn	20.0	0.3	U								

ICP Data Reporting Form

Continuing Calibration Blank(s)

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t102207.arc

Elem	Acceptance Limit	CCB1 22-Oct-07 11:17 AM		CCB2 22-Oct-07 12:24 PM		CCB3 22-Oct-07 1:39 PM							
		Found	Flag	Found	Flag	Found	Flag	Found	Flag	Found	Flag	Found	Flag
As	10.0	2.3	U	2.3	U	2.3	U						
Cd	5.0	0.4	U	0.4	U	0.4	U						
Cr	10.0	2.3	U	2.3	U	2.3	U						
Cu	25.0	0.9	U	0.9	U	0.9	U						
Ni	40.0	2.0	U	2.0	U	2.0	U						
Pb	10.0	1.2	B	0.6	U	0.6	U						
Se	10.0	2.4	U	2.4	U	2.4	U						
Zn	20.0	0.3	U	0.3	U	0.3	U						

ICP Data Reporting Form

Interference Check Standard A

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t102207.arc

Elem	True Conc	Reporting Limit	ICSA1 22-Oct-07 10:53 AM				
			Found	Found	Found	Found	Found
Al	500000		484047				
As		10	-1				
Ca	500000		447084				
Cd		5	-1				
Cr		10	1				
Cu		25	2				
Fe	200000		195141				
Mg	500000		524338				
Ni		40	3				
Pb		10	1				
Se		10	-4				
Zn		20	9				

ICP Data Reporting Form

Interference Check Standard AB

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t102207.arc

Elem	True Conc	ICSABI 22-Oct-07 10:59 AM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
		Found	% Rec										
Al	250000	250486.2	100.2										
As	100	99.2	99.2										
Ca	250000	239976.2	96.0										
Cd	1000	977.9	97.8										
Cr	500	490.8	98.2										
Cu	500	513.4	102.7										
Fe	100000	99389.5	99.4										
Mg	250000	257643.5	103.1										
Ni	1000	990.3	99.0										
Pb	50	49.1	98.2										
Se	50	49.6	99.1										
Zn	1000	1055.8	105.6										

ICP Data Reporting Form

Serial Dilution(s) *Step 7*

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t102207.arc

Element	J8DJL	J8DJLP	Percent Difference
As	105.51	106.80	1.2
Cd	34.85	35.55	2.0
Cr	543.61	556.55	2.4
Cu	403.96	402.45	0.4
Ni	128.79	132.00 B	2.5
Pb	1110.90	1144.80	3.1
Se	4.58 B	12.00 U	100.0

ICP Data Reporting Form

Serial Dilution(s)

Units: ug/L (ppb)

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t102207.arc

Element	J8DJL ^Z 10	J8DJLPS ₀	Percent Difference
Zn	1645.38	1668.80	1.4

ICP Data Reporting Form

Instrument Detection Limits

Units: ug/L (ppb)

IDL Completion Date: 17-Aug-07

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t102207.arc

Element	Wavelength (nm)	IDL
As	189.04	2.3
Cd	226.50	0.36
Cr	267.71	2.3
Cu	324.75	0.85
Ni	231.60	2.0
Pb	220.35	0.61
Se	196.03	2.4
Zn	213.86	0.34

TestAmerica Knoxville

ICP Data Reporting Form

Inter-Element Correction Factors

Instrument: TJA 61-E SuperTrace ICP

Date of IEC's: 6/27/2007

Analyte	Correction Factor(s)
Aluminum	V(0.011632)
Antimony	Cr(-0.004141), Fe(0.000034), Ti(-0.003519)
Arsenic	Cr(-0.00199), Fe(-0.000002), Mo(-0.001584)
Beryllium	V(-0.008185)
Cadmium	Fe(0.000032)
Chromium	Fe(-0.000013)
Cobalt	Ti(0.002309)
Iron	Co(0.074397)
Lead	Al(0.000392), Fe(0.000068), Mo(-0.000795)
Lead	Al(-0.000147), Fe(0.000043), Mn(0.000087), Mo(-0.000864), Ti(0.000806)
Manganese	Fe(0.000021)
Phosphorus	Al(0.000151)
Selenium	Co(-0.000416), Fe(-0.000228), Mn(0.000421)
Selenium	Fe(-0.000038), Mn(0.000335)
Silver	Fe(0.000009)
Strontium	Ca(0.000019)
Thallium	Co(0.003284), Fe(-0.000378), Ti(-0.002004)
Vanadium	Fe(-0.000074), Mg(-0.001091)
Zinc	Cu(0.000541), Fe(0.000092), Ni(0.004397)

ICP Data Reporting Form

Linear Dynamic Ranges

Units: ug/L (ppb)

LDR Date: 09-Oct-07

Instrument ID: TJA 61-E SuperTrace ICP

Data File Name: t102207.arc

Element	Linear Dynamic Range
As	30000.0
Cd	40000.0
Cr	40000.0
Cu	50000.0
Ni	40000.0
Pb	70000.0
Se	30000.0
Zn	10000.0

TestAmerica Knoxville

Sample ID Nomenclature

The laboratory sample ID consists of 5 alpha-numeric characters followed by a suffix in the 6th position that designates the sample type:

<u>Suffix</u>	<u>Sample Type</u>
B	Method Blank
C	Laboratory Control Sample
L	Laboratory Control Sample Duplicate
S	Matrix Spike
D	Matrix Spike Duplicate
X	Sample Duplicate
P	Serial Dilution
A	Post Digestion Spike
Z#	Dilution; # = Dilution Factor

Quality Control Results Mercury

STL Knoxville

Mercury Data Reporting Form

Initial Calibration Verification

Units: ug/L (ppb)

Instrument ID: Leeman HydraAA Hg An

Data File Name: M101607.PRN

Elem	True Conc	Ck2icv 10/16/2007 9:25 AM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
		Found	% Rec										
Hg	2.5	2.33	93.2										

STL Knoxville**Mercury Data Reporting Form****Continuing Calibration Verification****Units:** ug/L (ppb)**Instrument ID:** Leeman HydraAA Hg An**Data File Name:** M101607.PRN

Elem	True Conc	Ck3ccv 10/16/2007 9:31 AM		Ck3ccv 10/16/2007 9:55 AM		Ck3ccv 10/16/2007 10:18 AM		Ck3ccv 10/16/2007 10:41 AM		Ck3ccv 10/16/2007 11:05 AM		Ck3ccv 10/16/2007 11:15 AM	
		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Hg	5.0	4.79	95.8	4.78	95.6	4.82	96.4	4.81	96.2	4.79	95.8	4.72	94.4

STL Knoxville

Mercury Data Reporting Form

Contract Required Detection Limit Standard(s)

Units: ug/L (ppb)

Instrument ID: Leeman HydraAA Hg An

Data File Name: M101607.PRN

Elem	True Conc	CRA 10/16/2007 9:29 AM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
		Found	% Rec										
Hg	0.2	0.23	114.0										

STL Knoxville

Mercury Data Reporting Form

Initial Calibration Blank(s)

Units: ug/L (ppb)

Instrument ID: Leeman HydraAA Hg An

Data File Name: M101607.PRN

Elem	Reporting Limit	ICB 10/16/2007 9:27 AM											
		Found	Flag	Found	Flag	Found	Flag	Found	Flag	Found	Flag	Found	Flag
Hg	0.2	0.06	U										

STL Knoxville

Mercury Data Reporting Form

Continuing Calibration Blank(s)

Units: ug/L (ppb)

Instrument ID: Leeman HydraAA Hg Ana

Data File Name: M101607.PRN

Elem	Reporting Limit	Ck1ccb 10/16/2007 9:33 AM		Ck1ccb 10/16/2007 9:57 AM		Ck1ccb 10/16/2007 10:20 AM		Ck1ccb 10/16/2007 10:43 AM		Ck1ccb 10/16/2007 11:07 AM		Ck1ccb 10/16/2007 11:17 AM	
		Found	Flag	Found	Flag	Found	Flag	Found	Flag	Found	Flag	Found	Flag
Hg	0.2	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U	0.06	U

STL Knoxville**Mercury Data Reporting Form****Instrument Detection Limits****Units:** ug/L (ppb)**IDL Completion Date:** 12/14/2006**Instrument ID:** Leeman HydraAA Hg An**Data File Name:** M101607.PRN

Element	Wavelength (nm)	Reporting Limit	IDL
Hg	253.70	0.2	0.06

STL Knoxville

Sample ID Nomenclature

The sample ID consists of 5 alpha-numeric characters followed by a suffix in the 6th position that designates the sample type:

<u>Suffix</u>	<u>Sample Type:</u>
B	Method Blank
C	Laboratory Control Sample
L	Laboratory Control Sample Duplicate
S	Matrix Spike
D	Matrix Spike Duplicate
X	Sample Duplicate
P	Serial Dilution
A	Post Digestion Spike
Z#	Dilution; # = Dilution Factor

STL Knoxville

Mercury Data Reporting Form

Initial Calibration Verification

Units: ug/L (ppb)

Instrument ID: Leeman HydraAA Hg An

Data File Name: M102307.PRN

Elem	True Conc	Ck2icv 10/23/2007 8:35 AM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
		Found	% Rec										
Hg	2.5	2.29	91.6										

STL Knoxville

Mercury Data Reporting Form

Continuing Calibration Verification

Units: ug/L (ppb)

Instrument ID: Leeman HydraAA Hg An

Data File Name: M102307.PRN

Elem	True Conc	Ck3ccv 10/23/2007 8:42 AM		Ck3ccv 10/23/2007 9:05 AM		Ck3ccv 10/23/2007 9:29 AM		Ck3ccv 10/23/2007 9:53 AM		Ck3ccv 10/23/2007 10:16 AM		Ck3ccv 10/23/2007 10:40 AM	
		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Hg	5.0	5.00	100.0	4.88	97.6	4.97	99.4	4.86	97.2	4.79	95.8	4.68	93.6

STL Knoxville

Mercury Data Reporting Form

Continuing Calibration Verification

Units: ug/L (ppb)

Instrument ID: Leeman HydraAA Hg An

Data File Name: M102307.PRN

Elem	True Conc	Ck3ccv 10/23/2007 10:56 AM											
		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Hg	5.0	4.68	93.6										

STL Knoxville

Mercury Data Reporting Form

Contract Required Detection Limit Standard(s)

Units: ug/L (ppb)

Instrument ID: Leeman HydraAA Hg An

Data File Name: M102307.PRN

Elem	True Conc	CRA 10/23/2007 8:39 AM		Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
		Found	% Rec										
Hg	0.2	0.17	84.5										

STL Knoxville

Mercury Data Reporting Form

Initial Calibration Blank(s)

Units: ug/L (ppb)

Instrument ID: Leeman HydraAA Hg An

Data File Name: M102307.PRN

Elem	Reporting Limit	ICB 10/23/2007 8:37 AM											
		Found	Flag	Found	Flag	Found	Flag	Found	Flag	Found	Flag	Found	Flag
Hg	0.2	0.06	U										

STL Knoxville

Mercury Data Reporting Form

Continuing Calibration Blank(s)

Units: ug/L (ppb)

Instrument ID: Leeman HydraAA Hg Ana

Data File Name: M102307.PRN

Elem	Reporting Limit	Ck1ccb 10/23/2007 8:44 AM		Ck1ccb 10/23/2007 9:08 AM		Ck1ccb 10/23/2007 9:31 AM		Ck1ccb 10/23/2007 9:55 AM		Ck1ccb 10/23/2007 10:18 AM		Ck1ccb 10/23/2007 10:42 AM	
		Found	Flag	Found	Flag	Found	Flag	Found	Flag	Found	Flag	Found	Flag
Hg	0.2	0.06	U	-0.06	B	0.06	U	0.06	U	0.06	U	0.06	U

STL Knoxville

Mercury Data Reporting Form

Continuing Calibration Blank(s)

Units: ug/L (ppb)

Instrument ID: Leeman HydraAA Hg An

Data File Name: M102307.PRN

Elem	Reporting Limit	Ck1ccb 10/23/2007 10:57 AM									
		Found	Flag	Found	Flag	Found	Flag	Found	Flag	Found	Flag
Hg	0.2	-0.06	B								

STL Knoxville**Mercury Data Reporting Form****Instrument Detection Limits****Units:** ug/L (ppb)**IDL Completion Date:** 12/14/2006**Instrument ID:** Leeman HydraAA Hg An**Data File Name:** M102307.PRN

Element	Wavelength (nm)	Reporting Limit	IDL
Hg	253.70	0.2	0.06

STL Knoxville

Sample ID Nomenclature

The sample ID consists of 5 alpha-numeric characters followed by a suffix in the 6th position that designates the sample type:

<u>Suffix</u>	<u>Sample Type:</u>
B	Method Blank
C	Laboratory Control Sample
L	Laboratory Control Sample Duplicate
S	Matrix Spike
D	Matrix Spike Duplicate
X	Sample Duplicate
P	Serial Dilution
A	Post Digestion Spike
Z#	Dilution; # = Dilution Factor

Raw Data SuperTrace ICP

TestAmerica Knoxville
ICP Analysis Cover Sheet

Chart Number:	T/D1707	Date of Analysis:	10/17/07
Instrument:	ST2	Analyst:	KND

Standard	ID #
Calibration Std. ID #:	
CCV (1:1 dil. of Cal. Std. ID#):	3572-37
ICV ID #:	3571-13
ICSA ID #:	3573A-11
ICSAB ID #:	3573B-11
CRI ID #:	3603-9

<input checked="" type="checkbox"/> Daily	As Needed	Annually
Check that argon manifold gas pressure is 80 psi.	<input type="checkbox"/> Clean nebulizer and drain chamber.	<input type="checkbox"/> Manufacturer service engineer for scheduled preventive maintenance service.
Check that nebulizer is not clogged.	<input type="checkbox"/> Clean filters on back of power unit to remove dust.	<input type="checkbox"/> Change vacuum pump oil on ST1
Check that capillary tubing is clean and in good condition.	Replace when needed: <input type="checkbox"/> peristaltic pump tubing <input type="checkbox"/> sample capillary tubing <input type="checkbox"/> autosampler sipper probe.	
Check that peristaltic pump windings are secure.	<input type="checkbox"/> Clean and lubricate autosampler arm.	
Check that high voltage switch is on.	<input type="checkbox"/> Check that cooling water supply system is full and drain bottle is not full.	
Check that exhaust fans are working.	<input type="checkbox"/> Clean air filter on water cooling system.	
Clean plasma torch assembly to remove accumulated deposits.		
Check spray chamber O-rings		

Comments: _____


```

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:      Instrument Upload                               Run Log - Page 1 :
:      Started Fri Oct 19 14:25:55 2007 by DAWSONK      :
:      Data File: UPL$KNX_DATA_ROOT:<TJA>T101707.ARC;1  :
-----

```

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
1	S0	1	17-OCT-2007	13:17:00			ST2
2	S1	1	17-OCT-2007	13:23:00			ST2
3	S2	1	17-OCT-2007	13:29:00			ST2
4	ICV	1	17-OCT-2007	13:35:00			ST2
5	ICB	1	17-OCT-2007	13:41:00			ST2
6	ICSA1	1	17-OCT-2007	13:48:00			ST2
7	ICSAB1	1	17-OCT-2007	13:54:00			ST2
8	CRDL	1	17-OCT-2007	14:00:00			ST2
9	CCV1	1	17-OCT-2007	14:06:00			ST2
10	CCB1	1	17-OCT-2007	14:12:00			ST2
11	J8KNVBZ3	3.0	17-OCT-2007	14:18:00	7283063	H7J100000	ST2
12	J8KNVCZ5	5.0	17-OCT-2007	14:24:00	7283063	H7J100000	ST2
13	J8KNVLZ5	5.0	17-OCT-2007	14:30:00	7283063	H7J100000	ST2
14	J8DH0Z3	3.0	17-OCT-2007	14:36:00	7283063	H7J050295	ST2
15	J8DH0XZ3	3.0	17-OCT-2007	14:43:00	7283063	H7J050295	ST2
16	J8DJQZ3	3.0	17-OCT-2007	14:49:00	7283063	H7J050295	ST2
17	J8DJ9Z3	3.0	17-OCT-2007	14:55:00	7283063	H7J050295	ST2
18	J8DKWZ3	3.0	17-OCT-2007	15:01:00	7283063	H7J050295	ST2
19	J8DH0P15	1	17-OCT-2007	15:07:00			ST2
20	CCV2	1	17-OCT-2007	15:13:00			ST2
21	CCB2	1	17-OCT-2007	15:19:00			ST2
22	J8NGHBZ3	9.0	17-OCT-2007	15:25:00	7284046	H7J110000	ST2
23	J8NGHCZ5	15.0	17-OCT-2007	15:31:00	7284046	H7J110000	ST2
24	J8NGHLZ5	15.0	17-OCT-2007	15:38:00	7284046	H7J110000	ST2
25	J8DH8Z3	9.0	17-OCT-2007	15:44:00	7284046	H7J050295	ST2
26	J8DH8XZ3	9.0	17-OCT-2007	15:50:00	7284046	H7J050295	ST2
27	J8DJWZ3	9.0	17-OCT-2007	15:56:00	7284046	H7J050295	ST2
28	J8DKAZ3	9.0	17-OCT-2007	16:02:00	7284046	H7J050295	ST2
29	J8DK3Z3	9.0	17-OCT-2007	16:08:00	7284046	H7J050295	ST2
30	J8DH8P15	1	17-OCT-2007	16:14:00			ST2
31	CCV3	1	17-OCT-2007	16:20:00			ST2
32	CCB3	1	17-OCT-2007	16:26:00			ST2
33	J8G4AB	1	17-OCT-2007	16:33:00	7282067	H7J090000	ST2
34	J8G4AC	1	17-OCT-2007	16:39:00	7282067	H7J090000	ST2
35	J8G4AL	1	17-OCT-2007	16:45:00	7282067	H7J090000	ST2
36	J8DJN	1	17-OCT-2007	16:51:00	7282067	H7J050295	ST2
37	J8DJNX	1	17-OCT-2007	16:57:00	7282067	H7J050295	ST2
38	J8DJ7	1	17-OCT-2007	17:03:00	7282067	H7J050295	ST2
39	J8DKT	1	17-OCT-2007	17:09:00	7282067	H7J050295	ST2
40	J8DLE	1	17-OCT-2007	17:15:00	7282067	H7J050295	ST2
41	J8DJNP	1	17-OCT-2007	17:21:00			ST2
42	CCV4	1	17-OCT-2007	17:28:00			ST2
43	CCB4	1	17-OCT-2007	17:34:00			ST2
44	CCV4	1	17-OCT-2007	17:48:00			ST2

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(continued)
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: Instrument Upload Run Log - Page 2 :
: Started Fri Oct 19 14:25:55 2007 by DAWSONK :
: Data File: UPL\$KNX_DATA_ROOT:<TJA>T101707.ARC;1 :

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
45	CCB4	1	17-OCT-2007	17:59:00			ST2
46	J8G4ABZ10	1	17-OCT-2007	18:05:00	7282067	H7J090000	ST2
47	J8DJNZ10	1	17-OCT-2007	18:12:00	7282067	H7J050295	ST2
48	J8DJNXZ10	1	17-OCT-2007	18:18:00	7282067	H7J050295	ST2
49	J8DJ7Z10	10.0	17-OCT-2007	18:24:00	7282067	H7J050295	ST2
50	J8DKTZ10	10.0	17-OCT-2007	18:34:00	7282067	H7J050295	ST2
51	J8DLEZ10	10.0	17-OCT-2007	18:40:00	7282067	H7J050295	ST2
52	J8DJNP50	1	17-OCT-2007	18:46:00			ST2
53	J8DJNZ100	100	17-OCT-2007	18:53:00	7282067	H7J050295	ST2
54	J8DJNXZ100	100	17-OCT-2007	18:59:00	7282067	H7J050295	ST2
55	J8DJNP500	1	17-OCT-2007	19:05:00			ST2
56	CCV5	1	17-OCT-2007	19:12:00			ST2
57	CCB5	1	17-OCT-2007	19:18:00			ST2
58		1	17-OCT-2007	19:24:00			ST2
59		1	17-OCT-2007	19:30:00			ST2

----- End of Report -----

STL Knoxville ICP Chart Review Checklist
Method: 6010B/200.7 - KNOX-MT-0007, Rev 7
Page 1 of 2

Chart Name:	T/D1707			Instrument:	ST2		
A. Calibration/Instrument Run QC				NA	Yes	No	If No, why is data reportable?
1. Instrument calibrated per SOP?		X					
2. ICV analyzed at beginning of run & within acceptance limits? (6010B = 90 - 110%R and <5% RSD) (200.7 = 95 - 105%R and <3% RSD)		X					
3. CCV analyzed at required frequency?		X					
4. CCV within acceptance limits? (6010B & 200.7 = 90 - 110%R and <5% RSD)			X				If no, list details: <u>CCV4 at 1728 1728 - Zn failed - Re-analyzed at 1748</u>
5. ICB/CCB analyzed at required frequency?		X					
6. ICB/CCB within acceptance limits? (Water/Soil/Waste for 01/DQ/4U ≤3x std dev of mean blank value & ≤MDL) (Air/SEP/PM10/JN Waste <RL)			X				If no, list details: <u>CCB4 at 1734 - Cd, Zn+Pb Re-analyzed at 1759</u>
7. ICSA/ICSAB run at the beginning of run?		X					
8. ICSAB interferents and analytes within limits? (80 - 120%R)		X					
9. ICSA criteria for non-interfering elements met? (Water/Soil/Waste for 01/DQ ±1x RL) (4U/Air/SEP/PM10/JN Waste ±2x RL if RL ≤10 µg/L; ±1x RL if RL >10 µg/L) If no, list analytes: _____		X					<input type="checkbox"/> [ics1] Results outside limits due to contamination. <input type="checkbox"/> [ics2] Interfering elements not present in sample at level which would result in false result >±1x RL. <input type="checkbox"/> [ics3] Concentration of affected analyte in sample is more than 10x analyte signal in ICSA.
10. Reporting Limit Check Standard (CRDL) within limits? (Water/Soil/Waste for 01 = 70-130%R) (Water/Soil for DQ = 80-120%R) (4U/Air/SEP/PM10/JN Waste = 50-150%)		X					
11. Were all exposures for the QC standards used?		X					If no, list details: _____
B. Client Sample and QC Sample Results				NA	Yes	No	
1. Were samples with concentrations > the linear range for any parameter diluted and reanalyzed?		X					Comments: <u>J8DJN + J8DJN - 1:100 for Zn; J8DJ7 - 1:10 for Zn</u>
2. For DOD QSM projects (DQ), were samples with concentrations > the high calibration standard for any analyte diluted and reanalyzed?	X						<input type="checkbox"/> High-calibration check standard analyzed instead of running samples at a dilution. Results ± 10%.
3. Were RLs elevated due to matrix effects?		X					Comments: <u>J8DJ7 - Se low</u> <u>J8DKT - Se low</u>
4. Internal standard (IS) response ± 30% of ICB IS? If no, list details: _____		X					<input type="checkbox"/> [is] High IS response. Sample(s) rerun at dilution. <input type="checkbox"/> Low IS response. Sample(s) reanalyzed.
C. Preparation/Matrix QC				NA	Yes	No	
1. Method blank done per prep batch and within limits? (Waters/Soils/Waste for 01/DQ < ½ RL) (4U/Air/SEP/PM10/JN Waste <RL) If no, list blank ID and reason, i.e. [Autotext]: Blank ID [Autotext] Blank ID [Autotext]		X					<input type="checkbox"/> [mb3] No analyte >RL in associated samples.* <input type="checkbox"/> [mb4] Sample results >10x blank. <input type="checkbox"/> [mb5] Insufficient sample for reanalysis.*
2. LCS done per prep batch and within QC limits? If no, list LCS ID: <u>J8NGHC / J8NGHL - Cd, Pb, Zn</u>			X				<input type="checkbox"/> [lcs2] Insufficient sample for reanalysis. <input type="checkbox"/> [lcs3] LCS recovery > QC limits and sample results ND.
3. MS/MSD or MS/DUP run at required frequency?	X						<input type="checkbox"/> [lcsd] Insufficient sample - lcs/lcsd analyzed.

STL Knoxville ICP Chart Review Checklist
Method: 6010B/200.7 - KNOX-MT-0007, Rev 7
Page 2 of 2

Chart Name: T101707

C. Preparation/Matrix QC (continued)	NA	Yes	No	If No, why is data reportable?
4. MS/MSD %R and RPD within QC limits? If no, list MS/MSD ID and [Autotext]: <u>MS/MSD ID</u> <u>[Autotext]</u> <u>MS/MSD ID</u> <u>[Autotext]</u>	X			[ms1] [msd1] LCS acceptable - matrix effects. [ms2] [msd2] Native analyte > 4x spike level. [ms3] [msd3] Matrix effects and native analyte > 4x spike level.
5. PDS or PDS/PDSD analyzed at required frequency? <u>PDS ID</u> <u>Spike Level</u> <u>CLQC or Batch</u>	X			
6. Serial dilution done per prep batch?		X		
7. Was serial dilution reanalyzed at a dilution?		X		Comments: <u>J8DJNP500 - 1:100 dil. for Zn</u>
8. Was the original sample analyzed on same chart as serial dilution?		X		If no, list details: _____
D. Other	NA	Yes	No	
1. Are nonconformances documented appropriately?	X			NCM #
2. Calculations checked for error? (Document manual calculation checks in comments section.)		X		
3. All client/project specific requirements met? (Review QuantIMS LIM L40 report, Lot Summary or Client Analysis Summary, and any applicable QAS.)		X		List requirements added since log-in: _____
4. Were all samples labeled correctly in the autosampler table?		X		If no, list details: _____

Reviewed by: KVD Date: 10/22/07

Comments:

Calculation: J8DHOZ3 Ni at 14:36

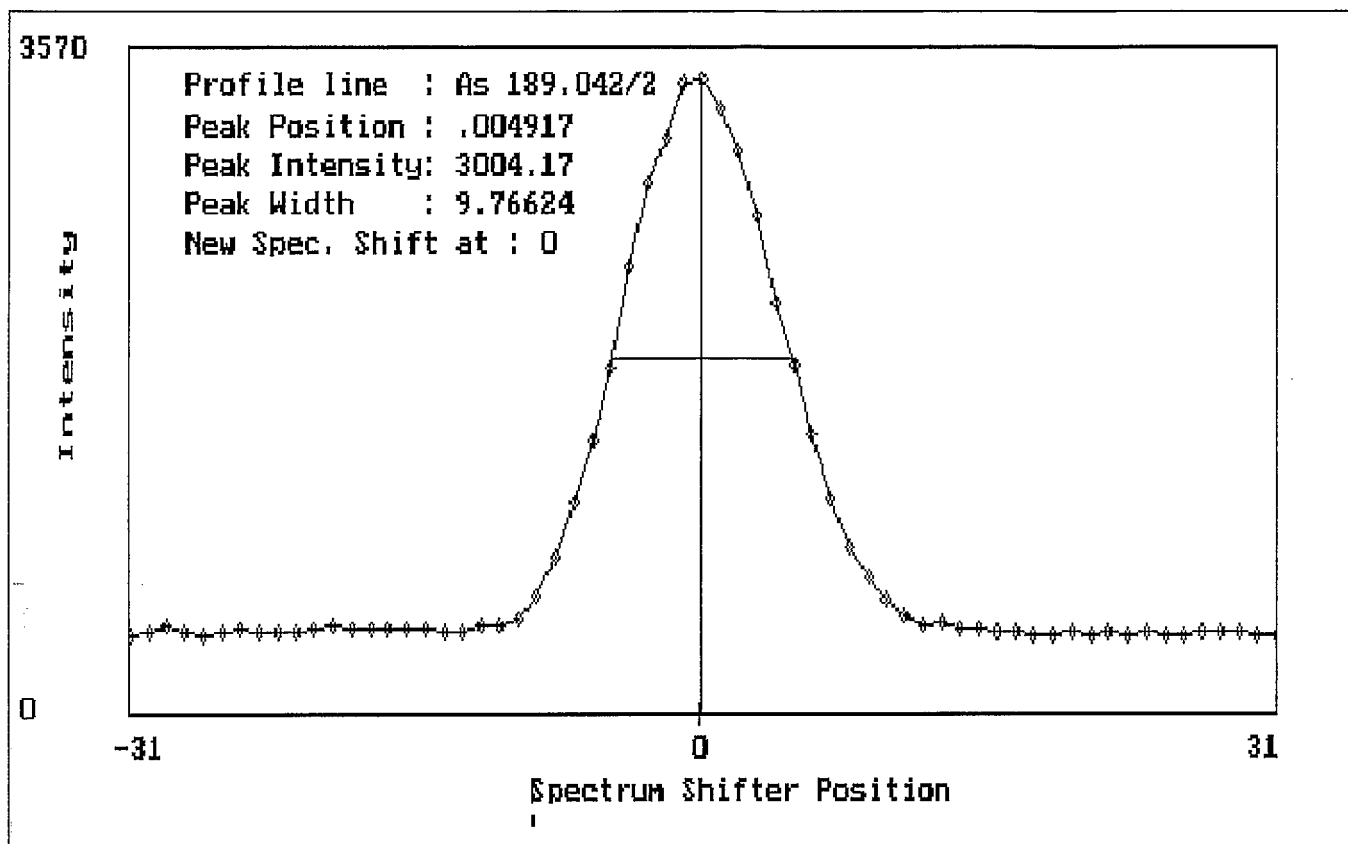
$$0.00428 \text{ mg/L} \times 0.050 \text{ L} \times 25 \text{ mL} \times 3 = 0.1642 \text{ mg/kg}$$

0.005 kg x 25 mL
10/22/07

Notes: CCV4 at 1728 + CCB4 at 1734 failed QC criteria. They were both re-analyzed and met QC criteria. SOP allows for one re-analysis of CCV and CCB.

LCS/LCSD J8NGHC (25) and J8NGHL (25) failed for Cd, Pb + Zn. This may be due to the extraction fluid used for this step.

NOTE: Nonconformance memos are required for **bold** and *italicized* [autotext] statements: **Bold** = deficiency, *italicized* = anomaly



Profile Pos-270

Table Name: NEW Autosampler Type: TYPE TJA
 Sample Positions: 0/192 QC Positions: 10/19 # Sets: 1
 Rinse Station location is rack -1, pos. -1.

--- Racks ---

Rack #	Type	Usage	#Pos Left	Analyses/Pos
1	Aux. (L) Rack	STD/QC/BLANK	10	10
2	Sample (16mm)	Samples	0	1
3	Sample (16mm)	Samples	0	1
4	Sample (16mm)	Samples	0	1
5	Sample (16mm)	Samples	0	1

--- Sample Sets ---

Set#	Type	Prepare?	Description	Method	#Pos	Rack#	StartPos
1	Normal	No		TRA20607	192	2	1

--- Preparation Info ---

Set#	Uptake	Uptake#2	Final	Dil.Factor
No Samples Prepared.				

Rack #1

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	S0	-NA-	1	Standard
2	1	2	S1	-NA-	1	Standard
3	1	3	S2	-NA-	1	QC Standard
4	1	4	ICV	-NA-	1	QC Standard
5	1	5	CCV1	-NA-	1	QC Standard
6	1	6	CCV2	-NA-	1	QC Standard
7	1	7	CCV3	-NA-	1	QC Standard
8	1	8	CCV4	-NA-	1	QC Standard
9	1	9	CCV5	-NA-	1	QC Standard
(10...19			Not Used)			

Rack #2

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	ICB	1	-NA-	Sample
2	1	2	ICSA1	1	-NA-	Sample
3	1	3	ICSAB1	1	-NA-	Sample
4	1	4	CRDL	1	-NA-	Sample
5	1	5	CCB1	1	-NA-	Sample
6	1	6	J8KNVBZ3	1	-NA-	Sample
7	1	7	J8KNVCZ5	1	-NA-	Sample
8	1	8	J8KNVLZ5	1	-NA-	Sample
9	1	9	J8DH0Z3	1	-NA-	Sample
10	1	10	J8DH0XZ3	1	-NA-	Sample
11	1	11	J8DJQZ3	1	-NA-	Sample
12	1	12	J8DJ9Z3	1	-NA-	Sample

Rack #2

Pos	Row	Col	Sample Name	Set #	#Used	Type
13	2	1	J8DKWZ3	1	-NA-	Sample
14	2	2	J8DH0P15	1	-NA-	Sample
15	2	3	CCB2	1	-NA-	Sample
16	2	4	J8NGHBZ3	1	-NA-	Sample
17	2	5	J8NGHCZ5	1	-NA-	Sample
18	2	6	J8NGHLZ5	1	-NA-	Sample
19	2	7	J8DH8Z3	1	-NA-	Sample
20	2	8	J8DH8XZ3	1	-NA-	Sample
21	2	9	J8DJWZ3	1	-NA-	Sample
22	2	10	J8DKAZ3	1	-NA-	Sample
23	2	11	J8DK3Z3	1	-NA-	Sample
24	2	12	J8DH8P15	1	-NA-	Sample
25	3	1	CCB3	1	-NA-	Sample
26	3	2	J8G4AB	1	-NA-	Sample
27	3	3	J8G4AC	1	-NA-	Sample
28	3	4	J8G4AL	1	-NA-	Sample
29	3	5	J8DJN	1	-NA-	Sample
30	3	6	J8DJNX	1	-NA-	Sample
31	3	7	J8DJ7	1	-NA-	Sample
32	3	8	J8DKT	1	-NA-	Sample
33	3	9	J8DLE	1	-NA-	Sample
34	3	10	J8DJNP	1	-NA-	Sample
35	3	11	CCB4	1	-NA-	Sample
36	3	12	J8G4ABZ10	1	-NA-	Sample
37	4	1	J8DJNZ10	1	-NA-	Sample
38	4	2	J8DJNXZ10	1	-NA-	Sample
39	4	3	J8DJ7Z10	1	-NA-	Sample
40	4	4	J8DKTZ10	1	-NA-	Sample
41	4	5	J8DLEZ10	1	-NA-	Sample
42	4	6	J8DJNP50	1	-NA-	Sample
43	4	7	CCB5	1	-NA-	Sample
44	4	8		1	-NA-	Sample
45	4	9		1	-NA-	Sample
46	4	10	(empty)	1	-NA-	-NA-
47	4	11	(empty)	1	-NA-	-NA-
48	4	12	(empty)	1	-NA-	-NA-

Rack #3

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	(empty)	1	-NA-	-NA-
2	1	2	(empty)	1	-NA-	-NA-
3	1	3	(empty)	1	-NA-	-NA-
4	1	4	(empty)	1	-NA-	-NA-
5	1	5	(empty)	1	-NA-	-NA-
6	1	6	(empty)	1	-NA-	-NA-
7	1	7	(empty)	1	-NA-	-NA-
8	1	8	(empty)	1	-NA-	-NA-
9	1	9	(empty)	1	-NA-	-NA-
10	1	10	(empty)	1	-NA-	-NA-
11	1	11	(empty)	1	-NA-	-NA-
12	1	12	(empty)	1	-NA-	-NA-

Rack #3

Pos	Row	Col	Sample Name	Set #	#Used	Type
13	2	1	(empty)	1	-NA-	-NA-
14	2	2	(empty)	1	-NA-	-NA-
15	2	3	(empty)	1	-NA-	-NA-
16	2	4	(empty)	1	-NA-	-NA-
17	2	5	(empty)	1	-NA-	-NA-
18	2	6	(empty)	1	-NA-	-NA-
19	2	7	(empty)	1	-NA-	-NA-
20	2	8	(empty)	1	-NA-	-NA-
21	2	9	(empty)	1	-NA-	-NA-
22	2	10	(empty)	1	-NA-	-NA-
23	2	11	(empty)	1	-NA-	-NA-
24	2	12	(empty)	1	-NA-	-NA-
25	3	1	(empty)	1	-NA-	-NA-
26	3	2	(empty)	1	-NA-	-NA-
27	3	3	(empty)	1	-NA-	-NA-
28	3	4	(empty)	1	-NA-	-NA-
29	3	5	(empty)	1	-NA-	-NA-
30	3	6	(empty)	1	-NA-	-NA-
31	3	7	(empty)	1	-NA-	-NA-
32	3	8	(empty)	1	-NA-	-NA-
33	3	9	(empty)	1	-NA-	-NA-
34	3	10	(empty)	1	-NA-	-NA-
35	3	11	(empty)	1	-NA-	-NA-
36	3	12	(empty)	1	-NA-	-NA-
37	4	1	(empty)	1	-NA-	-NA-
38	4	2	(empty)	1	-NA-	-NA-
39	4	3	(empty)	1	-NA-	-NA-
40	4	4	(empty)	1	-NA-	-NA-
41	4	5	(empty)	1	-NA-	-NA-
42	4	6	(empty)	1	-NA-	-NA-
43	4	7	(empty)	1	-NA-	-NA-
44	4	8	(empty)	1	-NA-	-NA-
45	4	9	(empty)	1	-NA-	-NA-
46	4	10	(empty)	1	-NA-	-NA-
47	4	11	(empty)	1	-NA-	-NA-
48	4	12	(empty)	1	-NA-	-NA-

Rack #4

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	(empty)	1	-NA-	-NA-
2	1	2	(empty)	1	-NA-	-NA-
3	1	3	(empty)	1	-NA-	-NA-
4	1	4	(empty)	1	-NA-	-NA-
5	1	5	(empty)	1	-NA-	-NA-
6	1	6	(empty)	1	-NA-	-NA-
7	1	7	(empty)	1	-NA-	-NA-
8	1	8	(empty)	1	-NA-	-NA-
9	1	9	(empty)	1	-NA-	-NA-
10	1	10	(empty)	1	-NA-	-NA-
11	1	11	(empty)	1	-NA-	-NA-
12	1	12	(empty)	1	-NA-	-NA-

Rack #4

Pos	Row	Col	Sample Name	Set #	#Used	Type
13	2	1	(empty)	1	-NA-	-NA-
14	2	2	(empty)	1	-NA-	-NA-
15	2	3	(empty)	1	-NA-	-NA-
16	2	4	(empty)	1	-NA-	-NA-
17	2	5	(empty)	1	-NA-	-NA-
18	2	6	(empty)	1	-NA-	-NA-
19	2	7	(empty)	1	-NA-	-NA-
20	2	8	(empty)	1	-NA-	-NA-
21	2	9	(empty)	1	-NA-	-NA-
22	2	10	(empty)	1	-NA-	-NA-
23	2	11	(empty)	1	-NA-	-NA-
24	2	12	(empty)	1	-NA-	-NA-
25	3	1	(empty)	1	-NA-	-NA-
26	3	2	(empty)	1	-NA-	-NA-
27	3	3	(empty)	1	-NA-	-NA-
28	3	4	(empty)	1	-NA-	-NA-
29	3	5	(empty)	1	-NA-	-NA-
30	3	6	(empty)	1	-NA-	-NA-
31	3	7	(empty)	1	-NA-	-NA-
32	3	8	(empty)	1	-NA-	-NA-
33	3	9	(empty)	1	-NA-	-NA-
34	3	10	(empty)	1	-NA-	-NA-
35	3	11	(empty)	1	-NA-	-NA-
36	3	12	(empty)	1	-NA-	-NA-
37	4	1	(empty)	1	-NA-	-NA-
38	4	2	(empty)	1	-NA-	-NA-
39	4	3	(empty)	1	-NA-	-NA-
40	4	4	(empty)	1	-NA-	-NA-
41	4	5	(empty)	1	-NA-	-NA-
42	4	6	(empty)	1	-NA-	-NA-
43	4	7	(empty)	1	-NA-	-NA-
44	4	8	(empty)	1	-NA-	-NA-
45	4	9	(empty)	1	-NA-	-NA-
46	4	10	(empty)	1	-NA-	-NA-
47	4	11	(empty)	1	-NA-	-NA-
48	4	12	(empty)	1	-NA-	-NA-

Rack #5

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	(empty)	1	-NA-	-NA-
2	1	2	(empty)	1	-NA-	-NA-
3	1	3	(empty)	1	-NA-	-NA-
4	1	4	(empty)	1	-NA-	-NA-
5	1	5	(empty)	1	-NA-	-NA-
6	1	6	(empty)	1	-NA-	-NA-
7	1	7	(empty)	1	-NA-	-NA-
8	1	8	(empty)	1	-NA-	-NA-
9	1	9	(empty)	1	-NA-	-NA-
10	1	10	(empty)	1	-NA-	-NA-
11	1	11	(empty)	1	-NA-	-NA-
12	1	12	(empty)	1	-NA-	-NA-

Rack #5

Pos	Row	Col	Sample Name	Set #	#Used	Type
13	2	1	(empty)	1	-NA-	-NA-
14	2	2	(empty)	1	-NA-	-NA-
15	2	3	(empty)	1	-NA-	-NA-
16	2	4	(empty)	1	-NA-	-NA-
17	2	5	(empty)	1	-NA-	-NA-
18	2	6	(empty)	1	-NA-	-NA-
19	2	7	(empty)	1	-NA-	-NA-
20	2	8	(empty)	1	-NA-	-NA-
21	2	9	(empty)	1	-NA-	-NA-
22	2	10	(empty)	1	-NA-	-NA-
23	2	11	(empty)	1	-NA-	-NA-
24	2	12	(empty)	1	-NA-	-NA-
25	3	1	(empty)	1	-NA-	-NA-
26	3	2	(empty)	1	-NA-	-NA-
27	3	3	(empty)	1	-NA-	-NA-
28	3	4	(empty)	1	-NA-	-NA-
29	3	5	(empty)	1	-NA-	-NA-
30	3	6	(empty)	1	-NA-	-NA-
31	3	7	(empty)	1	-NA-	-NA-
32	3	8	(empty)	1	-NA-	-NA-
33	3	9	(empty)	1	-NA-	-NA-
34	3	10	(empty)	1	-NA-	-NA-
35	3	11	(empty)	1	-NA-	-NA-
36	3	12	(empty)	1	-NA-	-NA-
37	4	1	(empty)	1	-NA-	-NA-
38	4	2	(empty)	1	-NA-	-NA-
39	4	3	(empty)	1	-NA-	-NA-
40	4	4	(empty)	1	-NA-	-NA-
41	4	5	(empty)	1	-NA-	-NA-
42	4	6	(empty)	1	-NA-	-NA-
43	4	7	(empty)	1	-NA-	-NA-
44	4	8	(empty)	1	-NA-	-NA-
45	4	9	(empty)	1	-NA-	-NA-
46	4	10	(empty)	1	-NA-	-NA-
47	4	11	(empty)	1	-NA-	-NA-
48	4	12	(empty)	1	-NA-	-NA-

Method: TRA20607 Standard: S0

Run Time: 10/17/07 13:17:20

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	.01602	.01509	-.00614	.00108	-.04727	.00047	-.00322
SDev	.00047	.00938	.00473	.00025	.00051	.00290	.00019
%RSD	2.9589	62.178	77.055	23.584	1.0795	612.80	6.0636
#1	.01653	.01904	-.00087	.00134	-.04712	.00056	-.00307
#2	.01558	.02186	-.01001	.00106	-.04686	-.00247	-.00314
#3	.01597	.00438	-.00754	.00083	-.04784	.00333	-.00344
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Avge	.00125	-.00048	.00127	.00004	.00125	.00528	.00090
SDev	.00108	.00019	.00028	.00058	.03512	.00851	.00132
%RSD	86.841	40.161	22.175	1486.3	2801.8	161.11	147.34
#1	.00039	-.00028	.00145	.00050	-.01859	.01329	.00229
#2	.00247	-.00050	.00140	.00022	-.01945	.00622	.00073
#3	.00089	-.00067	.00094	-.00061	.04180	-.00366	-.00033
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Avge	.00009	.28644	.00013	-.03191	.01907	.14305	.00149
SDev	.00013	.00320	.00014	.00299	.00520	.00178	.00121
%RSD	139.03	1.1183	107.60	9.3588	27.239	1.2481	81.510
#1	.00017	.28836	.00011	-.03272	.01960	.14404	.00279
#2	-.00006	.28822	.00000	-.03442	.02399	.14411	.00129
#3	.00017	.28274	.00028	-.02861	.01364	.14098	.00039
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Avge	-.01509	.00143	-.00004	.01354	-.00199	.00015	.00056
SDev	.00242	.00060	.00009	.00025	.00044	.00038	.00053
%RSD	16.070	41.908	230.61	1.8230	22.254	252.91	95.278
#1	-.01513	.00195	-.00011	.01368	-.00179	.00045	.00106
#2	-.01749	.00157	.00006	.01368	-.00168	.00028	.00062
#3	-.01264	.00078	-.00006	.01325	-.00249	-.00028	.00000
Elem	Ti	Sn	Si	P_			
Avge	-.00046	-.01191	.01688	.08855			
SDev	.00014	.00212	.00051	.00077			
%RSD	29.742	17.825	3.0252	.87311			
#1	-.00033	-.00999	.01725	.08944			
#2	-.00045	-.01155	.01710	.08817			
#3	-.00061	-.01419	.01630	.08804			

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17930	--	--	--	--	--	--
SDev	99.80751	--	--	--	--	--	--
%RSD	.5566558	--	--	--	--	--	--
#1	17912	--	--	--	--	--	--
#2	17840	--	--	--	--	--	--
#3	18037	--	--	--	--	--	--

Method: TRA20607 Standard: S1
 Run Time: 10/17/07 13:23:32

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	8.0545	2.9813	3.0939	9.7008	18.319	15.705	27.856
SDev	.0156	.0078	.0110	.0324	.072	.281	.125
%RSD	.19384	.26302	.35671	.33448	.39415	1.7875	.44954
#1	8.0665	2.9750	3.0838	9.6931	18.343	16.008	27.941
#2	8.0602	2.9901	3.1057	9.7364	18.376	15.654	27.915
#3	8.0369	2.9788	3.0921	9.6729	18.237	15.453	27.712
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Avge	9.2722	2.7621	2.1637	2.7779	12.081	6.3254	29.021
SDev	.0474	.0160	.0062	.0126	.077	.0712	.109
%RSD	.51098	.58013	.28563	.45230	.63650	1.1262	.37549
#1	9.2699	2.7653	2.1691	2.7731	12.170	6.3946	28.971
#2	9.3207	2.7762	2.1650	2.7922	12.035	6.3294	29.145
#3	9.2260	2.7447	2.1569	2.7685	12.038	6.2522	28.945
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Avge	8.5811	18.882	2.6855	2.2191	2.4582	6.0122	2.4569
SDev	.0420	.067	.0083	.0179	.0349	.0145	.0145
%RSD	.48896	.35520	.31070	.80644	1.4202	.24057	.58851
#1	8.5646	18.959	2.6869	2.2339	2.4784	6.0181	2.4736
#2	8.6288	18.852	2.6930	2.1992	2.4784	6.0228	2.4480
#3	8.5500	18.835	2.6765	2.2243	2.4179	5.9958	2.4492
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Avge	3.7678	1.9412	9.1678	2.7744	4.7882	28.634	48.245
SDev	.0553	.0078	.0332	.0038	.0197	.147	.169
%RSD	1.4673	.40146	.36213	.13807	.41133	.51474	.34972
#1	3.8256	1.9386	9.1825	2.7705	4.7932	28.804	48.363
#2	3.7624	1.9499	9.1911	2.7782	4.8050	28.547	48.320
#3	3.7154	1.9350	9.1298	2.7744	4.7665	28.551	48.052
Elem	Ti	Sn	Si	P_			
Avge	3.4263	20.751	.51751	3.4531			
SDev	.0079	.074	.00165	.0199			
%RSD	.23133	.35729	.31870	.57766			
#1	3.4230	20.740	.51720	3.4334			
#2	3.4353	20.831	.51929	3.4732			
#3	3.4205	20.683	.51604	3.4527			

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17425	--	--	--	--	--	--
SDev	114.1219	--	--	--	--	--	--
%RSD	.6549471	--	--	--	--	--	--
#1	17318	--	--	--	--	--	--
#2	17410	--	--	--	--	--	--
#3	17545	--	--	--	--	--	--

Standardization

Report

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Method: TRA20607

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Al	308.215	S1	S0	6.22584	-.099769	10/17/07 01:23:32
Sb	206.838	S1	S0	.327368	-.004941	10/17/07 01:23:32
As	189.042	S1	S0	.317937	.001951	10/17/07 01:23:32
Ba	493.409	S1	S0	.412383	-.000445	10/17/07 01:23:32
Be	313.042	S1	S0	.216012	.010212	10/17/07 01:23:32
Cd	226.502	S1	S0	.063777	-.000030	10/17/07 01:23:32
Ca	317.933	S1	S0	3.58947	.011542	10/17/07 01:23:32
Cr	267.714	S1	S0	.431383	-.000538	10/17/07 01:23:32
Co	228.616	S1	S0	1.45128	.000701	10/17/07 01:23:32
Cu	324.754	S1	S0	1.84979	-.002340	10/17/07 01:23:32
Fe	271.441	S1	S0	18.1063	-.000705	10/17/07 01:23:32
Pb/1	220.351	S1	S0	.084425	-.000106	10/17/07 01:23:32
Pb/2	220.352	S1	S0	.157418	-.000832	10/17/07 01:23:32
Mg	279.079	S1	S0	3.44595	-.003084	10/17/07 01:23:32
Mn	257.610	S1	S0	.466270	-.000043	10/17/07 01:23:32
K_	766.491	S1	S0	.996462	.004233	10/17/07 01:23:32
Ni	231.604	S1	S0	1.48956	-.000193	10/17/07 01:23:32
Se/1	196.021	S1	S0	.443980	.014169	10/17/07 01:23:32
Se/2	196.022	S1	S0	.405305	-.007731	10/17/07 01:23:32
Ag	328.068	S1	S0	.340839	-.048755	10/17/07 01:23:32
Na	330.232	S1	S0	1.00814	.000453	10/17/07 01:23:32
Tl	190.864	S1	S0	.525423	.007927	10/17/07 01:23:32
V_	292.402	S1	S0	2.00092	-.002868	10/17/07 01:23:32
Zn	213.856	S1	S0	.438962	.000016	10/17/07 01:23:32
B_	249.678	S1	S0	1.44884	-.019610	10/17/07 01:23:32
Mo	202.030	S1	S0	.835034	.001660	10/17/07 01:23:32
Li	670.784	S1	S0	.139696	-.000021	10/17/07 01:23:32
Sr	421.552	S1	S0	.082951	-.000046	10/17/07 01:23:32
Ti	334.941	S1	S0	1.16728	.000542	10/17/07 01:23:32
Sn	189.989	S1	S0	.192647	.002295	10/17/07 01:23:32
Si	288.158	S1	S0	7.98998	-.134889	10/17/07 01:23:32
P_	178.287	S1	S0	1.19111	-.105472	10/17/07 01:23:32
Pb	220.353	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
Se	196.026	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED

Analysis Report

QC Standard

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Value	.50000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Range	10.500	10.500	10.500	10.500	10.500	10.500	10.500

Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.0141	1.0084	.97489	.99433	.25501	.24892	
SDev	.0060	.0048	.00834	.00853	.00148	.00022	
%RSD	.58972	.47132	.85566	.85764	.57889	.09055	

#1	1.0210	1.0137	.98142	1.0041	.25644	.24868	
#2	1.0106	1.0068	.97776	.99022	.25511	.24912	
#3	1.0107	1.0046	.96549	.98865	.25349	.24895	

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	
Value	1.0000	1.0000	1.0000	1.0000	.25000	.25000	
Range	10.500	10.500	10.500	10.500	10.500	10.500	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18120	--	--	--	--	--	--
SDev	173.3879	--	--	--	--	--	--
%RSD	.9568934	--	--	--	--	--	--

#1	18030	--	--	--	--	--	--
#2	18010	--	--	--	--	--	--
#3	18320	--	--	--	--	--	--

Analysis Report

QC Standard

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Value	.50000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Range	10.500	10.500	10.500	10.500	10.500	10.500	10.500

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0275	1.0208	1.0090	1.0139	.25962	.25269
SDev	.0033	.0066	.0057	.0043	.00349	.00444
%RSD	.32341	.64887	.56537	.42533	1.3436	1.7556

#1	1.0253	1.0193	1.0038	1.0093	.25821	.24898
#2	1.0313	1.0280	1.0151	1.0179	.26360	.25760
#3	1.0258	1.0151	1.0082	1.0144	.25706	.25149

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	1.0000	1.0000	.25000	.25000
Range	10.500	10.500	10.500	10.500	10.500	10.500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18168	--	--	--	--	--	--
SDev	192.2556	--	--	--	--	--	--
%RSD	1.058207	--	--	--	--	--	--

#1	18286	--	--	--	--	--	--
#2	17946	--	--	--	--	--	--
#3	18272	--	--	--	--	--	--

High	.00850	.00450	.00220	.04400	.00650	.00120	.00042
Low	-.00850	-.00450	-.00220	-.04400	-.00650	-.00120	-.00042
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00028	-.00044	-.01915	.00074	.00068	.00098	
SDev	.00061	.00130	.00166	.00140	.00052	.00148	
%RSD	216.50	297.23	8.6430	190.05	75.887	150.19	
#1	.00098	.00081	-.01872	.00209	.00009	.00179	
#2	-.00004	-.00034	-.01775	.00082	.00091	-.00072	
#3	-.00010	-.00179	-.02098	-.00070	.00104	.00188	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	.00100	.00550	.03700	.01900	.00350	.00430	
Low	-.00100	-.00550	-.03700	-.01900	-.00350	-.00430	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18271	--	--	--	--	--	--
SDev	262.9639	--	--	--	--	--	--
%RSD	1.439226	--	--	--	--	--	--
#1	18570	--	--	--	--	--	--
#2	18076	--	--	--	--	--	--
#3	18167	--	--	--	--	--	--

Method: TRA20607 Sample Name: ICSA1

Operator:

Run Time: 10/17/07 13:48:02

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	472.64	.00620	.00131	.00091	-.00034	-.00122	453.05
SDev	4.55	.00304	.00157	.00002	.00041	.00021	3.59
%RSD	.96327	49.110	120.10	2.4264	122.48	17.637	.79264
#1	477.75	.00268	-.00034	.00091	-.00081	-.00114	449.06
#2	469.01	.00803	.00280	.00089	-.00010	-.00146	456.03
#3	471.16	.00788	.00147	.00093	-.00010	-.00105	454.06
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	602.45	.06000	.02000	.01000	.01000	.00500	602.45
Low	397.55	-.06000	-.02000	-.01000	-.01000	-.00500	397.55
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00210	.00020	.00083	197.51	.00615	-.00169	528.18
SDev	.00038	.00022	.00044	1.57	.00232	.00148	4.24
%RSD	18.212	107.49	53.166	.79576	37.770	87.682	.80315
#1	.00230	.00000	.00130	196.58	.00786	-.00013	525.45
#2	.00234	.00018	.00043	199.33	.00709	-.00309	533.06
#3	.00166	.00044	.00075	196.63	.00351	-.00186	526.02
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.01500	.05000	.02500	240.98			602.45
Low	-.01500	-.05000	-.02500	159.02			397.55
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00085	.19389	.00251	.00130	-.00900	.00143	-.86996
SDev	.00004	.01944	.00041	.00713	.00493	.00124	.09872
%RSD	5.1728	10.024	16.288	548.69	54.787	86.661	11.348
#1	.00082	.17189	.00212	.00841	-.01269	.00001	-.92531
#2	.00090	.20871	.00293	-.00586	-.00340	.00225	-.75599
#3	.00082	.20107	.00247	.00135	-.01091	.00202	-.92859
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	.01500		.04000			.02000	5.0000
Low	-.01500		-.04000			-.02000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00671	-.02569	.00937	.00500	-.00057	.00051	-.00290
SDev	.00827	.01528	.00030	.00102	.00098	.00007	.00011
%RSD	123.37	59.460	3.1689	20.348	173.07	13.391	3.7196
#1	-.01488	-.04114	.00917	.00449	-.00163	.00051	-.00278
#2	-.00691	-.01060	.00923	.00617	-.00039	.00057	-.00299
#3	.00167	-.02533	.00971	.00434	.00031	.00044	-.00294
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass

High	.02000	.02000	.04000	.05000	.05000
Low	-.02000	-.02000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00217	.00224	.03293	.02783	.00156	-.00511
SDev	.00119	.00241	.00340	.00256	.00138	.00128
%RSD	54.815	107.42	10.335	9.2113	88.756	24.983

#1	.00353	.00496	.03562	.02574	.00313	-.00519
#2	.00159	.00141	.03407	.02706	.00102	-.00380
#3	.00138	.00036	.02910	.03069	.00052	-.00635

Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass
High	.05000	.10000	.50000		.00800	.01000
Low	-.05000	-.10000	-.50000		-.00800	-.01000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	16743	--	--	--	--	--	--
SDev	43.55551	--	--	--	--	--	--
%RSD	.2601393	--	--	--	--	--	--

#1	16776	--	--	--	--	--	--
#2	16694	--	--	--	--	--	--
#3	16760	--	--	--	--	--	--

High	.12049	.60245	1.2049	1.2049	1.2049	1.2049	1.2049
Low	.07951	.39755	.79510	.79510	.79510	.79510	.79510

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0201	.96642	1.0278	1.0234	.04977	.05111
SDev	.0038	.00303	.0012	.0019	.00107	.00133
%RSD	.37155	.31329	.11937	.18552	2.1470	2.6070

#1	1.0165	.96309	1.0284	1.0235	.04856	.04961
#2	1.0241	.96900	1.0286	1.0215	.05019	.05158
#3	1.0197	.96718	1.0264	1.0253	.05057	.05215

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.2049	1.2049	1.2049	1.2049	.06024	.06024
Low	.79510	.79510	.79510	.79510	.03976	.03976

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17418	--	--	--	--	--	--
SDev	62.49758	--	--	--	--	--	--
%RSD	.3588053	--	--	--	--	--	--

#1	17378	--	--	--	--	--	--
#2	17490	--	--	--	--	--	--
#3	17387	--	--	--	--	--	--

High	.01500	.07500	.03000	.30000	.06000	.07500	.07500
Low	.00500	.02500	.01000	.10000	.02000	.02500	.02500

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05172	.09327	.50438	.29698	.00405	.00651
SDev	.00038	.00092	.00279	.00461	.00073	.00061
%RSD	.74208	.98615	.55248	1.5515	18.139	9.4095

#1	.05183	.09433	.50123	.29985	.00338	.00581
#2	.05130	.09281	.50538	.29166	.00484	.00679
#3	.05205	.09267	.50652	.29941	.00392	.00693

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.07500	.15000	.75000	.45000	.00600	.00750
Low	.02500	.05000	.25000	.15000	.00200	.00250

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18390	--	--	--	--	--	--
SDev	170.1959	--	--	--	--	--	--
%RSD	.9254758	--	--	--	--	--	--

#1	18527	--	--	--	--	--	--
#2	18444	--	--	--	--	--	--
#3	18199	--	--	--	--	--	--

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Value	1.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	10.500	10.500	10.500	10.500	10.500	10.500	10.500

Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.0342	2.0291	1.9138	1.9925	.51091	.50133	
SDev	.0059	.0058	.0023	.0117	.00249	.00277	
%RSD	.29064	.28442	.12270	.58703	.48792	.55282	

#1	2.0290	2.0225	1.9117	1.9795	.51137	.50337	
#2	2.0406	2.0317	1.9163	1.9961	.50822	.49817	
#3	2.0328	2.0331	1.9132	2.0020	.51314	.50245	

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	
Value	2.0000	2.0000	2.0000	2.0000	.50000	.50000	
Range	10.500	10.500	10.500	10.500	10.500	10.500	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17887	--	--	--	--	--	--
SDev	95.24528	--	--	--	--	--	--
%RSD	.5324783	--	--	--	--	--	--

#1	17806	--	--	--	--	--	--
#2	17992	--	--	--	--	--	--
#3	17863	--	--	--	--	--	--

High	.00850	.00450	.00220	.04400	.00650	.00120	.00042
Low	-.00850	-.00450	-.00220	-.04400	-.00650	-.00120	-.00042
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00014	-.00040	L-.04515	-.00128	.00058	.00080	
SDev	.00013	.00063	.00246	.00210	.00011	.00178	
%RSD	91.980	158.67	5.4398	164.54	17.973	222.97	
#1	.00004	-.00057	L-.04246	-.00323	.00057	.00073	
#2	.00029	.00030	L-.04571	.00095	.00069	-.00095	
#3	.00010	-.00092	L-.04728	-.00156	.00049	.00262	
Errors	LC Pass	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	
High	.00100	.00550	.03700	.01900	.00350	.00430	
Low	-.00100	-.00550	-.03700	-.01900	-.00350	-.00430	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18489	--	--	--	--	--	--
SDev	29.95940	--	--	--	--	--	--
%RSD	.1620371	--	--	--	--	--	--
#1	18499	--	--	--	--	--	--
#2	18456	--	--	--	--	--	--
#3	18513	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00000	.00087	-.03314	.03292	-.00002	.00102
SDev	.00023	.00061	.00195	.00274	.00025	.00090
%RSD	9846.1	70.590	5.8749	8.3347	1063.9	88.260

#1	.00027	.00127	-.03093	.03145	.00003	.00206
#2	-.00012	.00016	-.03463	.03122	-.00030	.00050
#3	-.00014	.00118	-.03385	.03609	.00020	.00050

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17302	--	--	--	--	--	--
SDev	225.6191	--	--	--	--	--	--
%RSD	1.303997	--	--	--	--	--	--

#1	17294	--	--	--	--	--	--
#2	17532	--	--	--	--	--	--
#3	17081	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01999	.10163	.89321	1.0157	.01839	.03108
SDev	.00035	.00088	.00760	.0032	.00056	.00056
%RSD	1.7471	.86237	.85053	.31783	3.0373	1.7851

#1	.01995	.10110	.89970	1.0179	.01809	.03067
#2	.02036	.10116	.89508	1.0173	.01904	.03171
#3	.01967	.10265	.88486	1.0120	.01805	.03087

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17624	--	--	--	--	--	--
SDev	70.15818	--	--	--	--	--	--
%RSD	.3980901	--	--	--	--	--	--

#1	17562	--	--	--	--	--	--
#2	17610	--	--	--	--	--	--
#3	17700	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02040	.10383	.91682	1.0431	.01914	.03265
SDev	.00024	.00185	.00868	.0072	.00077	.00094
%RSD	1.1648	1.7835	.94694	.68698	4.0084	2.8676

#1	.02045	.10214	.92198	1.0449	.01948	.03271
#2	.02014	.10354	.92169	1.0351	.01826	.03169
#3	.02061	.10581	.90680	1.0491	.01968	.03356

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18007	--	--	--	--	--	--
SDev	189.2570	--	--	--	--	--	--
%RSD	1.051004	--	--	--	--	--	--

#1	17879	--	--	--	--	--	--
#2	18225	--	--	--	--	--	--
#3	17918	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00012	-.00040	.06269	.03493	.00081	.00148	
SDev	.00019	.00093	.00341	.00190	.00083	.00195	
%RSD	156.25	229.14	5.4351	5.4475	102.24	132.19	
#1	-.00031	-.00140	.05880	.03296	.00067	.00149	
#2	-.00013	.00043	.06413	.03676	.00171	-.00048	
#3	.00007	-.00024	.06514	.03508	.00006	.00342	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17540	--	--	--	--	--	--
SDev	280.9345	--	--	--	--	--	--
%RSD	1.601668	--	--	--	--	--	--
#1	17862	--	--	--	--	--	--
#2	17343	--	--	--	--	--	--
#3	17415	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00001	.00105	.06324	.03361	.00087	.00226	
SDev	.00010	.00228	.00237	.00057	.00047	.00042	
%RSD	1132.7	216.48	3.7543	1.6855	54.020	18.576	
#1	-.00012	.00368	.06094	.03416	.00125	.00179	
#2	.00007	-.00048	.06568	.03365	.00034	.00260	
#3	.00002	-.00004	.06310	.03302	.00101	.00238	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17651	--	--	--	--	--	--
SDev	194.8334	--	--	--	--	--	--
%RSD	1.103825	--	--	--	--	--	--
#1	17667	--	--	--	--	--	--
#2	17448	--	--	--	--	--	--
#3	17837	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00015	.00087	.04946	.03454	-.00002	.00013	
SDev	.00004	.00176	.00094	.00192	.00071	.00058	
%RSD	23.156	201.60	1.9054	5.5514	4404.0	434.68	
#1	-.00013	.00170	.04844	.03630	-.00049	-.00049	
#2	-.00019	-.00115	.05031	.03250	-.00036	.00024	
#3	-.00014	.00206	.04962	.03483	.00080	.00066	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17366	--	--	--	--	--	--
SDev	152.1021	--	--	--	--	--	--
%RSD	.8758630	--	--	--	--	--	--
#1	17433	--	--	--	--	--	--
#2	17473	--	--	--	--	--	--
#3	17192	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00019	.00075	.00353	.02706	.00040	.00087	
SDev	.00006	.00018	.00049	.00118	.00085	.00073	
%RSD	33.019	23.819	14.004	4.3467	211.89	84.340	
#1	-.00024	.00054	.00409	.02806	.00039	.00146	
#2	-.00020	.00083	.00339	.02735	.00126	.00109	
#3	-.00012	.00087	.00313	.02576	-.00045	.00005	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17585	--	--	--	--	--	--
SDev	244.3382	--	--	--	--	--	--
%RSD	1.389434	--	--	--	--	--	--
#1	17823	--	--	--	--	--	--
#2	17335	--	--	--	--	--	--
#3	17599	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00010	.00279	.01372	.04391	.00087	-.00020	
SDev	.00016	.00069	.00442	.00307	.00122	.00094	
%RSD	152.61	24.799	32.243	6.9819	140.37	481.79	
#1	-.00025	.00356	.01016	.04057	.00178	.00089	
#2	-.00013	.00257	.01233	.04459	-.00052	-.00082	
#3	.00007	.00223	.01867	.04659	.00136	-.00066	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17407	--	--	--	--	--	--
SDev	258.3329	--	--	--	--	--	--
%RSD	1.484109	--	--	--	--	--	--
#1	17682	--	--	--	--	--	--
#2	17367	--	--	--	--	--	--
#3	17170	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00002	.00131	-.02915	.01107	.00064	.00123	
SDev	.00015	.00070	.00259	.00123	.00067	.00068	
%RSD	590.10	53.164	8.8789	11.102	105.17	55.530	
#1	.00014	.00212	-.02648	.01241	.00054	.00183	
#2	-.00011	.00092	-.03165	.00999	.00002	.00048	
#3	-.00011	.00090	-.02933	.01081	.00136	.00139	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17813	--	--	--	--	--	--
SDev	249.5581	--	--	--	--	--	--
%RSD	1.401026	--	--	--	--	--	--
#1	17541	--	--	--	--	--	--
#2	18032	--	--	--	--	--	--
#3	17864	--	--	--	--	--	--

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Value	1.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	10.500	10.500	10.500	10.500	10.500	10.500	10.500

Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.0300	2.0180	1.9103	1.9996	.51105	.50463	
SDev	.0027	.0014	.0122	.0089	.00334	.00419	
%RSD	.13119	.06872	.63718	.44544	.65450	.83120	

#1	2.0275	2.0195	1.8966	1.9977	.51109	.50749	
#2	2.0298	2.0167	1.9199	1.9918	.50769	.49981	
#3	2.0328	2.0179	1.9145	2.0093	.51438	.50659	

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	
Value	2.0000	2.0000	2.0000	2.0000	.50000	.50000	
Range	10.500	10.500	10.500	10.500	10.500	10.500	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17852	--	--	--	--	--	--
SDev	71.40159	--	--	--	--	--	--
%RSD	.3999530	--	--	--	--	--	--

#1	17935	--	--	--	--	--	--
#2	17806	--	--	--	--	--	--
#3	17817	--	--	--	--	--	--

High	.00850	.00450	.00220	.04400	.00650	.00120	.00042
Low	-.00850	-.00450	-.00220	-.04400	-.00650	-.00120	-.00042
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00033	.00045	L-.05364	-.00040	.00042	.00200	
SDev	.00052	.00042	.00271	.00099	.00088	.00107	
%RSD	156.78	91.544	5.0529	246.77	207.22	53.334	
#1	.00092	.00072	L-.05128	-.00011	.00102	.00106	
#2	.00010	-.00003	L-.05305	-.00151	.00084	.00316	
#3	-.00003	.00067	L-.05660	.00041	-.00059	.00179	
Errors	LC Pass	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	
High	.00100	.00550	.03700	.01900	.00350	.00430	
Low	-.00100	-.00550	-.03700	-.01900	-.00350	-.00430	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18357	--	--	--	--	--	--
SDev	11.67163	--	--	--	--	--	--
%RSD	.0635806	--	--	--	--	--	--
#1	18348	--	--	--	--	--	--
#2	18354	--	--	--	--	--	--
#3	18370	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00075	.00214	.03974	.01260	.00014	.00029
SDev	.00014	.00111	.00265	.00186	.00036	.00105
%RSD	18.231	51.843	6.6709	14.761	252.96	365.53

#1	.00075	.00317	.04235	.01200	.00053	-.00092
#2	.00061	.00228	.03983	.01469	-.00019	.00100
#3	.00088	.00097	.03705	.01112	.00010	.00078

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17066	--	--	--	--	--	--
SDev	131.4721	--	--	--	--	--	--
%RSD	.7703967	--	--	--	--	--	--

#1	17176	--	--	--	--	--	--
#2	16920	--	--	--	--	--	--
#3	17101	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00090	.00276	1.0620	.73311	.00765	.03744	
SDev	.00016	.00074	.0102	.01045	.00010	.00063	
%RSD	17.378	26.942	.96241	1.4252	1.3640	1.6796	
#1	.00081	.00331	1.0665	.74516	.00766	.03782	
#2	.00108	.00191	1.0692	.72653	.00754	.03779	
#3	.00081	.00307	1.0503	.72764	.00775	.03672	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17266	--	--	--	--	--	--
SDev	146.6552	--	--	--	--	--	--
%RSD	.8493809	--	--	--	--	--	--
#1	17139	--	--	--	--	--	--
#2	17232	--	--	--	--	--	--
#3	17427	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00061	.00228	1.0583	.72047	.00773	.03614
SDev	.00022	.00124	.0028	.00497	.00104	.00032
%RSD	37.018	54.419	.26024	.69038	13.485	.89469

#1	.00073	.00106	1.0613	.71549	.00654	.03651
#2	.00035	.00354	1.0559	.72544	.00815	.03599
#3	.00074	.00223	1.0577	.72049	.00850	.03592

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17997	--	--	--	--	--	--
SDev	273.7679	--	--	--	--	--	--
%RSD	1.521203	--	--	--	--	--	--

#1	18268	--	--	--	--	--	--
#2	18002	--	--	--	--	--	--
#3	17720	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00018	.00149	.18923	.04186	.00109	.00314	
SDev	.00015	.00191	.00307	.00296	.00066	.00167	
%RSD	83.326	128.64	1.6241	7.0794	60.445	53.139	
#1	.00001	.00133	.19019	.03855	.00053	.00135	
#2	.00027	.00347	.18579	.04425	.00093	.00341	
#3	.00027	-.00035	.19171	.04279	.00182	.00465	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17395	--	--	--	--	--	--
SDev	47.87653	--	--	--	--	--	--
%RSD	.2752239	--	--	--	--	--	--
#1	17451	--	--	--	--	--	--
#2	17366	--	--	--	--	--	--
#3	17370	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00022	.00093	.18165	.04106	.00150	.00344	
SDev	.00004	.00072	.00137	.00052	.00034	.00112	
%RSD	17.425	78.174	.75237	1.2756	22.949	32.554	
#1	.00020	.00053	.18313	.04061	.00139	.00357	
#2	.00020	.00049	.18043	.04095	.00122	.00450	
#3	.00027	.00176	.18138	.04164	.00188	.00227	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17072	--	--	--	--	--	--
SDev	117.1919	--	--	--	--	--	--
%RSD	.6864492	--	--	--	--	--	--
#1	16984	--	--	--	--	--	--
#2	17205	--	--	--	--	--	--
#3	17027	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00022	.00086	.17413	.03310	.00033	.00085
SDev	.00016	.00063	.00104	.00081	.00068	.00123
%RSD	70.143	72.932	.59737	2.4337	206.99	144.47

#1	.00013	.00024	.17484	.03368	.00073	.00031
#2	.00014	.00085	.17461	.03218	.00070	.00226
#3	.00041	.00149	.17294	.03345	-.00045	-.00002

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17125	--	--	--	--	--	--
SDev	85.75280	--	--	--	--	--	--
%RSD	.5007387	--	--	--	--	--	--

#1	17051	--	--	--	--	--	--
#2	17219	--	--	--	--	--	--
#3	17105	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00036	-.00003	.10616	.01719	.00026	.00061	
SDev	.00016	.00105	.00560	.00175	.00015	.00184	
%RSD	43.650	3365.8	5.2787	10.194	58.096	302.76	
#1	.00028	-.00000	.10035	.01536	.00029	-.00147	
#2	.00026	-.00109	.10659	.01736	.00038	.00125	
#3	.00054	.00100	.11154	.01886	.00009	.00204	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17000	--	--	--	--	--	--
SDev	457.2902	--	--	--	--	--	--
%RSD	2.689973	--	--	--	--	--	--
#1	17526	--	--	--	--	--	--
#2	16775	--	--	--	--	--	--
#3	16698	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00043	.00104	.16223	.09214	.00008	.00160	
SDev	.00011	.00123	.00428	.00225	.00075	.00121	
%RSD	24.956	118.56	2.6411	2.4389	929.59	75.715	
#1	.00054	.00086	.15996	.09175	-.00077	.00261	
#2	.00033	.00235	.15956	.09011	.00039	.00192	
#3	.00040	-.00009	.16718	.09455	.00062	.00026	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	16702	--	--	--	--	--	--
SDev	216.9703	--	--	--	--	--	--
%RSD	1.299105	--	--	--	--	--	--
#1	16801	--	--	--	--	--	--
#2	16851	--	--	--	--	--	--
#3	16453	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00001	.00089	-.00422	.00592	.00050	.00190	
SDev	.00010	.00073	.00174	.00170	.00024	.00078	
%RSD	723.24	81.307	41.191	28.752	49.114	40.957	
#1	-.00009	.00084	-.00474	.00724	.00022	.00243	
#2	.00010	.00020	-.00228	.00400	.00063	.00226	
#3	.00004	.00165	-.00564	.00653	.00065	.00101	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18406	--	--	--	--	--	--
SDev	68.42950	--	--	--	--	--	--
%RSD	.3717854	--	--	--	--	--	--
#1	18356	--	--	--	--	--	--
#2	18377	--	--	--	--	--	--
#3	18484	--	--	--	--	--	--

Analysis Report

QC Standard

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Value	1.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	10.500	10.500	10.500	10.500	10.500	10.500	10.500

Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.0161	1.9903	1.8908	2.0030	.49912	.49611	
SDev	.0096	.0100	.0040	.0219	.00346	.00216	
%RSD	.47440	.50144	.20959	1.0952	.69326	.43449	

#1	2.0051	1.9790	1.8863	1.9780	.49941	.49813	
#2	2.0223	1.9942	1.8937	2.0121	.49553	.49384	
#3	2.0209	1.9978	1.8925	2.0189	.50243	.49636	

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	
Value	2.0000	2.0000	2.0000	2.0000	.50000	.50000	
Range	10.500	10.500	10.500	10.500	10.500	10.500	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18212	--	--	--	--	--	--
SDev	155.4268	--	--	--	--	--	--
%RSD	.8534350	--	--	--	--	--	--

#1	18145	--	--	--	--	--	--
#2	18390	--	--	--	--	--	--
#3	18101	--	--	--	--	--	--

High	.00850	.00450	.00220	.04400	.00650	.00120	.00042
Low	-.00850	-.00450	-.00220	-.04400	-.00650	-.00120	-.00042

Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00000	-.00003	L-.05399	-.00405	.00076	.00227	
SDev	.00021	.00025	.00352	.00205	.00029	.00082	
%RSD	5150.1	832.76	6.5133	50.713	38.428	36.144	

#1	.00023	-.00013	L-.05116	-.00619	.00050	.00322	
#2	-.00020	-.00022	L-.05793	-.00385	.00107	.00175	
#3	-.00002	.00026	L-.05288	-.00210	.00070	.00185	

Errors	LC Pass	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	
High	.00100	.00550	.03700	.01900	.00350	.00430	
Low	-.00100	-.00550	-.03700	-.01900	-.00350	-.00430	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18771	--	--	--	--	--	--
SDev	203.1142	--	--	--	--	--	--
%RSD	1.082078	--	--	--	--	--	--

#1	18704	--	--	--	--	--	--
#2	18999	--	--	--	--	--	--
#3	18609	--	--	--	--	--	--

Method: TRA20607 Sample Name: J8G4AB

Operator:

Run Time: 10/17/07 16:33:03

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01426	.00236	.00076	.00025	.00045	.00042	.02965
SDev	.00238	.00183	.00238	.00012	.00040	.00004	.00304
%RSD	16.663	77.580	313.89	46.880	88.229	9.4449	10.244
#1	.01572	.00047	-.00091	.00015	.00017	.00044	.02747
#2	.01555	.00412	.00348	.00021	.00027	.00045	.02836
#3	.01152	.00249	-.00030	.00037	.00090	.00038	.03312
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20000	.03000	.01000	.00500	.00500	.00250	2.5000
Low	-.20000	-.03000	-.01000	-.00500	-.00500	-.00250	-2.5000
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00033	.00042	-.00002	.02872	.00101	-.00181	.01039
SDev	.00015	.00038	.00034	.00723	.00189	.00109	.00500
%RSD	44.063	90.674	1611.2	25.186	187.29	60.373	48.167
#1	.00050	.00016	-.00036	.02639	.00220	-.00262	.00502
#2	.00024	.00085	.00032	.03683	.00200	-.00225	.01123
#3	.00025	.00024	-.00002	.02294	-.00117	-.00057	.01493
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.00750	.02500	.01250	.10000			2.5000
Low	-.00750	-.02500	-.01250	-.10000			-2.5000
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00083	.09559	.00081	.00180	.00122	-.00894	-.78617
SDev	.00009	.01134	.00034	.00171	.00116	.00073	.18052
%RSD	11.102	11.867	41.702	95.170	95.290	8.1256	22.962
#1	.00075	.09960	.00092	.00028	.00207	-.00891	-.99229
#2	.00080	.10438	.00108	.00365	-.00011	-.00824	-.65622
#3	.00093	.08279	.00043	.00145	.00170	-.00969	-.71000
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	.00750	2.5000	.02000			.01000	2.5000
Low	-.00750	-2.5000	-.02000			-.01000	-2.5000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00489	.00107	.00362	H126.46	.00162	.00018	.00013
SDev	.00177	.00131	.00014	1.11	.00061	.00015	.00015
%RSD	36.221	122.24	3.8175	.87421	37.959	80.412	112.21
#1	-.00611	.00046	.00351	H127.63	.00206	.00011	.00002
#2	-.00286	.00258	.00358	H125.43	.00188	.00008	.00008
#3	-.00571	.00018	.00378	H126.32	.00092	.00035	.00030
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass

High	.01000	.01250	.02000	.10000	.02000	.02500	.02500
Low	-.01000	-.01250	-.02000	-.10000	-.02000	-.02500	-.02500

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00040	.00482	H31.622	.00935	-.00048	.00180
SDev	.00020	.00039	.375	.00077	.00014	.00025
%RSD	50.594	8.0084	1.1871	8.2743	28.123	13.807

#1	.00017	.00509	H31.560	.00978	-.00064	.00190
#2	.00048	.00500	H32.025	.00981	-.00041	.00152
#3	.00054	.00438	H31.282	.00846	-.00040	.00198

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	.02500	.05000	.25000	.15000	.00400	.00500
Low	-.02500	-.05000	-.25000	-.15000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18874	--	--	--	--	--	--
SDev	227.1833	--	--	--	--	--	--
%RSD	1.203702	--	--	--	--	--	--

#1	18706	--	--	--	--	--	--
#2	18783	--	--	--	--	--	--
#3	19132	--	--	--	--	--	--

Method: TRA20607 Sample Name: J8G4AC

Operator:

Run Time: 10/17/07 16:39:10

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9598	.47761	.09482	.10395	.04853	.04849	48.132
SDev	.0118	.00409	.00215	.00092	.00052	.00072	.703
%RSD	.60444	.85694	2.2672	.88729	1.0672	1.4886	1.4603
#1	1.9476	.47614	.09241	.10289	.04795	.04775	47.330
#2	1.9603	.47446	.09655	.10435	.04869	.04854	48.421
#3	1.9713	.48224	.09551	.10461	.04895	.04919	48.644
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.4098	.60245	.12049	.12049	.06024	.06024	60.245
Low	1.5902	.39755	.07951	.07951	.03976	.03976	39.755
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.19678	.09704	.24646	.97950	.10084	.09542	8.9485
SDev	.00327	.00174	.00189	.01294	.00251	.00066	.1270
%RSD	1.6612	1.7969	.76517	1.3213	2.4917	.69112	1.4188
#1	.19308	.09515	.24440	.96558	.09818	.09468	8.8106
#2	.19798	.09737	.24688	.98175	.10118	.09562	8.9741
#3	.19928	.09859	.24811	.99117	.10317	.09596	9.0606
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.24098	.12049	.30123	1.2049			12.049
Low	.15902	.07951	.19877	.79510			7.9510
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09895	50.164	.48968	.14035	.13596	.03990	46.537
SDev	.00150	.329	.00788	.00239	.00292	.00181	.225
%RSD	1.5193	.65656	1.6086	1.7002	2.1445	4.5326	.48261
#1	.09739	49.792	.48082	.13866	.13259	.03795	46.323
#2	.09908	50.418	.49235	.14308	.13760	.04024	46.517
#3	.10039	50.283	.49588	.13931	.13768	.04151	46.770
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	.12049		.60245			.06024	60.245
Low	.07951		.39755			.03976	39.755
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.37533	.19583	.50514	127.42	.49699	.10270	.51270
SDev	.00637	.00315	.00554	1.27	.00681	.00044	.00435
%RSD	1.6986	1.6107	1.0965	.99674	1.3707	.42532	.84866
#1	.36798	.19251	.49888	126.10	.48918	.10229	.50774
#2	.37938	.19619	.50715	127.52	.50008	.10316	.51451
#3	.37863	.19878	.50940	128.64	.50170	.10267	.51586
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass

High	.48196	.60245	.60245	.12049	.60245
Low	.31804	.39755	.39755	.07951	.39755

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10151	.49452	H33.305	4.8338	.09771	.13780
SDev	.00110	.00680	3.711	.0314	.00126	.00251
%RSD	1.0796	1.3747	11.142	.64975	1.2931	1.8217

#1	.10029	.48667	H29.150	4.7982	.09632	.13498
#2	.10183	.49840	H34.473	4.8453	.09801	.13980
#3	.10241	.49849	H36.291	4.8578	.09880	.13860

Errors	LC Pass	LC Pass	LC High	NOCHECK	LC Pass	LC Pass
High	.12049	.60245	6.0245		.12049	.18074
Low	.07951	.39755	3.9755		.07951	.11926

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18554	--	--	--	--	--	--
SDev	320.8116	--	--	--	--	--	--
%RSD	1.729101	--	--	--	--	--	--

#1	18899	--	--	--	--	--	--
#2	18496	--	--	--	--	--	--
#3	18266	--	--	--	--	--	--

Method: TRA20607 Sample Name: J8G4AL

Operator:

Run Time: 10/17/07 16:45:16

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9763	.47833	.09569	.10420	.04855	.04930	48.290
SDev	.0272	.00342	.00191	.00037	.00018	.00029	.132
%RSD	1.3757	.71456	1.9926	.35918	.37285	.58359	.27255
#1	1.9882	.47673	.09673	.10399	.04844	.04908	48.428
#2	1.9956	.48226	.09686	.10463	.04845	.04963	48.275
#3	1.9452	.47601	.09349	.10398	.04876	.04920	48.166
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.4098	.60245	.12049	.12049	.06024	.06024	60.245
Low	1.5902	.39755	.07951	.07951	.03976	.03976	39.755
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.19760	.09773	.24837	.97833	.10369	.09494	8.9705
SDev	.00077	.00073	.00154	.00859	.00103	.00077	.0478
%RSD	.39211	.74636	.61978	.87791	.99739	.80959	.53238
#1	.19724	.09705	.24967	.97123	.10401	.09417	8.9798
#2	.19849	.09763	.24878	.98787	.10452	.09571	9.0130
#3	.19706	.09850	.24667	.97588	.10253	.09493	8.9188
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.24098	.12049	.30123	1.2049			12.049
Low	.15902	.07951	.19877	.79510			7.9510
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09929	50.296	.49316	.14216	.13975	.04059	47.030
SDev	.00053	.294	.00096	.00297	.00087	.00081	.581
%RSD	.53359	.58412	.19545	2.0912	.61964	1.9854	1.2363
#1	.09903	50.321	.49205	.14035	.13966	.04141	47.203
#2	.09989	50.577	.49372	.14559	.14066	.04056	47.506
#3	.09893	49.991	.49371	.14055	.13894	.03980	46.382
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	.12049		.60245			.06024	60.245
Low	.07951		.39755			.03976	39.755
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.38541	.19692	.50742	127.65	.49921	.10344	.51465
SDev	.00330	.00080	.00115	1.05	.00201	.00094	.00105
%RSD	.85626	.40767	.22697	.82065	.40345	.91240	.20329
#1	.38666	.19601	.50800	128.21	.49999	.10378	.51560
#2	.38790	.19754	.50817	128.30	.49692	.10418	.51352
#3	.38167	.19721	.50609	126.44	.50071	.10238	.51482
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass

High	.48196	.60245	.60245	.12049	.60245
Low	.31804	.39755	.39755	.07951	.39755

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10174	.49183	H34.233	4.8156	.09838	.14095
SDev	.00032	.00146	3.676	.0371	.00066	.00152
%RSD	.31729	.29634	10.737	.77112	.66741	1.0774

#1	.10209	.49163	H30.023	4.8104	.09800	.14033
#2	.10168	.49337	H35.868	4.8551	.09913	.14269
#3	.10146	.49047	H36.807	4.7813	.09799	.13985

Errors	LC Pass	LC Pass	LC High	NOCHECK	LC Pass	LC Pass
High	.12049	.60245	6.0245		.12049	.18074
Low	.07951	.39755	3.9755		.07951	.11926

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18382	--	--	--	--	--	--
SDev	218.7924	--	--	--	--	--	--
%RSD	1.190247	--	--	--	--	--	--

#1	18196	--	--	--	--	--	--
#2	18327	--	--	--	--	--	--
#3	18623	--	--	--	--	--	--

Method: TRA20607 Sample Name: J8DJN

Operator:

Run Time: 10/17/07 16:51:23

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	H522.63	.09447	.46007	10.205	.04782	.74749	H400.12
SDev	2.94	.00756	.00209	.041	.00009	.00562	2.77
%RSD	.56264	8.0020	.45498	.40420	.17767	.75153	.69294
#1	H524.47	.08714	.46170	10.252	.04791	.75236	H402.72
#2	H519.24	.10224	.46080	10.180	.04783	.74135	H397.20
#3	H524.18	.09401	.45771	10.182	.04774	.74876	H400.44
Errors	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High
High	500.00	20.000	30.000	20.000	10.000	40.000	300.00
Low	-.20000	-.06000	-.01000	-.01000	-.00500	-.00500	-5.0000
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.84544	.30959	3.4370	679.90	16.626	16.776	91.227
SDev	.00460	.00162	.0215	4.20	.214	.124	.657
%RSD	.54372	.52449	.62558	.61776	1.2863	.73664	.72025
#1	.85031	.31145	3.4616	684.34	16.860	16.864	91.926
#2	.84117	.30844	3.4216	675.99	16.441	16.635	90.622
#3	.84486	.30889	3.4279	679.36	16.576	16.829	91.132
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	40.000	40.000	50.000	1000.0			700.00
Low	-.01000	-.05000	-.02500	-.10000			-5.0000
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	H55.683	H201.66	.78380	.06296	-.00521	.04855	66.907
SDev	.455	2.64	.00477	.00736	.00196	.00075	.644
%RSD	.81632	1.3072	.60860	11.692	37.715	1.5363	.96297
#1	H56.080	H204.65	.78892	.06980	-.00727	.04929	67.632
#2	H55.187	199.65	.77949	.05517	-.00498	.04779	66.400
#3	H55.781	H200.69	.78299	.06392	-.00336	.04856	66.690
Errors	LC High	LC High	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20.000	200.00	40.000			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.01000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.01684	1.0629	H19.751	H81.902	.13293	.53985	1.9267
SDev	.00396	.0045	.247	.078	.00249	.00585	.0070
%RSD	23.513	.42305	1.2508	.09537	1.8729	1.0838	.36234
#1	L-.01915	1.0673	H19.950	H81.844	.13005	.54656	1.9348
#2	L-.01227	1.0631	H19.474	H81.991	.13438	.53582	1.9223
#3	L-.01911	1.0583	H19.828	H81.871	.13435	.53716	1.9231
Errors	LC Low	LC Pass	LC High	LC High	LC Pass	LC Pass	LC Pass

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	21.034	.15254	H104.77	8.7689	16.726	.01785
SDev	.061	.00237	2.19	.0193	.147	.00214
%RSD	.29056	1.5564	2.0890	.22058	.88065	11.963

#1	21.052	.15095	H107.16	8.7904	16.864	.01873
#2	20.966	.15527	H104.30	8.7529	16.571	.01542
#3	21.084	.15140	H102.86	8.7635	16.745	.01942

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	21265	--	--	--	--	--	--
SDev	143.3600	--	--	--	--	--	--
%RSD	.6741602	--	--	--	--	--	--

#1	21170	--	--	--	--	--	--
#2	21430	--	--	--	--	--	--
#3	21195	--	--	--	--	--	--

Method: TRA20607 Sample Name: J8DJNX

Operator:

Run Time: 10/17/07 16:57:30

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	H557.25	.13801	.58523	11.904	.03547	.70246	H358.14
SDev	3.51	.00513	.00250	.039	.00015	.00437	1.10
%RSD	.62915	3.7192	.42717	.32697	.43691	.62242	.30811
#1	H555.29	.14288	.58280	11.891	.03561	.69898	H357.10
#2	H555.17	.13851	.58780	11.874	.03550	.70103	H358.03
#3	H561.30	.13265	.58511	11.948	.03531	.70736	H359.30
Errors	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High
High	500.00	20.000	30.000	20.000	10.000	40.000	300.00
Low	-.20000	-.06000	-.01000	-.01000	-.00500	-.00500	-5.0000
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.98916	.33827	4.3122	776.35	20.855	21.017	83.629
SDev	.00443	.00175	.0198	3.46	.197	.207	.430
%RSD	.44750	.51587	.45960	.44580	.94680	.98494	.51359
#1	.98932	.33988	4.3034	776.38	20.670	20.802	83.479
#2	.98465	.33642	4.2983	772.87	20.833	21.036	83.295
#3	.99350	.33852	4.3349	779.79	21.063	21.214	84.114
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	40.000	40.000	50.000	1000.0			700.00
Low	-.01000	-.05000	-.02500	-.10000			-5.0000
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	H60.667	H231.61	.77608	.06946	-.01019	.07696	78.823
SDev	.447	2.89	.00348	.00513	.00377	.00796	.875
%RSD	.73628	1.2478	.44854	7.3915	37.023	10.345	1.1107
#1	H60.723	H229.69	.77411	.06492	-.00598	.07216	78.365
#2	H60.195	H230.20	.77402	.06843	-.01130	.07258	78.271
#3	H61.082	H234.93	.78010	.07503	-.01328	.08616	79.832
Errors	LC High	LC High	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20.000	200.00	40.000			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.01000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00588	1.2433	H20.908	H108.62	.10937	.57936	2.5066
SDev	.00555	.0034	.205	.39	.00217	.00515	.0014
%RSD	94.410	.27669	.98080	.35612	1.9882	.88884	.05460
#1	.00015	1.2437	H20.794	H108.87	.11182	.57613	2.5066
#2	-.00703	1.2397	H20.786	H108.17	.10863	.57666	2.5052
#3	L-.01078	1.2465	H21.145	H108.81	.10766	.58530	2.5079
Errors	LC Pass	LC Pass	LC High	LC High	LC Pass	LC Pass	LC Pass

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.786	.12621	H253.38	9.2426	20.964	.01669
SDev	.110	.00310	1.48	.0451	.203	.00120
%RSD	.44426	2.4593	.58453	.48809	.96890	7.2076

#1	24.691	.12957	H253.28	9.2194	20.758	.01798
#2	24.760	.12563	H251.95	9.2138	20.969	.01560
#3	24.907	.12344	H254.90	9.2946	21.164	.01648

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20045	--	--	--	--	--	--
SDev	99.83381	--	--	--	--	--	--
%RSD	.4980535	--	--	--	--	--	--

#1	20095	--	--	--	--	--	--
#2	20109	--	--	--	--	--	--
#3	19930	--	--	--	--	--	--

Method: TRA20607 Sample Name: J8DJ7

Operator:

Run Time: 10/17/07 17:03:36

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	H631.71	.05753	.31543	4.5798	.03724	.15629	H425.71
SDev	9.41	.00289	.00216	.0468	.00028	.00106	4.74
%RSD	1.4901	5.0181	.68478	1.0221	.76056	.67622	1.1142
#1	H626.24	.05585	.31440	4.5600	.03713	.15509	H423.42
#2	H626.30	.05588	.31397	4.5462	.03703	.15669	H422.55
#3	H642.58	.06087	.31791	4.6333	.03756	.15708	H431.17
Errors	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High
High	500.00	20.000	30.000	20.000	10.000	40.000	300.00
Low	-.20000	-.06000	-.01000	-.01000	-.00500	-.00500	-5.0000
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0128	.19152	.90017	600.63	2.1396	2.1681	121.28
SDev	.0117	.00247	.00944	7.08	.0199	.0164	1.50
%RSD	1.1567	1.2909	1.0488	1.1785	.93177	.75420	1.2331
#1	1.0086	.19034	.89834	597.54	2.1578	2.1806	120.51
#2	1.0038	.18986	.89177	595.62	2.1183	2.1496	120.32
#3	1.0261	.19436	.91039	608.73	2.1427	2.1741	123.00
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	40.000	40.000	50.000	1000.0			700.00
Low	-.01000	-.05000	-.02500	-.10000			-5.0000
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	H25.761	H289.87	.66407	.02001	-.03206	.00242	79.300
SDev	.244	5.97	.00770	.00344	.00578	.00042	1.354
%RSD	.94541	2.0582	1.1596	17.198	18.032	17.543	1.7079
#1	H25.712	H286.24	.66048	.02396	-.03749	.00254	78.445
#2	H25.546	H286.63	.65882	.01767	-.02598	.00195	78.593
#3	H26.026	H296.76	.67291	.01840	-.03271	.00278	80.861
Errors	LC High	LC High	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20.000	200.00	40.000			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.01000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00627	1.1468	H19.438	H107.51	.07348	.60994	1.7635
SDev	.00666	.0181	.154	1.05	.00245	.00933	.0219
%RSD	106.19	1.5821	.79194	.97508	3.3312	1.5296	1.2426
#1	-.00021	1.1414	H19.409	H107.06	.07336	.60479	1.7527
#2	L-.01341	1.1320	H19.301	H106.76	.07110	.60432	1.7490
#3	-.00520	1.1670	H19.605	H108.71	.07599	.62071	1.7887
Errors	LC Pass	LC Pass	LC High	LC High	LC Pass	LC Pass	LC Pass

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	22.221	.06560	H133.32	11.871	2.1592	L-.01436	
SDev	.282	.00222	1.28	.129	.0176	.00294	
%RSD	1.2698	3.3904	.96043	1.0829	.81487	20.477	

#1	22.062	.06810	H133.13	11.836	2.1738	L-.01668	
#2	22.053	.06384	H132.15	11.763	2.1396	L-.01105	
#3	22.547	.06485	H134.69	12.013	2.1641	L-.01534	

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Low	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20347	--	--	--	--	--	--
SDev	215.9961	--	--	--	--	--	--
%RSD	1.061588	--	--	--	--	--	--

#1	20449	--	--	--	--	--	--
#2	20492	--	--	--	--	--	--
#3	20098	--	--	--	--	--	--

Method: TRA20607 Sample Name: J8DKT

Operator:

Run Time: 10/17/07 17:09:43

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	H804.29	.03984	.09755	15.246	.03108	.00591	H574.80
SDev	1.86	.00209	.00175	.048	.00020	.00056	1.04
%RSD	.23084	5.2463	1.7890	.31743	.64855	9.5464	.18018
#1	H802.19	.03936	.09850	15.200	.03095	.00655	H573.62
#2	H805.72	.04213	.09863	15.243	.03131	.00548	H575.53
#3	H804.96	.03804	.09554	15.296	.03098	.00570	H575.27
Errors	LC High	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High
High	500.00	20.000	30.000	20.000	10.000	40.000	300.00
Low	-.20000	-.06000	-.01000	-.01000	-.00500	-.00500	-5.0000
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.91989	.21607	.13963	594.52	.21456	.16804	200.31
SDev	.00397	.00093	.00351	2.30	.01075	.02666	.96
%RSD	.43194	.43137	2.5116	.38671	5.0108	15.864	.47829
#1	.91546	.21500	.14312	591.92	.22566	.19211	199.26
#2	.92109	.21669	.13966	595.37	.21383	.17262	200.54
#3	.92313	.21652	.13611	596.28	.20420	.13939	201.14
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	40.000	40.000	50.000	1000.0			700.00
Low	-.01000	-.05000	-.02500	-.10000			-5.0000
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	19.058	H356.54	.71520	.01386	-.05164	-.00360	101.21
SDev	.050	1.02	.00226	.00465	.00261	.00012	.41
%RSD	.26045	.28530	.31540	33.554	5.0477	3.2228	.40770
#1	19.002	H355.96	.71277	.00902	-.04863	-.00357	100.75
#2	19.096	H357.72	.71722	.01830	-.05332	-.00351	101.53
#3	19.077	H355.94	.71560	.01426	-.05296	-.00373	101.36
Errors	LC Pass	LC High	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20.000	200.00	40.000			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.01000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	L-.01306	1.4679	1.8187	H104.49	.02653	.57297	4.7588
SDev	.00590	.0006	.2503	.48	.00106	.00035	.0105
%RSD	45.184	.04297	13.762	.46241	3.9967	.06104	.22099
#1	L-.01419	1.4684	2.0723	H103.94	.02771	.57301	4.7469
#2	L-.01830	1.4680	1.8119	H104.85	.02621	.57260	4.7666
#3	-.00667	1.4672	1.5719	H104.68	.02567	.57330	4.7629
Errors	LC Low	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	19.381	.05494	H63.054	10.816	.18402	L-.02947	
SDev	.041	.00179	.294	.059	.02135	.00062	
%RSD	.20961	3.2639	.46697	.54297	11.605	2.1039	

#1	19.337	.05656	H63.360	10.750	.20377	L-.02909	
#2	19.387	.05524	H63.031	10.862	.18693	L-.02913	
#3	19.418	.05301	H62.772	10.836	.16136	L-.03018	

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Low	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20526	--	--	--	--	--	--
SDev	15.44295	--	--	--	--	--	--
%RSD	.0752362	--	--	--	--	--	--

#1	20512	--	--	--	--	--	--
#2	20543	--	--	--	--	--	--
#3	20523	--	--	--	--	--	--

Analysis Report

10/17/07 05:21:53 PM

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Method: TRA20607 Sample Name: J8DLE

Operator:

Run Time: 10/17/07 17:15:50

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	89.148	.05935	.29107	8.3360	.00921	.01073	H737.16
SDev	2.294	.00183	.00241	.0423	.00014	.00011	12.46
%RSD	2.5737	3.0788	.82908	.50728	1.5141	1.0577	1.6901

#1	91.402	.05730	.29024	8.3517	.00937	.01067	H742.74
#2	89.226	.05994	.28918	8.3681	.00909	.01086	H722.89
#3	86.815	.06080	.29379	8.2881	.00918	.01066	H745.86

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High
High	500.00	20.000	30.000	20.000	10.000	40.000	300.00
Low	-.20000	-.06000	-.01000	-.01000	-.00500	-.00500	-5.0000

Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.86500	.14126	.29560	251.95	.43835	.42167	252.99
SDev	.00981	.00202	.00198	3.34	.00558	.00575	3.34
%RSD	1.1340	1.4280	.67140	1.3276	1.2725	1.3643	1.3209

#1	.87123	.14257	.29470	254.88	.44477	.42577	254.68
#2	.85369	.13894	.29787	248.30	.43566	.41510	249.14
#3	.87008	.14227	.29422	252.66	.43463	.42415	255.16

Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	40.000	40.000	50.000	1000.0			700.00
Low	-.01000	-.05000	-.02500	-.10000			-5.0000

Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	H44.698	H268.98	.37444	.03587	-.00243	.00000	61.116
SDev	.820	2.02	.00410	.00137	.00212	.00079	.522
%RSD	1.8337	.74960	1.0944	3.8157	87.298	17463.	.85459

#1	H45.237	H267.96	.37586	.03449	-.00344	.00043	60.766
#2	H43.755	H271.30	.36982	.03723	-.00386	-.00091	61.716
#3	H45.103	H267.68	.37764	.03589	.00001	.00049	60.865

Errors	LC High	LC High	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20.000	200.00	40.000			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.01000	-5.0000

Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00052	1.0507	2.5372	H108.88	.07656	.27036	1.7462
SDev	.00508	.0138	.0583	.82	.00077	.00371	.0097
%RSD	977.41	1.3111	2.2977	.75231	1.0110	1.3719	.55720

#1	.00200	1.0538	2.6045	H109.83	.07697	.26892	1.7537
#2	.00470	1.0356	2.5036	H108.40	.07567	.27458	1.7496
#3	-.00514	1.0627	2.5034	H108.42	.07704	.26759	1.7352

Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
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High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	17.972	.10187	H647.43	4.7401	.42772	.01070
SDev	.069	.00047	3.64	.0117	.00513	.00143
%RSD	.38244	.46312	.56224	.24660	1.1984	13.366

#1	18.022	.10203	H648.55	4.7422	.43256	.00960
#2	17.894	.10224	H643.36	4.7275	.42235	.01017
#3	18.001	.10134	H650.38	4.7506	.42825	.01231

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19664	--	--	--	--	--	--
SDev	179.7357	--	--	--	--	--	--
%RSD	.9140309	--	--	--	--	--	--

#1	19504	--	--	--	--	--	--
#2	19859	--	--	--	--	--	--
#3	19629	--	--	--	--	--	--

Method: TRA20607 Sample Name: J8DJNP

Operator:

Run Time: 10/17/07 17:21:56

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	160.30	.02226	.10941	2.6232	.01248	.18507	127.21
SDev	1.36	.00293	.00199	.0268	.00005	.00109	2.58
%RSD	.84655	13.161	1.8214	1.0200	.43033	.58921	2.0306
#1	161.83	.01890	.10948	2.6523	.01246	.18381	129.77
#2	159.25	.02429	.11137	2.6177	.01244	.18572	127.27
#3	159.81	.02359	.10739	2.5996	.01254	.18567	124.60
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	20.000	30.000	20.000	10.000	40.000	300.00
Low	-.20000	-.06000	-.01000	-.01000	-.00500	-.00500	-5.0000
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21590	.07740	.75989	174.60	4.0820	4.1228	29.246
SDev	.00182	.00059	.00295	.48	.0124	.0436	.627
%RSD	.84093	.76052	.38802	.27398	.30391	1.0578	2.1435
#1	.21740	.07732	.76186	174.81	4.0772	4.0728	29.875
#2	.21642	.07802	.75650	174.93	4.0727	4.1422	29.243
#3	.21388	.07685	.76131	174.05	4.0960	4.1533	28.621
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	40.000	40.000	50.000	1000.0			700.00
Low	-.01000	-.05000	-.02500	-.10000			-5.0000
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	H20.272	49.748	.19720	.01665	.00323	.00745	16.446
SDev	.073	1.060	.00145	.00396	.00216	.00026	.282
%RSD	.35865	2.1298	.73593	23.769	67.004	3.5175	1.7141
#1	H20.292	50.960	.19843	.02092	.00101	.00719	16.771
#2	H20.332	49.284	.19756	.01595	.00335	.00745	16.305
#3	H20.191	48.999	.19560	.01310	.00533	.00771	16.263
Errors	LC High	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20.000	200.00	40.000			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.01000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00362	.26947	H25.358	21.306	.03097	.12609	.49495
SDev	.00390	.00205	.121	.306	.00020	.00172	.00694
%RSD	107.57	.76174	.47911	1.4374	.64383	1.3628	1.4018
#1	.00585	.27175	H25.231	21.617	.03079	.12805	.50249
#2	.00590	.26890	H25.474	21.298	.03093	.12483	.49351
#3	-.00088	.26777	H25.367	21.004	.03118	.12540	.48884
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	5.5634	.03617	H39.428	2.1222	4.1096	.00809	
SDev	.0493	.00073	2.926	.0281	.0312	.00020	
%RSD	.88597	2.0067	7.4210	1.3257	.75833	2.5328	
#1	5.6145	.03543	H42.444	2.1114	4.0747	.00800	
#2	5.5595	.03688	H39.238	2.1541	4.1196	.00795	
#3	5.5162	.03621	H36.601	2.1010	4.1346	.00833	
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19384	--	--	--	--	--	--
SDev	32.56319	--	--	--	--	--	--
%RSD	.1679919	--	--	--	--	--	--
#1	19408	--	--	--	--	--	--
#2	19396	--	--	--	--	--	--
#3	19347	--	--	--	--	--	--

Analysis Report

QC Standard

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Method: TRA20607 Sample Name: CCV4

Operator:

Run Time: 10/17/07 17:28:03

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	26.306	.48100	.48452	2.0400	1.9521	.48666	51.902
SDev	.689	.00251	.00341	.0045	.0305	.00590	.529
%RSD	2.6208	.52207	.70431	.21987	1.5608	1.2119	1.0188
#1	27.022	.47871	.48077	2.0436	1.9183	.47988	52.449
#2	26.251	.48059	.48537	2.0414	1.9606	.49054	51.862
#3	25.646	.48368	.48743	2.0349	1.9774	.48958	51.394
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	25.000	.50000	.50000	2.0000	2.0000	.50000	50.000
Range	10.500	10.500	10.500	10.500	10.500	10.500	10.500
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9203	1.9133	1.9295	26.449	.52031	.52435	47.488
SDev	.0300	.0323	.0057	.385	.01085	.00968	.443
%RSD	1.5637	1.6888	.29648	1.4546	2.0847	1.8470	.93383
#1	1.8879	1.8780	1.9236	26.865	.52990	.53546	47.002
#2	1.9257	1.9203	1.9350	26.376	.52250	.51994	47.594
#3	1.9473	1.9415	1.9301	26.106	.50854	.51766	47.869
Errors	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass
Value	2.0000	2.0000	2.0000	25.000			50.000
Range	10.500	10.500	10.500	10.500			10.500
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q2.2414	50.547	1.9378	.48879	.48209	.95200	47.747
SDev	.0745	.583	.0290	.00409	.00387	.00590	.446
%RSD	3.3217	1.1534	1.4945	.83606	.80350	.61936	.93449
#1	Q2.3224	51.019	1.9049	.48464	.47795	.94527	48.195
#2	Q2.2258	50.727	1.9490	.49281	.48271	.95445	47.742
#3	2.1760	49.895	1.9595	.48891	.48562	.95627	47.303
Errors	QC Fail	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass
Value	2.0000	50.000	2.0000			1.0000	50.000
Range	10.500	10.500	10.500			10.500	10.500
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.98062	1.9396	Q2.4364	Q3.0780	1.9400	1.9948	1.9828
SDev	.00975	.0254	.1396	.1449	.0262	.0164	.0117
%RSD	.99430	1.3114	5.7289	4.7065	1.3528	.82083	.59022
#1	.97038	1.9120	Q2.5876	Q3.2321	1.9106	2.0076	1.9694
#2	.98168	1.9447	Q2.4090	Q3.0575	1.9484	2.0005	1.9876
#3	.98979	1.9621	Q2.3125	Q2.9445	1.9610	1.9764	1.9913
Errors	QC Pass	QC Pass	QC Fail	QC Fail	QC Pass	QC Pass	QC Pass

Analysis Report

QC Standard

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Value	1.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	10.500	10.500	10.500	10.500	10.500	10.500	10.500

Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.1432	1.9419	Q7.9586	1.9732	.52354	.48471	
SDev	.0093	.0298	1.3854	.0167	.00965	.00361	
%RSD	.43287	1.5341	17.407	.84388	1.8438	.74386	

#1	2.1519	1.9083	Q9.4143	1.9578	.53410	.48056	
#2	2.1442	1.9523	Q7.8053	1.9711	.52135	.48646	
#3	2.1334	1.9651	Q6.6563	1.9909	.51517	.48710	

Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	
Value	2.0000	2.0000	2.0000	2.0000	.50000	.50000	
Range	10.500	10.500	10.500	10.500	10.500	10.500	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18296	--	--	--	--	--	--
SDev	71.02097	--	--	--	--	--	--
%RSD	.3881788	--	--	--	--	--	--

#1	18370	--	--	--	--	--	--
#2	18229	--	--	--	--	--	--
#3	18289	--	--	--	--	--	--

High	.00850	.00450	.00220	.04400	.00650	.00120	.00042
Low	-.00850	-.00450	-.00220	-.04400	-.00650	-.00120	-.00042

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	H.03699	H.01314	H2.2077	.01784	H.01299	H.00508
SDev	.00931	.00310	.3205	.00558	.00255	.00123
%RSD	25.164	23.613	14.516	31.291	19.625	24.207

#1	H.04760	H.01670	H2.5504	H.02394	H.01563	H.00618
#2	H.03317	H.01176	H2.1572	.01659	H.01278	.00375
#3	H.03020	H.01098	H1.9155	.01299	H.01055	H.00531

Errors	LC High	LC High	LC High	LC Pass	LC High	LC High
High	.00100	.00550	.03700	.01900	.00350	.00430
Low	-.00100	-.00550	-.03700	-.01900	-.00350	-.00430

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18605	--	--	--	--	--	--
SDev	34.01513	--	--	--	--	--	--
%RSD	.1828304	--	--	--	--	--	--

#1	18629	--	--	--	--	--	--
#2	18566	--	--	--	--	--	--
#3	18619	--	--	--	--	--	--

Analysis Report

QC Standard

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Method: TRA20607 Sample Name: CCV4

Operator:

Run Time: 10/17/07 17:48:13

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.406	.48156	.48629	2.0143	1.9775	.49370	49.016
SDev	.153	.00228	.00483	.0062	.0051	.00463	.066
%RSD	.62677	.47293	.99256	.30704	.25685	.93733	.13483
#1	24.578	.48149	.48536	2.0174	1.9733	.49896	48.970
#2	24.285	.47931	.48199	2.0072	1.9760	.49027	48.986
#3	24.355	.48386	.49151	2.0183	1.9831	.49186	49.091
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	25.000	.50000	.50000	2.0000	2.0000	.50000	50.000
Range	10.500	10.500	10.500	10.500	10.500	10.500	10.500
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9409	1.9343	1.9381	24.470	.49946	.49320	47.245
SDev	.0030	.0036	.0085	.072	.00797	.00460	.136
%RSD	.15618	.18710	.43763	.29474	1.5951	.93226	.28840
#1	1.9425	1.9310	1.9459	24.524	.50768	.49851	47.309
#2	1.9375	1.9337	1.9291	24.388	.49891	.49058	47.089
#3	1.9429	1.9381	1.9393	24.498	.49178	.49051	47.337
Errors	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass
Value	2.0000	2.0000	2.0000	25.000			50.000
Range	10.500	10.500	10.500	10.500			10.500
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9578	50.045	1.9579	.49867	.49168	.96087	47.787
SDev	.0056	.364	.0037	.00581	.00805	.00475	.595
%RSD	.28679	.72824	.18737	1.1660	1.6365	.49438	1.2447
#1	1.9614	50.466	1.9551	.50537	.50084	.96551	48.473
#2	1.9513	49.852	1.9566	.49495	.48578	.95601	47.428
#3	1.9607	49.818	1.9620	.49568	.48841	.96109	47.459
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass
Value	2.0000	50.000	2.0000			1.0000	50.000
Range	10.500	10.500	10.500			10.500	10.500
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0030	1.9558	1.9784	Q2.3787	1.9624	2.0092	1.9909
SDev	.0064	.0054	.0038	.0342	.0108	.0180	.0051
%RSD	.64245	.27465	.19385	1.4384	.54898	.89485	.25586
#1	1.0105	1.9566	1.9778	Q2.4181	1.9526	2.0297	1.9897
#2	.99947	1.9500	1.9749	Q2.3616	1.9606	1.9961	1.9866
#3	.99916	1.9607	1.9825	Q2.3564	1.9739	2.0018	1.9965
Errors	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass

Analysis Report

QC Standard

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Value	1.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	10.500	10.500	10.500	10.500	10.500	10.500	10.500

Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.0601	1.9671	Q2.9872	1.9946	.49571	.49441	
SDev	.0053	.0073	.0809	.0259	.00555	.00728	
%RSD	.25907	.37346	2.7072	1.2986	1.1193	1.4731	

#1	2.0616	1.9607	Q3.0754	1.9917	.50196	.50275	
#2	2.0542	1.9656	Q2.9699	1.9702	.49380	.48928	
#3	2.0645	1.9751	Q2.9165	2.0218	.49137	.49121	

Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	
Value	2.0000	2.0000	2.0000	2.0000	.50000	.50000	
Range	10.500	10.500	10.500	10.500	10.500	10.500	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18055	--	--	--	--	--	--
SDev	335.3612	--	--	--	--	--	--
%RSD	1.857391	--	--	--	--	--	--

#1	17684	--	--	--	--	--	--
#2	18148	--	--	--	--	--	--
#3	18335	--	--	--	--	--	--

Method: TRA20607 Sample Name: CCB4

Operator:

Run Time: 10/17/07 17:59:38

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06037	.00019	.00048	H.00338	H.00316	H.00095	H.10638
SDev	.01314	.00082	.00070	.00098	.00094	.00015	.02345
%RSD	21.761	425.07	147.86	28.958	29.832	16.346	22.046
#1	.07158	.00075	.00079	H.00423	H.00404	H.00108	H.12585
#2	.06362	.00058	.00097	H.00359	H.00328	H.00098	H.11294
#3	.04591	-.00075	-.00033	H.00231	H.00217	H.00078	H.08034
Errors	LC Pass	LC Pass	LC Pass	LC High	LC High	LC High	LC High
High	.09600	.00850	.00330	.00072	.00160	.00063	.02900
Low	-.09600	-.00850	-.00330	-.00072	-.00160	-.00063	-.02900
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00284	H.00289	.00259	H.05717	.00256	.00063	H.07448
SDev	.00134	.00087	.00088	.01024	.00157	.00108	.02000
%RSD	47.223	29.990	34.012	17.914	61.358	171.60	26.848
#1	H.00410	H.00367	.00315	H.06352	.00437	.00143	H.09196
#2	.00298	H.00304	.00306	H.06264	.00175	.00105	H.07881
#3	.00143	.00196	.00158	.04536	.00155	-.00060	H.05267
Errors	LC Pass	LC High	LC Pass	LC High	NOCHECK	NOCHECK	LC High
High	.00310	.00210	.00590	.05000			.02200
Low	-.00310	-.00210	-.00590	-.05000			-.02200
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	H.00582	.19064	H.00273	.00264	.00074	-.00228	-.84057
SDev	.00098	.01043	.00100	.00031	.00087	.00023	.05387
%RSD	16.903	5.4731	36.587	11.725	117.48	10.024	6.4084
#1	H.00660	.19969	H.00342	.00259	-.00021	-.00218	-.85204
#2	H.00615	.19301	H.00319	.00297	.00150	-.00212	-.78189
#3	H.00472	.17923	.00159	.00236	.00095	-.00254	-.88778
Errors	LC High	LC Pass	LC High	NOCHECK	NOCHECK	LC Pass	LC Pass
High	.00130	.21000	.00220			.00950	1.6000
Low	-.00130	-.21000	-.00220			-.00950	-1.6000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00002	.00245	H.00882	H.28088	.00286	H.00322	H.00302
SDev	.00133	.00080	.00113	.01083	.00070	.00098	.00095
%RSD	6124.9	32.767	12.764	3.8561	24.398	30.504	31.546
#1	.00125	.00275	H.00964	H.28991	.00364	H.00412	H.00390
#2	.00020	.00306	H.00929	H.28386	.00265	H.00337	H.00315
#3	-.00139	.00154	H.00754	H.26887	.00229	H.00217	H.00201
Errors	LC Pass	LC Pass	LC High	LC High	LC Pass	LC High	LC High

High	.00850	.00450	.00220	.04400	.00650	.00120	.00042
Low	-.00850	-.00450	-.00220	-.04400	-.00650	-.00120	-.00042

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	H.00389	.00306	H.62173	.00468	.00165	.00177
SDev	.00094	.00073	.02367	.00098	.00114	.00064
%RSD	24.290	23.777	3.8066	20.884	69.271	35.970

#1	H.00476	.00371	H.63578	.00580	.00278	.00110
#2	H.00401	.00321	H.63501	.00408	.00166	.00237
#3	H.00289	.00227	H.59441	.00415	.00050	.00185

Errors	LC High	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	.00100	.00550	.03700	.01900	.00350	.00430
Low	-.00100	-.00550	-.03700	-.01900	-.00350	-.00430

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18486	--	--	--	--	--	--
SDev	60.38728	--	--	--	--	--	--
%RSD	.3266654	--	--	--	--	--	--

#1	18527	--	--	--	--	--	--
#2	18514	--	--	--	--	--	--
#3	18417	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00046	.00092	4.0514	.00321	.00049	.00020
SDev	.00019	.00053	.3240	.00055	.00065	.00032
%RSD	42.231	57.360	7.9971	17.215	133.63	159.43

#1	.00029	.00034	3.6938	.00270	.00117	.00023
#2	.00042	.00105	4.1350	.00315	.00040	.00051
#3	.00067	.00136	4.3254	.00380	-.00011	-.00013

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18477	--	--	--	--	--	--
SDev	104.8536	--	--	--	--	--	--
%RSD	.5674944	--	--	--	--	--	--

#1	18400	--	--	--	--	--	--
#2	18434	--	--	--	--	--	--
#3	18596	--	--	--	--	--	--

Method: TRA20607 Sample Name: J8DJNZ10

Operator:

Run Time: 10/17/07 18:12:14

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	69.194	.01082	.05332	1.2356	.00656	.09278	58.365
SDev	.449	.00035	.00097	.0109	.00012	.00079	.537
%RSD	.64840	3.2504	1.8197	.87939	1.8788	.85133	.92006
#1	69.712	.01118	.05387	1.2478	.00667	.09348	58.981
#2	68.922	.01048	.05389	1.2271	.00643	.09294	58.120
#3	68.948	.01079	.05220	1.2320	.00658	.09192	57.995
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	20.000	30.000	20.000	10.000	40.000	300.00
Low	-.20000	-.06000	-.01000	-.01000	-.00500	-.00500	-5.0000
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10474	.03790	.36881	86.228	2.0457	2.0664	11.755
SDev	.00106	.00068	.00294	.611	.0286	.0184	.076
%RSD	1.0082	1.8033	.79703	.70844	1.3968	.88936	.64535
#1	.10595	.03846	.37220	86.920	2.0738	2.0827	11.842
#2	.10402	.03809	.36695	85.765	2.0468	2.0700	11.704
#3	.10426	.03713	.36729	85.998	2.0166	2.0465	11.718
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	40.000	40.000	50.000	1000.0			700.00
Low	-.01000	-.05000	-.02500	-.10000			-5.0000
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.420	21.878	.09743	.01049	.00100	-.00097	7.2812
SDev	.067	.171	.00108	.00157	.00208	.00074	.1035
%RSD	.64749	.78095	1.1068	14.981	207.87	76.153	1.4217
#1	10.496	22.066	.09840	.01040	.00030	-.00049	7.3747
#2	10.366	21.837	.09763	.00896	-.00064	-.00060	7.2988
#3	10.399	21.731	.09627	.01210	.00334	-.00182	7.1699
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20.000	200.00	40.000			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.01000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00316	.12752	H19.845	10.150	.01584	.05755	.22872
SDev	.00291	.00072	.169	.047	.00046	.00056	.00201
%RSD	92.164	.56206	.85179	.46674	2.8900	.97814	.87862
#1	.00061	.12815	H20.012	10.203	.01632	.05817	.23103
#2	.00254	.12674	H19.850	10.111	.01540	.05741	.22741
#3	.00633	.12768	H19.674	10.135	.01581	.05707	.22771
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.6626	.01875	12.813	1.0628	2.0600	.00454	
SDev	.0221	.00080	.255	.0046	.0217	.00187	
%RSD	.82924	4.2713	1.9889	.43618	1.0546	41.238	
#1	2.6880	.01814	13.085	1.0592	2.0802	.00403	
#2	2.6484	.01846	12.775	1.0612	2.0627	.00298	
#3	2.6513	.01966	12.580	1.0680	2.0371	.00662	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19099	--	--	--	--	--	--
SDev	194.0915	--	--	--	--	--	--
%RSD	1.016232	--	--	--	--	--	--
#1	18916	--	--	--	--	--	--
#2	19079	--	--	--	--	--	--
#3	19302	--	--	--	--	--	--

Method: TRA20607 Sample Name: J8DJNXZ10

Operator:

Run Time: 10/17/07 18:18:32

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	89.801	.01469	.06476	1.4818	.00470	.08306	52.258
SDev	1.127	.00164	.00126	.0107	.00010	.00115	.347
%RSD	1.2550	11.166	1.9371	.72161	2.0401	1.3849	.66497
#1	88.607	.01307	.06448	1.4695	.00467	.08270	52.057
#2	89.950	.01635	.06368	1.4870	.00463	.08214	52.058
#3	90.847	.01467	.06614	1.4889	.00481	.08435	52.660
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	20.000	30.000	20.000	10.000	40.000	300.00
Low	-.20000	-.06000	-.01000	-.01000	-.00500	-.00500	-5.0000
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.11534	.03929	.43832	92.928	2.4690	2.5103	13.920
SDev	.00071	.00060	.00434	.847	.0187	.0312	.140
%RSD	.61772	1.5364	.98965	.91107	.75879	1.2431	1.0074
#1	.11458	.03905	.43348	92.093	2.4539	2.4807	13.777
#2	.11545	.03884	.43963	92.906	2.4632	2.5072	13.927
#3	.11599	.03997	.44185	93.785	2.4900	2.5429	14.057
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	40.000	40.000	50.000	1000.0			700.00
Low	-.01000	-.05000	-.02500	-.10000			-5.0000
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.935	25.305	.09165	.01024	.00001	.00064	8.8458
SDev	.110	.294	.00043	.00261	.00076	.00038	.1827
%RSD	1.0070	1.1602	.46494	25.507	6065.7	58.653	2.0659
#1	10.820	24.967	.09116	.01323	-.00059	.00073	8.7050
#2	10.945	25.448	.09189	.00843	-.00025	.00023	8.7802
#3	11.039	25.499	.09191	.00905	.00087	.00097	9.0523
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20.000	200.00	40.000			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.01000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00135	.13959	H20.820	12.736	.01193	.06336	.30289
SDev	.00284	.00118	.141	.147	.00036	.00079	.00171
%RSD	209.63	.84680	.67858	1.1563	3.0588	1.2526	.56408
#1	.00348	.13847	H20.727	12.566	.01201	.06245	.30126
#2	-.00187	.13946	H20.750	12.815	.01153	.06380	.30274
#3	.00245	.14083	H20.982	12.827	.01224	.06384	.30467
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.9277	.01385	H31.059	1.0782	2.4971	.00380
SDev	.0198	.00086	.512	.0178	.0270	.00068
%RSD	.67519	6.2074	1.6477	1.6489	1.0820	17.773

#1	2.9080	.01423	H30.498	1.0580	2.4723	.00438
#2	2.9275	.01446	H31.179	1.0850	2.4931	.00306
#3	2.9475	.01287	H31.501	1.0915	2.5259	.00396

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19278	--	--	--	--	--	--
SDev	88.43626	--	--	--	--	--	--
%RSD	.4587390	--	--	--	--	--	--

#1	19355	--	--	--	--	--	--
#2	19299	--	--	--	--	--	--
#3	19181	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.6891	.00771	H23.482	1.3834	.25694	.00164
SDev	.0073	.00123	.147	.0064	.00558	.00147
%RSD	.27084	15.937	.62585	.45977	2.1716	89.628

#1	2.6973	.00761	H23.623	1.3876	.26232	.00121
#2	2.6863	.00899	H23.493	1.3866	.25118	.00329
#3	2.6836	.00654	H23.330	1.3761	.25731	.00044

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19107	--	--	--	--	--	--
SDev	134.4886	--	--	--	--	--	--
%RSD	.7038872	--	--	--	--	--	--

#1	19029	--	--	--	--	--	--
#2	19028	--	--	--	--	--	--
#3	19262	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.4563	.00585	11.023	1.3646	.01620	-.00045	
SDev	.0056	.00065	.134	.0088	.00178	.00150	
%RSD	.22664	11.167	1.2187	.64574	10.995	334.56	
#1	2.4511	.00616	10.889	1.3569	.01510	.00127	
#2	2.4557	.00630	11.022	1.3628	.01825	-.00146	
#3	2.4622	.00510	11.157	1.3742	.01524	-.00116	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18821	--	--	--	--	--	--
SDev	33.23779	--	--	--	--	--	--
%RSD	.1766041	--	--	--	--	--	--
#1	18802	--	--	--	--	--	--
#2	18801	--	--	--	--	--	--
#3	18859	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.0944	.01073	H85.376	.55022	.05102	.00247	
SDev	.0170	.00062	.433	.00533	.00070	.00074	
%RSD	.81110	5.7537	.50756	.96862	1.3635	29.943	
#1	2.1122	.01143	H85.876	.54906	.05071	.00329	
#2	2.0783	.01026	H85.149	.54556	.05181	.00184	
#3	2.0925	.01050	H85.103	.55603	.05053	.00228	
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18637	--	--	--	--	--	--
SDev	84.00610	--	--	--	--	--	--
%RSD	.4507386	--	--	--	--	--	--
#1	18545	--	--	--	--	--	--
#2	18659	--	--	--	--	--	--
#3	18709	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.56942	.00336	3.4526	.22664	.43788	.00257
SDev	.00369	.00116	.0968	.00299	.00301	.00076
%RSD	.64783	34.500	2.8034	1.3210	.68813	29.617

#1	.56639	.00283	3.4118	.22928	.43440	.00245
#2	.56834	.00468	3.3829	.22725	.43968	.00338
#3	.57353	.00255	3.5631	.22339	.43956	.00187

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18709	--	--	--	--	--	--
SDev	128.0681	--	--	--	--	--	--
%RSD	.6845089	--	--	--	--	--	--

#1	18576	--	--	--	--	--	--
#2	18720	--	--	--	--	--	--
#3	18832	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.20954	.00127	1.1979	.08180	.16546	.00173
SDev	.00481	.00127	.0276	.00148	.00342	.00076
%RSD	2.2971	100.05	2.3021	1.8158	2.0636	43.996

#1	.20432	.00273	1.1745	.08257	.16215	.00091
#2	.21381	.00045	1.2283	.08274	.16897	.00185
#3	.21049	.00063	1.1908	.08009	.16528	.00242

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18761	--	--	--	--	--	--
SDev	282.3353	--	--	--	--	--	--
%RSD	1.504940	--	--	--	--	--	--

#1	18972	--	--	--	--	--	--
#2	18440	--	--	--	--	--	--
#3	18870	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.32610	.00133	3.7664	.11795	.28253	.00099
SDev	.00031	.00115	.0205	.00305	.00118	.00083
%RSD	.09478	86.478	.54529	2.5865	.41764	84.001

#1	.32575	.00247	3.7492	.11611	.28217	.00160
#2	.32623	.00017	3.7891	.12148	.28157	.00133
#3	.32632	.00135	3.7607	.11628	.28385	.00004

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18771	--	--	--	--	--	--
SDev	69.07134	--	--	--	--	--	--
%RSD	.3679654	--	--	--	--	--	--

#1	18711	--	--	--	--	--	--
#2	18755	--	--	--	--	--	--
#3	18847	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.05617	.00136	.43535	.02705	.04495	.00202	
SDev	.00027	.00055	.01051	.00384	.00082	.00130	
%RSD	.48304	40.303	2.4136	14.183	1.8294	64.706	
#1	.05640	.00108	.44220	.03125	.04589	.00248	
#2	.05623	.00101	.44059	.02620	.04436	.00303	
#3	.05587	.00199	.42325	.02372	.04461	.00054	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18278	--	--	--	--	--	--
SDev	240.4202	--	--	--	--	--	--
%RSD	1.315338	--	--	--	--	--	--
#1	18013	--	--	--	--	--	--
#2	18341	--	--	--	--	--	--
#3	18481	--	--	--	--	--	--

Value	1.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	10.500	10.500	10.500	10.500	10.500	10.500	10.500

Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.0527	1.9851	2.0679	2.0632	.49832	.49232	
SDev	.0042	.0081	.0135	.0185	.00421	.00329	
%RSD	.20309	.40870	.65110	.89795	.84586	.66773	

#1	2.0491	1.9770	2.0729	2.0822	.49394	.48910	
#2	2.0573	1.9933	2.0781	2.0452	.50235	.49567	
#3	2.0517	1.9850	2.0526	2.0624	.49866	.49220	

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	
Value	2.0000	2.0000	2.0000	2.0000	.50000	.50000	
Range	10.500	10.500	10.500	10.500	10.500	10.500	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17873	--	--	--	--	--	--
SDev	92.58301	--	--	--	--	--	--
%RSD	.5179989	--	--	--	--	--	--

#1	17878	--	--	--	--	--	--
#2	17778	--	--	--	--	--	--
#3	17963	--	--	--	--	--	--

High	.00850	.00450	.00220	.04400	.00650	.00120	.00042
Low	-.00850	-.00450	-.00220	-.04400	-.00650	-.00120	-.00042

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00047	.00064	H.09919	.00746	.00083	.00122
SDev	.00119	.00166	.00177	.00199	.00058	.00104
%RSD	252.24	256.60	1.7887	26.669	69.914	84.790

#1	H.00182	.00150	H.10116	.00969	.00035	.00091
#2	-.00043	-.00126	H.09772	.00682	.00148	.00238
#3	.00002	.00170	H.09868	.00587	.00067	.00038

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	.00100	.00550	.03700	.01900	.00350	.00430
Low	-.00100	-.00550	-.03700	-.01900	-.00350	-.00430

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18090	--	--	--	--	--	--
SDev	134.9387	--	--	--	--	--	--
%RSD	.7459199	--	--	--	--	--	--

#1	18244	--	--	--	--	--	--
#2	18033	--	--	--	--	--	--
#3	17993	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00001	.00057	.18878	.04030	.00167	.00120
SDev	.00018	.00041	.00335	.00123	.00033	.00134
%RSD	2381.1	72.654	1.7732	3.0435	19.604	111.31

#1	.00021	.00012	.18621	.04008	.00181	.00165
#2	-.00013	.00094	.19256	.03920	.00190	.00226
#3	-.00007	.00065	.18755	.04163	.00129	-.00030

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17511	--	--	--	--	--	--
SDev	223.2369	--	--	--	--	--	--
%RSD	1.274837	--	--	--	--	--	--

#1	17742	--	--	--	--	--	--
#2	17495	--	--	--	--	--	--
#3	17296	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00053	.00059	-.04214	-.05016	.00106	-.00031	
SDev	.00029	.00184	.00246	.00498	.00028	.00095	
%RSD	54.229	313.70	5.8463	9.9209	26.407	307.05	
#1	.00075	-.00145	-.04404	-.04443	.00129	-.00050	
#2	.00065	.00215	-.04302	-.05345	.00075	.00072	
#3	.00020	.00106	-.03936	-.05259	.00114	-.00115	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	31146	--	--	--	--	--	--
SDev	2843.163	--	--	--	--	--	--
%RSD	9.128411	--	--	--	--	--	--
#1	28320	--	--	--	--	--	--
#2	34006	--	--	--	--	--	--
#3	31113	--	--	--	--	--	--

**TestAmerica Knoxville
ICP Analysis Cover Sheet**

Chart Number:	T101907	Date of Analysis:	10/19/07
Instrument:	ST2	Analyst:	KND

Standard	ID #
Calibration Std. ID #:	
CCV (1:1 dil. of Cal. Std. ID#):	3572-37
ICV ID #:	3571-14
ICSA ID #:	3573A-11
ICSAB ID #:	3573B-11
CRI ID #:	3603-9

<input checked="" type="checkbox"/> Daily	As Needed	Annually
Check that argon manifold gas pressure is 80 psi.	<input type="checkbox"/> Clean nebulizer and drain chamber.	<input type="checkbox"/> Manufacturer service engineer for scheduled preventive maintenance service.
Check that nebulizer is not clogged.	<input type="checkbox"/> Clean filters on back of power unit to remove dust.	<input type="checkbox"/> Change vacuum pump oil on ST1
Check that capillary tubing is clean and in good condition.	Replace when needed: <input type="checkbox"/> peristaltic pump tubing <input type="checkbox"/> sample capillary tubing <input type="checkbox"/> autosampler sipper probe.	
Check that peristaltic pump windings are secure.	<input type="checkbox"/> Clean and lubricate autosampler arm.	
Check that high voltage switch is on.	<input type="checkbox"/> Check that cooling water supply system is full and drain bottle is not full.	
Check that exhaust fans are working.	<input type="checkbox"/> Clean air filter on water cooling system.	
Clean plasma torch assembly to remove accumulated deposits.		
Check spray chamber O-rings		

Comments: _____


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:      Instrument Upload                               Run Log - Page 1 :
:      Started Mon Oct 22 15:03:10 2007 by DAWSONK      :
:      Data File: UPL$KNX_DATA_ROOT:<TJA>T101907.ARC;1  :
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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
1	S0	1	19-OCT-2007	10:34:00			ST2
2	S1	1	19-OCT-2007	10:40:00			ST2
3	S2	1	19-OCT-2007	10:46:00			ST2
4	ICV	1	19-OCT-2007	10:52:00			ST2
5	ICB	1	19-OCT-2007	10:58:00			ST2
6	ICSA1	1	19-OCT-2007	11:04:00			ST2
7	ICSAB1	1	19-OCT-2007	11:11:00			ST2
8	CRDL	1	19-OCT-2007	11:17:00			ST2
9	CCV1	1	19-OCT-2007	11:23:00			ST2
10	CCB1	1	19-OCT-2007	11:29:00			ST2
11	J8RNHBZ3	3.0	19-OCT-2007	11:35:00	7285046	H7J120000	ST2
12	J8RNHCZ5	5.0	19-OCT-2007	11:41:00	7285046	H7J120000	ST2
13	J8RNHLZ5	5.0	19-OCT-2007	11:47:00	7285046	H7J120000	ST2
14	J8DJAZ3	3.0	19-OCT-2007	11:53:00	7285046	H7J050295	ST2
15	J8DJAXZ3	3.0	19-OCT-2007	11:59:00	7285046	H7J050295	ST2
16	J8DJ0Z3	3.0	19-OCT-2007	12:06:00	7285046	H7J050295	ST2
17	J8DKEZ3	3.0	19-OCT-2007	12:12:00	7285046	H7J050295	ST2
18	J8DK7Z3	3.0	19-OCT-2007	12:18:00	7285046	H7J050295	ST2
19	J8DJAP15	1	19-OCT-2007	12:24:00			ST2
20	CCV2	1	19-OCT-2007	12:30:00			ST2
21	CCB2	1	19-OCT-2007	12:36:00			ST2
22	J80QPB	1	19-OCT-2007	12:42:00	7288126	H7J150000	ST2
23	J80QPC	1	19-OCT-2007	12:48:00	7288126	H7J150000	ST2
24	J80QPL	1	19-OCT-2007	12:54:00	7288126	H7J150000	ST2
25	J8DJE	1	19-OCT-2007	13:01:00	7288126	H7J050295	ST2
26	J8DJEX	1	19-OCT-2007	13:07:00	7288126	H7J050295	ST2
27	J8DJ1	1	19-OCT-2007	13:13:00	7288126	H7J050295	ST2
28	J8DKG	1	19-OCT-2007	13:19:00	7288126	H7J050295	ST2
29	J8DK8	1	19-OCT-2007	13:25:00	7288126	H7J050295	ST2
30	J8DJEP	1	19-OCT-2007	13:31:00			ST2
31	CCV3	1	19-OCT-2007	13:37:00			ST2
32	CCB3	1	19-OCT-2007	13:43:00			ST2
33	J83W5B	1	19-OCT-2007	13:49:00	7289443	H7J160000	ST2
34	J83W5C	1	19-OCT-2007	13:56:00	7289443	H7J160000	ST2
35	J83W5L	1	19-OCT-2007	14:02:00	7289443	H7J160000	ST2
36	J8DJG	1	19-OCT-2007	14:08:00	7289443	H7J050295	ST2
37	J8DJGX	1	19-OCT-2007	14:14:00	7289443	H7J050295	ST2
38	J8DJ2	1	19-OCT-2007	14:20:00	7289443	H7J050295	ST2
39	J8DKH	1	19-OCT-2007	14:26:00	7289443	H7J050295	ST2
40	J8DK9	1	19-OCT-2007	14:32:00	7289443	H7J050295	ST2
41	J8DJGP	1	19-OCT-2007	14:38:00			ST2
42	CCV4	1	19-OCT-2007	14:44:00			ST2
43	CCB4	1	19-OCT-2007	14:51:00			ST2
44	J88D3B	1	19-OCT-2007	14:57:00	7291075	H7J180000	ST2

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: Instrument Upload Run Log - Page 2 :
: Started Mon Oct 22 15:03:10 2007 by DAWSONK :
: Data File: UPL\$KNX_DATA_ROOT:<TJA>T101907.ARC;1 :

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
45	J88D3C	1	19-OCT-2007	15:03:00	7291075	H7J180000	ST2
46	J88D3L	1	19-OCT-2007	15:09:00	7291075	H7J180000	ST2
47	J8DJJ	1	19-OCT-2007	15:19:00	7291075	H7J050295	ST2
48	J8DJJX	1	19-OCT-2007	15:25:00	7291075	H7J050295	ST2
49	J8DJ4	1	19-OCT-2007	15:31:00	7291075	H7J050295	ST2
50	J8DKL	1	19-OCT-2007	15:37:00	7291075	H7J050295	ST2
51	J8DLA	1	19-OCT-2007	15:43:00	7291075	H7J050295	ST2
52	J8DJJP	1	19-OCT-2007	15:50:00			ST2
53	CCV5	1	19-OCT-2007	15:56:00			ST2
54	CCB5	1	19-OCT-2007	16:02:00			ST2
55	J8DJAZ20	20.0	19-OCT-2007	16:08:00	7285046	H7J050295	ST2
56	J8DJAXZ20	20.0	19-OCT-2007	16:16:00	7285046	H7J050295	ST2
57	J8DJAP100	1	19-OCT-2007	16:22:00			ST2
58	J8DJEZ50	50.0	19-OCT-2007	16:28:00	7288126	H7J050295	ST2
59	J8DJEXZ50	50.0	19-OCT-2007	16:34:00	7288126	H7J050295	ST2
60	J8DJ1Z10	10.0	19-OCT-2007	16:41:00	7288126	H7J050295	ST2
61	J8DJEP250	1	19-OCT-2007	16:47:00			ST2
62	J8DJGZ50	50.0	19-OCT-2007	16:53:00	7289443	H7J050295	ST2
63	J8DJGXZ50	50.0	19-OCT-2007	16:59:00	7289443	H7J050295	ST2
64	J8DJ2Z10	10.0	19-OCT-2007	17:05:00	7289443	H7J050295	ST2
65	CCV6	1	19-OCT-2007	17:11:00			ST2
66	CCB6	1	19-OCT-2007	17:17:00			ST2
67	J8DJGP250	1	19-OCT-2007	17:23:00			ST2
68	J8DJJZ20	20.0	19-OCT-2007	17:30:00	7291075	H7J050295	ST2
69	J8DJJXZ20	20.0	19-OCT-2007	17:36:00	7291075	H7J050295	ST2
70	J8DJJP100	1	19-OCT-2007	17:42:00			ST2
71	CCV7	1	19-OCT-2007	17:48:00			ST2
72	CCB7	1	19-OCT-2007	17:54:00			ST2

End of Report

STL Knoxville ICP Chart Review Checklist
Method: 6010B/200.7 - KNOX-MT-0007, Rev 7
Page 1 of 2

Chart Name: <u>T101907</u>		Instrument: <u>ST2</u>	
A. Calibration/Instrument Run QC			
1. Instrument calibrated per SOP?	NA	Yes <input checked="" type="checkbox"/>	No
2. ICB analyzed at beginning of run & within acceptance limits? (6010B = 90 - 110%R and <5% RSD) (200.7 = 95 - 105%R and <3% RSD)		Yes <input checked="" type="checkbox"/>	No
3. CCV analyzed at required frequency?		Yes <input checked="" type="checkbox"/>	No
4. CCV within acceptance limits? (6010B & 200.7 = 90 - 110%R and <5% RSD)		Yes <input checked="" type="checkbox"/>	No
5. ICB/CCB analyzed at required frequency?		Yes <input checked="" type="checkbox"/>	No
6. ICB/CCB within acceptance limits? (Water/Soil/Waste for 01/DQ/4U ≤3x std dev of mean blank value & ≤MDL) (Air/SEP/PM10/JN Waste <RL)		Yes <input checked="" type="checkbox"/>	No
7. ICSA/ICSAB run at the beginning of run?		Yes <input checked="" type="checkbox"/>	No
8. ICSAB interferences and analytes within limits? (80 - 120%R)		Yes <input checked="" type="checkbox"/>	No
9. ICSA criteria for non-interfering elements met? (Water/Soil/Waste for 01/DQ +1x RL) (4U/Air/SEP/PM10/JN Waste +2x RL if RL ≤10 µg/L; +1x RL if RL >10 µg/L) If no, list analytes: _____		Yes <input checked="" type="checkbox"/>	No
10. Reporting Limit Check Standard (CRDL) within limits? (Water/Soil/Waste for 01 = 70-130%R) (Water/Soil for DQ = 80-120%R) (4U/Air/SEP/PM10/JN Waste = 50-150%)		Yes <input checked="" type="checkbox"/>	No
11. Were all exposures for the QC standards used?		Yes <input checked="" type="checkbox"/>	No
B. Client Sample and QC Sample Results			
1. Were samples with concentrations > the linear range for any parameter diluted and reanalyzed?		Yes <input checked="" type="checkbox"/>	No
2. For DOD QSM projects (DQ), were samples with concentrations > the high calibration standard for any analyte diluted and reanalyzed?	X		
3. Were RLs elevated due to matrix effects?			No <input checked="" type="checkbox"/>
4. Internal standard (IS) response ± 30% of ICB IS? If no, list details: _____		Yes <input checked="" type="checkbox"/>	No
C. Preparation/Matrix QC			
1. Method blank done per prep batch and within limits? (Waters/Soils/Waste for 01/DQ < ½ RL) (4U/Air/SEP/PM10/JN Waste <RL) If no, list blank ID and reason, i.e. [Autotext]: Blank ID _____ [Autotext] _____ Blank ID _____ [Autotext] _____		Yes <input checked="" type="checkbox"/>	No
2. LCS done per prep batch and within QC limits? If no, list LCS ID: <u>J8RNHC, J8RNHL, J8DQPC, J8DQPL, J83WSC, J83WSL</u>			No <input checked="" type="checkbox"/>
3. MS/MSD or MS/DUP run at required frequency?	X		

STL Knoxville ICP Chart Review Checklist
Method: 6010B/200.7 - KNOX-MT-0007, Rev 7
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Chart Name: T101907

C. Preparation/Matrix QC (continued)	NA	Yes	No	If No, why is data reportable?
4. MS/MSD %R and RPD within QC limits? If no, list MS/MSD ID and [Autotext]: <u>MS/MSD ID</u> <u>[Autotext]</u> <u>MS/MSD ID</u> <u>[Autotext]</u>	X			[ms1] [msd1] LCS acceptable - matrix effects. [ms2] [msd2] Native analyte > 4x spike level. [ms3] [msd3] Matrix effects <u>and</u> native analyte > 4x spike level.
5. PDS or PDS/PDSD analyzed at required frequency? <u>PDS ID</u> <u>Spike Level</u> <u>CLQC or Batch</u>	X			
6. Serial dilution done per prep batch?		X		
7. Was serial dilution reanalyzed at a dilution?		X		Comments: <u>J8DJA P100, J8DJE P250, J8DJG P250, J8DJJ P100</u>
8. Was the original sample analyzed on same chart as serial dilution?		X		If no, list details: _____
D. Other	NA	Yes	No	
1. Are nonconformances documented appropriately?	X			NCM #
2. Calculations checked for error? (Document manual calculation checks in comments section.)		X		
3. All client/project specific requirements met? (Review QuantIMS LIM L40 report, Lot Summary or Client Analysis Summary, and any applicable QAS.)		X		List requirements added since log-in: _____
4. Were all samples labeled correctly in the autosampler table?		X		If no, list details: _____

Reviewed by: KVD Date: 10/23/07

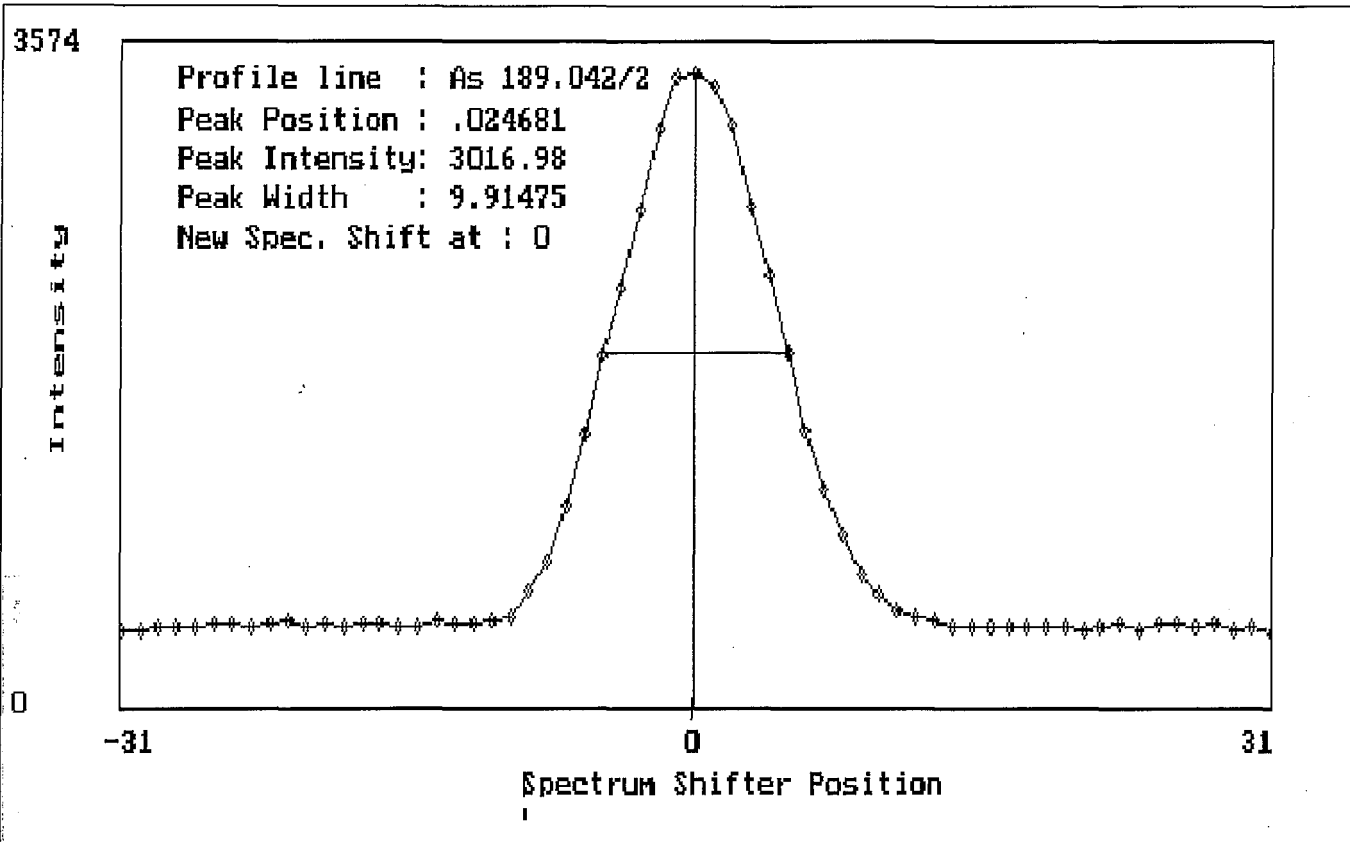
Comments:

Calculation: J8DJA Z3 Cd at 11:53

$$\frac{0.07148 \text{ mg/L} \times 0.05 \text{ DL} \times 25 \text{ mL} \times 3}{0.005 \text{ kg} \times 5 \text{ mL}} = 10.722 \text{ mg/kg}$$

Notes: LCS/LCSD's (J8RNHC (Z5), J8RNHL (Z5), J8DQPC, J8DQPL, J83WSC, J83WSL) failed QC criteria. This may be due to the extraction fluids used.

NOTE: Nonconformance memos are required for **bold** and *italicized* [autotext] statements: **Bold** = deficiency, *italicized* = anomaly



Profile Pos - 254

Table Name: NEW Autosampler Type: TYPE TJA
 Sample Positions: 0/192 QC Positions: 10/19 # Sets: 1
 Rinse Station location is rack -1, pos. -1.

--- Racks ---

Rack #	Type	Usage	#Pos Left	Analyses/Pos
1	Aux. (L) Rack	STD/QC/BLANK	10	10
2	Sample (16mm)	Samples	0	1
3	Sample (16mm)	Samples	0	1
4	Sample (16mm)	Samples	0	1
5	Sample (16mm)	Samples	0	1

--- Sample Sets ---

Set#	Type	Prepare?	Description	Method	#Pos	Rack#	StartPos
1	Normal	No		TRA20607	192	2	1

--- Preparation Info ---

Set#	Uptake	Uptake#2	Final	Dil.Factor
No Samples Prepared.				

Rack #1

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	S0	-NA-	1	Standard
2	1	2	S1	-NA-	1	Standard
3	1	3	S2	-NA-	1	QC Standard
4	1	4	ICV	-NA-	1	QC Standard
5	1	5	CCV1	-NA-	1	QC Standard
6	1	6	CCV2	-NA-	1	QC Standard
7	1	7	CCV3	-NA-	1	QC Standard
8	1	8	CCV4	-NA-	1	QC Standard
9	1	9	CCV5	-NA-	1	QC Standard
(10...19			Not Used)			

Rack #2

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	ICB	1	-NA-	Sample
2	1	2	ICSA1	1	-NA-	Sample
3	1	3	ICSAB1	1	-NA-	Sample
4	1	4	CRDL	1	-NA-	Sample
5	1	5	CCB1	1	-NA-	Sample
6	1	6	J8RNHBZ3	1	-NA-	Sample
7	1	7	J8RNHCZ5	1	-NA-	Sample
8	1	8	J8RNHLZ5	1	-NA-	Sample
9	1	9	J8DJAZ3	1	-NA-	Sample
10	1	10	J8DJAXZ3	1	-NA-	Sample
11	1	11	J8DJ0Z3	1	-NA-	Sample
12	1	12	J8DKEZ3	1	-NA-	Sample

Rack #2

Pos	Row	Col	Sample Name	Set #	#Used	Type
13	2	1	J8DK7Z3	1	-NA-	Sample
14	2	2	J8DJAP15	1	-NA-	Sample
15	2	3	CCB2	1	-NA-	Sample
16	2	4	J80QPB	1	-NA-	Sample
17	2	5	J80QPC	1	-NA-	Sample
18	2	6	J80QPL	1	-NA-	Sample
19	2	7	J8DJE	1	-NA-	Sample
20	2	8	J8DJEX	1	-NA-	Sample
21	2	9	J8DJ1	1	-NA-	Sample
22	2	10	J8DKG	1	-NA-	Sample
23	2	11	J8DK8	1	-NA-	Sample
24	2	12	J8DJEP	1	-NA-	Sample
25	3	1	CCB3	1	-NA-	Sample
26	3	2	J83W5B	1	-NA-	Sample
27	3	3	J83W5C	1	-NA-	Sample
28	3	4	J83W5L	1	-NA-	Sample
29	3	5	J8DJG	1	-NA-	Sample
30	3	6	J8DJGX	1	-NA-	Sample
31	3	7	J8DJ2	1	-NA-	Sample
32	3	8	J8DKH	1	-NA-	Sample
33	3	9	J8DK9	1	-NA-	Sample
34	3	10	J8DJGP	1	-NA-	Sample
35	3	11	CCB4	1	-NA-	Sample
36	3	12	J88D3B	1	-NA-	Sample
37	4	1	J88D3C	1	-NA-	Sample
38	4	2	J88D3L	1	-NA-	Sample
39	4	3	J8DJJ	1	-NA-	Sample
40	4	4	J8DJJX	1	-NA-	Sample
41	4	5	J8DJ4	1	-NA-	Sample
42	4	6	J8DKL	1	-NA-	Sample
43	4	7	J8DLA	1	-NA-	Sample
44	4	8	J8DJJP	1	-NA-	Sample
45	4	9	CCB5	1	-NA-	Sample
46	4	10		1	-NA-	Sample
47	4	11		1	-NA-	Sample
48	4	12	(empty)	1	-NA-	-NA-

Rack #3

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	(empty)	1	-NA-	-NA-
2	1	2	(empty)	1	-NA-	-NA-
3	1	3	(empty)	1	-NA-	-NA-
4	1	4	(empty)	1	-NA-	-NA-
5	1	5	(empty)	1	-NA-	-NA-
6	1	6	(empty)	1	-NA-	-NA-
7	1	7	(empty)	1	-NA-	-NA-
8	1	8	(empty)	1	-NA-	-NA-
9	1	9	(empty)	1	-NA-	-NA-
10	1	10	(empty)	1	-NA-	-NA-
11	1	11	(empty)	1	-NA-	-NA-
12	1	12	(empty)	1	-NA-	-NA-

Rack #3

Pos	Row	Col	Sample Name	Set #	#Used	Type
13	2	1	(empty)	1	-NA-	-NA-
14	2	2	(empty)	1	-NA-	-NA-
15	2	3	(empty)	1	-NA-	-NA-
16	2	4	(empty)	1	-NA-	-NA-
17	2	5	(empty)	1	-NA-	-NA-
18	2	6	(empty)	1	-NA-	-NA-
19	2	7	(empty)	1	-NA-	-NA-
20	2	8	(empty)	1	-NA-	-NA-
21	2	9	(empty)	1	-NA-	-NA-
22	2	10	(empty)	1	-NA-	-NA-
23	2	11	(empty)	1	-NA-	-NA-
24	2	12	(empty)	1	-NA-	-NA-
25	3	1	(empty)	1	-NA-	-NA-
26	3	2	(empty)	1	-NA-	-NA-
27	3	3	(empty)	1	-NA-	-NA-
28	3	4	(empty)	1	-NA-	-NA-
29	3	5	(empty)	1	-NA-	-NA-
30	3	6	(empty)	1	-NA-	-NA-
31	3	7	(empty)	1	-NA-	-NA-
32	3	8	(empty)	1	-NA-	-NA-
33	3	9	(empty)	1	-NA-	-NA-
34	3	10	(empty)	1	-NA-	-NA-
35	3	11	(empty)	1	-NA-	-NA-
36	3	12	(empty)	1	-NA-	-NA-
37	4	1	(empty)	1	-NA-	-NA-
38	4	2	(empty)	1	-NA-	-NA-
39	4	3	(empty)	1	-NA-	-NA-
40	4	4	(empty)	1	-NA-	-NA-
41	4	5	(empty)	1	-NA-	-NA-
42	4	6	(empty)	1	-NA-	-NA-
43	4	7	(empty)	1	-NA-	-NA-
44	4	8	(empty)	1	-NA-	-NA-
45	4	9	(empty)	1	-NA-	-NA-
46	4	10	(empty)	1	-NA-	-NA-
47	4	11	(empty)	1	-NA-	-NA-
48	4	12	(empty)	1	-NA-	-NA-

Rack #4

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	(empty)	1	-NA-	-NA-
2	1	2	(empty)	1	-NA-	-NA-
3	1	3	(empty)	1	-NA-	-NA-
4	1	4	(empty)	1	-NA-	-NA-
5	1	5	(empty)	1	-NA-	-NA-
6	1	6	(empty)	1	-NA-	-NA-
7	1	7	(empty)	1	-NA-	-NA-
8	1	8	(empty)	1	-NA-	-NA-
9	1	9	(empty)	1	-NA-	-NA-
10	1	10	(empty)	1	-NA-	-NA-
11	1	11	(empty)	1	-NA-	-NA-
12	1	12	(empty)	1	-NA-	-NA-

Rack #4

Pos	Row	Col	Sample Name	Set #	#Used	Type
13	2	1	(empty)	1	-NA-	-NA-
14	2	2	(empty)	1	-NA-	-NA-
15	2	3	(empty)	1	-NA-	-NA-
16	2	4	(empty)	1	-NA-	-NA-
17	2	5	(empty)	1	-NA-	-NA-
18	2	6	(empty)	1	-NA-	-NA-
19	2	7	(empty)	1	-NA-	-NA-
20	2	8	(empty)	1	-NA-	-NA-
21	2	9	(empty)	1	-NA-	-NA-
22	2	10	(empty)	1	-NA-	-NA-
23	2	11	(empty)	1	-NA-	-NA-
24	2	12	(empty)	1	-NA-	-NA-
25	3	1	(empty)	1	-NA-	-NA-
26	3	2	(empty)	1	-NA-	-NA-
27	3	3	(empty)	1	-NA-	-NA-
28	3	4	(empty)	1	-NA-	-NA-
29	3	5	(empty)	1	-NA-	-NA-
30	3	6	(empty)	1	-NA-	-NA-
31	3	7	(empty)	1	-NA-	-NA-
32	3	8	(empty)	1	-NA-	-NA-
33	3	9	(empty)	1	-NA-	-NA-
34	3	10	(empty)	1	-NA-	-NA-
35	3	11	(empty)	1	-NA-	-NA-
36	3	12	(empty)	1	-NA-	-NA-
37	4	1	(empty)	1	-NA-	-NA-
38	4	2	(empty)	1	-NA-	-NA-
39	4	3	(empty)	1	-NA-	-NA-
40	4	4	(empty)	1	-NA-	-NA-
41	4	5	(empty)	1	-NA-	-NA-
42	4	6	(empty)	1	-NA-	-NA-
43	4	7	(empty)	1	-NA-	-NA-
44	4	8	(empty)	1	-NA-	-NA-
45	4	9	(empty)	1	-NA-	-NA-
46	4	10	(empty)	1	-NA-	-NA-
47	4	11	(empty)	1	-NA-	-NA-
48	4	12	(empty)	1	-NA-	-NA-

Rack #5

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	(empty)	1	-NA-	-NA-
2	1	2	(empty)	1	-NA-	-NA-
3	1	3	(empty)	1	-NA-	-NA-
4	1	4	(empty)	1	-NA-	-NA-
5	1	5	(empty)	1	-NA-	-NA-
6	1	6	(empty)	1	-NA-	-NA-
7	1	7	(empty)	1	-NA-	-NA-
8	1	8	(empty)	1	-NA-	-NA-
9	1	9	(empty)	1	-NA-	-NA-
10	1	10	(empty)	1	-NA-	-NA-
11	1	11	(empty)	1	-NA-	-NA-
12	1	12	(empty)	1	-NA-	-NA-

Rack #5

Pos	Row	Col	Sample Name	Set #	#Used	Type
13	2	1	(empty)	1	-NA-	-NA-
14	2	2	(empty)	1	-NA-	-NA-
15	2	3	(empty)	1	-NA-	-NA-
16	2	4	(empty)	1	-NA-	-NA-
17	2	5	(empty)	1	-NA-	-NA-
18	2	6	(empty)	1	-NA-	-NA-
19	2	7	(empty)	1	-NA-	-NA-
20	2	8	(empty)	1	-NA-	-NA-
21	2	9	(empty)	1	-NA-	-NA-
22	2	10	(empty)	1	-NA-	-NA-
23	2	11	(empty)	1	-NA-	-NA-
24	2	12	(empty)	1	-NA-	-NA-
25	3	1	(empty)	1	-NA-	-NA-
26	3	2	(empty)	1	-NA-	-NA-
27	3	3	(empty)	1	-NA-	-NA-
28	3	4	(empty)	1	-NA-	-NA-
29	3	5	(empty)	1	-NA-	-NA-
30	3	6	(empty)	1	-NA-	-NA-
31	3	7	(empty)	1	-NA-	-NA-
32	3	8	(empty)	1	-NA-	-NA-
33	3	9	(empty)	1	-NA-	-NA-
34	3	10	(empty)	1	-NA-	-NA-
35	3	11	(empty)	1	-NA-	-NA-
36	3	12	(empty)	1	-NA-	-NA-
37	4	1	(empty)	1	-NA-	-NA-
38	4	2	(empty)	1	-NA-	-NA-
39	4	3	(empty)	1	-NA-	-NA-
40	4	4	(empty)	1	-NA-	-NA-
41	4	5	(empty)	1	-NA-	-NA-
42	4	6	(empty)	1	-NA-	-NA-
43	4	7	(empty)	1	-NA-	-NA-
44	4	8	(empty)	1	-NA-	-NA-
45	4	9	(empty)	1	-NA-	-NA-
46	4	10	(empty)	1	-NA-	-NA-
47	4	11	(empty)	1	-NA-	-NA-
48	4	12	(empty)	1	-NA-	-NA-

Method: TRA20607 Standard: S0

Run Time: 10/19/07 10:34:13

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	.01615	.01295	-.00315	.00110	-.04848	.00581	-.00388
SDev	.00054	.00225	.00532	.00006	.00109	.00072	.00021
%RSD	3.3525	17.383	168.52	5.5679	2.2471	12.404	5.4664
#1	.01635	.01529	-.00512	.00117	-.04973	.00499	-.00387
#2	.01554	.01275	.00286	.00108	-.04775	.00635	-.00367
#3	.01656	.01080	-.00721	.00105	-.04796	.00608	-.00409
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Avge	.00148	-.00068	.00085	-.00043	.07439	.01394	.00065
SDev	.00147	.00020	.00007	.00028	.01448	.00363	.00063
%RSD	99.611	29.449	8.3747	65.609	19.470	26.046	97.937
#1	.00281	-.00048	.00085	-.00011	.08816	.00982	.00042
#2	-.00010	-.00088	.00093	-.00062	.07573	.01533	.00015
#3	.00173	-.00068	.00079	-.00058	.05929	.01667	.00136
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Avge	.00023	.26248	.00032	-.02083	.01507	.12600	.00369
SDev	.00008	.00670	.00052	.00490	.00209	.00330	.00186
%RSD	36.330	2.5527	163.71	23.507	13.887	2.6148	50.291
#1	.00032	.26778	.00090	-.02367	.01661	.12834	.00573
#2	.00021	.25495	-.00010	-.01518	.01590	.12224	.00325
#3	.00016	.26472	.00016	-.02364	.01269	.12743	.00210
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Avge	-.02091	.00140	.00026	.01091	-.00143	.00039	.00047
SDev	.00322	.00012	.00034	.00011	.00051	.00044	.00021
%RSD	15.404	8.8236	130.02	1.0312	35.636	112.79	44.818
#1	-.02022	.00127	.00032	.01104	-.00085	.00053	.00048
#2	-.02442	.00139	-.00010	.01084	-.00181	-.00010	.00026
#3	-.01808	.00152	.00058	.01085	-.00163	.00073	.00068
Elem	Ti	Sn	Si	P_			
Avge	-.00035	-.01079	.01149	.08401			
SDev	.00030	.00309	.00007	.00243			
%RSD	87.704	28.583	.65533	2.8955			
#1	.00000	-.01205	.01157	.08455			
#2	-.00057	-.00728	.01146	.08135			
#3	-.00047	-.01305	.01143	.08613			

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19096	--	--	--	--	--	--
SDev	266.6409	--	--	--	--	--	--
%RSD	1.396287	--	--	--	--	--	--
#1	18840	--	--	--	--	--	--
#2	19372	--	--	--	--	--	--
#3	19077	--	--	--	--	--	--

Method: TRA20607 Standard: S1
 Run Time: 10/19/07 10:40:25

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	7.7112	2.8635	2.9391	9.5799	17.597	14.586	26.945
SDev	.0181	.0131	.0164	.0103	.022	.054	.039
%RSD	.23434	.45862	.55738	.10752	.12597	.37346	.14627
#1	7.6904	2.8644	2.9572	9.5895	17.610	14.596	26.956
#2	7.7204	2.8500	2.9347	9.5690	17.609	14.635	26.977
#3	7.7228	2.8762	2.9254	9.5811	17.571	14.527	26.901
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Avge	8.9850	2.6785	2.0677	2.6862	11.826	6.1349	27.853
SDev	.0284	.0021	.0019	.0061	.128	.0329	.077
%RSD	.31552	.08024	.09379	.22740	1.0829	.53592	.27607
#1	9.0127	2.6771	2.0670	2.6888	11.949	6.1641	27.915
#2	8.9561	2.6809	2.0698	2.6792	11.837	6.1413	27.767
#3	8.9863	2.6773	2.0661	2.6906	11.693	6.0992	27.878
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Avge	8.2997	19.193	2.5345	2.1620	2.3890	5.7761	2.4149
SDev	.0230	.065	.0081	.0092	.0295	.0059	.0023
%RSD	.27696	.33833	.31912	.42690	1.2365	.10240	.09650
#1	8.3167	19.228	2.5316	2.1726	2.4029	5.7825	2.4149
#2	8.2736	19.232	2.5436	2.1573	2.4091	5.7708	2.4172
#3	8.3089	19.118	2.5282	2.1561	2.3551	5.7749	2.4125
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Avge	3.6056	1.8814	8.6242	2.7533	4.6610	29.346	46.183
SDev	.0126	.0013	.0107	.0077	.0201	.170	.075
%RSD	.34905	.06990	.12425	.27980	.43157	.57804	.16188
#1	3.5975	1.8825	8.6366	2.7608	4.6398	29.531	46.098
#2	3.6201	1.8800	8.6191	2.7536	4.6798	29.308	46.240
#3	3.5992	1.8818	8.6170	2.7454	4.6633	29.198	46.210
Elem	Ti	Sn	Si	P_			
Avge	3.3119	19.939	.49426	3.3913			
SDev	.0066	.032	.00089	.0201			
%RSD	.20002	.15818	.18077	.59131			
#1	3.3061	19.974	.49499	3.4144			
#2	3.3105	19.931	.49326	3.3784			
#3	3.3192	19.913	.49452	3.3811			

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18604	--	--	--	--	--	--
SDev	180.8805	--	--	--	--	--	--
%RSD	.9722797	--	--	--	--	--	--
#1	18408	--	--	--	--	--	--
#2	18637	--	--	--	--	--	--
#3	18766	--	--	--	--	--	--

Standardization

Report

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Method: TRA20607

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Al	308.215	S1	S0	6.50375	-.105036	10/19/07 10:40:25
Sb	206.838	S1	S0	.340648	-.004410	10/19/07 10:40:25
As	189.042	S1	S0	.334981	.001057	10/19/07 10:40:25
Ba	493.409	S1	S0	.417591	-.000459	10/19/07 10:40:25
Be	313.042	S1	S0	.224838	.010901	10/19/07 10:40:25
Cd	226.502	S1	S0	.068696	-.000399	10/19/07 10:40:25
Ca	317.933	S1	S0	3.71076	.014383	10/19/07 10:40:25
Cr	267.714	S1	S0	.445186	-.000659	10/19/07 10:40:25
Co	228.616	S1	S0	1.49647	.001016	10/19/07 10:40:25
Cu	324.754	S1	S0	1.93535	-.001655	10/19/07 10:40:25
Fe	271.441	S1	S0	18.7214	.008126	10/19/07 10:40:25
Pb/1	220.351	S1	S0	.086778	-.006456	10/19/07 10:40:25
Pb/2	220.352	S1	S0	.162541	-.002266	10/19/07 10:40:25
Mg	279.079	S1	S0	3.59031	-.002325	10/19/07 10:40:25
Mn	257.610	S1	S0	.482086	-.000110	10/19/07 10:40:25
K_	766.491	S1	S0	.978837	.032733	10/19/07 10:40:25
Ni	231.604	S1	S0	1.57842	-.000503	10/19/07 10:40:25
Se/1	196.021	S1	S0	.457854	.009537	10/19/07 10:40:25
Se/2	196.022	S1	S0	.416436	-.006274	10/19/07 10:40:25
Ag	328.068	S1	S0	.354057	-.044613	10/19/07 10:40:25
Na	330.232	S1	S0	1.02666	-.001838	10/19/07 10:40:25
Tl	190.864	S1	S0	.548083	.011459	10/19/07 10:40:25
V_	292.402	S1	S0	2.06450	-.002882	10/19/07 10:40:25
Zn	213.856	S1	S0	.466644	-.000123	10/19/07 10:40:25
B_	249.678	S1	S0	1.45860	-.015914	10/19/07 10:40:25
Mo	202.030	S1	S0	.857924	.001224	10/19/07 10:40:25
Li	670.784	S1	S0	.136307	-.000053	10/19/07 10:40:25
Sr	421.552	S1	S0	.086654	-.000041	10/19/07 10:40:25
Ti	334.941	S1	S0	1.20762	.000418	10/19/07 10:40:25
Sn	189.989	S1	S0	.200500	.002164	10/19/07 10:40:25
Si	288.158	S1	S0	8.28549	-.095168	10/19/07 10:40:25
P_	178.287	S1	S0	1.21173	-.101799	10/19/07 10:40:25
Pb	220.353	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
Se	196.026	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED

Value	.50000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Range	10.500	10.500	10.500	10.500	10.500	10.500	10.500

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0089	.99455	.98479	.98741	.25042	.24514
SDev	.0054	.00285	.01198	.01083	.00144	.00185
%RSD	.53338	.28680	1.2162	1.0970	.57362	.75311

#1	1.0078	.99381	.98773	.97785	.24919	.24439
#2	1.0042	.99215	.97161	.98520	.25007	.24379
#3	1.0148	.99770	.99502	.99918	.25200	.24724

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	1.0000	1.0000	.25000	.25000
Range	10.500	10.500	10.500	10.500	10.500	10.500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19020	--	--	--	--	--	--
SDev	329.2480	--	--	--	--	--	--
%RSD	1.731031	--	--	--	--	--	--

#1	18661	--	--	--	--	--	--
#2	19308	--	--	--	--	--	--
#3	19091	--	--	--	--	--	--

Analysis Report

QC Standard

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Value	.50000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Range	10.500	10.500	10.500	10.500	10.500	10.500	10.500

Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.0342	1.0084	1.0517	1.0283	.25669	.25151	
SDev	.0243	.0233	.0299	.0359	.00248	.00181	
%RSD	2.3448	2.3114	2.8424	3.4954	.96565	.72116	

#1	1.0622	1.0353	1.0862	1.0693	.25948	.25295	
#2	1.0197	.99443	1.0347	1.0133	.25581	.25211	
#3	1.0207	.99542	1.0342	1.0023	.25476	.24947	

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	
Value	1.0000	1.0000	1.0000	1.0000	.25000	.25000	
Range	10.500	10.500	10.500	10.500	10.500	10.500	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18982	--	--	--	--	--	--
SDev	489.5353	--	--	--	--	--	--
%RSD	2.578941	--	--	--	--	--	--

#1	18417	--	--	--	--	--	--
#2	19257	--	--	--	--	--	--
#3	19272	--	--	--	--	--	--

High	.00850	.00450	.00220	.04400	.00650	.00120	.00042
Low	-.00850	-.00450	-.00220	-.04400	-.00650	-.00120	-.00042
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00019	.00094	-.00389	-.00042	.00034	.00040	
SDev	.00013	.00143	.00063	.00066	.00035	.00145	
%RSD	69.388	152.49	16.243	156.07	102.01	360.76	
#1	-.00008	.00068	-.00354	-.00117	.00073	.00181	
#2	-.00033	-.00035	-.00462	.00008	.00022	-.00108	
#3	-.00015	.00248	-.00352	-.00017	.00007	.00047	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	.00100	.00550	.03700	.01900	.00350	.00430	
Low	-.00100	-.00550	-.03700	-.01900	-.00350	-.00430	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19336	--	--	--	--	--	--
SDev	72.69164	--	--	--	--	--	--
%RSD	.3759467	--	--	--	--	--	--
#1	19350	--	--	--	--	--	--
#2	19400	--	--	--	--	--	--
#3	19257	--	--	--	--	--	--

Method: TRA20607 Sample Name: ICSA1

Operator:

Run Time: 10/19/07 11:04:55

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	480.67	.00081	.00038	.00102	-.00067	-.00234	443.35
SDev	2.21	.00531	.00070	.00007	.00022	.00024	1.09
%RSD	.45907	651.44	184.77	6.6019	32.159	10.316	.24601
#1	478.49	-.00339	.00113	.00110	-.00092	-.00207	444.59
#2	480.60	.00678	.00028	.00101	-.00057	-.00240	442.88
#3	482.90	-.00095	-.00027	.00097	-.00052	-.00255	442.57
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	602.45	.06000	.02000	.01000	.01000	.00500	602.45
Low	397.55	-.06000	-.02000	-.01000	-.01000	-.00500	397.55
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00206	.00051	.00171	195.37	-.00732	.00123	523.85
SDev	.00085	.00051	.00063	.91	.00662	.00502	2.73
%RSD	41.377	99.721	36.518	.46645	90.471	406.96	.52041
#1	.00303	.00084	.00239	194.87	-.00010	-.00451	522.26
#2	.00170	.00076	.00159	194.81	-.00875	.00343	522.28
#3	.00145	-.00008	.00116	196.42	-.01310	.00478	526.99
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.01500	.05000	.02500	240.98			602.45
Low	-.01500	-.05000	-.02500	159.02			397.55
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00082	.18936	.00233	.00504	-.01262	.00130	-1.0194
SDev	.00014	.00602	.00088	.01256	.00508	.00057	.1154
%RSD	17.054	3.1787	37.497	249.33	40.230	43.923	11.322
#1	.00097	.19627	.00333	.01829	-.01794	.00190	-.92350
#2	.00079	.18656	.00196	.00352	-.01206	.00123	-.98723
#3	.00069	.18526	.00171	-.00670	-.00784	.00077	-1.1475
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	.01500		.04000			.02000	5.0000
Low	-.01500		-.04000			-.02000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00032	-.03694	.00845	.00654	-.00217	.00051	-.00264
SDev	.00006	.01631	.00022	.00043	.00093	.00000	.00002
%RSD	19.504	44.165	2.6552	6.5273	43.042	.67626	.79729
#1	.00027	-.05571	.00870	.00677	-.00324	.00051	-.00263
#2	.00030	-.02615	.00837	.00681	-.00155	.00051	-.00263
#3	.00038	-.02896	.00827	.00605	-.00171	.00050	-.00266
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass

High	.02000	.02000	.04000	.05000	.05000
Low	-.02000	-.02000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00115	.00390	.04695	.02734	-.00100	-.00634
SDev	.00099	.00196	.00115	.00051	.00121	.00080
%RSD	86.297	50.268	2.4532	1.8558	121.36	12.640

#1	.00213	.00467	.04819	.02759	-.00236	-.00548
#2	.00015	.00535	.04592	.02676	-.00006	-.00648
#3	.00116	.00167	.04674	.02767	-.00056	-.00707

Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass
High	.05000	.10000	.50000		.00800	.01000
Low	-.05000	-.10000	-.50000		-.00800	-.01000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17821	--	--	--	--	--	--
SDev	119.7417	--	--	--	--	--	--
%RSD	.6719183	--	--	--	--	--	--

#1	17685	--	--	--	--	--	--
#2	17912	--	--	--	--	--	--
#3	17866	--	--	--	--	--	--

High	.12049	.60245	1.2049	1.2049	1.2049	1.2049	1.2049
Low	.07951	.39755	.79510	.79510	.79510	.79510	.79510

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0212	.95685	1.0660	1.0214	.04750	.05044
SDev	.0055	.00300	.0043	.0074	.00076	.00027
%RSD	.53543	.31373	.40659	.72432	1.6062	.53831

#1	1.0157	.95441	1.0613	1.0130	.04675	.05059
#2	1.0214	.95594	1.0671	1.0271	.04828	.05060
#3	1.0266	.96021	1.0698	1.0239	.04746	.05013

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.2049	1.2049	1.2049	1.2049	.06024	.06024
Low	.79510	.79510	.79510	.79510	.03976	.03976

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18554	--	--	--	--	--	--
SDev	20.68809	--	--	--	--	--	--
%RSD	.1115025	--	--	--	--	--	--

#1	18578	--	--	--	--	--	--
#2	18542	--	--	--	--	--	--
#3	18542	--	--	--	--	--	--

High	.01500	.07500	.03000	.30000	.06000	.07500	.07500
Low	.00500	.02500	.01000	.10000	.02000	.02500	.02500

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05174	.09151	.54275	.30360	.00352	.00555
SDev	.00072	.00014	.00141	.00479	.00083	.00038
%RSD	1.3963	.14953	.25979	1.5781	23.465	6.9114

#1	.05248	.09160	.54405	.30180	.00447	.00589
#2	.05104	.09158	.54125	.29996	.00311	.00514
#3	.05171	.09135	.54294	.30903	.00297	.00564

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.07500	.15000	.75000	.45000	.00600	.00750
Low	.02500	.05000	.25000	.15000	.00200	.00250

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19522	--	--	--	--	--	--
SDev	17.90083	--	--	--	--	--	--
%RSD	.0916978	--	--	--	--	--	--

#1	19508	--	--	--	--	--	--
#2	19515	--	--	--	--	--	--
#3	19542	--	--	--	--	--	--

Value	1.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	10.500	10.500	10.500	10.500	10.500	10.500	10.500

Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.0340	1.9975	1.9674	2.0023	.49792	.49396	
SDev	.0039	.0022	.0009	.0304	.00584	.00389	
%RSD	.18964	.11097	.04475	1.5195	1.1732	.78821	

#1	2.0330	1.9953	1.9683	2.0179	.49146	.49082	
#2	2.0308	1.9974	1.9666	1.9672	.49945	.49275	
#3	2.0383	1.9998	1.9672	2.0217	.50284	.49832	

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	
Value	2.0000	2.0000	2.0000	2.0000	.50000	.50000	
Range	10.500	10.500	10.500	10.500	10.500	10.500	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19411	--	--	--	--	--	--
SDev	29.57651	--	--	--	--	--	--
%RSD	.1523715	--	--	--	--	--	--

#1	19406	--	--	--	--	--	--
#2	19442	--	--	--	--	--	--
#3	19384	--	--	--	--	--	--

High	.00850	.00450	.00220	.04400	.00650	.00120	.00042
Low	-.00850	-.00450	-.00220	-.04400	-.00650	-.00120	-.00042
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00015	-.00031	-.00738	.00063	-.00084	.00088	
SDev	.00017	.00036	.00201	.00174	.00078	.00089	
%RSD	113.83	117.26	27.176	277.31	92.956	102.09	
#1	.00005	-.00072	-.00521	-.00058	-.00028	.00001	
#2	-.00025	-.00006	-.00778	-.00016	-.00051	.00083	
#3	-.00025	-.00014	-.00916	.00262	-.00174	.00179	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	.00100	.00550	.03700	.01900	.00350	.00430	
Low	-.00100	-.00550	-.03700	-.01900	-.00350	-.00430	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19760	--	--	--	--	--	--
SDev	205.7442	--	--	--	--	--	--
%RSD	1.041225	--	--	--	--	--	--
#1	19525	--	--	--	--	--	--
#2	19910	--	--	--	--	--	--
#3	19844	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00030	.00262	.00149	.01014	-.00108	.00100	
SDev	.00004	.00097	.00053	.00247	.00080	.00107	
%RSD	12.875	37.133	35.462	24.353	74.163	107.57	
#1	-.00035	.00374	.00193	.00739	-.00173	.00010	
#2	-.00028	.00216	.00090	.01086	-.00132	.00070	
#3	-.00028	.00196	.00164	.01217	-.00019	.00218	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19002	--	--	--	--	--	--
SDev	125.7329	--	--	--	--	--	--
%RSD	.6616867	--	--	--	--	--	--
#1	18944	--	--	--	--	--	--
#2	19146	--	--	--	--	--	--
#3	18915	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00014	.00118	.88742	.56497	.01788	.02587	
SDev	.00007	.00036	.00247	.00052	.00062	.00062	
%RSD	46.516	30.595	.27805	.09203	3.4716	2.3986	
#1	-.00011	.00083	.89020	.56549	.01841	.02641	
#2	-.00010	.00155	.88658	.56445	.01720	.02602	
#3	-.00022	.00117	.88549	.56496	.01803	.02519	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18585	--	--	--	--	--	--
SDev	289.0184	--	--	--	--	--	--
%RSD	1.555098	--	--	--	--	--	--
#1	18297	--	--	--	--	--	--
#2	18584	--	--	--	--	--	--
#3	18875	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00004	.00170	.88034	.55434	.01625	.02546	
SDev	.00009	.00120	.00628	.00605	.00029	.00098	
%RSD	229.37	70.458	.71315	1.0917	1.7890	3.8379	
#1	.00003	.00132	.88758	.56133	.01619	.02537	
#2	-.00014	.00303	.87632	.55074	.01600	.02454	
#3	-.00001	.00073	.87713	.55095	.01657	.02648	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19350	--	--	--	--	--	--
SDev	438.9513	--	--	--	--	--	--
%RSD	2.268477	--	--	--	--	--	--
#1	18843	--	--	--	--	--	--
#2	19607	--	--	--	--	--	--
#3	19599	--	--	--	--	--	--

Method: TRA20607 Sample Name: J8DJAZ3

Operator:

Run Time: 10/19/07 11:53:48

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.43307	-.00257	.00098	.39269	.00085	.07148	96.512
SDev	.00275	.00096	.00154	.00052	.00011	.00095	.515
%RSD	.63558	37.414	158.33	.13372	12.729	1.3320	.53317
#1	.43501	-.00259	.00260	.39329	.00080	.07038	96.009
#2	.43428	-.00160	-.00048	.39246	.00097	.07208	97.037
#3	.42992	-.00353	.00081	.39232	.00078	.07197	96.489
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	20.000	30.000	20.000	10.000	40.000	300.00
Low	-.20000	-.06000	-.01000	-.01000	-.00500	-.00500	-5.0000
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01323	.00028	.10927	.22787	.18028	.18346	5.7642
SDev	.00043	.00028	.00017	.00409	.00249	.00300	.0235
%RSD	3.2725	101.84	.15965	1.7932	1.3788	1.6360	.40826
#1	.01347	.00031	.10945	.22878	.17768	.18012	5.7446
#2	.01350	.00054	.10925	.23143	.18051	.18593	5.7903
#3	.01273	-.00002	.10911	.22341	.18264	.18433	5.7578
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	40.000	40.000	50.000	1000.0			700.00
Low	-.01000	-.05000	-.02500	-.10000			-5.0000
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.07039	.42938	.00427	.00061	.00113	.00103	709.97
SDev	.00025	.01172	.00032	.00142	.00331	.00068	1.64
%RSD	.35487	2.7296	7.5274	233.60	294.23	66.246	.23035
#1	.07021	.41602	.00390	-.00089	.00488	.00029	709.07
#2	.07067	.43795	.00446	.00077	-.00137	.00162	711.86
#3	.07028	.43416	.00445	.00194	-.00013	.00117	708.99
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20.000	200.00	40.000			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.01000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00024	-.00040	H16.531	.02343	-.00023	.00208	.17107
SDev	.00193	.00059	.081	.00068	.00044	.00004	.00054
%RSD	807.35	148.17	.49050	2.9018	190.71	1.9782	.31506
#1	.00090	-.00006	H16.451	.02400	-.00004	.00209	.17127
#2	.00085	-.00005	H16.613	.02363	.00008	.00212	.17148
#3	-.00247	-.00108	H16.528	.02268	-.00074	.00204	.17046
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00005	.00194	2.8549	.03061	.18284	.00136	
SDev	.00010	.00081	.0078	.00128	.00266	.00181	
%RSD	194.48	41.842	.27214	4.1738	1.4526	133.14	
#1	.00004	.00183	2.8565	.03121	.17978	.00333	
#2	-.00016	.00119	2.8618	.02914	.18455	-.00023	
#3	-.00003	.00280	2.8465	.03148	.18419	.00098	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18855	--	--	--	--	--	--
SDev	129.2135	--	--	--	--	--	--
%RSD	.6853135	--	--	--	--	--	--
#1	19004	--	--	--	--	--	--
#2	18776	--	--	--	--	--	--
#3	18784	--	--	--	--	--	--

Method: TRA20607 Sample Name: J8DJAXZ3

Operator:

Run Time: 10/19/07 11:59:54

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.69913	-.00181	.00110	.46240	.00098	.07189	82.629
SDev	.00505	.00192	.00077	.00303	.00031	.00052	.757
%RSD	.72246	106.59	70.179	.65474	32.087	.72558	.91666
#1	.70464	-.00394	.00053	.46518	.00063	.07132	82.084
#2	.69472	-.00126	.00198	.45917	.00108	.07200	82.308
#3	.69803	-.00021	.00079	.46284	.00123	.07235	83.494
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	20.000	30.000	20.000	10.000	40.000	300.00
Low	-.20000	-.06000	-.01000	-.01000	-.00500	-.00500	-5.0000
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00143	-.00008	.16257	.46641	.35790	.36342	6.0307
SDev	.00105	.00025	.00084	.01113	.00341	.00398	.0796
%RSD	73.551	328.05	.51520	2.3865	.95360	1.0948	1.3194
#1	.00168	-.00035	.16342	.45423	.36183	.35948	5.9977
#2	.00234	-.00001	.16175	.46895	.35572	.36335	5.9730
#3	.00028	.00013	.16253	.47606	.35615	.36744	6.1215
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	40.000	40.000	50.000	1000.0			700.00
Low	-.01000	-.05000	-.02500	-.10000			-5.0000
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.06357	.47832	.00396	.00282	.00183	.00194	730.84
SDev	.00075	.01472	.00086	.00377	.00280	.00081	5.87
%RSD	1.1841	3.0773	21.845	133.32	152.95	41.875	.80260
#1	.06348	.46880	.00440	.00622	-.00125	.00136	734.27
#2	.06286	.47089	.00451	.00347	.00251	.00160	724.07
#3	.06436	.49528	.00296	-.00122	.00422	.00287	734.19
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20.000	200.00	40.000			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.01000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00019	-.00113	H16.169	.02202	-.00070	.00245	.16014
SDev	.00295	.00079	.138	.00090	.00031	.00006	.00051
%RSD	1544.1	70.199	.85138	4.0684	44.502	2.4330	.31895
#1	-.00077	-.00203	H16.113	.02181	-.00098	.00250	.16059
#2	.00350	-.00057	H16.068	.02300	-.00037	.00246	.15959
#3	-.00216	-.00078	H16.326	.02125	-.00075	.00238	.16025
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00001	.00191	2.9179	.03497	.36203	.00255	
SDev	.00010	.00030	.0314	.00214	.00183	.00079	
%RSD	907.57	15.567	1.0751	6.1177	.50400	31.078	
#1	-.00010	.00166	2.9291	.03337	.36069	.00167	
#2	-.00003	.00224	2.8824	.03414	.36128	.00320	
#3	.00010	.00183	2.9421	.03740	.36411	.00278	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18750	--	--	--	--	--	--
SDev	121.9427	--	--	--	--	--	--
%RSD	.6503501	--	--	--	--	--	--
#1	18676	--	--	--	--	--	--
#2	18891	--	--	--	--	--	--
#3	18684	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00027	.00386	.66585	.03133	.01688	.00323
SDev	.00019	.00121	.00651	.00175	.00075	.00175
%RSD	69.388	31.484	.97807	5.5914	4.4403	54.280

#1	.00049	.00516	.67122	.03335	.01767	.00363
#2	.00016	.00276	.66774	.03032	.01678	.00474
#3	.00016	.00365	.65861	.03031	.01618	.00131

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18568	--	--	--	--	--	--
SDev	388.8653	--	--	--	--	--	--
%RSD	2.094274	--	--	--	--	--	--

#1	18119	--	--	--	--	--	--
#2	18810	--	--	--	--	--	--
#3	18774	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00021	.00162	.69888	.01718	-.00151	-.00006	
SDev	.00034	.00046	.00369	.00228	.00012	.00105	
%RSD	159.50	28.656	.52837	13.271	7.9461	1719.2	
#1	-.00030	.00168	.70141	.01966	-.00162	.00106	
#2	.00016	.00205	.69465	.01517	-.00153	-.00102	
#3	-.00049	.00113	.70059	.01671	-.00138	-.00022	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18598	--	--	--	--	--	--
SDev	149.6916	--	--	--	--	--	--
%RSD	.8048745	--	--	--	--	--	--
#1	18483	--	--	--	--	--	--
#2	18767	--	--	--	--	--	--
#3	18544	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00001	.00294	1.5003	.03528	-.00161	.00175	
SDev	.00010	.00045	.0116	.00228	.00075	.00024	
%RSD	762.55	15.359	.77148	6.4500	46.797	13.711	
#1	-.00009	.00345	1.4997	.03274	-.00197	.00184	
#2	.00010	.00260	1.5122	.03714	-.00075	.00194	
#3	.00003	.00277	1.4891	.03596	-.00212	.00148	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18821	--	--	--	--	--	--
SDev	163.9566	--	--	--	--	--	--
%RSD	.8711252	--	--	--	--	--	--
#1	18988	--	--	--	--	--	--
#2	18815	--	--	--	--	--	--
#3	18661	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00001	.00097	.56525	.01032	.03581	.00024
SDev	.00010	.00045	.00426	.00170	.00076	.00112
%RSD	925.54	46.410	.75307	16.488	2.1250	459.10

#1	.00005	.00119	.57000	.00898	.03555	.00125
#2	-.00013	.00126	.56396	.00975	.03522	.00045
#3	.00005	.00045	.56179	.01223	.03667	-.00097

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19651	--	--	--	--	--	--
SDev	287.8582	--	--	--	--	--	--
%RSD	1.464855	--	--	--	--	--	--

#1	19556	--	--	--	--	--	--
#2	19974	--	--	--	--	--	--
#3	19422	--	--	--	--	--	--

Analysis Report

QC Standard

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Value	1.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	10.500	10.500	10.500	10.500	10.500	10.500	10.500

Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.0366	1.9965	1.9800	2.0619	.49688	.49875	
SDev	.0048	.0084	.0130	.0147	.00695	.00641	
%RSD	.23542	.41870	.65673	.71383	1.3989	1.2855	

#1	2.0317	1.9903	1.9861	2.0713	.49373	.49658	
#2	2.0413	1.9931	1.9888	2.0449	.49207	.49370	
#3	2.0368	2.0060	1.9650	2.0694	.50485	.50596	

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	
Value	2.0000	2.0000	2.0000	2.0000	.50000	.50000	
Range	10.500	10.500	10.500	10.500	10.500	10.500	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19945	--	--	--	--	--	--
SDev	223.4424	--	--	--	--	--	--
%RSD	1.120266	--	--	--	--	--	--

#1	20021	--	--	--	--	--	--
#2	20122	--	--	--	--	--	--
#3	19694	--	--	--	--	--	--

High	.00850	.00450	.00220	.04400	.00650	.00120	.00042
Low	-.00850	-.00450	-.00220	-.04400	-.00650	-.00120	-.00042
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00031	.00058	-.00969	.00380	-.00201	.00031	
SDev	.00016	.00147	.00143	.00198	.00039	.00093	
%RSD	50.532	253.24	14.781	51.928	19.197	300.64	
#1	-.00042	.00147	-.01022	.00205	-.00164	-.00029	
#2	-.00037	.00140	-.01077	.00594	-.00241	-.00016	
#3	-.00013	-.00112	-.00806	.00342	-.00199	.00138	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	.00100	.00550	.03700	.01900	.00350	.00430	
Low	-.00100	-.00550	-.03700	-.01900	-.00350	-.00430	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19936	--	--	--	--	--	--
SDev	154.0410	--	--	--	--	--	--
%RSD	.7726718	--	--	--	--	--	--
#1	20093	--	--	--	--	--	--
#2	19930	--	--	--	--	--	--
#3	19785	--	--	--	--	--	--

High	.01000	.01250	.02000	.10000	.02000	.02500	.02500
Low	-.01000	-.01250	-.02000	-.10000	-.02000	-.02500	-.02500
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00007	.00281	.00628	.01278	-.00139	.00144	
SDev	.00031	.00129	.00347	.00287	.00030	.00143	
%RSD	449.85	46.041	55.147	22.439	21.545	99.267	
#1	-.00043	.00303	.00324	.00989	-.00109	.00005	
#2	.00011	.00397	.00556	.01282	-.00139	.00137	
#3	.00011	.00142	.01005	.01562	-.00169	.00291	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	.02500	.05000	.25000	.15000	.00400	.00500	
Low	-.02500	-.05000	-.25000	-.15000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19714	--	--	--	--	--	--
SDev	287.2798	--	--	--	--	--	--
%RSD	1.457265	--	--	--	--	--	--
#1	20039	--	--	--	--	--	--
#2	19495	--	--	--	--	--	--
#3	19607	--	--	--	--	--	--

Method: TRA20607 Sample Name: J80QPC

Operator:

Run Time: 10/19/07 12:48:50

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9323	.47382	.09789	.08371	.05146	L.01760	L1.0540
SDev	.0250	.00285	.00167	.00060	.00005	.00007	.0016
%RSD	1.2914	.60126	1.7087	.71142	.10076	.37972	.14841

#1	1.9594	.47711	.09927	.08440	.05145	L.01766	L1.0557
#2	1.9103	.47211	.09836	.08333	.05152	L.01753	L1.0526
#3	1.9273	.47224	.09603	.08341	.05142	L.01761	L1.0536

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Low
High	2.4098	.60245	.12049	.12049	.06024	.06024	60.245
Low	1.5902	.39755	.07951	.07951	.03976	.03976	39.755

Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.19707	.09262	.23211	.99797	.00147	.00064	9.3514
SDev	.00237	.00023	.00182	.00421	.00374	.00214	.0718
%RSD	1.2033	.25272	.78270	.42150	255.28	332.70	.76747

#1	.19978	.09278	.23418	.99322	.00576	-.00151	9.4342
#2	.19603	.09274	.23135	1.0012	-.00031	.00277	9.3083
#3	.19540	.09236	.23079	.99946	-.00106	.00067	9.3115

Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.24098	.12049	.30123	1.2049			12.049
Low	.15902	.07951	.19877	.79510			7.9510

Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09238	47.507	.42374	.14341	.14501	L.01961	46.267
SDev	.00089	.252	.00060	.00489	.00160	.00038	.672
%RSD	.96107	.52983	.14031	3.4074	1.1052	1.9362	1.4523

#1	.09340	47.792	.42367	.14900	.14355	L.01956	46.979
#2	.09183	47.318	.42318	.13998	.14476	L.02001	45.644
#3	.09190	47.410	.42436	.14124	.14672	L.01925	46.178

Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Low	LC Pass
High	.12049		.60245			.06024	60.245
Low	.07951		.39755			.03976	39.755

Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.38469	.19315	.45553	.97273	.48912	.10244	L.20910
SDev	.00440	.00103	.00162	.01148	.00217	.00100	.00098
%RSD	1.1447	.53298	.35623	1.1799	.44470	.97541	.46964

#1	.38015	.19424	.45739	.98576	.49138	.10358	L.21008
#2	.38496	.19220	.45482	.96411	.48704	.10173	L.20812
#3	.38895	.19300	.45439	.96832	.48894	.10201	L.20910

Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	LC Pass	LC Low
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High	.48196	.60245	.60245	.12049	.60245
Low	.31804	.39755	.39755	.07951	.39755

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09984	.48302	4.6685	5.0641	L.00151	.14484
SDev	.00045	.00042	.0512	.0631	.00083	.00113
%RSD	.44758	.08802	1.0973	1.2465	54.495	.77904

#1	.10035	.48343	4.7271	5.1359	L.00151	.14571
#2	.09955	.48258	4.6322	5.0391	L.00234	.14357
#3	.09960	.48306	4.6462	5.0173	L.00069	.14524

Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Low	LC Pass
High	.12049	.60245	6.0245		.12049	.18074
Low	.07951	.39755	3.9755		.07951	.11926

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20091	--	--	--	--	--	--
SDev	94.48633	--	--	--	--	--	--
%RSD	.4702877	--	--	--	--	--	--

#1	20024	--	--	--	--	--	--
#2	20051	--	--	--	--	--	--
#3	20199	--	--	--	--	--	--

Method: TRA20607 Sample Name: J80QPL

Operator:

Run Time: 10/19/07 12:54:57

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9082	.46113	.09295	.08207	.05070	L.01626	L.97038
SDev	.0041	.00127	.00085	.00023	.00028	.00052	.00929
%RSD	.21401	.27563	.91611	.28618	.56155	3.2070	.95706

#1	1.9108	.46256	.09264	.08228	.05087	L.01568	L.96296
#2	1.9035	.46073	.09391	.08211	.05086	L.01643	L.98080
#3	1.9103	.46011	.09230	.08181	.05037	L.01668	L.96739

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Low
High	2.4098	.60245	.12049	.12049	.06024	.06024	60.245
Low	1.5902	.39755	.07951	.07951	.03976	.03976	39.755

Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.19290	.09114	.22944	.98023	-.00408	.00397	9.1600
SDev	.00283	.00117	.00025	.01263	.00826	.00399	.0818
%RSD	1.4688	1.2824	.10899	1.2887	202.29	100.47	.89269

#1	.18999	.09018	.22936	.96712	-.01326	.00823	9.0852
#2	.19565	.09244	.22972	.99233	.00275	.00033	9.2473
#3	.19305	.09080	.22924	.98124	-.00174	.00335	9.1475

Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.24098	.12049	.30123	1.2049			12.049
Low	.15902	.07951	.19877	.79510			7.9510

Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09051	46.746	.42102	.13758	.14136	L.01961	45.308
SDev	.00073	.071	.00437	.00637	.00514	.00121	.387
%RSD	.80472	.15169	1.0374	4.6327	3.6332	6.1720	.85386

#1	.08988	46.826	.41671	.13023	.13587	L.01847	44.906
#2	.09130	46.692	.42545	.14157	.14217	L.02088	45.340
#3	.09034	46.719	.42089	.14094	.14605	L.01946	45.678

Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Low	LC Pass
High	.12049		.60245			.06024	60.245
Low	.07951		.39755			.03976	39.755

Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.37997	.18997	.45116	.96025	.47666	.10122	L.20346
SDev	.00686	.00136	.00297	.00277	.00439	.00038	.00092
%RSD	1.8051	.71768	.65751	.28891	.92014	.37969	.44979

#1	.37218	.18882	.44927	.96291	.47310	.10157	L.20398
#2	.38264	.19148	.45458	.96047	.48156	.10081	L.20399
#3	.38509	.18962	.44963	.95738	.47531	.10127	L.20240

Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	LC Pass	LC Low
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High	.48196	.60245	.60245	.12049	.60245
Low	.31804	.39755	.39755	.07951	.39755

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.09774	.46948	4.5723	4.9525	L.00177	.14047
SDev	.00030	.00475	.0138	.0199	.00042	.00543
%RSD	.30818	1.0106	.30136	.40223	23.683	3.8687

#1	.09746	.46613	4.5575	4.9749	L.00157	.13434
#2	.09806	.47491	4.5848	4.9459	L.00149	.14238
#3	.09769	.46741	4.5745	4.9367	L.00225	.14469

Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Low	LC Pass
High	.12049	.60245	6.0245		.12049	.18074
Low	.07951	.39755	3.9755		.07951	.11926

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19987	--	--	--	--	--	--
SDev	214.6294	--	--	--	--	--	--
%RSD	1.073819	--	--	--	--	--	--

#1	20123	--	--	--	--	--	--
#2	19740	--	--	--	--	--	--
#3	20100	--	--	--	--	--	--

Method: TRA20607 Sample Name: J8DJJE

Operator:

Run Time: 10/19/07 13:01:03

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	14.560	.00521	.04127	.48648	.00111	.03083	.18838
SDev	.060	.00132	.00029	.00077	.00015	.00009	.00003
%RSD	.41054	25.332	.69314	.15920	13.837	.27840	.01717
#1	14.520	.00647	.04156	.48705	.00094	.03092	.18835
#2	14.531	.00532	.04099	.48560	.00120	.03084	.18841
#3	14.629	.00384	.04125	.48679	.00121	.03075	.18838
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	20.000	30.000	20.000	10.000	40.000	300.00
Low	-.20000	-.06000	-.01000	-.01000	-.00500	-.00500	-5.0000
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03367	.11517	.97470	29.278	.57702	.58374	18.339
SDev	.00010	.00027	.00269	.085	.00662	.00863	.066
%RSD	.30406	.23278	.27623	.28897	1.1482	1.4785	.35734
#1	.03369	.11523	.97314	29.370	.58463	.59344	18.398
#2	.03376	.11487	.97315	29.260	.57252	.58089	18.350
#3	.03356	.11540	.97781	29.204	.57391	.57690	18.268
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	40.000	40.000	50.000	1000.0			700.00
Low	-.01000	-.05000	-.02500	-.10000			-5.0000
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	H32.217	.66992	.17218	.00770	.00090	.00197	241.83
SDev	.185	.01906	.00030	.00240	.00103	.00126	1.08
%RSD	.57317	2.8455	.17346	31.190	115.14	63.766	.44690
#1	H32.422	.68797	.17243	.00579	.00176	.00321	241.16
#2	H32.166	.67182	.17185	.00692	-.00025	.00201	241.25
#3	H32.063	.64998	.17225	.01040	.00117	.00070	243.08
Errors	LC High	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20.000	200.00	40.000			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.01000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00524	.06222	H30.637	.02359	.00863	.00671	.00456
SDev	.00373	.00040	.689	.00040	.00069	.00005	.00001
%RSD	71.162	.63568	2.2480	1.6785	8.0134	.80580	.31544
#1	.00906	.06176	H31.294	.02389	.00796	.00677	.00457
#2	.00162	.06245	H30.697	.02374	.00859	.00668	.00454
#3	.00503	.06244	H29.921	.02314	.00934	.00667	.00456
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.11761	.00597	12.210	1.7040	.58201	.00355
SDev	.00001	.00122	.015	.0066	.00790	.00103
%RSD	.00751	20.410	.12248	.38900	1.3566	28.845

#1	.11760	.00481	12.212	1.7104	.59102	.00352
#2	.11762	.00586	12.194	1.6971	.57871	.00255
#3	.11760	.00724	12.224	1.7045	.57630	.00460

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19635	--	--	--	--	--	--
SDev	373.2644	--	--	--	--	--	--
%RSD	1.901045	--	--	--	--	--	--

#1	19240	--	--	--	--	--	--
#2	19681	--	--	--	--	--	--
#3	19983	--	--	--	--	--	--

Method: TRA20607 Sample Name: J8DJEX

Operator:

Run Time: 10/19/07 13:07:09

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	15.330	.00585	.04835	.54534	.00135	.03112	.19118
SDev	.064	.00030	.00068	.00182	.00012	.00029	.00334
%RSD	.41738	5.2156	1.4082	.33428	8.6032	.94370	1.7467
#1	15.396	.00568	.04791	.54742	.00130	.03087	.18828
#2	15.324	.00567	.04802	.54403	.00148	.03105	.19042
#3	15.269	.00621	.04914	.54458	.00127	.03144	.19483
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	20.000	30.000	20.000	10.000	40.000	300.00
Low	-.20000	-.06000	-.01000	-.01000	-.00500	-.00500	-5.0000
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02152	.11251	1.3447	32.808	.60596	.61346	20.205
SDev	.00073	.00169	.0054	.274	.00962	.01035	.159
%RSD	3.3804	1.5058	.39863	.83615	1.5875	1.6877	.78636
#1	.02147	.11154	1.3507	32.739	.60180	.60833	20.157
#2	.02082	.11152	1.3426	32.575	.59912	.60667	20.075
#3	.02227	.11447	1.3406	33.110	.61696	.62538	20.382
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	40.000	40.000	50.000	1000.0			700.00
Low	-.01000	-.05000	-.02500	-.10000			-5.0000
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	H32.357	.66162	.16387	.00896	.00429	-.00021	226.39
SDev	.302	.01900	.00127	.00127	.00143	.00120	.72
%RSD	.93240	2.8718	.77647	14.170	33.347	564.28	.31782
#1	H32.282	.64953	.16290	.00880	.00532	-.00102	227.05
#2	H32.099	.65179	.16340	.00777	.00265	-.00079	226.50
#3	H32.689	.68352	.16531	.01030	.00489	.00117	225.62
Errors	LC High	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20.000	200.00	40.000			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.01000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00425	.07234	H29.297	.01789	.00769	.00873	.00468
SDev	.00295	.00084	.724	.00088	.00011	.00006	.00004
%RSD	69.413	1.1538	2.4714	4.9100	1.3864	.62802	.78532
#1	.00301	.07237	H28.845	.01801	.00780	.00878	.00466
#2	.00762	.07148	H28.915	.01696	.00760	.00867	.00467
#3	.00212	.07315	H30.132	.01871	.00765	.00872	.00473
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.14251	.00614	12.688	1.7821	.61143	.00622
SDev	.00080	.00143	.055	.0031	.01022	.00128
%RSD	.56317	23.298	.43349	.17458	1.6723	20.501

#1	.14271	.00450	12.745	1.7804	.60655	.00687
#2	.14162	.00709	12.635	1.7857	.60455	.00475
#3	.14319	.00684	12.683	1.7802	.62318	.00704

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20138	--	--	--	--	--	--
SDev	225.5436	--	--	--	--	--	--
%RSD	1.119992	--	--	--	--	--	--

#1	20208	--	--	--	--	--	--
#2	20320	--	--	--	--	--	--
#3	19886	--	--	--	--	--	--

Method: TRA20607 Sample Name: J8DJ1

Operator:

Run Time: 10/19/07 13:13:16

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	10.195	.00221	.06757	.12694	.00185	.00631	.12869
SDev	.061	.00218	.00063	.00024	.00009	.00009	.00113
%RSD	.60077	98.670	.93298	.18619	4.9319	1.4612	.88113
#1	10.218	.00085	.06684	.12720	.00181	.00620	.12740
#2	10.241	.00105	.06790	.12675	.00179	.00636	.12916
#3	10.125	.00472	.06796	.12687	.00196	.00635	.12952
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	20.000	30.000	20.000	10.000	40.000	300.00
Low	-.20000	-.06000	-.01000	-.01000	-.00500	-.00500	-5.0000
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00905	.08141	.31873	23.049	.07620	.06837	24.455
SDev	.00034	.00140	.00085	.288	.00320	.00214	.350
%RSD	3.8139	1.7261	.26626	1.2495	4.1934	3.1273	1.4319
#1	.00905	.07984	.31963	22.719	.07735	.06591	24.068
#2	.00940	.08184	.31862	23.250	.07867	.06950	24.751
#3	.00871	.08254	.31794	23.176	.07259	.06971	24.544
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	40.000	40.000	50.000	1000.0			700.00
Low	-.01000	-.05000	-.02500	-.10000			-5.0000
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	H23.484	1.0323	.09905	.00918	.00043	.00036	275.09
SDev	.304	.0236	.00104	.00110	.00121	.00183	2.39
%RSD	1.2951	2.2882	1.0469	12.013	281.18	511.08	.86898
#1	H23.143	1.0069	.09833	.00886	-.00028	-.00165	275.62
#2	H23.727	1.0536	.10024	.01040	-.00025	.00194	277.17
#3	H23.581	1.0364	.09857	.00827	.00183	.00078	272.48
Errors	LC High	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20.000	200.00	40.000			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.01000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00396	.06330	H14.154	.01575	.01157	.00664	.00249
SDev	.00062	.00109	.185	.00013	.00004	.00008	.00003
%RSD	15.608	1.7151	1.3035	.79439	.31708	1.2721	1.0272
#1	.00467	.06205	H13.955	.01565	.01158	.00666	.00247
#2	.00368	.06381	H14.319	.01589	.01153	.00671	.00248
#3	.00353	.06404	H14.190	.01572	.01160	.00655	.00252
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.31075	.00403	8.9863	6.6862	.07159	.00370
SDev	.00110	.00060	.0557	.0160	.00165	.00061
%RSD	.35536	14.902	.61939	.23958	2.3108	16.502

#1	.30954	.00464	8.9428	6.6987	.07012	.00311
#2	.31170	.00401	9.0490	6.6681	.07338	.00366
#3	.31101	.00344	8.9671	6.6918	.07128	.00433

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19652	--	--	--	--	--	--
SDev	286.8298	--	--	--	--	--	--
%RSD	1.459533	--	--	--	--	--	--

#1	19963	--	--	--	--	--	--
#2	19398	--	--	--	--	--	--
#3	19596	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02199	.00362	9.7292	5.5635	-.00097	.00202
SDev	.00013	.00106	.0801	.0264	.00136	.00179
%RSD	.58013	29.175	.82331	.47422	140.63	88.658

#1	.02206	.00479	9.8181	5.5337	-.00194	.00118
#2	.02185	.00334	9.7067	5.5729	-.00154	.00081
#3	.02208	.00273	9.6627	5.5839	.00059	.00408

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19610	--	--	--	--	--	--
SDev	178.7976	--	--	--	--	--	--
%RSD	.9117793	--	--	--	--	--	--

#1	19701	--	--	--	--	--	--
#2	19725	--	--	--	--	--	--
#3	19404	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.14165	.00329	7.9879	.72972	.00186	.00426
SDev	.00077	.00051	.0382	.01237	.00014	.00048
%RSD	.54348	15.530	.47818	1.6950	7.5271	11.194

#1	.14082	.00288	7.9700	.71556	.00193	.00474
#2	.14233	.00313	8.0318	.73515	.00196	.00424
#3	.14182	.00386	7.9620	.73844	.00170	.00379

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19962	--	--	--	--	--	--
SDev	136.8367	--	--	--	--	--	--
%RSD	.6854716	--	--	--	--	--	--

#1	20058	--	--	--	--	--	--
#2	20023	--	--	--	--	--	--
#3	19806	--	--	--	--	--	--

Method: TRA20607 Sample Name: J8DJEP

Operator:

Run Time: 10/19/07 13:31:36

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.9761	.00079	.00798	.10091	.00074	.00603	.04910
SDev	.0246	.00259	.00040	.00009	.00013	.00006	.00131
%RSD	.82567	329.17	4.9500	.09162	16.943	.97753	2.6662
#1	2.9932	-.00068	.00809	.10089	.00061	.00598	.04959
#2	2.9480	-.00074	.00754	.10083	.00076	.00601	.04761
#3	2.9873	.00378	.00831	.10101	.00085	.00609	.05009
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	20.000	30.000	20.000	10.000	40.000	300.00
Low	-.20000	-.06000	-.01000	-.01000	-.00500	-.00500	-5.0000
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00682	.02309	.19939	5.9185	.11363	.11444	3.6650
SDev	.00070	.00067	.00107	.0247	.00594	.00225	.0262
%RSD	10.240	2.8900	.53750	.41723	5.2307	1.9645	.71412
#1	.00758	.02358	.20016	5.9216	.11928	.11365	3.6608
#2	.00666	.02233	.19817	5.8923	.11419	.11270	3.6412
#3	.00621	.02337	.19985	5.9414	.10743	.11698	3.6930
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	40.000	40.000	50.000	1000.0			700.00
Low	-.01000	-.05000	-.02500	-.10000			-5.0000
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	7.2357	.20681	.03511	.00084	.00102	-.00386	49.698
SDev	.0308	.01137	.00079	.00197	.00172	.00067	.436
%RSD	.42599	5.4961	2.2422	235.66	168.47	17.243	.87831
#1	7.2153	.20801	.03601	.00226	-.00096	-.00399	50.122
#2	7.2207	.19489	.03457	.00167	.00204	-.00446	49.250
#3	7.2712	.21753	.03475	-.00142	.00199	-.00314	49.720
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20.000	200.00	40.000			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.01000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00187	.01215	H14.569	-.00334	.00092	.00160	.00094
SDev	.00081	.00102	.092	.00023	.00100	.00014	.00003
%RSD	42.964	8.4244	.63340	7.0027	108.92	8.6902	3.6831
#1	.00238	.01196	H14.587	-.00314	.00068	.00175	.00095
#2	.00230	.01124	H14.469	-.00328	.00006	.00147	.00091
#3	.00095	.01326	H14.652	-.00360	.00202	.00158	.00097
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02376	.00145	2.4851	.34490	.11466	.00132
SDev	.00023	.00081	.0144	.00588	.00121	.00093
%RSD	.95500	55.493	.57839	1.7058	1.0543	70.671

#1	.02381	.00226	2.4903	.34326	.11601	.00045
#2	.02351	.00065	2.4688	.34001	.11368	.00230
#3	.02395	.00145	2.4961	.35143	.11429	.00120

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20492	--	--	--	--	--	--
SDev	149.3986	--	--	--	--	--	--
%RSD	.7290645	--	--	--	--	--	--

#1	20446	--	--	--	--	--	--
#2	20659	--	--	--	--	--	--
#3	20371	--	--	--	--	--	--

Analysis Report

QC Standard

10/19/07 01:43:47 PM

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Value	1.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	10.500	10.500	10.500	10.500	10.500	10.500	10.500

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0261	1.9858	1.9516	2.1076	.49518	.49356
SDev	.0136	.0114	.0121	.0219	.00436	.00562
%RSD	.66925	.57360	.62203	1.0406	.88107	1.1377

#1	2.0359	1.9933	1.9644	2.1322	.49638	.49638
#2	2.0107	1.9727	1.9403	2.0902	.49034	.48710
#3	2.0318	1.9915	1.9500	2.1005	.49881	.49721

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	.50000	.50000
Range	10.500	10.500	10.500	10.500	10.500	10.500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19999	--	--	--	--	--	--
SDev	201.4846	--	--	--	--	--	--
%RSD	1.007496	--	--	--	--	--	--

#1	19780	--	--	--	--	--	--
#2	20178	--	--	--	--	--	--
#3	20038	--	--	--	--	--	--

High	.00850	.00450	.00220	.04400	.00650	.00120	.00042
Low	-.00850	-.00450	-.00220	-.04400	-.00650	-.00120	-.00042
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00017	.00003	-.000670	.00597	-.00266	.00107	
SDev	.00019	.00087	.00089	.00223	.00066	.00117	
%RSD	113.03	3128.1	13.237	37.346	24.880	108.93	
#1	-.00031	.00093	-.00700	.00517	-.00206	.00075	
#2	-.00025	-.00004	-.00740	.00425	-.00337	.00010	
#3	.00005	-.00081	-.00570	.00849	-.00254	.00236	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	.00100	.00550	.03700	.01900	.00350	.00430	
Low	-.00100	-.00550	-.03700	-.01900	-.00350	-.00430	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19825	--	--	--	--	--	--
SDev	191.4536	--	--	--	--	--	--
%RSD	.9657151	--	--	--	--	--	--
#1	20017	--	--	--	--	--	--
#2	19825	--	--	--	--	--	--
#3	19634	--	--	--	--	--	--

High	.01000	.01250	.02000	.10000	.02000	.02500	.02500
Low	-.01000	-.01250	-.02000	-.10000	-.02000	-.02500	-.02500
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00011	.01002	.01988	.03859	-.00165	H.00783	
SDev	.00010	.00054	.00261	.00152	.00061	.00036	
%RSD	85.300	5.3904	13.100	3.9245	36.992	4.6602	
#1	-.00006	.01062	.02031	.04028	-.00152	H.00825	
#2	-.00006	.00988	.02225	.03736	-.00111	H.00767	
#3	-.00023	.00956	.01709	.03813	-.00230	H.00757	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High	
High	.02500	.05000	.25000	.15000	.00400	.00500	
Low	-.02500	-.05000	-.25000	-.15000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20382	--	--	--	--	--	--
SDev	215.5871	--	--	--	--	--	--
%RSD	1.057713	--	--	--	--	--	--
#1	20161	--	--	--	--	--	--
#2	20393	--	--	--	--	--	--
#3	20592	--	--	--	--	--	--

Method: TRA20607 Sample Name: J83W5C

Operator:

Run Time: 10/19/07 13:56:04

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0141	.50000	.10333	.10517	.05425	.05157	51.053
SDev	.0063	.00233	.00136	.00024	.00061	.00069	.287
%RSD	.31200	.46538	1.3209	.23008	1.1300	1.3407	.56123
#1	2.0125	.50126	.10416	.10495	.05357	.05092	50.737
#2	2.0210	.50142	.10407	.10543	.05443	.05230	51.295
#3	2.0087	.49731	.10175	.10514	.05476	.05148	51.127
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.4098	.60245	.12049	.12049	.06024	.06024	60.245
Low	1.5902	.39755	.07951	.07951	.03976	.03976	39.755
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.20459	.10288	.25355	1.0305	.10063	.10009	9.5420
SDev	.00070	.00064	.00040	.0106	.00772	.00392	.0615
%RSD	.34187	.62511	.15929	1.0241	7.6728	3.9125	.64458
#1	.20445	.10216	.25337	1.0190	.10859	.09561	9.4730
#2	.20535	.10341	.25401	1.0398	.10013	.10288	9.5910
#3	.20397	.10306	.25326	1.0327	.09317	.10178	9.5619
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.24098	.12049	.30123	1.2049			12.049
Low	.15902	.07951	.19877	.79510			7.9510
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.11895	50.025	.51735	.00957	.00518	.04750	48.324
SDev	.00072	.219	.00219	.00528	.00347	.00056	.342
%RSD	.60862	.43720	.42368	55.120	67.109	1.1795	.70719
#1	.11813	50.101	.51542	.01535	.00146	.04692	48.489
#2	.11950	50.196	.51974	.00835	.00573	.04804	48.553
#3	.11923	49.778	.51690	.00501	.00834	.04752	47.932
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	.12049		.60245			.06024	60.245
Low	.07951		.39755			.03976	39.755
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.32804	.20504	.53172	1.0122	.51918	.10666	.52903
SDev	.00322	.00200	.00217	.0067	.00390	.00050	.00084
%RSD	.98155	.97381	.40787	.65706	.75052	.46479	.15917
#1	.32612	.20276	.52922	1.0060	.51488	.10704	.52816
#2	.33176	.20649	.53304	1.0192	.52248	.10685	.52984
#3	.32625	.20586	.53291	1.0114	.52018	.10610	.52908
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass

High	.48196	.60245	.60245	.12049	.60245
Low	.31804	.39755	.39755	.07951	.39755

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10499	.52086	4.7242	5.4613	.10079	L.00701
SDev	.00048	.00224	.0163	.0225	.00163	.00057
%RSD	.45679	.43044	.34452	.41212	1.6193	8.1951

#1	.10444	.51831	4.7094	5.4797	.10044	L.00644
#2	.10532	.52175	4.7416	5.4362	.10257	L.00701
#3	.10520	.52252	4.7215	5.4679	.09937	L.00759

Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Low
High	.12049	.60245	6.0245		.12049	.18074
Low	.07951	.39755	3.9755		.07951	.11926

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19806	--	--	--	--	--	--
SDev	56.96703	--	--	--	--	--	--
%RSD	.2876251	--	--	--	--	--	--

#1	19852	--	--	--	--	--	--
#2	19742	--	--	--	--	--	--
#3	19823	--	--	--	--	--	--

Method: TRA20607 Sample Name: J83W5L

Operator:

Run Time: 10/19/07 14:02:11

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0145	.49184	.09929	.10292	.05292	.05037	50.187
SDev	.0108	.00340	.00040	.00027	.00035	.00092	.357
%RSD	.53441	.69095	.40625	.26089	.65688	1.8324	.71039
#1	2.0265	.49411	.09964	.10287	.05252	.05044	49.968
#2	2.0057	.48794	.09938	.10269	.05309	.04941	49.995
#3	2.0115	.49348	.09885	.10322	.05315	.05125	50.598
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.4098	.60245	.12049	.12049	.06024	.06024	60.245
Low	1.5902	.39755	.07951	.07951	.03976	.03976	39.755
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.20027	.10124	.24879	1.0198	.09781	.10089	9.4042
SDev	.00207	.00094	.00041	.0045	.00519	.00080	.0808
%RSD	1.0326	.92949	.16468	.44482	5.3054	.79230	.85952
#1	.19951	.10061	.24917	1.0150	.09939	.10131	9.3684
#2	.19869	.10079	.24835	1.0205	.09201	.09997	9.3474
#3	.20261	.10232	.24884	1.0240	.10202	.10140	9.4967
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.24098	.12049	.30123	1.2049			12.049
Low	.15902	.07951	.19877	.79510			7.9510
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10143	49.255	.50858	.00563	.00540	.04811	48.068
SDev	.00083	.120	.00379	.00363	.00132	.00139	.460
%RSD	.81504	.24349	.74562	64.554	24.469	2.8915	.95619
#1	.10101	49.394	.50532	.00812	.00403	.04744	48.589
#2	.10090	49.185	.50769	.00146	.00667	.04719	47.722
#3	.10239	49.186	.51274	.00731	.00550	.04971	47.892
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	.12049		.60245			.06024	60.245
Low	.07951		.39755			.03976	39.755
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.32926	.19951	.52298	.98682	.50768	.10547	.51741
SDev	.00500	.00109	.00306	.00423	.00401	.00046	.00105
%RSD	1.5185	.54660	.58580	.42892	.78941	.43574	.20388
#1	.33129	.19920	.52031	.98882	.50399	.10599	.51733
#2	.32356	.19861	.52231	.98195	.50710	.10531	.51640
#3	.33292	.20073	.52633	.98967	.51194	.10512	.51851
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass

High	.48196	.60245	.60245	.12049	.60245
Low	.31804	.39755	.39755	.07951	.39755

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10281	.50817	4.6975	5.3215	.10043	L.00583
SDev	.00059	.00415	.0213	.0508	.00235	.00060
%RSD	.57791	.81746	.45320	.95472	2.3365	10.216

#1	.10256	.50757	4.7084	5.3493	.10128	L.00575
#2	.10239	.50434	4.6730	5.2629	.09778	L.00529
#3	.10349	.51259	4.7111	5.3524	.10223	L.00647

Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Low
High	.12049	.60245	6.0245		.12049	.18074
Low	.07951	.39755	3.9755		.07951	.11926

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19575	--	--	--	--	--	--
SDev	287.2734	--	--	--	--	--	--
%RSD	1.467586	--	--	--	--	--	--
#1	19637	--	--	--	--	--	--
#2	19825	--	--	--	--	--	--
#3	19261	--	--	--	--	--	--

Method: TRA20607 Sample Name: J8DJG

Operator:

Run Time: 10/19/07 14:08:18

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	34.276	-.00312	.11431	.30503	.00865	.22059	129.80
SDev	.078	.00114	.00158	.00079	.00010	.00216	.86
%RSD	.22782	36.530	1.3817	.25870	1.1445	.98021	.66533
#1	34.290	-.00274	.11255	.30516	.00857	.21810	128.85
#2	34.347	-.00223	.11561	.30574	.00861	.22192	130.53
#3	34.192	-.00441	.11478	.30418	.00876	.22176	130.04
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	20.000	30.000	20.000	10.000	40.000	300.00
Low	-.20000	-.06000	-.01000	-.01000	-.00500	-.00500	-5.0000
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.11792	.12685	1.0882	249.27	20.395	20.657	50.532
SDev	.00098	.00069	.0023	1.75	.175	.199	.393
%RSD	.82914	.54449	.21275	.70357	.85951	.96549	.77801
#1	.11731	.12638	1.0893	247.58	20.193	20.469	50.140
#2	.11905	.12764	1.0897	251.08	20.486	20.866	50.926
#3	.11741	.12654	1.0855	249.14	20.506	20.635	50.531
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	40.000	40.000	50.000	1000.0			700.00
Low	-.01000	-.05000	-.02500	-.10000			-5.0000
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	H53.294	3.3464	.26559	.02327	.00306	.00996	36.152
SDev	.552	.0042	.00196	.00219	.00370	.00111	.155
%RSD	1.0363	.12438	.73749	9.4284	120.88	11.098	.43004
#1	H52.721	3.3482	.26359	.02074	.00713	.00869	36.183
#2	H53.823	3.3494	.26751	.02466	.00213	.01064	36.289
#3	H53.339	3.3417	.26566	.02441	-.00009	.01055	35.983
Errors	LC High	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20.000	200.00	40.000			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.01000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00362	.15603	H31.032	.07756	.04570	.05752	.49738
SDev	.00040	.00245	.556	.00156	.00098	.00025	.00089
%RSD	10.911	1.5677	1.7905	2.0107	2.1348	.43797	.17878
#1	.00386	.15595	H30.399	.07821	.04639	.05779	.49840
#2	.00316	.15852	H31.440	.07869	.04612	.05746	.49689
#3	.00383	.15363	H31.257	.07578	.04458	.05730	.49684
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04384	.00996	10.005	2.6336	20.570	.01017
SDev	.00024	.00109	.046	.0213	.182	.00180
%RSD	.53910	10.949	.45820	.81017	.88663	17.669

#1	.04399	.00903	9.9680	2.6461	20.377	.01203
#2	.04396	.01116	10.056	2.6089	20.740	.01006
#3	.04356	.00969	9.9906	2.6456	20.592	.00844

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19052	--	--	--	--	--	--
SDev	185.0092	--	--	--	--	--	--
%RSD	.9710634	--	--	--	--	--	--

#1	19263	--	--	--	--	--	--
#2	18917	--	--	--	--	--	--
#3	18977	--	--	--	--	--	--

Method: TRA20607 Sample Name: J8DJGX

Operator:

Run Time: 10/19/07 14:14:24

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	31.941	-.00274	.13173	.46917	.01112	.23241	97.827
SDev	.218	.00123	.00213	.00139	.00014	.00074	.397
%RSD	.68305	44.827	1.6169	.29591	1.2567	.31702	.40572
#1	32.183	-.00218	.13098	.47072	.01098	.23205	97.369
#2	31.878	-.00189	.13413	.46872	.01112	.23326	98.067
#3	31.761	-.00415	.13008	.46805	.01126	.23193	98.046
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	20.000	30.000	20.000	10.000	40.000	300.00
Low	-.20000	-.06000	-.01000	-.01000	-.00500	-.00500	-5.0000
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.08034	.10502	1.1617	210.62	19.831	20.219	48.430
SDev	.00063	.00040	.0060	.19	.065	.117	.019
%RSD	.78662	.38209	.51897	.09219	.32673	.57765	.03979
#1	.08074	.10457	1.1680	210.40	19.766	20.089	48.445
#2	.07961	.10519	1.1613	210.66	19.895	20.315	48.435
#3	.08067	.10532	1.1559	210.78	19.832	20.253	48.408
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	40.000	40.000	50.000	1000.0			700.00
Low	-.01000	-.05000	-.02500	-.10000			-5.0000
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	H44.521	2.8980	.22939	.02091	.00431	.00620	34.034
SDev	.066	.0118	.00154	.00089	.00329	.00051	.262
%RSD	.14805	.40794	.67279	4.2616	76.288	8.2115	.77070
#1	H44.446	2.9070	.22782	.02031	.00135	.00564	34.270
#2	H44.571	2.9024	.22944	.02049	.00785	.00663	34.080
#3	H44.546	2.8846	.23091	.02193	.00374	.00634	33.751
Errors	LC High	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20.000	200.00	40.000			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.01000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00152	.15790	H30.035	.08225	.04055	.06015	.41404
SDev	.00184	.00105	.247	.00049	.00047	.00063	.00122
%RSD	121.22	.66234	.82329	.59710	1.1589	1.0503	.29472
#1	-.00159	.15910	H29.814	.08193	.04086	.06082	.41460
#2	.00036	.15715	H30.302	.08281	.04001	.06006	.41488
#3	-.00332	.15746	H29.987	.08200	.04079	.05957	.41264
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.06212	.01223	11.119	2.7598	20.090	.01020	
SDev	.00008	.00015	.063	.0095	.099	.00220	
%RSD	.12581	1.2165	.56748	.34406	.49260	21.576	
#1	.06211	.01227	11.190	2.7492	19.982	.00802	
#2	.06221	.01206	11.098	2.7676	20.176	.01242	
#3	.06205	.01235	11.069	2.7626	20.113	.01016	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19421	--	--	--	--	--	--
SDev	103.6406	--	--	--	--	--	--
%RSD	.5336511	--	--	--	--	--	--
#1	19439	--	--	--	--	--	--
#2	19309	--	--	--	--	--	--
#3	19514	--	--	--	--	--	--

Method: TRA20607 Sample Name: J8DJ2

Operator:

Run Time: 10/19/07 14:20:31

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	64.509	-.00470	.05610	.85261	.00902	.05783	133.97
SDev	.433	.00200	.00040	.00599	.00010	.00162	1.29
%RSD	.67189	42.469	.71989	.70247	1.1399	2.8071	.96141
#1	64.812	-.00663	.05606	.85861	.00911	.05630	133.30
#2	64.702	-.00484	.05651	.85257	.00903	.05765	133.15
#3	64.012	-.00264	.05571	.84663	.00891	.05954	135.45
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	20.000	30.000	20.000	10.000	40.000	300.00
Low	-.20000	-.06000	-.01000	-.01000	-.00500	-.00500	-5.0000
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.12193	.07443	.25257	194.43	1.7522	1.7673	54.356
SDev	.00164	.00095	.00183	1.32	.0279	.0276	.424
%RSD	1.3470	1.2706	.72358	.68008	1.5929	1.5610	.78029
#1	.12120	.07387	.25422	193.82	1.7366	1.7594	54.141
#2	.12078	.07389	.25287	193.53	1.7355	1.7444	54.081
#3	.12381	.07552	.25060	195.95	1.7844	1.7979	54.844
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	40.000	40.000	50.000	1000.0			700.00
Low	-.01000	-.05000	-.02500	-.10000			-5.0000
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	7.9970	1.1518	.30858	.01331	-.00186	-.00435	41.498
SDev	.0480	.0126	.00206	.00153	.00098	.00159	.182
%RSD	.60056	1.0959	.66771	11.493	52.740	36.526	.43759
#1	7.9724	1.1477	.30706	.01310	-.00141	-.00521	41.579
#2	7.9662	1.1418	.30775	.01493	-.00299	-.00533	41.624
#3	8.0523	1.1660	.31093	.01190	-.00119	-.00252	41.290
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20.000	200.00	40.000			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.01000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00850	.11316	H13.091	.07915	.03453	.13058	.46533
SDev	.00098	.00101	.143	.00077	.00082	.00167	.00287
%RSD	11.558	.89046	1.0923	.96722	2.3830	1.2776	.61640
#1	-.00822	.11412	H13.018	.07918	.03463	.13204	.46842
#2	-.00959	.11211	H12.999	.07837	.03365	.13095	.46481
#3	-.00769	.11325	H13.255	.07990	.03529	.12876	.46276
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01147	.01275	10.475	5.4402	1.7627	.00354
SDev	.00017	.00067	.008	.0353	.0275	.00020
%RSD	1.5094	5.2465	.07663	.64943	1.5613	5.7172

#1	.01128	.01225	10.466	5.4320	1.7524	.00376
#2	.01153	.01249	10.479	5.4097	1.7418	.00336
#3	.01161	.01351	10.481	5.4789	1.7939	.00351

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20726	--	--	--	--	--	--
SDev	296.2843	--	--	--	--	--	--
%RSD	1.429513	--	--	--	--	--	--

#1	20800	--	--	--	--	--	--
#2	20979	--	--	--	--	--	--
#3	20400	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02494	.01787	12.659	2.3691	.04778	.00892
SDev	.00060	.00127	.060	.0113	.00150	.00032
%RSD	2.3895	7.1104	.47616	.47860	3.1424	3.6119

#1	.02454	.01642	12.724	2.3760	.04655	.00864
#2	.02563	.01878	12.648	2.3751	.04945	.00927
#3	.02466	.01842	12.605	2.3560	.04733	.00886

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19375	--	--	--	--	--	--
SDev	428.8351	--	--	--	--	--	--
%RSD	2.213291	--	--	--	--	--	--

#1	19775	--	--	--	--	--	--
#2	18923	--	--	--	--	--	--
#3	19428	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03278	.00957	4.0515	.39031	.36945	.00353
SDev	.00012	.00061	.0260	.00346	.00097	.00130
%RSD	.35099	6.4092	.64050	.88624	.26197	36.803

#1	.03291	.00893	4.0786	.38640	.37023	.00264
#2	.03272	.00960	4.0268	.39152	.36976	.00502
#3	.03270	.01016	4.0490	.39299	.36837	.00293

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18189	--	--	--	--	--	--
SDev	107.3923	--	--	--	--	--	--
%RSD	.5904366	--	--	--	--	--	--

#1	18065	--	--	--	--	--	--
#2	18243	--	--	--	--	--	--
#3	18258	--	--	--	--	--	--

Method: TRA20607 Sample Name: J8DJGP

Operator:

Run Time: 10/19/07 14:38:51

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	6.9445	-.00218	.02208	.06191	.00217	.04522	27.311
SDev	.0364	.00412	.00097	.00036	.00019	.00002	.223
%RSD	.52358	188.87	4.3912	.58342	8.5570	.03790	.81511
#1	6.9825	-.00687	.02102	.06232	.00204	.04521	27.058
#2	6.9408	-.00052	.02228	.06168	.00208	.04524	27.398
#3	6.9101	.00085	.02293	.06172	.00238	.04520	27.477
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	20.000	30.000	20.000	10.000	40.000	300.00
Low	-.20000	-.06000	-.01000	-.01000	-.00500	-.00500	-5.0000
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02425	.02596	.21914	51.775	4.1923	4.2814	10.203
SDev	.00015	.00062	.00185	.301	.0465	.0115	.093
%RSD	.62065	2.3861	.84316	.58128	1.1081	.26876	.91379
#1	.02438	.02542	.22119	51.493	4.1537	4.2725	10.104
#2	.02408	.02663	.21864	51.740	4.2438	4.2944	10.216
#3	.02428	.02582	.21760	52.092	4.1794	4.2773	10.289
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	40.000	40.000	50.000	1000.0			700.00
Low	-.01000	-.05000	-.02500	-.10000			-5.0000
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	13.449	.71482	.05536	.00765	-.00149	.00185	7.2676
SDev	.074	.02702	.00100	.00245	.00125	.00182	.1336
%RSD	.55305	3.7804	1.8020	32.040	83.714	98.101	1.8378
#1	13.388	.68362	.05609	.00845	-.00169	-.00024	7.3745
#2	13.428	.73002	.05577	.00961	-.00262	.00272	7.3106
#3	13.532	.73082	.05422	.00490	-.00015	.00307	7.1179
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20.000	200.00	40.000			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.01000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00231	.03139	H17.060	.00660	.00935	.01157	.10140
SDev	.00196	.00054	.212	.00052	.00067	.00005	.00078
%RSD	84.775	1.7230	1.2449	7.9349	7.1769	.42220	.76810
#1	.00052	.03079	H16.822	.00672	.00868	.01162	.10230
#2	.00439	.03155	H17.129	.00706	.00937	.01157	.10086
#3	.00201	.03184	H17.229	.00603	.01002	.01153	.10106
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00869	.00254	2.0384	.55204	4.2522	.00194
SDev	.00018	.00165	.0111	.00671	.0231	.00012
%RSD	2.1058	64.887	.54277	1.2150	.54341	6.3849

#1	.00848	.00434	2.0305	.54762	4.2334	.00209
#2	.00878	.00109	2.0337	.54875	4.2780	.00186
#3	.00882	.00220	2.0511	.55976	4.2452	.00189

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19606	--	--	--	--	--	--
SDev	269.7577	--	--	--	--	--	--
%RSD	1.375876	--	--	--	--	--	--

#1	19914	--	--	--	--	--	--
#2	19494	--	--	--	--	--	--
#3	19410	--	--	--	--	--	--

Value	1.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	10.500	10.500	10.500	10.500	10.500	10.500	10.500

Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.0251	1.9946	1.9404	2.1558	.49672	.49308	
SDev	.0054	.0124	.0087	.0125	.00252	.00081	
%RSD	.26834	.61956	.44994	.57917	.50656	.16351	

#1	2.0188	1.9803	1.9332	2.1554	.49400	.49221	
#2	2.0288	2.0016	1.9501	2.1435	.49897	.49325	
#3	2.0275	2.0018	1.9379	2.1685	.49720	.49379	

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	
Value	2.0000	2.0000	2.0000	2.0000	.50000	.50000	
Range	10.500	10.500	10.500	10.500	10.500	10.500	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19925	--	--	--	--	--	--
SDev	151.4490	--	--	--	--	--	--
%RSD	.7600939	--	--	--	--	--	--

#1	20098	--	--	--	--	--	--
#2	19814	--	--	--	--	--	--
#3	19864	--	--	--	--	--	--

High	.00850	.00450	.00220	.04400	.00650	.00120	.00042
Low	-.00850	-.00450	-.00220	-.04400	-.00650	-.00120	-.00042
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00012	.00039	-.00745	.00708	-.00228	.00048	
SDev	.00022	.00121	.00275	.00080	.00013	.00027	
%RSD	186.70	312.56	36.946	11.349	5.7987	57.338	
#1	.00012	-.00018	-.00460	.00630	-.00243	.00033	
#2	-.00017	-.00043	-.01009	.00704	-.00225	.00079	
#3	-.00030	.00178	-.00765	.00790	-.00217	.00031	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	.00100	.00550	.03700	.01900	.00350	.00430	
Low	-.00100	-.00550	-.03700	-.01900	-.00350	-.00430	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20338	--	--	--	--	--	--
SDev	232.5151	--	--	--	--	--	--
%RSD	1.143255	--	--	--	--	--	--
#1	20492	--	--	--	--	--	--
#2	20451	--	--	--	--	--	--
#3	20071	--	--	--	--	--	--

High	.01000	.01250	.02000	.10000	.02000	.02500	.02500
Low	-.01000	-.01250	-.02000	-.10000	-.02000	-.02500	-.02500
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00036	.00142	-.00412	.01808	-.00166	.00018	
SDev	.00015	.00067	.00242	.00072	.00048	.00046	
%RSD	42.885	47.218	58.715	3.9522	29.019	261.18	
#1	.00024	.00218	-.00656	.01836	-.00217	.00005	
#2	.00054	.00093	-.00172	.01727	-.00122	.00069	
#3	.00030	.00114	-.00408	.01861	-.00158	-.00021	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	.02500	.05000	.25000	.15000	.00400	.00500	
Low	-.02500	-.05000	-.25000	-.15000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20748	--	--	--	--	--	--
SDev	233.2560	--	--	--	--	--	--
%RSD	1.124233	--	--	--	--	--	--
#1	20572	--	--	--	--	--	--
#2	20659	--	--	--	--	--	--
#3	21013	--	--	--	--	--	--

Method: TRA20607 Sample Name: J88D3C

Operator:

Run Time: 10/19/07 15:03:18

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.2278	.55893	.11307	.11414	.05865	.05693	55.449
SDev	.0228	.00324	.00045	.00050	.00017	.00024	.168
%RSD	1.0234	.57894	.40045	.43842	.28300	.41564	.30297
#1	2.2527	.56096	.11265	.11469	.05847	.05676	55.317
#2	2.2079	.55519	.11302	.11372	.05879	.05682	55.392
#3	2.2229	.56063	.11355	.11400	.05870	.05720	55.638
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.4098	.60245	.12049	.12049	.06024	.06024	60.245
Low	1.5902	.39755	.07951	.07951	.03976	.03976	39.755
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.22119	.11337	.27478	1.1312	.11074	.11365	10.598
SDev	.00034	.00055	.00152	.0038	.00121	.00125	.024
%RSD	.15324	.48342	.55238	.33916	1.0896	1.1027	.22544
#1	.22121	.11320	.27624	1.1290	.11213	.11220	10.603
#2	.22084	.11292	.27321	1.1290	.10997	.11429	10.572
#3	.22152	.11398	.27488	1.1357	.11012	.11445	10.619
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.24098	.12049	.30123	1.2049			12.049
Low	.15902	.07951	.19877	.79510			7.9510
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.11168	56.475	.56818	.18092	.17426	.05199	53.479
SDev	.00036	.353	.00144	.00204	.00083	.00065	.675
%RSD	.32169	.62496	.25326	1.1299	.47377	1.2460	1.2625
#1	.11199	56.804	.56681	.18245	.17436	.05135	54.199
#2	.11129	56.102	.56804	.17859	.17503	.05196	52.861
#3	.11177	56.518	.56968	.18171	.17339	.05265	53.376
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	.12049		.60245			.06024	60.245
Low	.07951		.39755			.03976	39.755
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.45571	.22277	.59346	1.1410	.56584	.11808	.57145
SDev	.00286	.00065	.00170	.0056	.00154	.00108	.00242
%RSD	.62745	.29223	.28575	.49324	.27247	.91794	.42280
#1	.45303	.22217	.59294	1.1475	.56635	.11924	.57371
#2	.45872	.22269	.59208	1.1372	.56411	.11710	.56890
#3	.45537	.22346	.59535	1.1385	.56706	.11790	.57174
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass

High	.48196	.60245	.60245	.12049	.60245
Low	.31804	.39755	.39755	.07951	.39755

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.11398	.56684	4.8488	6.2011	.11314	.17686
SDev	.00012	.00365	.0299	.0018	.00049	.00047
%RSD	.10272	.64352	.61663	.02869	.43589	.26460

#1	.11394	.56422	4.8820	6.2024	.11257	.17740
#2	.11388	.56529	4.8239	6.2019	.11344	.17662
#3	.11411	.57100	4.8407	6.1991	.11341	.17656

Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass
High	.12049	.60245	6.0245		.12049	.18074
Low	.07951	.39755	3.9755		.07951	.11926

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20163	--	--	--	--	--	--
SDev	142.4787	--	--	--	--	--	--
%RSD	.7066332	--	--	--	--	--	--
#1	20308	--	--	--	--	--	--
#2	20158	--	--	--	--	--	--
#3	20023	--	--	--	--	--	--

Method: TRA20607 Sample Name: J88D3L

Operator:

Run Time: 10/19/07 15:09:25

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.1955	.55501	.11260	.11286	.05803	.05672	55.152
SDev	.0084	.00376	.00080	.00007	.00043	.00016	.377
%RSD	.38249	.67792	.70662	.06126	.73721	.27841	.68363
#1	2.2050	.55093	.11324	.11290	.05755	.05654	54.769
#2	2.1891	.55834	.11171	.11290	.05817	.05681	55.165
#3	2.1924	.55575	.11285	.11278	.05837	.05681	55.523
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.4098	.60245	.12049	.12049	.06024	.06024	60.245
Low	1.5902	.39755	.07951	.07951	.03976	.03976	39.755
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.21953	.11240	.27195	1.1116	.10890	.11160	10.572
SDev	.00223	.00173	.00094	.0264	.00412	.00253	.112
%RSD	1.0153	1.5380	.34646	2.3786	3.7806	2.2683	1.0572
#1	.21696	.11074	.27304	1.0815	.11359	.10879	10.444
#2	.22087	.11228	.27140	1.1221	.10720	.11231	10.621
#3	.22076	.11419	.27142	1.1312	.10590	.11370	10.651
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.24098	.12049	.30123	1.2049			12.049
Low	.15902	.07951	.19877	.79510			7.9510
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.11038	56.275	.56167	.17743	.17377	.05206	53.150
SDev	.00106	.363	.00315	.00234	.00176	.00125	.558
%RSD	.96458	.64528	.56122	1.3211	1.0114	2.3990	1.0502
#1	.10915	56.694	.55950	.17993	.17175	.05069	53.787
#2	.11098	56.085	.56022	.17708	.17468	.05237	52.917
#3	.11101	56.047	.56529	.17528	.17489	.05312	52.745
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	.12049		.60245			.06024	60.245
Low	.07951		.39755			.03976	39.755
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.45381	.22051	.58486	1.1316	.56250	.11720	.56501
SDev	.00104	.00265	.00299	.0074	.00343	.00097	.00083
%RSD	.22982	1.2017	.51112	.65705	.60935	.83028	.14628
#1	.45475	.21746	.58193	1.1253	.55935	.11827	.56578
#2	.45399	.22221	.58474	1.1398	.56200	.11694	.56414
#3	.45269	.22187	.58790	1.1297	.56615	.11638	.56512
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass

High	.48196	.60245	.60245	.12049	.60245
Low	.31804	.39755	.39755	.07951	.39755

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.11308	.56317	4.8455	6.1562	.11117	.17536
SDev	.00052	.00333	.0129	.0239	.00041	.00053
%RSD	.45908	.59147	.26528	.38879	.37106	.30318

#1	.11259	.56037	4.8307	6.1286	.11074	.17482
#2	.11304	.56229	4.8542	6.1721	.11121	.17588
#3	.11363	.56686	4.8515	6.1678	.11156	.17537

Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass
High	.12049	.60245	6.0245		.12049	.18074
Low	.07951	.39755	3.9755		.07951	.11926

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19973	--	--	--	--	--	--
SDev	188.2582	--	--	--	--	--	--
%RSD	.9425692	--	--	--	--	--	--

#1	20164	--	--	--	--	--	--
#2	19967	--	--	--	--	--	--
#3	19788	--	--	--	--	--	--

Method: TRA20607 Sample Name: J8DJJ

Operator:

Run Time: 10/19/07 15:19:31

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	141.15	.06524	.42635	6.8197	.00917	.07483	118.29
SDev	.28	.00025	.00314	.0173	.00008	.00058	.24
%RSD	.19540	.38962	.73677	.25303	.85517	.77359	.19978
#1	140.94	.06502	.42612	6.8208	.00908	.07429	118.27
#2	141.46	.06519	.42959	6.8364	.00923	.07544	118.07
#3	141.05	.06552	.42332	6.8020	.00921	.07476	118.54
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	20.000	30.000	20.000	10.000	40.000	300.00
Low	-.20000	-.06000	-.01000	-.01000	-.00500	-.00500	-5.0000
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.61055	.15111	.94376	684.55	5.9374	6.0346	40.522
SDev	.00190	.00012	.00235	.97	.0552	.0294	.093
%RSD	.31158	.07791	.24867	.14211	.92958	.48652	.22855
#1	.61271	.15122	.94402	685.55	5.9489	6.0605	40.599
#2	.60915	.15113	.94596	683.60	5.8774	6.0027	40.419
#3	.60979	.15099	.94129	684.49	5.9860	6.0407	40.547
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	40.000	40.000	50.000	1000.0			700.00
Low	-.01000	-.05000	-.02500	-.10000			-5.0000
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	15.125	23.609	.36362	.01762	-.01312	-.00258	7.4299
SDev	.034	.092	.00039	.00293	.00305	.00059	.0419
%RSD	.22702	.38973	.10662	16.644	23.260	23.076	.56381
#1	15.165	23.644	.36400	.02008	-.01186	-.00225	7.3820
#2	15.105	23.678	.36364	.01438	-.01090	-.00326	7.4478
#3	15.106	23.505	.36323	.01841	-.01660	-.00221	7.4598
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20.000	200.00	40.000			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.01000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00183	.24128	H21.902	.15957	.04321	.12538	.40587
SDev	.00171	.00048	.166	.00154	.00021	.00060	.00111
%RSD	93.916	.19868	.75955	.96727	.48424	.47422	.27279
#1	-.00381	.24073	H21.993	.15991	.04308	.12578	.40534
#2	-.00081	.24161	H21.710	.16092	.04309	.12567	.40714
#3	-.00086	.24150	H22.003	.15789	.04345	.12470	.40512
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.2805	.09532	.59979	4.3423	6.0027	-.00256	
SDev	.0033	.00103	.00163	.0451	.0357	.00189	
%RSD	.14663	1.0783	.27110	1.0394	.59550	74.096	

#1	2.2781	.09414	.59993	4.3770	6.0237	-.00089	
#2	2.2843	.09603	.60134	4.3586	5.9614	-.00216	
#3	2.2790	.09580	.59810	4.2913	6.0229	-.00462	

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	21361	--	--	--	--	--	--
SDev	123.4957	--	--	--	--	--	--
%RSD	.5781459	--	--	--	--	--	--

#1	21253	--	--	--	--	--	--
#2	21496	--	--	--	--	--	--
#3	21333	--	--	--	--	--	--

Method: TRA20607 Sample Name: J8DJJX

Operator:

Run Time: 10/19/07 15:25:38

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	150.55	.05147	.36092	5.9001	.01782	.17672	113.90
SDev	.51	.00200	.00193	.0131	.00009	.00221	.76
%RSD	.33916	3.8776	.53428	.22167	.50798	1.2522	.66810
#1	150.98	.05110	.36303	5.9128	.01772	.17662	113.87
#2	149.99	.05362	.36047	5.9008	.01783	.17897	114.67
#3	150.69	.04968	.35925	5.8867	.01790	.17455	113.15
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	20.000	30.000	20.000	10.000	40.000	300.00
Low	-.20000	-.06000	-.01000	-.01000	-.00500	-.00500	-5.0000
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.29283	.19098	1.0048	583.61	5.3267	5.4055	38.762
SDev	.00275	.00134	.0031	3.50	.0316	.0620	.231
%RSD	.93806	.70014	.31194	.59968	.59407	1.1477	.59474
#1	.29329	.19084	1.0084	584.00	5.3316	5.4283	38.807
#2	.29532	.19237	1.0024	586.91	5.3555	5.4530	38.966
#3	.28989	.18971	1.0037	579.94	5.2928	5.3353	38.512
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	40.000	40.000	50.000	1000.0			700.00
Low	-.01000	-.05000	-.02500	-.10000			-5.0000
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	8.8325	20.966	.58640	.02496	-.00240	.00035	8.5424
SDev	.0529	.127	.00417	.00292	.00280	.00080	.1341
%RSD	.59906	.60539	.71128	11.707	116.60	225.73	1.5704
#1	8.8394	21.100	.58710	.02406	-.00198	.00044	8.5917
#2	8.8816	20.848	.59018	.02260	.00016	.00110	8.6449
#3	8.7764	20.949	.58192	.02823	-.00540	-.00049	8.3905
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20.000	200.00	40.000			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.01000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00187	.34758	H25.342	.19473	.15430	.12820	.41538
SDev	.00270	.00227	.400	.00125	.00059	.00078	.00045
%RSD	144.74	.65169	1.5769	.64166	.38111	.61252	.10875
#1	-.00121	.35002	H25.393	.19357	.15442	.12905	.41575
#2	.00387	.34720	H25.714	.19606	.15483	.12751	.41552
#3	.00293	.34553	H24.920	.19457	.15367	.12805	.41488
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	LC Pass

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.3974	.08218	.56288	8.7708	5.3797	.00706
SDev	.0059	.00089	.00155	.0630	.0517	.00092
%RSD	.24754	1.0875	.27521	.71826	.96149	13.043

#1	2.3974	.08131	.56352	8.7948	5.3964	.00701
#2	2.4033	.08214	.56401	8.8182	5.4209	.00800
#3	2.3914	.08309	.56112	8.6993	5.3216	.00616

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	21837	--	--	--	--	--	--
SDev	233.7235	--	--	--	--	--	--
%RSD	1.070294	--	--	--	--	--	--

#1	21723	--	--	--	--	--	--
#2	21682	--	--	--	--	--	--
#3	22106	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.87980	.02732	.65165	3.0316	.58804	-.00215
SDev	.00163	.00168	.00310	.0182	.00196	.00149
%RSD	.18526	6.1582	.47583	.59959	.33366	69.397

#1	.87879	.02888	.64924	3.0111	.58944	-.00044
#2	.88168	.02752	.65515	3.0376	.58889	-.00316
#3	.87893	.02554	.65055	3.0460	.58580	-.00286

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	22182	--	--	--	--	--	--
SDev	218.7568	--	--	--	--	--	--
%RSD	.9862123	--	--	--	--	--	--

#1	21993	--	--	--	--	--	--
#2	22130	--	--	--	--	--	--
#3	22422	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.2269	.00943	.76399	1.1163	.01566	.00096
SDev	.0039	.00062	.00317	.0079	.00053	.00135
%RSD	.31832	6.6116	.41439	.70654	3.4097	141.23

#1	1.2240	.00878	.76033	1.1090	.01627	.00021
#2	1.2253	.01002	.76574	1.1247	.01541	.00014
#3	1.2313	.00948	.76589	1.1154	.01530	.00252

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20795	--	--	--	--	--	--
SDev	69.67747	--	--	--	--	--	--
%RSD	.3350685	--	--	--	--	--	--

#1	20726	--	--	--	--	--	--
#2	20865	--	--	--	--	--	--
#3	20794	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.3116	.01757	1.0260	3.1556	.11999	.00043	
SDev	.0132	.00131	.0135	.0536	.00128	.00075	
%RSD	1.0043	7.4725	1.3171	1.6983	1.0678	172.85	

#1	1.3134	.01839	1.0272	3.1407	.11914	.00127	
#2	1.2976	.01606	1.0120	3.1111	.11937	-.00017	
#3	1.3238	.01826	1.0389	3.2151	.12147	.00020	

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19403	--	--	--	--	--	--
SDev	367.1235	--	--	--	--	--	--
%RSD	1.892105	--	--	--	--	--	--

#1	19644	--	--	--	--	--	--
#2	19585	--	--	--	--	--	--
#3	18980	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49435	.01967	.12039	.92319	1.3013	.00162
SDev	.00601	.00105	.00253	.01099	.0175	.00161
%RSD	1.2163	5.3577	2.0982	1.1906	1.3456	99.320

#1	.48749	.01978	.11773	.91241	1.2823	.00017
#2	.49869	.02066	.12276	.92278	1.3168	.00335
#3	.49688	.01856	.12067	.93439	1.3049	.00135

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20643	--	--	--	--	--	--
SDev	197.6036	--	--	--	--	--	--
%RSD	.9572578	--	--	--	--	--	--

#1	20782	--	--	--	--	--	--
#2	20417	--	--	--	--	--	--
#3	20730	--	--	--	--	--	--

Value	1.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	10.500	10.500	10.500	10.500	10.500	10.500	10.500

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0605	2.0204	1.9684	Q2.2395	.50021	.49760
SDev	.0091	.0130	.0151	.0315	.00538	.00268
%RSD	.44046	.64383	.76915	1.4068	1.0754	.53863

#1	2.0557	2.0085	1.9709	Q2.2109	.49514	.49644
#2	2.0549	2.0185	1.9522	Q2.2342	.49962	.49570
#3	2.0710	2.0343	1.9822	Q2.2733	.50585	.50067

Errors	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	.50000	.50000
Range	10.500	10.500	10.500	10.500	10.500	10.500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19588	--	--	--	--	--	--
SDev	175.2377	--	--	--	--	--	--
%RSD	.8946336	--	--	--	--	--	--

#1	19731	--	--	--	--	--	--
#2	19640	--	--	--	--	--	--
#3	19392	--	--	--	--	--	--

High	.00850	.00450	.00220	.04400	.00650	.00120	.00042
Low	-.00850	-.00450	-.00220	-.04400	-.00650	-.00120	-.00042

Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00013	-.00062	-.00668	.01001	-.00296	.00124	
SDev	.00021	.00130	.00186	.00195	.00057	.00133	
%RSD	168.79	212.14	27.860	19.433	19.067	107.41	

#1	.00000	.00025	-.00714	.00790	-.00291	.00222	
#2	-.00037	.00002	-.00827	.01173	-.00243	-.00027	
#3	-.00001	-.00212	-.00463	.01041	L-.00355	.00176	

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	.00100	.00550	.03700	.01900	.00350	.00430	
Low	-.00100	-.00550	-.03700	-.01900	-.00350	-.00430	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20009	--	--	--	--	--	--
SDev	380.8596	--	--	--	--	--	--
%RSD	1.903435	--	--	--	--	--	--

#1	20424	--	--	--	--	--	--
#2	19927	--	--	--	--	--	--
#3	19676	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00011	-.00031	.40967	.01707	.02498	.00128	
SDev	.00015	.00026	.00459	.00179	.00084	.00064	
%RSD	139.78	85.730	1.1213	10.474	3.3780	50.202	
#1	-.00012	-.00028	.40913	.01536	.02423	.00185	
#2	-.00025	-.00058	.40536	.01893	.02481	.00059	
#3	.00005	-.00006	.41450	.01693	.02590	.00140	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19838	--	--	--	--	--	--
SDev	330.7913	--	--	--	--	--	--
%RSD	1.667489	--	--	--	--	--	--
#1	20208	--	--	--	--	--	--
#2	19732	--	--	--	--	--	--
#3	19573	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00011	.00038	.41869	.01680	.05181	.00124	
SDev	.00025	.00028	.00267	.00177	.00079	.00088	
%RSD	218.84	74.735	.63806	10.560	1.5216	70.767	
#1	-.00007	.00009	.42176	.01505	.05099	.00223	
#2	-.00038	.00038	.41694	.01675	.05257	.00057	
#3	.00011	.00066	.41736	.01860	.05186	.00091	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19677	--	--	--	--	--	--
SDev	84.89092	--	--	--	--	--	--
%RSD	.4314298	--	--	--	--	--	--
#1	19763	--	--	--	--	--	--
#2	19674	--	--	--	--	--	--
#3	19593	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00026	.00004	.07499	.01338	.00200	-.00082	
SDev	.00013	.00122	.00416	.00442	.00067	.00104	
%RSD	49.001	3189.8	5.5458	33.028	33.220	126.10	
#1	-.00019	.00084	.07916	.01629	.00145	.00013	
#2	-.00019	.00064	.07496	.01555	.00182	-.00192	
#3	-.00041	-.00137	.07085	.00829	.00274	-.00068	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20049	--	--	--	--	--	--
SDev	272.6442	--	--	--	--	--	--
%RSD	1.359878	--	--	--	--	--	--
#1	19866	--	--	--	--	--	--
#2	19919	--	--	--	--	--	--
#3	20363	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00212	-.00009	.24141	.04447	.00906	.00082
SDev	.00006	.00023	.00371	.00182	.00073	.00019
%RSD	3.0721	249.37	1.5352	4.0842	8.0206	22.942

#1	.00220	.00013	.24545	.04457	.00906	.00094
#2	.00208	-.00034	.24059	.04624	.00979	.00092
#3	.00210	-.00007	.23818	.04261	.00834	.00061

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20541	--	--	--	--	--	--
SDev	272.3946	--	--	--	--	--	--
%RSD	1.326133	--	--	--	--	--	--

#1	20360	--	--	--	--	--	--
#2	20408	--	--	--	--	--	--
#3	20854	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00298	-.00051	.24358	.05185	.00982	.00052	
SDev	.00046	.00104	.00494	.00058	.00074	.00153	
%RSD	15.450	205.79	2.0285	1.1212	7.5466	296.29	
#1	.00351	.00064	.24912	.05140	.00923	.00225	
#2	.00264	-.00139	.23964	.05163	.00958	-.00005	
#3	.00280	-.00077	.24197	.05250	.01065	-.00065	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19927	--	--	--	--	--	--
SDev	142.9203	--	--	--	--	--	--
%RSD	.7172331	--	--	--	--	--	--
#1	19926	--	--	--	--	--	--
#2	20070	--	--	--	--	--	--
#3	19784	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.03075	.00082	.88415	.71153	.00435	.00087
SDev	.00023	.00184	.00392	.00950	.00046	.00085
%RSD	.75660	225.07	.44335	1.3351	10.555	97.587

#1	.03052	.00099	.88845	.70292	.00486	.00186
#2	.03098	.00257	.88323	.72172	.00424	.00038
#3	.03076	-.00110	.88077	.70993	.00396	.00039

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20198	--	--	--	--	--	--
SDev	28.73753	--	--	--	--	--	--
%RSD	.1422793	--	--	--	--	--	--

#1	20183	--	--	--	--	--	--
#2	20231	--	--	--	--	--	--
#3	20180	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00034	.00016	.04260	.01411	-.00002	.00063
SDev	.00018	.00075	.00220	.00090	.00030	.00087
%RSD	52.933	470.71	5.1719	6.4033	1719.0	138.03

#1	.00054	-.00057	.04485	.01491	-.00036	-.00023
#2	.00018	.00092	.04044	.01431	.00020	.00061
#3	.00030	.00013	.04251	.01313	.00011	.00151

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20429	--	--	--	--	--	--
SDev	148.4119	--	--	--	--	--	--
%RSD	.7264662	--	--	--	--	--	--

#1	20297	--	--	--	--	--	--
#2	20590	--	--	--	--	--	--
#3	20400	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00070	-.00035	.19386	.06620	.42007	.00095
SDev	.00025	.00102	.00210	.00061	.00186	.00021
%RSD	35.987	293.06	1.0853	.92702	.44294	22.434

#1	.00090	.00050	.19600	.06691	.42064	.00072
#2	.00042	-.00148	.19180	.06585	.41799	.00114
#3	.00079	-.00006	.19379	.06584	.42158	.00098

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19952	--	--	--	--	--	--
SDev	284.9797	--	--	--	--	--	--
%RSD	1.428296	--	--	--	--	--	--

#1	19947	--	--	--	--	--	--
#2	20240	--	--	--	--	--	--
#3	19670	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00110	.00009	.22151	.07171	.41874	.00091
SDev	.00011	.00081	.00097	.00213	.00185	.00084
%RSD	10.160	935.00	.44008	2.9754	.44275	92.300

#1	.00117	.00101	.22215	.07392	.41923	.00070
#2	.00097	-.00050	.22199	.06967	.41669	.00020
#3	.00116	-.00025	.22038	.07153	.42030	.00184

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19606	--	--	--	--	--	--
SDev	190.0593	--	--	--	--	--	--
%RSD	.9694046	--	--	--	--	--	--

#1	19401	--	--	--	--	--	--
#2	19776	--	--	--	--	--	--
#3	19640	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00095	.00108	1.0883	.60544	.18986	.00074
SDev	.00016	.00077	.0057	.00682	.00299	.00131
%RSD	16.624	71.732	.52579	1.1263	1.5774	176.19

#1	.00098	.00028	1.0894	.60500	.19171	.00170
#2	.00078	.00114	1.0822	.59884	.18640	-.00075
#3	.00109	.00182	1.0934	.61246	.19146	.00128

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19792	--	--	--	--	--	--
SDev	352.2659	--	--	--	--	--	--
%RSD	1.779848	--	--	--	--	--	--

#1	19437	--	--	--	--	--	--
#2	20142	--	--	--	--	--	--
#3	19797	--	--	--	--	--	--

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Value	1.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	10.500	10.500	10.500	10.500	10.500	10.500	10.500

Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.0524	2.0223	1.9631	Q2.2587	.49992	.49001	
SDev	.0061	.0096	.0103	.0085	.00207	.00145	
%RSD	.29568	.47643	.52479	.37585	.41466	.29660	

#1	2.0463	2.0130	1.9579	Q2.2661	.49754	.49165	
#2	2.0584	2.0323	1.9749	Q2.2494	.50135	.48888	
#3	2.0526	2.0218	1.9564	Q2.2604	.50086	.48950	

Errors	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	
Value	2.0000	2.0000	2.0000	2.0000	.50000	.50000	
Range	10.500	10.500	10.500	10.500	10.500	10.500	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19498	--	--	--	--	--	--
SDev	46.33332	--	--	--	--	--	--
%RSD	.2376264	--	--	--	--	--	--

#1	19480	--	--	--	--	--	--
#2	19464	--	--	--	--	--	--
#3	19551	--	--	--	--	--	--

High	.00850	.00450	.00220	.04400	.00650	.00120	.00042
Low	-.00850	-.00450	-.00220	-.04400	-.00650	-.00120	-.00042
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00017	-.00044	-.00774	.00796	-.00247	.00068	
SDev	.00006	.00064	.00052	.00272	.00033	.00101	
%RSD	37.487	144.82	6.7807	34.200	13.310	148.02	
#1	-.00017	-.00071	-.00731	.00933	-.00277	.00041	
#2	-.00011	-.00090	-.00759	.00482	-.00251	.00180	
#3	-.00023	.00029	-.00832	.00972	-.00212	-.00016	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	.00100	.00550	.03700	.01900	.00350	.00430	
Low	-.00100	-.00550	-.03700	-.01900	-.00350	-.00430	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20596	--	--	--	--	--	--
SDev	158.4862	--	--	--	--	--	--
%RSD	.7695109	--	--	--	--	--	--
#1	20652	--	--	--	--	--	--
#2	20718	--	--	--	--	--	--
#3	20417	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00008	-.00014	.03124	.02208	.07889	.00083	
SDev	.00007	.00174	.00251	.00545	.00050	.00062	
%RSD	80.718	1217.5	8.0375	24.691	.63789	74.588	
#1	-.00012	-.00145	.03407	.01841	.07908	.00064	
#2	-.00012	.00183	.02928	.01949	.07927	.00153	
#3	-.00001	-.00080	.03038	.02835	.07832	.00033	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20102	--	--	--	--	--	--
SDev	190.4879	--	--	--	--	--	--
%RSD	.9476240	--	--	--	--	--	--
#1	20067	--	--	--	--	--	--
#2	20307	--	--	--	--	--	--
#3	19931	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.12464	.00558	.02336	.24056	.33009	.00060
SDev	.00005	.00013	.00084	.00168	.00280	.00103
%RSD	.04329	2.2771	3.6054	.69708	.84954	169.69

#1	.12471	.00573	.02242	.24028	.32818	-.00034
#2	.12461	.00550	.02361	.23904	.32878	.00170
#3	.12462	.00551	.02405	.24236	.33331	.00046

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20295	--	--	--	--	--	--
SDev	188.4658	--	--	--	--	--	--
%RSD	.9286483	--	--	--	--	--	--

#1	20152	--	--	--	--	--	--
#2	20508	--	--	--	--	--	--
#3	20224	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.13280	.00421	.02225	.49847	.30204	.00205
SDev	.00052	.00089	.00196	.00939	.00555	.00140
%RSD	.39335	21.077	8.8158	1.8839	1.8366	68.192

#1	.13248	.00403	.02327	.48800	.29756	.00181
#2	.13340	.00343	.02349	.50613	.30824	.00355
#3	.13251	.00517	.01999	.50129	.30031	.00079

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19970	--	--	--	--	--	--
SDev	439.5228	--	--	--	--	--	--
%RSD	2.200905	--	--	--	--	--	--

#1	20428	--	--	--	--	--	--
#2	19552	--	--	--	--	--	--
#3	19931	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02529	.00072	.00003	.05899	.06620	.00026
SDev	.00033	.00096	.00168	.00130	.00055	.00139
%RSD	1.3024	133.23	5220.7	2.2086	.82803	530.49

#1	.02500	.00016	.00037	.05749	.06589	-.00057
#2	.02565	.00184	.00152	.05969	.06683	.00187
#3	.02524	.00017	-.00179	.05981	.06587	-.00051

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19727	--	--	--	--	--	--
SDev	190.9492	--	--	--	--	--	--
%RSD	.9679619	--	--	--	--	--	--

#1	19947	--	--	--	--	--	--
#2	19624	--	--	--	--	--	--
#3	19610	--	--	--	--	--	--

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Value	1.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	10.500	10.500	10.500	10.500	10.500	10.500	10.500

Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.0589	2.0293	1.9552	Q2.2554	.50232	.49157	
SDev	.0050	.0124	.0094	.0190	.00518	.00839	
%RSD	.24116	.61213	.48107	.84030	1.0318	1.7059	

#1	2.0644	2.0409	1.9653	Q2.2717	.50341	.49224	
#2	2.0574	2.0308	1.9466	Q2.2346	.50688	.49960	
#3	2.0548	2.0162	1.9536	Q2.2599	.49668	.48287	

Errors	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	
Value	2.0000	2.0000	2.0000	2.0000	.50000	.50000	
Range	10.500	10.500	10.500	10.500	10.500	10.500	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	19222	--	--	--	--	--	--
SDev	313.5033	--	--	--	--	--	--
%RSD	1.630932	--	--	--	--	--	--

#1	18924	--	--	--	--	--	--
#2	19194	--	--	--	--	--	--
#3	19549	--	--	--	--	--	--

High	.00850	.00450	.00220	.04400	.00650	.00120	.00042
Low	-.00850	-.00450	-.00220	-.04400	-.00650	-.00120	-.00042

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00044	.00054	-.00478	.00934	-.00301	.00110
SDev	.00104	.00043	.00275	.00240	.00031	.00048
%RSD	235.75	79.697	57.504	25.715	10.205	43.253

#1	H.00162	.00095	-.00176	.01130	-.00334	.00164
#2	-.00035	.00057	-.00714	.00666	-.00292	.00092
#3	.00005	.00009	-.00546	.01006	-.00275	.00074

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.00100	.00550	.03700	.01900	.00350	.00430
Low	-.00100	-.00550	-.03700	-.01900	-.00350	-.00430

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	20109	--	--	--	--	--	--
SDev	288.5087	--	--	--	--	--	--
%RSD	1.434712	--	--	--	--	--	--

#1	20047	--	--	--	--	--	--
#2	20424	--	--	--	--	--	--
#3	19857	--	--	--	--	--	--

**TestAmerica Knoxville
ICP Analysis Cover Sheet**

Chart Number:	T102207	Date of Analysis:	10/22/07
Instrument:	ST2	Analyst:	KND

Standard	ID #
Calibration Std. ID #:	
CCV (1:1 dil. of Cal. Std. ID#):	3572-38
ICV ID #:	3571-14
ICSA ID #:	3573A-11
ICSAB ID #:	3573B-11
CRI ID #:	3603-9

<input checked="" type="checkbox"/> Daily	As Needed	Annually
Check that argon manifold gas pressure is 80 psi.	<input type="checkbox"/> Clean nebulizer and drain chamber.	<input type="checkbox"/> Manufacturer service engineer for scheduled preventive maintenance service.
Check that nebulizer is not clogged.	<input type="checkbox"/> Clean filters on back of power unit to remove dust.	<input type="checkbox"/> Change vacuum pump oil on ST1
Check that capillary tubing is clean and in good condition.	Replace when needed: <input type="checkbox"/> peristaltic pump tubing <input type="checkbox"/> sample capillary tubing <input type="checkbox"/> autosampler sipper probe.	
Check that peristaltic pump windings are secure.	<input type="checkbox"/> Clean and lubricate autosampler arm.	
Check that high voltage switch is on.	<input type="checkbox"/> Check that cooling water supply system is full and drain bottle is not full.	
Check that exhaust fans are working.	<input type="checkbox"/> Clean air filter on water cooling system.	
Clean plasma torch assembly to remove accumulated deposits.		
Check spray chamber O-rings		

Comments: _____

: Instrument Upload Run Log - Page 1 :
: Started Tue Oct 23 07:31:34 2007 by DAWSONK :
: Data File: UPL\$KNX_DATA_ROOT:<TJA>T102207.ARC;1 :

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
1	S0	1	22-OCT-2007	10:22:00			ST2
2	S1	1	22-OCT-2007	10:28:00			ST2
3	S2	1	22-OCT-2007	10:34:00			ST2
4	ICV	1	22-OCT-2007	10:40:00			ST2
5	ICB	1	22-OCT-2007	10:46:00			ST2
6	ICSA1	1	22-OCT-2007	10:53:00			ST2
7	ICSAB1	1	22-OCT-2007	10:59:00			ST2
8	CRDL	1	22-OCT-2007	11:05:00			ST2
9	CCV1	1	22-OCT-2007	11:11:00			ST2
10	CCB1	1	22-OCT-2007	11:17:00			ST2
11	J89P0B	1	22-OCT-2007	11:23:00	7291515	H7J180000	ST2
12	J89P0C	1	22-OCT-2007	11:29:00	7291515	H7J180000	ST2
13	J89P0L	1	22-OCT-2007	11:35:00	7291515	H7J180000	ST2
14	J8DJL	1	22-OCT-2007	11:41:00	7291515	H7J050295	ST2
15	J8DJLX	1	22-OCT-2007	11:48:00	7291515	H7J050295	ST2
16	J8DJ5	1	22-OCT-2007	11:54:00	7291515	H7J050295	ST2
17	J8DKP	1	22-OCT-2007	12:00:00	7291515	H7J050295	ST2
18	J8DLD	1	22-OCT-2007	12:06:00	7291515	H7J050295	ST2
19	J8DJLP	1	22-OCT-2007	12:12:00			ST2
20	CCV2	1	22-OCT-2007	12:18:00			ST2
21	CCB2	1	22-OCT-2007	12:24:00			ST2
22	J89P0BZ10	1	22-OCT-2007	12:30:00	7291515	H7J180000	ST2
23	J8DJLZ10	10.0	22-OCT-2007	12:36:00	7291515	H7J050295	ST2
24	J8DJLXZ10	10.0	22-OCT-2007	12:43:00	7291515	H7J050295	ST2
25	J8DJ5Z10	10.0	22-OCT-2007	12:49:00	7291515	H7J050295	ST2
26	J8DKPZ10	10.0	22-OCT-2007	12:55:00	7291515	H7J050295	ST2
27	J8DLDZ10	10.0	22-OCT-2007	13:01:00	7291515	H7J050295	ST2
28	J8DJLP50	1	22-OCT-2007	13:09:00			ST2
29	J8DJLZ10	1	22-OCT-2007	13:15:00	7291515	H7J050295	ST2
30	J8DJLXZ10	1	22-OCT-2007	13:21:00	7291515	H7J050295	ST2
31	J8DJLP50	1	22-OCT-2007	13:27:00			ST2
32	CCV3	1	22-OCT-2007	13:33:00			ST2
33	CCB3	1	22-OCT-2007	13:39:00			ST2

End of Report

STL Knoxville ICP Chart Review Checklist
Method: 6010B/200.7 - KNOX-MT-0007, Rev 7
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Chart Name:				Instrument:			
	T102207			ST2			
A. Calibration/Instrument Run QC				NA	Yes	No	If No, why is data reportable?
1. Instrument calibrated per SOP?					X		
2. ICV analyzed at beginning of run & within acceptance limits? (6010B = 90 - 110%R and <5% RSD) (200.7 = 95 - 105%R and <3% RSD)					X		
3. CCV analyzed at required frequency?					X		
4. CCV within acceptance limits? (6010B & 200.7 = 90 - 110%R and <5% RSD)					X		If no, list details: _____
5. ICB/CCB analyzed at required frequency?					X		
6. ICB/CCB within acceptance limits? (Water/Soil/Waste for 01/DQ/4U ≤3x std dev of mean blank value & ≤MDL) (Air/SEP/PM10/JN Waste <RL)					X		If no, list details: _____
7. ICSA/ICSAB run at the beginning of run?					X		
8. ICSAB interferences and analytes within limits? (80 - 120%R)					X		
9. ICSA criteria for non-interfering elements met? (Water/Soil/Waste for 01/DQ ±1x RL) (4U/Air/SEP/PM10/JN Waste ±2x RL if RL ≤10 µg/L; ±1x RL if RL >10 µg/L) If no, list analytes: _____					X		<input type="checkbox"/> [ics1] Results outside limits due to contamination. <input type="checkbox"/> [ics2] Interfering elements not present in sample at level which would result in false result >±1x RL. <input type="checkbox"/> [ics3] Concentration of affected analyte in sample is more than 10x analyte signal in ICSA.
10. Reporting Limit Check Standard (CRDL) within limits? (Water/Soil/Waste for 01 = 70-130%R) (Water/Soil for DQ = 80-120%R) (4U/Air/SEP/PM10/JN Waste = 50-150%)					X		
11. Were all exposures for the QC standards used?					X		If no, list details: _____
B. Client Sample and QC Sample Results				NA	Yes	No	
1. Were samples with concentrations > the linear range for any parameter diluted and reanalyzed?					X		Comments: <u>J8DJL, J8DJLX - diluted for Zn</u>
2. For DOD QSM projects (DQ), were samples with concentrations > the high calibration standard for any analyte diluted and reanalyzed?				X			<input type="checkbox"/> High-calibration check standard analyzed instead of running samples at a dilution. Results ± 10%.
3. Were RLs elevated due to matrix effects?						X	Comments: _____
4. Internal standard (IS) response ± 30% of ICB IS? If no, list details: _____					X		<input type="checkbox"/> [is] High IS response. Sample(s) rerun at dilution. <input type="checkbox"/> Low IS response. Sample(s) reanalyzed.
C. Preparation/Matrix QC				NA	Yes	No	
1. Method blank done per prep batch and within limits? (Waters/Soils/Waste for 01/DQ < ½ RL) (4U/Air/SEP/PM10/JN Waste <RL) If no, list blank ID and reason, i.e. [Autotext]: Blank ID [Autotext] Blank ID [Autotext] _____ _____ _____ _____					X		<input type="checkbox"/> [mb3] No analyte >RL in associated samples.* <input type="checkbox"/> [mb4] Sample results >10x blank. <input type="checkbox"/> [mb5] Insufficient sample for reanalysis.*
2. LCS done per prep batch and within QC limits? If no, list LCS ID: _____					X		<input type="checkbox"/> [lcs2] Insufficient sample for reanalysis. <input type="checkbox"/> [lcs3] LCS recovery > QC limits and sample results ND.
3. MS/MSD or MS/DUP run at required frequency?				X			<input type="checkbox"/> [lcsd] Insufficient sample - lcs/lcsd analyzed.

STL Knoxville ICP Chart Review Checklist
Method: 6010B/200.7 - KNOX-MT-0007, Rev 7
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Chart Name: T102207

C. Preparation/Matrix QC (continued)	NA	Yes	No	If No, why is data reportable?
4. MS/MSD %R and RPD within QC limits? <i>If no, list MS/MSD ID and [Autotext]:</i> <u>MS/MSD ID</u> <u>[Autotext]</u> <u>MS/MSD ID</u> <u>[Autotext]</u> _____ _____ _____	X			[ms1] [msd1] LCS acceptable - matrix effects. [ms2] [msd2] Native analyte > 4x spike level. [ms3] [msd3] Matrix effects <u>and</u> native analyte > 4x spike level.
5. PDS or PDS/PDSD analyzed at required frequency? <u>PDS ID</u> <u>Spike Level</u> <u>CLQC or Batch</u> _____ _____ _____	X			
6. Serial dilution done per prep batch?		X		
7. Was serial dilution reanalyzed at a dilution?		X	X	Comments: <u>J8DJLP50 - 1:10 for Zn</u>
8. Was the original sample analyzed on same chart as serial dilution?		X		If no, list details: _____
D. Other	NA	Yes	No	
1. Are nonconformances documented appropriately?	X			NCM #
2. Calculations checked for error? (Document manual calculation checks in comments section.)		X		
3. All client/project specific requirements met? (Review QuantIMS LIM L40 report, Lot Summary or Client Analysis Summary, and any applicable QAS.)		X		List requirements added since log-in: _____
4. Were all samples labeled correctly in the autosampler table?		X		If no, list details: _____

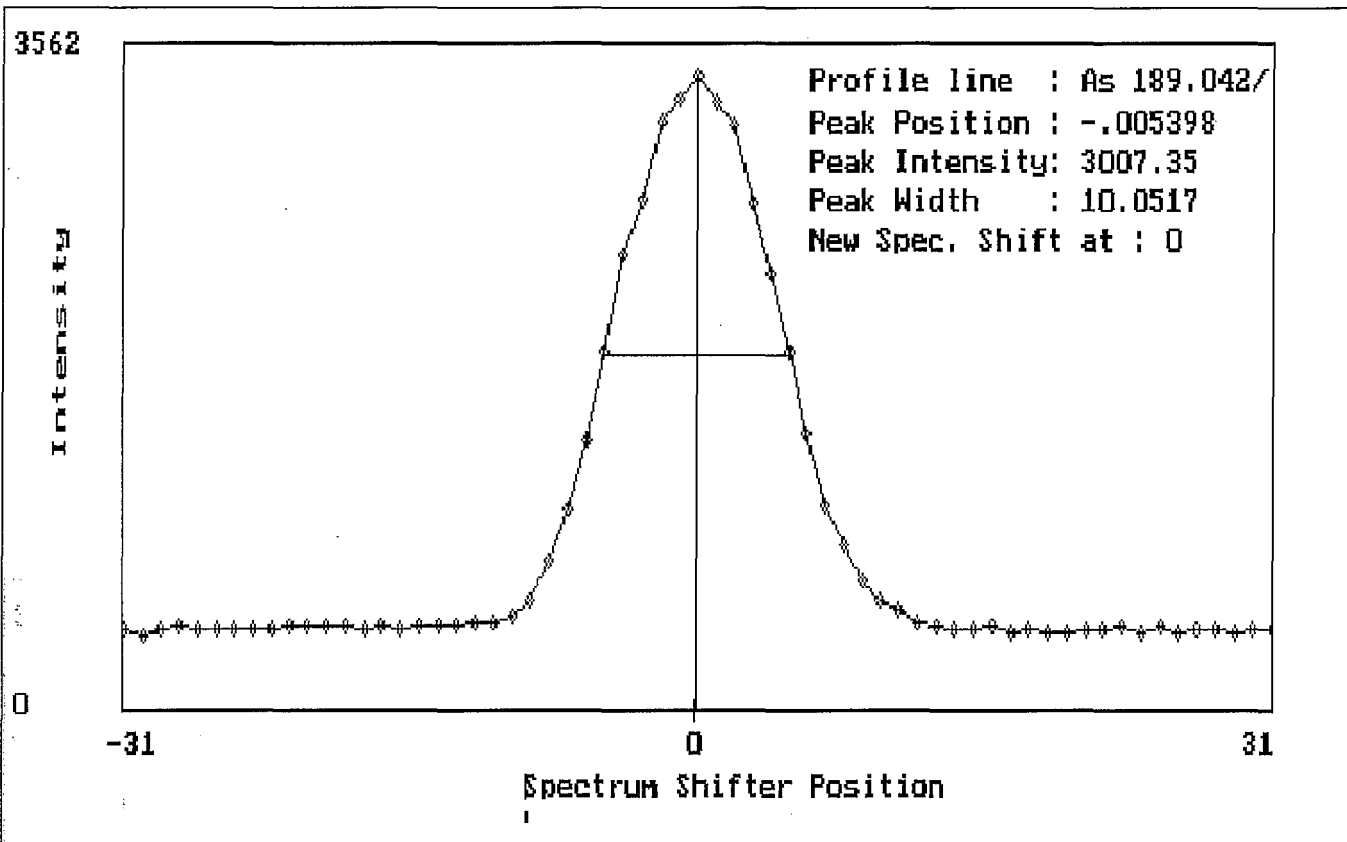
Reviewed by: KVD Date: 10/23/07

Comments:

Calculation: J8DJLP Cu at 11:41

$0.40396 \text{ mg/L} \times \frac{0.050 \text{ L}}{0.001 \text{ kg}} = 20.198 \text{ mg/kg}$

NOTE: Nonconformance memos are required for **bold** and *italicized* [autotext] statements: **Bold** = deficiency, *italicized* = anomaly



Profile Pos-277

Table Name: NEW Autosampler Type: TYPE TJA
 Sample Positions: 0/192 QC Positions: 12/19 # Sets: 1
 Rinse Station location is rack -1, pos. -1.

--- Racks ---

Rack #	Type	Usage	#Pos Left	Analyses/Pos
1	Aux. (L) Rack	STD/QC/BLANK	12	10
2	Sample (16mm)	Samples	0	1
3	Sample (16mm)	Samples	0	1
4	Sample (16mm)	Samples	0	1
5	Sample (16mm)	Samples	0	1

--- Sample Sets ---

Set#	Type	Prepare?	Description	Method	#Pos	Rack#	StartPos
1	Normal	No		TRA20607	192	2	1

--- Preparation Info ---

Set#	Uptake	Uptake#2	Final	Dil.Factor
No Samples Prepared.				

Rack #1

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	S0	-NA-	1	Standard
2	1	2	S1	-NA-	1	Standard
3	1	3	S2	-NA-	1	QC Standard
4	1	4	ICV	-NA-	1	QC Standard
5	1	5	CCV1	-NA-	1	QC Standard
6	1	6	CCV2	-NA-	1	QC Standard
7	1	7	CCV3	-NA-	1	QC Standard
(8...19 Not Used)						

Rack #2

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	ICB	1	-NA-	Sample
2	1	2	ICSA1	1	-NA-	Sample
3	1	3	ICSAB1	1	-NA-	Sample
4	1	4	CRDL	1	-NA-	Sample
5	1	5	CCB1	1	-NA-	Sample
6	1	6	J89P0B	1	-NA-	Sample
7	1	7	J89P0C	1	-NA-	Sample
8	1	8	J89P0L	1	-NA-	Sample
9	1	9	J8DJL	1	-NA-	Sample
10	1	10	J8DJLX	1	-NA-	Sample
11	1	11	J8DJ5	1	-NA-	Sample
12	1	12	J8DKP	1	-NA-	Sample
13	2	1	J8DLD	1	-NA-	Sample
14	2	2	J8DJLP	1	-NA-	Sample

Rack #2

Pos	Row	Col	Sample Name	Set #	#Used	Type
15	2	3	CCB2	1	-NA-	Sample
16	2	4	J89P0BZ10	1	-NA-	Sample
17	2	5	J8DJLZ10	1	-NA-	Sample
18	2	6	J8DJLXZ10	1	-NA-	Sample
19	2	7	J8DJ5Z10	1	-NA-	Sample
20	2	8	J8DKPZ10	1	-NA-	Sample
21	2	9	J8DLZ10	1	-NA-	Sample
22	2	10	J8DJLP50	1	-NA-	Sample
23	2	11	CCB3	1	-NA-	Sample
24	2	12		1	-NA-	Sample
25	3	1		1	-NA-	Sample
26	3	2		1	-NA-	Sample
27	3	3	(empty)	1	-NA-	-NA-
28	3	4	(empty)	1	-NA-	-NA-
29	3	5	(empty)	1	-NA-	-NA-
30	3	6	(empty)	1	-NA-	-NA-
31	3	7	(empty)	1	-NA-	-NA-
32	3	8	(empty)	1	-NA-	-NA-
33	3	9	(empty)	1	-NA-	-NA-
34	3	10	(empty)	1	-NA-	-NA-
35	3	11	(empty)	1	-NA-	-NA-
36	3	12	(empty)	1	-NA-	-NA-
37	4	1	(empty)	1	-NA-	-NA-
38	4	2	(empty)	1	-NA-	-NA-
39	4	3	(empty)	1	-NA-	-NA-
40	4	4	(empty)	1	-NA-	-NA-
41	4	5	(empty)	1	-NA-	-NA-
42	4	6	(empty)	1	-NA-	-NA-
43	4	7	(empty)	1	-NA-	-NA-
44	4	8	(empty)	1	-NA-	-NA-
45	4	9	(empty)	1	-NA-	-NA-
46	4	10	(empty)	1	-NA-	-NA-
47	4	11	(empty)	1	-NA-	-NA-
48	4	12	(empty)	1	-NA-	-NA-

Rack #3

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	(empty)	1	-NA-	-NA-
2	1	2	(empty)	1	-NA-	-NA-
3	1	3	(empty)	1	-NA-	-NA-
4	1	4	(empty)	1	-NA-	-NA-
5	1	5	(empty)	1	-NA-	-NA-
6	1	6	(empty)	1	-NA-	-NA-
7	1	7	(empty)	1	-NA-	-NA-
8	1	8	(empty)	1	-NA-	-NA-
9	1	9	(empty)	1	-NA-	-NA-
10	1	10	(empty)	1	-NA-	-NA-
11	1	11	(empty)	1	-NA-	-NA-
12	1	12	(empty)	1	-NA-	-NA-
13	2	1	(empty)	1	-NA-	-NA-
14	2	2	(empty)	1	-NA-	-NA-

Rack #3

Pos	Row	Col	Sample Name	Set #	#Used	Type
15	2	3	(empty)	1	-NA-	-NA-
16	2	4	(empty)	1	-NA-	-NA-
17	2	5	(empty)	1	-NA-	-NA-
18	2	6	(empty)	1	-NA-	-NA-
19	2	7	(empty)	1	-NA-	-NA-
20	2	8	(empty)	1	-NA-	-NA-
21	2	9	(empty)	1	-NA-	-NA-
22	2	10	(empty)	1	-NA-	-NA-
23	2	11	(empty)	1	-NA-	-NA-
24	2	12	(empty)	1	-NA-	-NA-
25	3	1	(empty)	1	-NA-	-NA-
26	3	2	(empty)	1	-NA-	-NA-
27	3	3	(empty)	1	-NA-	-NA-
28	3	4	(empty)	1	-NA-	-NA-
29	3	5	(empty)	1	-NA-	-NA-
30	3	6	(empty)	1	-NA-	-NA-
31	3	7	(empty)	1	-NA-	-NA-
32	3	8	(empty)	1	-NA-	-NA-
33	3	9	(empty)	1	-NA-	-NA-
34	3	10	(empty)	1	-NA-	-NA-
35	3	11	(empty)	1	-NA-	-NA-
36	3	12	(empty)	1	-NA-	-NA-
37	4	1	(empty)	1	-NA-	-NA-
38	4	2	(empty)	1	-NA-	-NA-
39	4	3	(empty)	1	-NA-	-NA-
40	4	4	(empty)	1	-NA-	-NA-
41	4	5	(empty)	1	-NA-	-NA-
42	4	6	(empty)	1	-NA-	-NA-
43	4	7	(empty)	1	-NA-	-NA-
44	4	8	(empty)	1	-NA-	-NA-
45	4	9	(empty)	1	-NA-	-NA-
46	4	10	(empty)	1	-NA-	-NA-
47	4	11	(empty)	1	-NA-	-NA-
48	4	12	(empty)	1	-NA-	-NA-

Rack #4

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	(empty)	1	-NA-	-NA-
2	1	2	(empty)	1	-NA-	-NA-
3	1	3	(empty)	1	-NA-	-NA-
4	1	4	(empty)	1	-NA-	-NA-
5	1	5	(empty)	1	-NA-	-NA-
6	1	6	(empty)	1	-NA-	-NA-
7	1	7	(empty)	1	-NA-	-NA-
8	1	8	(empty)	1	-NA-	-NA-
9	1	9	(empty)	1	-NA-	-NA-
10	1	10	(empty)	1	-NA-	-NA-
11	1	11	(empty)	1	-NA-	-NA-
12	1	12	(empty)	1	-NA-	-NA-
13	2	1	(empty)	1	-NA-	-NA-
14	2	2	(empty)	1	-NA-	-NA-

Rack #4

Pos	Row	Col	Sample Name	Set #	#Used	Type
15	2	3	(empty)	1	-NA-	-NA-
16	2	4	(empty)	1	-NA-	-NA-
17	2	5	(empty)	1	-NA-	-NA-
18	2	6	(empty)	1	-NA-	-NA-
19	2	7	(empty)	1	-NA-	-NA-
20	2	8	(empty)	1	-NA-	-NA-
21	2	9	(empty)	1	-NA-	-NA-
22	2	10	(empty)	1	-NA-	-NA-
23	2	11	(empty)	1	-NA-	-NA-
24	2	12	(empty)	1	-NA-	-NA-
25	3	1	(empty)	1	-NA-	-NA-
26	3	2	(empty)	1	-NA-	-NA-
27	3	3	(empty)	1	-NA-	-NA-
28	3	4	(empty)	1	-NA-	-NA-
29	3	5	(empty)	1	-NA-	-NA-
30	3	6	(empty)	1	-NA-	-NA-
31	3	7	(empty)	1	-NA-	-NA-
32	3	8	(empty)	1	-NA-	-NA-
33	3	9	(empty)	1	-NA-	-NA-
34	3	10	(empty)	1	-NA-	-NA-
35	3	11	(empty)	1	-NA-	-NA-
36	3	12	(empty)	1	-NA-	-NA-
37	4	1	(empty)	1	-NA-	-NA-
38	4	2	(empty)	1	-NA-	-NA-
39	4	3	(empty)	1	-NA-	-NA-
40	4	4	(empty)	1	-NA-	-NA-
41	4	5	(empty)	1	-NA-	-NA-
42	4	6	(empty)	1	-NA-	-NA-
43	4	7	(empty)	1	-NA-	-NA-
44	4	8	(empty)	1	-NA-	-NA-
45	4	9	(empty)	1	-NA-	-NA-
46	4	10	(empty)	1	-NA-	-NA-
47	4	11	(empty)	1	-NA-	-NA-
48	4	12	(empty)	1	-NA-	-NA-

Rack #5

Pos	Row	Col	Sample Name	Set #	#Used	Type
1	1	1	(empty)	1	-NA-	-NA-
2	1	2	(empty)	1	-NA-	-NA-
3	1	3	(empty)	1	-NA-	-NA-
4	1	4	(empty)	1	-NA-	-NA-
5	1	5	(empty)	1	-NA-	-NA-
6	1	6	(empty)	1	-NA-	-NA-
7	1	7	(empty)	1	-NA-	-NA-
8	1	8	(empty)	1	-NA-	-NA-
9	1	9	(empty)	1	-NA-	-NA-
10	1	10	(empty)	1	-NA-	-NA-
11	1	11	(empty)	1	-NA-	-NA-
12	1	12	(empty)	1	-NA-	-NA-
13	2	1	(empty)	1	-NA-	-NA-
14	2	2	(empty)	1	-NA-	-NA-

Rack #5

Pos	Row	Col	Sample Name	Set #	#Used	Type
15	2	3	(empty)	1	-NA-	-NA-
16	2	4	(empty)	1	-NA-	-NA-
17	2	5	(empty)	1	-NA-	-NA-
18	2	6	(empty)	1	-NA-	-NA-
19	2	7	(empty)	1	-NA-	-NA-
20	2	8	(empty)	1	-NA-	-NA-
21	2	9	(empty)	1	-NA-	-NA-
22	2	10	(empty)	1	-NA-	-NA-
23	2	11	(empty)	1	-NA-	-NA-
24	2	12	(empty)	1	-NA-	-NA-
25	3	1	(empty)	1	-NA-	-NA-
26	3	2	(empty)	1	-NA-	-NA-
27	3	3	(empty)	1	-NA-	-NA-
28	3	4	(empty)	1	-NA-	-NA-
29	3	5	(empty)	1	-NA-	-NA-
30	3	6	(empty)	1	-NA-	-NA-
31	3	7	(empty)	1	-NA-	-NA-
32	3	8	(empty)	1	-NA-	-NA-
33	3	9	(empty)	1	-NA-	-NA-
34	3	10	(empty)	1	-NA-	-NA-
35	3	11	(empty)	1	-NA-	-NA-
36	3	12	(empty)	1	-NA-	-NA-
37	4	1	(empty)	1	-NA-	-NA-
38	4	2	(empty)	1	-NA-	-NA-
39	4	3	(empty)	1	-NA-	-NA-
40	4	4	(empty)	1	-NA-	-NA-
41	4	5	(empty)	1	-NA-	-NA-
42	4	6	(empty)	1	-NA-	-NA-
43	4	7	(empty)	1	-NA-	-NA-
44	4	8	(empty)	1	-NA-	-NA-
45	4	9	(empty)	1	-NA-	-NA-
46	4	10	(empty)	1	-NA-	-NA-
47	4	11	(empty)	1	-NA-	-NA-
48	4	12	(empty)	1	-NA-	-NA-

Method: TRA20607 Standard: S0

Run Time: 10/22/07 10:22:20

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	.01590	.01021	-.00185	.00101	-.04397	.00246	-.00427
SDev	.00028	.00300	.00443	.00018	.00122	.00151	.00016
%RSD	1.7345	29.412	239.99	18.156	2.7852	61.351	3.8271
#1	.01622	.01251	.00227	.00122	-.04527	.00421	-.00410
#2	.01570	.00681	-.00654	.00087	-.04284	.00153	-.00431
#3	.01579	.01132	-.00127	.00094	-.04379	.00166	-.00442
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Avge	.00258	-.00081	.00048	-.00049	.04381	-.00731	.00035
SDev	.00143	.00006	.00023	.00050	.02723	.01053	.00098
%RSD	55.316	7.0268	47.216	100.43	62.154	143.99	282.14
#1	.00299	-.00077	.00072	.00000	.02811	.00055	.00122
#2	.00376	-.00087	.00027	-.00049	.02807	-.00322	.00055
#3	.00099	-.00077	.00044	-.00099	.07526	-.01927	-.00072
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Avge	.00018	.28511	.00022	-.01950	.01772	.13487	.00300
SDev	.00009	.00386	.00020	.00436	.00508	.00252	.00154
%RSD	46.231	1.3540	90.453	22.335	28.637	1.8722	51.464
#1	.00017	.28224	.00039	-.02418	.01422	.13287	.00443
#2	.00011	.28358	.00027	-.01875	.02355	.13402	.00136
#3	.00028	.28950	.00000	-.01557	.01541	.13771	.00320
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Avge	-.01512	.00101	.00013	.00281	-.00193	.00018	.00044
SDev	.00177	.00047	.00025	.00016	.00030	.00017	.00015
%RSD	11.701	46.300	195.73	5.6721	15.343	95.684	33.690
#1	-.01317	.00155	.00028	.00277	-.00172	.00011	.00061
#2	-.01662	.00076	-.00016	.00267	-.00180	.00038	.00033
#3	-.01557	.00072	.00028	.00298	-.00226	.00006	.00039
Elem	Ti	Sn	Si	P_			
Avge	-.00053	-.01142	.00989	.09226			
SDev	.00003	.00200	.00055	.00200			
%RSD	5.5265	17.465	5.5728	2.1653			
#1	-.00050	-.01295	.01051	.09225			
#2	-.00055	-.01215	.00948	.09026			
#3	-.00055	-.00917	.00966	.09425			

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18176	--	--	--	--	--	--
SDev	149.8840	--	--	--	--	--	--
%RSD	.8246295	--	--	--	--	--	--
#1	18070	--	--	--	--	--	--
#2	18347	--	--	--	--	--	--
#3	18111	--	--	--	--	--	--

Method: TRA20607 Standard: S1

Run Time: 10/22/07 10:28:32

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Avge	7.7601	2.9318	3.1557	9.6522	18.932	16.441	27.967
SDev	.0374	.0061	.0141	.0106	.030	.157	.086
%RSD	.48140	.20840	.44803	.10989	.15649	.95372	.30595
#1	7.7371	2.9372	3.1419	9.6501	18.909	16.393	27.901
#2	7.8032	2.9329	3.1702	9.6637	18.965	16.314	28.064
#3	7.7399	2.9252	3.1550	9.6428	18.921	16.616	27.936
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Avge	9.4986	2.8438	2.1375	2.8307	12.295	6.3466	29.422
SDev	.0074	.0089	.0085	.0051	.103	.0576	.093
%RSD	.07745	.31128	.39661	.18097	.84179	.90684	.31446
#1	9.4903	2.8343	2.1365	2.8259	12.216	6.2805	29.319
#2	9.5012	2.8519	2.1465	2.8301	12.257	6.3855	29.451
#3	9.5044	2.8451	2.1296	2.8361	12.412	6.3738	29.497
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Avge	8.8136	16.954	2.7731	2.2822	2.5158	5.9954	2.3095
SDev	.0227	.032	.0076	.0172	.0340	.0114	.0122
%RSD	.25726	.18584	.27263	.75306	1.3523	.18948	.52991
#1	8.7927	16.961	2.7726	2.2721	2.4840	5.9920	2.2996
#2	8.8104	16.982	2.7809	2.2724	2.5116	6.0081	2.3232
#3	8.8377	16.920	2.7658	2.3020	2.5517	5.9862	2.3058
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Avge	3.8302	1.9632	9.2132	2.8288	4.8512	26.801	48.334
SDev	.0189	.0025	.0133	.0076	.0287	.073	.145
%RSD	.49240	.12627	.14396	.26889	.59087	.27086	.30005
#1	3.8221	1.9605	9.2029	2.8308	4.8221	26.847	48.400
#2	3.8167	1.9639	9.2282	2.8353	4.8794	26.838	48.433
#3	3.8517	1.9653	9.2086	2.8204	4.8520	26.717	48.167
Elem	Ti	Sn	Si	P_			
Avge	3.4377	21.126	.51278	3.8731			
SDev	.0076	.039	.00144	.0200			
%RSD	.22113	.18608	.28071	.51579			
#1	3.4291	21.086	.51215	3.8624			
#2	3.4407	21.165	.51442	3.8608			
#3	3.4434	21.127	.51175	3.8962			

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17654	--	--	--	--	--	--
SDev	67.81104	--	--	--	--	--	--
%RSD	.3841202	--	--	--	--	--	--
#1	17598	--	--	--	--	--	--
#2	17633	--	--	--	--	--	--
#3	17729	--	--	--	--	--	--

Standardization

Report

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Method: TRA20607

Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Al	308.215	S1	S0	6.46248	-.102762	10/22/07 10:28:32
Sb	206.838	S1	S0	.332372	-.003395	10/22/07 10:28:32
As	189.042	S1	S0	.312143	.000577	10/22/07 10:28:32
Ba	493.409	S1	S0	.414455	-.000418	10/22/07 10:28:32
Be	313.042	S1	S0	.209070	.009192	10/22/07 10:28:32
Cd	226.502	S1	S0	.060929	-.000150	10/22/07 10:28:32
Ca	317.933	S1	S0	3.57512	.015276	10/22/07 10:28:32
Cr	267.714	S1	S0	.421159	-.001087	10/22/07 10:28:32
Co	228.616	S1	S0	1.40943	.001137	10/22/07 10:28:32
Cu	324.754	S1	S0	1.87173	-.000894	10/22/07 10:28:32
Fe	271.441	S1	S0	17.7657	.008791	10/22/07 10:28:32
Pb/1	220.351	S1	S0	.083244	-.003647	10/22/07 10:28:32
Pb/2	220.352	S1	S0	.156581	.001145	10/22/07 10:28:32
Mg	279.079	S1	S0	3.39881	-.001184	10/22/07 10:28:32
Mn	257.610	S1	S0	.453977	-.000083	10/22/07 10:28:32
K_	766.491	S1	S0	1.11160	-.027263	10/22/07 10:28:32
Ni	231.604	S1	S0	1.44253	-.000317	10/22/07 10:28:32
Se/1	196.021	S1	S0	.434214	.008468	10/22/07 10:28:32
Se/2	196.022	S1	S0	.395753	-.007015	10/22/07 10:28:32
Ag	328.068	S1	S0	.341341	-.046036	10/22/07 10:28:32
Na	330.232	S1	S0	1.07322	-.001263	10/22/07 10:28:32
Tl	190.864	S1	S0	.516897	.007816	10/22/07 10:28:32
V_	292.402	S1	S0	1.97801	-.001998	10/22/07 10:28:32
Zn	213.856	S1	S0	.436805	-.000057	10/22/07 10:28:32
B_	249.678	S1	S0	1.41542	-.003972	10/22/07 10:28:32
Mo	202.030	S1	S0	.824209	.001587	10/22/07 10:28:32
Li	670.784	S1	S0	.149250	-.000027	10/22/07 10:28:32
Sr	421.552	S1	S0	.082798	-.000036	10/22/07 10:28:32
Ti	334.941	S1	S0	1.16338	.000619	10/22/07 10:28:32
Sn	189.989	S1	S0	.189237	.002162	10/22/07 10:28:32
Si	288.158	S1	S0	7.95403	-.078642	10/22/07 10:28:32
P_	178.287	S1	S0	1.05996	-.097787	10/22/07 10:28:32
Pb	220.353	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED
Se	196.026	NONE	NONE	1.00000	.000000	*NOT STANDARDIZED

Analysis Report

QC Standard

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Value	.50000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Range	10.500	10.500	10.500	10.500	10.500	10.500	10.500

Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.0105	.99271	.99782	.98298	.25050	.24526	
SDev	.0038	.00213	.00179	.00486	.00317	.00547	
%RSD	.38078	.21496	.17922	.49439	1.2654	2.2308	

#1	1.0062	.99026	.99848	.98852	.24701	.23899	
#2	1.0137	.99415	.99580	.98098	.25128	.24774	
#3	1.0115	.99373	.99919	.97944	.25321	.24906	

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	
Value	1.0000	1.0000	1.0000	1.0000	.25000	.25000	
Range	10.500	10.500	10.500	10.500	10.500	10.500	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18000	--	--	--	--	--	--
SDev	101.3401	--	--	--	--	--	--
%RSD	.5630096	--	--	--	--	--	--

#1	17885	--	--	--	--	--	--
#2	18078	--	--	--	--	--	--
#3	18036	--	--	--	--	--	--

Analysis Report

QC Standard

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Value	.50000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Range	10.500	10.500	10.500	10.500	10.500	10.500	10.500

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0179	.99070	1.0379	1.0045	.25312	.25058
SDev	.0016	.00278	.0051	.0107	.00177	.00105
%RSD	.15359	.28010	.48895	1.0652	.69925	.41965

#1	1.0187	.99380	1.0419	1.0120	.25263	.24945
#2	1.0189	.98985	1.0322	1.0092	.25165	.25075
#3	1.0161	.98845	1.0395	.99223	.25509	.25154

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.0000	1.0000	1.0000	1.0000	.25000	.25000
Range	10.500	10.500	10.500	10.500	10.500	10.500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18314	--	--	--	--	--	--
SDev	147.6095	--	--	--	--	--	--
%RSD	.8059896	--	--	--	--	--	--

#1	18165	--	--	--	--	--	--
#2	18460	--	--	--	--	--	--
#3	18317	--	--	--	--	--	--

High	.00850	.00450	.00220	.04400	.00650	.00120	.00042
Low	-.00850	-.00450	-.00220	-.04400	-.00650	-.00120	-.00042
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00002	.00004	-.00122	-.00279	.00029	-.00043	
SDev	.00018	.00053	.00261	.00274	.00030	.00074	
%RSD	1023.9	1485.2	214.04	98.244	102.64	172.40	
#1	.00012	.00045	.00127	-.00370	.00004	.00030	
#2	-.00019	.00021	-.00394	-.00497	.00021	-.00042	
#3	.00012	-.00056	-.00099	.00029	.00063	-.00118	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	.00100	.00550	.03700	.01900	.00350	.00430	
Low	-.00100	-.00550	-.03700	-.01900	-.00350	-.00430	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18698	--	--	--	--	--	--
SDev	49.71679	--	--	--	--	--	--
%RSD	.2658902	--	--	--	--	--	--
#1	18713	--	--	--	--	--	--
#2	18739	--	--	--	--	--	--
#3	18643	--	--	--	--	--	--

Method: TRA20607 Sample Name: ICSA1

Operator:

Run Time: 10/22/07 10:53:02

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	484.05	-.00054	-.00081	.00093	-.00063	-.00143	447.08
SDev	3.58	.00606	.00178	.00005	.00028	.00015	2.43
%RSD	.74042	1116.7	219.63	5.0667	44.678	10.593	.54304
#1	479.92	.00042	-.00075	.00093	-.00095	-.00126	444.39
#2	485.88	-.00702	.00094	.00088	-.00050	-.00151	447.77
#3	486.34	.00497	-.00262	.00097	-.00043	-.00153	449.10
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	602.45	.06000	.02000	.01000	.01000	.00500	602.45
Low	397.55	-.06000	-.02000	-.01000	-.01000	-.00500	397.55
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00139	.00102	.00158	195.14	.00070	-.00068	524.34
SDev	.00040	.00047	.00029	1.23	.00912	.00503	2.60
%RSD	28.921	45.847	18.277	.63094	1307.4	740.96	.49674
#1	.00179	.00054	.00137	193.79	.01085	-.00647	521.47
#2	.00140	.00105	.00147	195.45	-.00195	.00253	524.98
#3	.00098	.00147	.00191	196.19	-.00680	.00191	526.56
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.01500	.05000	.02500	240.98			602.45
Low	-.01500	-.05000	-.02500	159.02			397.55
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00078	.20734	.00319	.00147	-.00813	.00204	-.82362
SDev	.00019	.00602	.00014	.00647	.00391	.00026	.13030
%RSD	24.710	2.9044	4.5142	439.48	48.082	12.683	15.821
#1	.00091	.21414	.00334	.00495	-.01262	.00234	-.68049
#2	.00056	.20267	.00316	-.00599	-.00547	.00188	-.85503
#3	.00088	.20521	.00306	.00546	-.00630	.00191	-.93535
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	.01500		.04000			.02000	5.0000
Low	-.01500		-.04000			-.02000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00031	-.02358	.00932	.00594	-.00121	.00054	-.00279
SDev	.00757	.00970	.00030	.00021	.00145	.00006	.00002
%RSD	2447.1	41.124	3.2219	3.5411	119.59	11.722	.86411
#1	.00670	-.03477	.00909	.00611	-.00264	.00052	-.00280
#2	-.00834	-.01827	.00922	.00600	-.00124	.00049	-.00276
#3	.00071	-.01770	.00966	.00571	.00025	.00061	-.00281
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass

High	.02000	.02000	.04000	.05000	.05000
Low	-.02000	-.02000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00134	.00271	.04680	.02209	.00050	-.00449
SDev	.00101	.00147	.00224	.00028	.00110	.00225
%RSD	75.339	54.204	4.7887	1.2807	219.23	50.097

#1	.00076	.00390	.04478	.02212	.00002	-.00628
#2	.00251	.00107	.04641	.02179	.00176	-.00522
#3	.00076	.00317	.04921	.02236	-.00027	-.00197

Errors	LC Pass	LC Pass	LC Pass	NOCHECK	LC Pass	LC Pass
High	.05000	.10000	.50000		.00800	.01000
Low	-.05000	-.10000	-.50000		-.00800	-.01000

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	16612	--	--	--	--	--	--
SDev	55.99645	--	--	--	--	--	--
%RSD	.3370776	--	--	--	--	--	--

#1	16563	--	--	--	--	--	--
#2	16601	--	--	--	--	--	--
#3	16673	--	--	--	--	--	--

High	.12049	.60245	1.2049	1.2049	1.2049	1.2049	1.2049
Low	.07951	.39755	.79510	.79510	.79510	.79510	.79510

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.0202	.95332	1.0633	1.0155	.04908	.04957
SDev	.0014	.00626	.0077	.0094	.00134	.00167
%RSD	.13594	.65664	.72275	.92909	2.7203	3.3765

#1	1.0190	.95535	1.0639	1.0263	.04792	.04766
#2	1.0199	.94630	1.0706	1.0093	.05054	.05076
#3	1.0217	.95831	1.0553	1.0108	.04878	.05029

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.2049	1.2049	1.2049	1.2049	.06024	.06024
Low	.79510	.79510	.79510	.79510	.03976	.03976

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17507	--	--	--	--	--	--
SDev	219.9255	--	--	--	--	--	--
%RSD	1.256183	--	--	--	--	--	--

#1	17480	--	--	--	--	--	--
#2	17302	--	--	--	--	--	--
#3	17740	--	--	--	--	--	--

High	.01500	.07500	.03000	.30000	.06000	.07500	.07500
Low	.00500	.02500	.01000	.10000	.02000	.02500	.02500

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.05136	.09016	.54928	.29431	.00400	.00533
SDev	.00028	.00117	.00497	.00370	.00003	.00071
%RSD	.54209	1.3023	.90448	1.2584	.83370	13.349

#1	.05166	.08921	.55291	.29565	.00396	.00455
#2	.05112	.08978	.55132	.29012	.00403	.00550
#3	.05131	.09147	.54362	.29716	.00401	.00594

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.07500	.15000	.75000	.45000	.00600	.00750
Low	.02500	.05000	.25000	.15000	.00200	.00250

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18204	--	--	--	--	--	--
SDev	178.2477	--	--	--	--	--	--
%RSD	.9791868	--	--	--	--	--	--

#1	18073	--	--	--	--	--	--
#2	18131	--	--	--	--	--	--
#3	18407	--	--	--	--	--	--

Analysis Report

QC Standard

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Value	1.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	10.500	10.500	10.500	10.500	10.500	10.500	10.500

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0358	1.9977	2.0006	1.9810	.50597	.49866
SDev	.0146	.0221	.0207	.0229	.00312	.00528
%RSD	.71703	1.1087	1.0326	1.1545	.61638	1.0591

#1	2.0444	2.0149	2.0105	1.9882	.50764	.49980
#2	2.0439	2.0055	2.0144	1.9995	.50790	.50328
#3	2.0189	1.9727	1.9769	1.9555	.50237	.49291

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.0000	2.0000	2.0000	2.0000	.50000	.50000
Range	10.500	10.500	10.500	10.500	10.500	10.500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17550	--	--	--	--	--	--
SDev	367.0663	--	--	--	--	--	--
%RSD	2.091501	--	--	--	--	--	--

#1	17163	--	--	--	--	--	--
#2	17595	--	--	--	--	--	--
#3	17893	--	--	--	--	--	--

High	.00850	.00450	.00220	.04400	.00650	.00120	.00042
Low	-.00850	-.00450	-.00220	-.04400	-.00650	-.00120	-.00042
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	-.00000	.00150	-.00098	.00293	.00119	-.00033	
SDev	.00006	.00118	.00242	.00262	.00088	.00090	
%RSD	3256.4	79.103	247.52	89.295	73.985	267.89	
#1	.00002	.00096	-.00015	.00423	.00065	.00069	
#2	.00004	.00068	.00092	-.00008	.00221	-.00099	
#3	-.00007	.00285	-.00370	.00464	.00072	-.00070	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	.00100	.00550	.03700	.01900	.00350	.00430	
Low	-.00100	-.00550	-.03700	-.01900	-.00350	-.00430	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18101	--	--	--	--	--	--
SDev	471.4609	--	--	--	--	--	--
%RSD	2.604658	--	--	--	--	--	--
#1	17632	--	--	--	--	--	--
#2	18095	--	--	--	--	--	--
#3	18575	--	--	--	--	--	--

Method: TRA20607 Sample Name: J89P0B

Operator:

Run Time: 10/22/07 11:23:36

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00423	.00246	.00004	.00004	.00012	.00032	.02259
SDev	.00271	.00360	.00030	.00013	.00023	.00009	.00099
%RSD	64.009	146.14	691.59	357.48	194.42	29.253	4.3783
#1	.00411	.00050	.00035	.00002	-.00015	.00041	.02202
#2	.00159	.00027	-.00024	-.00008	.00025	.00030	.02201
#3	.00700	.00662	.00002	.00017	.00025	.00023	.02373
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20000	.03000	.01000	.00500	.00500	.00250	2.5000
Low	-.20000	-.03000	-.01000	-.00500	-.00500	-.00250	-2.5000
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00002	.00019	.00034	.00922	.00093	-.00087	.00029
SDev	.00063	.00108	.00072	.01833	.00951	.00411	.00686
%RSD	3996.6	566.28	214.07	198.77	1021.5	469.86	2351.5
#1	.00071	-.00004	.00004	.00781	.00855	-.00295	.00014
#2	-.00016	-.00076	-.00019	-.00836	.00397	-.00353	-.00649
#3	-.00051	.00137	.00116	.02823	-.00972	.00386	.00723
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.00750	.02500	.01250	.10000			2.5000
Low	-.00750	-.02500	-.01250	-.10000			-2.5000
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00017	.21677	-.00008	.00145	.00068	.00186	-1.1045
SDev	.00014	.02607	.00071	.00937	.00363	.00141	.1721
%RSD	80.438	12.028	932.90	646.35	532.26	75.812	15.584
#1	.00032	.24158	.00072	.00842	-.00139	.00322	-.91215
#2	.00016	.18959	-.00032	.00513	-.00144	.00040	-1.1573
#3	.00004	.21915	-.00063	-.00920	.00487	.00197	-1.2440
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	.00750	2.5000	.02000			.01000	2.5000
Low	-.00750	-2.5000	-.02000			-.01000	-2.5000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00258	.00058	.00209	H127.78	.00291	.00008	-.00000
SDev	.00132	.00225	.00023	.47	.00085	.00009	.00005
%RSD	51.166	386.72	10.997	.36914	29.279	110.95	1131.2
#1	-.00274	.00042	.00219	H128.31	.00355	.00017	.00001
#2	-.00381	-.00158	.00183	H127.42	.00194	.00000	-.00006
#3	-.00119	.00291	.00225	H127.61	.00322	.00005	.00004
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass

High	.01000	.01250	.02000	.10000	.02000	.02500	.02500
Low	-.01000	-.01250	-.02000	-.10000	-.02000	-.02500	-.02500
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00007	.00375	H22.910	.01555	.00016	.00134	
SDev	.00023	.00074	4.471	.00396	.00102	.00084	
%RSD	336.15	19.794	19.516	25.461	618.28	62.693	
#1	.00017	.00461	H18.044	.01575	.00132	.00226	
#2	-.00020	.00327	H23.848	.01150	-.00060	.00113	
#3	.00023	.00338	H26.837	.01941	-.00022	.00063	
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	
High	.02500	.05000	.25000	.15000	.00400	.00500	
Low	-.02500	-.05000	-.25000	-.15000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18263	--	--	--	--	--	--
SDev	289.6687	--	--	--	--	--	--
%RSD	1.586096	--	--	--	--	--	--
#1	18019	--	--	--	--	--	--
#2	18583	--	--	--	--	--	--
#3	18187	--	--	--	--	--	--

Method: TRA20607 Sample Name: J89P0C

Operator:

Run Time: 10/22/07 11:29:42

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0407	.49009	.09718	.10280	.04996	.05101	50.063
SDev	.0110	.00260	.00261	.00069	.00040	.00023	.267
%RSD	.53820	.53097	2.6811	.67510	.80169	.44277	.53381
#1	2.0323	.48719	.09510	.10200	.04953	.05081	49.761
#2	2.0531	.49089	.09633	.10325	.05032	.05095	50.271
#3	2.0366	.49221	.10010	.10316	.05002	.05125	50.156
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.4098	.60245	.12049	.12049	.06024	.06024	60.245
Low	1.5902	.39755	.07951	.07951	.03976	.03976	39.755
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.20261	.10113	.25110	1.0261	.10177	.09917	9.3877
SDev	.00158	.00117	.00140	.0170	.00446	.00156	.0658
%RSD	.77800	1.1526	.55879	1.6580	4.3796	1.5739	.70059
#1	.20079	.09989	.24948	1.0183	.10692	.09737	9.3121
#2	.20351	.10131	.25202	1.0144	.09926	.09996	9.4317
#3	.20352	.10220	.25179	1.0456	.09914	.10018	9.4193
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.24098	.12049	.30123	1.2049			12.049
Low	.15902	.07951	.19877	.79510			7.9510
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10201	49.832	.50787	.13954	.13939	.04983	49.117
SDev	.00089	.324	.00369	.00064	.00102	.00043	.367
%RSD	.87113	.64978	.72685	.46221	.72948	.86340	.74636
#1	.10098	50.054	.50371	.13924	.14044	.04998	49.433
#2	.10248	49.981	.50915	.14028	.13841	.05017	49.203
#3	.10255	49.460	.51076	.13911	.13932	.04935	48.715
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	.12049		.60245			.06024	60.245
Low	.07951		.39755			.03976	39.755
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.38598	.20155	.52413	128.03	.50393	.10373	.51678
SDev	.00184	.00194	.00393	1.12	.00447	.00081	.00349
%RSD	.47699	.96040	.74961	.87596	.88598	.78215	.67622
#1	.38406	.19975	.51965	127.03	.49882	.10426	.51277
#2	.38617	.20130	.52576	129.24	.50593	.10413	.51918
#3	.38773	.20360	.52698	127.82	.50705	.10280	.51839
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass

High	.48196	.60245	.60245	.12049	.60245
Low	.31804	.39755	.39755	.07951	.39755

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10299	.50059	H30.477	4.8317	.10062	.13985
SDev	.00068	.00299	4.373	.0711	.00043	.00056
%RSD	.66036	.59750	14.350	1.4710	.42956	.40295

#1	.10221	.49797	H25.515	4.7497	.10111	.14049
#2	.10337	.49995	H32.149	4.8763	.10040	.13943
#3	.10340	.50385	H33.768	4.8690	.10033	.13964

Errors	LC Pass	LC Pass	LC High	NOCHECK	LC Pass	LC Pass
High	.12049	.60245	6.0245		.12049	.18074
Low	.07951	.39755	3.9755		.07951	.11926

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17849	--	--	--	--	--	--
SDev	99.09618	--	--	--	--	--	--
%RSD	.5552065	--	--	--	--	--	--

#1	17784	--	--	--	--	--	--
#2	17799	--	--	--	--	--	--
#3	17963	--	--	--	--	--	--

Method: TRA20607 Sample Name: J89P0L

Operator:

Run Time: 10/22/07 11:35:49

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0476	.48782	.09652	.10286	.04933	.05023	49.554
SDev	.0286	.00479	.00128	.00034	.00024	.00085	.074
%RSD	1.3981	.98099	1.3229	.32849	.48833	1.6822	.14868
#1	2.0581	.48439	.09520	.10279	.04908	.05082	49.482
#2	2.0695	.48579	.09662	.10323	.04935	.05060	49.629
#3	2.0152	.49329	.09775	.10257	.04956	.04926	49.550
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.4098	.60245	.12049	.12049	.06024	.06024	60.245
Low	1.5902	.39755	.07951	.07951	.03976	.03976	39.755
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.20056	.10109	.25149	1.0140	.09830	.09922	9.3034
SDev	.00081	.00058	.00141	.0111	.00474	.00046	.0221
%RSD	.40226	.57498	.56048	1.0926	4.8246	.46499	.23781
#1	.20007	.10106	.25180	1.0155	.10254	.09891	9.2986
#2	.20149	.10052	.25273	1.0023	.09919	.09901	9.3276
#3	.20013	.10168	.24996	1.0243	.09318	.09975	9.2841
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.24098	.12049	.30123	1.2049			12.049
Low	.15902	.07951	.19877	.79510			7.9510
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10130	50.835	.50347	.13992	.13972	.04810	49.574
SDev	.00014	.518	.00266	.00173	.00334	.00065	1.033
%RSD	.13462	1.0183	.52763	1.2391	2.3887	1.3450	2.0844
#1	.10118	50.999	.50078	.14003	.14356	.04833	50.009
#2	.10145	51.251	.50609	.14160	.13810	.04861	50.317
#3	.10126	50.255	.50356	.13814	.13750	.04737	48.394
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	.12049		.60245			.06024	60.245
Low	.07951		.39755			.03976	39.755
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.38309	.20046	.52079	127.98	.50418	.10421	.51668
SDev	.00172	.00096	.00114	.78	.00079	.00150	.00100
%RSD	.44880	.47790	.21953	.61281	.15597	1.4387	.19395
#1	.38235	.20002	.51993	128.25	.50401	.10490	.51642
#2	.38506	.19980	.52209	128.59	.50348	.10524	.51779
#3	.38186	.20156	.52035	127.10	.50503	.10249	.51584
Errors	LC Pass	NOCHECK	LC Pass	NOCHECK	LC Pass	LC Pass	LC Pass

High	.48196	.60245	.60245	.12049	.60245
Low	.31804	.39755	.39755	.07951	.39755

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.10221	.49781	H26.911	4.7993	.09945	.14020
SDev	.00008	.00129	2.180	.0017	.00128	.00238
%RSD	.08021	.26002	8.0995	.03458	1.2921	1.6946

#1	.10228	.49784	H24.413	4.7977	.10067	.14278
#2	.10212	.49651	H27.899	4.7992	.09957	.13971
#3	.10223	.49910	H28.422	4.8010	.09811	.13810

Errors	LC Pass	LC Pass	LC High	NOCHECK	LC Pass	LC Pass
High	.12049	.60245	6.0245		.12049	.18074
Low	.07951	.39755	3.9755		.07951	.11926

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18044	--	--	--	--	--	--
SDev	179.7603	--	--	--	--	--	--
%RSD	.9962339	--	--	--	--	--	--

#1	17955	--	--	--	--	--	--
#2	17926	--	--	--	--	--	--
#3	18251	--	--	--	--	--	--

Method: TRA20607 Sample Name: J8DJL

Operator:

Run Time: 10/22/07 11:41:55

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	296.21	.05669	.10552	2.9512	.01437	.03486	19.703
SDev	.87	.00335	.00265	.0123	.00007	.00030	.037
%RSD	.29394	5.9077	2.5082	.41775	.47974	.84741	.18673
#1	297.21	.05477	.10857	2.9648	.01431	.03476	19.738
#2	295.79	.05475	.10408	2.9409	.01436	.03519	19.665
#3	295.63	.06056	.10389	2.9479	.01445	.03462	19.705
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	20.000	30.000	20.000	10.000	40.000	300.00
Low	-.20000	-.06000	-.01000	-.01000	-.00500	-.00500	-5.0000
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.54361	.03435	.40396	209.89	1.1322	1.0993	5.5283
SDev	.00314	.00043	.00251	1.28	.0136	.0188	.0310
%RSD	.57723	1.2502	.62087	.60861	1.2016	1.7110	.56151
#1	.54624	.03434	.40617	211.14	1.1479	1.0776	5.5556
#2	.54014	.03479	.40448	208.59	1.1242	1.1102	5.4945
#3	.54445	.03393	.40123	209.94	1.1245	1.1102	5.5348
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	40.000	40.000	50.000	1000.0			700.00
Low	-.01000	-.05000	-.02500	-.10000			-5.0000
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.8702	145.64	.12879	.01887	-.00309	.01036	51.924
SDev	.0217	.36	.00058	.00994	.00872	.00020	.324
%RSD	.75701	.24382	.45067	52.675	282.21	1.9583	.62442
#1	2.8928	145.72	.12928	.03027	-.01150	.01059	52.273
#2	2.8495	145.95	.12815	.01437	-.00367	.01020	51.867
#3	2.8684	145.25	.12896	.01198	.00590	.01030	51.633
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20.000	200.00	40.000			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.01000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02208	.61614	H13.179	H95.389	.01236	.16534	.41275
SDev	.00513	.00224	.052	.975	.00065	.00079	.00141
%RSD	23.242	.36362	.39481	1.0226	5.3016	.47990	.34193
#1	.02785	.61848	H13.237	H96.514	.01187	.16603	.41438
#2	.01802	.61401	H13.138	H94.875	.01311	.16552	.41199
#3	.02036	.61592	H13.161	H94.778	.01211	.16448	.41188
Errors	LC Pass	LC Pass	LC High	LC High	LC Pass	LC Pass	LC Pass

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	19.717	.06045	H236.97	1.0498	1.1109	.00459
SDev	.070	.00340	2.54	.0086	.0080	.00317
%RSD	.35393	5.6289	1.0707	.81855	.71843	69.194

#1	19.715	.06436	H239.86	1.0594	1.1017	.00279
#2	19.648	.05885	H235.92	1.0428	1.1154	.00272
#3	19.788	.05814	H235.12	1.0471	1.1156	.00825

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18405	--	--	--	--	--	--
SDev	111.1484	--	--	--	--	--	--
%RSD	.6038905	--	--	--	--	--	--

#1	18277	--	--	--	--	--	--
#2	18460	--	--	--	--	--	--
#3	18479	--	--	--	--	--	--

Method: TRA20607 Sample Name: J8DJLX

Operator:

Run Time: 10/22/07 11:48:02

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	319.87	.06912	.08846	3.5196	.02299	.08098	39.992
SDev	1.88	.00322	.00134	.0113	.00018	.00033	.107
%RSD	.58723	4.6525	1.5144	.32156	.78737	.40832	.26876
#1	322.00	.06681	.08753	3.5271	.02278	.08066	39.872
#2	319.14	.06776	.09000	3.5251	.02308	.08097	40.027
#3	318.46	.07279	.08785	3.5066	.02312	.08132	40.078
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	20.000	30.000	20.000	10.000	40.000	300.00
Low	-.20000	-.06000	-.01000	-.01000	-.00500	-.00500	-5.0000
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49068	.05791	.75619	224.19	1.1571	1.1483	5.8095
SDev	.00239	.00060	.00459	.76	.0092	.0090	.0235
%RSD	.48801	1.0310	.60753	.33730	.79259	.78639	.40515
#1	.48830	.05723	.76132	223.35	1.1578	1.1391	5.7827
#2	.49308	.05830	.75476	224.80	1.1659	1.1488	5.8270
#3	.49067	.05821	.75248	224.43	1.1476	1.1571	5.8187
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	40.000	40.000	50.000	1000.0			700.00
Low	-.01000	-.05000	-.02500	-.10000			-5.0000
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.0679	149.25	.21039	.02159	.00685	.01893	47.990
SDev	.0086	1.72	.00086	.00478	.00303	.00015	.578
%RSD	.41570	1.1541	.40790	22.159	44.171	.78988	1.2040
#1	2.0591	151.22	.20956	.02542	.00674	.01878	48.622
#2	2.0763	148.50	.21033	.02313	.00388	.01895	47.858
#3	2.0682	148.04	.21127	.01623	.00993	.01908	47.489
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20.000	200.00	40.000			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.01000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.01873	.66493	H25.537	H122.23	.03468	.24221	.45862
SDev	.00108	.00239	.091	.91	.00019	.00331	.00099
%RSD	5.7858	.35901	.35467	.74522	.55282	1.3650	.21620
#1	.01878	.66237	H25.432	H122.14	.03454	.24591	.45959
#2	.01763	.66710	H25.586	H123.18	.03490	.24120	.45866
#3	.01979	.66531	H25.592	H121.37	.03460	.23953	.45761
Errors	LC Pass	LC Pass	LC High	LC High	LC Pass	LC Pass	LC Pass

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	24.401	.09157	H545.29	1.8931	1.1518	.01219
SDev	.074	.00258	1.35	.0052	.0051	.00133
%RSD	.30415	2.8156	.24688	.27396	.44183	10.925

#1	24.316	.09225	H545.91	1.8881	1.1460	.01336
#2	24.445	.09374	H546.22	1.8929	1.1552	.01074
#3	24.444	.08872	H543.75	1.8984	1.1543	.01247

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17841	--	--	--	--	--	--
SDev	60.96371	--	--	--	--	--	--
%RSD	.3417022	--	--	--	--	--	--

#1	17781	--	--	--	--	--	--
#2	17839	--	--	--	--	--	--
#3	17903	--	--	--	--	--	--

Method: TRA20607 Sample Name: J8DJ5

Operator:

Run Time: 10/22/07 11:54:08

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	364.44	.04636	.03048	2.0355	.01781	.00230	8.1018
SDev	1.36	.00338	.00032	.0064	.00010	.00024	.0088
%RSD	.37207	7.2934	1.0343	.31408	.53565	10.478	.10859
#1	364.40	.04503	.03015	2.0283	.01773	.00244	8.1095
#2	363.10	.05021	.03049	2.0405	.01791	.00243	8.0923
#3	365.81	.04385	.03078	2.0378	.01778	.00202	8.1037
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	20.000	30.000	20.000	10.000	40.000	300.00
Low	-.20000	-.06000	-.01000	-.01000	-.00500	-.00500	-5.0000
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.64206	.01736	.04467	188.25	.13589	.10295	5.1372
SDev	.00219	.00060	.00052	.35	.00443	.00432	.0087
%RSD	.34063	3.4503	1.1546	.18654	3.2602	4.1973	.16986
#1	.64083	.01800	.04411	188.10	.13880	.09811	5.1305
#2	.64459	.01726	.04479	188.66	.13808	.10642	5.1471
#3	.64077	.01681	.04512	188.01	.13079	.10431	5.1340
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	40.000	40.000	50.000	1000.0			700.00
Low	-.01000	-.05000	-.02500	-.10000			-5.0000
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.85505	191.31	.13323	.01294	.00088	.00913	43.476
SDev	.00191	1.20	.00063	.00339	.00280	.00033	.349
%RSD	.22386	.62607	.47086	26.183	318.88	3.5716	.80181
#1	.85350	190.92	.13382	.01669	-.00215	.00919	43.381
#2	.85719	190.36	.13331	.01203	.00141	.00878	43.185
#3	.85446	192.65	.13257	.01010	.00338	.00943	43.863
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20.000	200.00	40.000			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.01000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02265	.79041	1.1762	H121.96	.00591	.16694	.27502
SDev	.00464	.00164	.0102	.63	.00075	.00086	.00018
%RSD	20.503	.20693	.86991	.51665	12.646	.51838	.06401
#1	.01733	.78917	1.1764	H121.29	.00564	.16622	.27522
#2	.02476	.79226	1.1659	H122.53	.00534	.16671	.27488
#3	.02586	.78979	1.1863	H122.07	.00676	.16790	.27496
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	22.762	.07575	H452.52	.92986	.11436	.00532	
SDev	.026	.00158	1.31	.00311	.00274	.00072	
%RSD	.11390	2.0895	.28856	.33479	2.3915	13.545	
#1	22.733	.07756	H451.14	.92695	.11210	.00457	
#2	22.774	.07464	H452.67	.92949	.11740	.00539	
#3	22.780	.07505	H453.74	.93314	.11358	.00601	
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17923	--	--	--	--	--	--
SDev	92.36035	--	--	--	--	--	--
%RSD	.5153205	--	--	--	--	--	--
#1	17884	--	--	--	--	--	--
#2	18028	--	--	--	--	--	--
#3	17856	--	--	--	--	--	--

Method: TRA20607 Sample Name: J8DKP

Operator:

Run Time: 10/22/07 12:00:16

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	470.92	.04648	.02151	2.6769	.01441	-.00159	5.2504
SDev	1.13	.00407	.00165	.0176	.00023	.00014	.1012
%RSD	.23999	8.7665	7.6775	.65782	1.6337	8.6144	1.9273
#1	471.96	.04527	.02214	2.6839	.01422	-.00163	5.3075
#2	469.72	.05102	.02275	2.6899	.01467	-.00171	5.1336
#3	471.09	.04315	.01963	2.6568	.01433	-.00144	5.3102
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	20.000	30.000	20.000	10.000	40.000	300.00
Low	-.20000	-.06000	-.01000	-.01000	-.00500	-.00500	-5.0000
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.49007	.00533	.02650	109.05	.02994	-.00599	4.9810
SDev	.00789	.00091	.00020	1.65	.01048	.00693	.1176
%RSD	1.6091	17.051	.77226	1.5118	35.015	115.69	2.3604
#1	.49664	.00558	.02628	110.43	.04114	-.01372	5.0664
#2	.48133	.00433	.02653	107.22	.02036	-.00036	4.8469
#3	.49225	.00609	.02669	109.50	.02831	-.00388	5.0298
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	40.000	40.000	50.000	1000.0			700.00
Low	-.01000	-.05000	-.02500	-.10000			-5.0000
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.52152	H202.77	.07363	.02346	-.00508	.00774	71.680
SDev	.00665	2.12	.00215	.00789	.00388	.00343	.330
%RSD	1.2750	1.0480	2.9221	33.618	76.303	44.323	.46105
#1	.52804	H204.29	.07543	.03113	-.00826	.01006	71.950
#2	.51475	H200.34	.07125	.02387	-.00621	.00380	71.311
#3	.52178	H203.68	.07421	.01537	-.00076	.00936	71.777
Errors	LC Pass	LC High	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20.000	200.00	40.000			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.01000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.02449	.68923	.21117	H124.36	.00245	.18196	.43736
SDev	.00562	.00690	.00169	1.16	.00089	.00107	.00289
%RSD	22.953	1.0009	.79998	.93423	36.127	.58985	.66050
#1	.02322	.69463	.21241	H125.69	.00261	.18284	.43645
#2	.03064	.68146	.20925	H123.55	.00324	.18228	.44060
#3	.01962	.69161	.21185	H123.83	.00150	.18076	.43504
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	23.711	.08852	H520.62	.56576	.00656	.00485
SDev	.155	.00549	4.57	.00327	.00126	.00059
%RSD	.65251	6.1983	.87875	.57763	19.229	12.248

#1	23.841	.09118	H524.53	.56912	.00511	.00531
#2	23.540	.09217	H515.59	.56259	.00718	.00418
#3	23.752	.08221	H521.73	.56557	.00739	.00506

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18219	--	--	--	--	--	--
SDev	605.7769	--	--	--	--	--	--
%RSD	3.324987	--	--	--	--	--	--

#1	17768	--	--	--	--	--	--
#2	18908	--	--	--	--	--	--
#3	17981	--	--	--	--	--	--

Method: TRA20607 Sample Name: J8DLLD

Operator:

Run Time: 10/22/07 12:06:23

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	225.29	.04259	.02692	2.7087	.00490	-.00103	84.364
SDev	.43	.00379	.00105	.0153	.00007	.00007	.717
%RSD	.19072	8.9087	3.8887	.56521	1.3902	6.3674	.85007
#1	225.43	.04475	.02728	2.7215	.00483	-.00110	83.630
#2	224.81	.03821	.02574	2.7128	.00497	-.00097	84.399
#3	225.63	.04481	.02773	2.6917	.00489	-.00102	85.063
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	20.000	30.000	20.000	10.000	40.000	300.00
Low	-.20000	-.06000	-.01000	-.01000	-.00500	-.00500	-5.0000
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.42554	-.00280	.02111	43.086	.03875	.02357	12.593
SDev	.00179	.00014	.00005	.291	.00270	.00206	.106
%RSD	.41991	4.9929	.24360	.67427	6.9677	8.7341	.84541
#1	.42359	-.00296	.02106	42.751	.03645	.02459	12.482
#2	.42710	-.00270	.02116	43.265	.04172	.02120	12.602
#3	.42594	-.00274	.02113	43.242	.03807	.02492	12.695
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	40.000	40.000	50.000	1000.0			700.00
Low	-.01000	-.05000	-.02500	-.10000			-5.0000
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.86444	H283.75	.06369	.02162	.00375	.00267	19.976
SDev	.00364	3.14	.00057	.00254	.00380	.00143	.146
%RSD	.42165	1.1049	.89234	11.740	101.22	53.600	.73194
#1	.86058	H283.65	.06380	.01898	.00457	.00164	19.918
#2	.86782	H280.67	.06419	.02405	-.00039	.00207	19.869
#3	.86491	H286.94	.06307	.02181	.00708	.00431	20.143
Errors	LC Pass	LC High	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	20.000	200.00	40.000			4.0000	800.00
Low	-.01500	-5.0000	-.04000			-.01000	-5.0000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00383	.58199	.15999	H122.54	.00529	.14874	.47589
SDev	.00422	.00192	.00060	.12	.00040	.00149	.00161
%RSD	110.32	.32987	.37551	.09866	7.4966	1.0030	.33734
#1	.00864	.57981	.15930	H122.64	.00490	.15030	.47679
#2	.00212	.58275	.16040	H122.40	.00530	.14733	.47684
#3	.00073	.58342	.16027	H122.57	.00569	.14859	.47403
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	16.914	.08556	H675.89	.59182	.02918	.01012	
SDev	.042	.00118	2.96	.00989	.00061	.00215	
%RSD	.25046	1.3817	.43818	1.6708	2.0901	21.241	
#1	16.875	.08666	H673.08	.59902	.02919	.00974	
#2	16.959	.08431	H675.60	.59589	.02857	.00818	
#3	16.908	.08571	H678.99	.58055	.02979	.01243	
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18540	--	--	--	--	--	--
SDev	230.1824	--	--	--	--	--	--
%RSD	1.241564	--	--	--	--	--	--
#1	18673	--	--	--	--	--	--
#2	18672	--	--	--	--	--	--
#3	18274	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	4.2789	.01245	H56.279	.21180	.22897	.00198
SDev	.0121	.00065	.831	.00224	.00263	.00049
%RSD	.28305	5.2626	1.4757	1.0565	1.1482	24.939

#1	4.2769	.01276	H56.639	.21439	.22694	.00164
#2	4.2919	.01289	H56.869	.21054	.23194	.00175
#3	4.2679	.01170	H55.329	.21048	.22803	.00255

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18842	--	--	--	--	--	--
SDev	144.6508	--	--	--	--	--	--
%RSD	.7677062	--	--	--	--	--	--

#1	18951	--	--	--	--	--	--
#2	18678	--	--	--	--	--	--
#3	18897	--	--	--	--	--	--

Analysis Report

QC Standard

10/22/07 12:24:41 PM

page 1

Method: TRA20607 Sample Name: CCV2

Operator:

Run Time: 10/22/07 12:18:37

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	25.017	.49307	.49672	2.0185	2.0162	.49935	49.836
SDev	.202	.00221	.00382	.0149	.0167	.00631	.632
%RSD	.80634	.44789	.76879	.73986	.82980	1.2638	1.2685
#1	25.171	.49560	.49356	2.0339	2.0002	.49208	49.181
#2	25.093	.49207	.50096	2.0176	2.0336	.50342	50.442
#3	24.789	.49154	.49563	2.0040	2.0148	.50255	49.884
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	25.000	.50000	.50000	2.0000	2.0000	.50000	50.000
Range	10.500	10.500	10.500	10.500	10.500	10.500	10.500
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9772	1.9739	1.9690	24.871	.49421	.49256	48.460
SDev	.0163	.0233	.0183	.233	.00714	.01467	.517
%RSD	.82334	1.1816	.93005	.93658	1.4456	2.9779	1.0661
#1	1.9670	1.9656	1.9859	24.705	.48814	.47582	48.006
#2	1.9960	2.0002	1.9715	25.137	.50208	.49870	49.022
#3	1.9686	1.9558	1.9496	24.770	.49241	.50317	48.352
Errors	QC Pass	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass
Value	2.0000	2.0000	2.0000	25.000			50.000
Range	10.500	10.500	10.500	10.500			10.500
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.9908	49.920	2.0017	.49278	.48407	.97538	48.459
SDev	.0171	.290	.0217	.00791	.01140	.00499	.396
%RSD	.85880	.58175	1.0841	1.6043	2.3544	.51140	.81734
#1	1.9872	50.120	1.9832	.48811	.47093	.97343	48.376
#2	2.0094	50.053	2.0256	.50190	.49127	.98105	48.890
#3	1.9758	49.587	1.9962	.48831	.49002	.97166	48.111
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	QC Pass	QC Pass
Value	2.0000	50.000	2.0000			1.0000	50.000
Range	10.500	10.500	10.500			10.500	10.500
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.99566	1.9864	2.0234	Q2.4609	1.9824	2.0057	2.0234
SDev	.01162	.0121	.0158	.0302	.0207	.0096	.0146
%RSD	1.1668	.61051	.78291	1.2283	1.0427	.48014	.72364
#1	.98256	1.9789	2.0135	Q2.4296	1.9685	2.0131	2.0353
#2	1.0047	2.0004	2.0417	Q2.4899	2.0061	2.0091	2.0278
#3	.99972	1.9798	2.0149	Q2.4630	1.9725	1.9948	2.0070
Errors	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass

Analysis Report

QC Standard

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Value	1.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	10.500	10.500	10.500	10.500	10.500	10.500	10.500

Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.1108	1.9967	Q7.7733	1.9844	.49362	.48737	
SDev	.0100	.0208	.6215	.0076	.01149	.00934	
%RSD	.47412	1.0421	7.9957	.38068	2.3278	1.9165	

#1	2.1104	1.9775	Q8.1142	1.9757	.48035	.47703	
#2	2.1209	2.0189	Q8.1499	1.9882	.50049	.49519	
#3	2.1009	1.9938	Q7.0560	1.9893	.50002	.48988	

Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	
Value	2.0000	2.0000	2.0000	2.0000	.50000	.50000	
Range	10.500	10.500	10.500	10.500	10.500	10.500	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18481	--	--	--	--	--	--
SDev	247.5583	--	--	--	--	--	--
%RSD	1.339557	--	--	--	--	--	--

#1	18714	--	--	--	--	--	--
#2	18221	--	--	--	--	--	--
#3	18507	--	--	--	--	--	--

Method: TRA20607 Sample Name: CCB2

Operator:

Run Time: 10/22/07 12:24:44

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00401	-.00144	-.00064	-.00002	.00039	-.00009	.00122
SDev	.00213	.00242	.00126	.00017	.00018	.00004	.00083
%RSD	53.131	168.54	195.79	886.58	45.001	47.668	67.992
#1	-.00647	-.00385	-.00210	-.00020	.00037	-.00007	.00046
#2	-.00266	.00100	.00014	.00002	.00023	-.00006	.00109
#3	-.00291	-.00146	.00003	.00013	.00058	-.00014	.00210
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.09600	.00850	.00330	.00072	.00160	.00063	.02900
Low	-.09600	-.00850	-.00330	-.00072	-.00160	-.00063	-.02900
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00060	.00001	.00006	-.00626	.00615	-.00315	-.00136
SDev	.00149	.00103	.00069	.01888	.00654	.00403	.00722
%RSD	248.41	9872.8	1081.7	301.54	106.41	128.01	530.37
#1	-.00031	-.00115	-.00070	-.02746	.00576	-.00345	-.00938
#2	.00233	.00036	.00024	-.00005	.01288	-.00703	.00069
#3	-.00021	.00083	.00065	.00873	-.00019	.00102	.00461
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.00310	.00210	.00590	.05000			.02200
Low	-.00310	-.00210	-.00590	-.05000			-.02200
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00013	.17463	.00057	.00351	-.00180	-.00019	-.71960
SDev	.00018	.06363	.00084	.00451	.00185	.00361	.46664
%RSD	138.40	36.441	146.82	128.64	102.67	1890.8	64.847
#1	.00001	.10115	.00051	.00510	-.00318	-.00436	-1.0492
#2	.00034	H.21047	.00143	.00701	-.00252	.00198	-.18566
#3	.00004	H.21226	-.00024	-.00158	.00030	.00181	-.92392
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	.00130	.21000	.00220			.00950	1.6000
Low	-.00130	-.21000	-.00220			-.00950	-1.6000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00144	-.00093	.00002	H.51396	.00194	.00027	-.00000
SDev	.00170	.00184	.00016	.03918	.00042	.00016	.00005
%RSD	118.01	198.02	1061.7	7.6227	21.835	58.779	1175.9
#1	.00109	-.00305	-.00017	H.47029	.00219	.00022	-.00006
#2	.00329	.00029	.00008	H.54601	.00218	.00044	.00000
#3	-.00006	-.00003	.00014	H.52558	.00145	.00014	.00004
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass

High	.00850	.00450	.00220	.04400	.00650	.00120	.00042
Low	-.00850	-.00450	-.00220	-.04400	-.00650	-.00120	-.00042

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00012	.00104	H2.4414	.00138	.00032	.00038
SDev	.00032	.00160	.1791	.00280	.00059	.00057
%RSD	261.34	153.86	7.3339	202.19	181.35	149.75

#1	-.00024	.00051	H2.4876	-.00184	-.00002	-.00001
#2	.00036	.00283	H2.5929	.00318	-.00001	.00104
#3	.00023	-.00023	H2.2438	.00281	.00101	.00011

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	.00100	.00550	.03700	.01900	.00350	.00430
Low	-.00100	-.00550	-.03700	-.01900	-.00350	-.00430

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18465	--	--	--	--	--	--
SDev	522.6177	--	--	--	--	--	--
%RSD	2.830315	--	--	--	--	--	--

#1	19068	--	--	--	--	--	--
#2	18141	--	--	--	--	--	--
#3	18186	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00018	.00113	4.5848	.00378	-.00018	.00019
SDev	.00012	.00089	.4837	.00257	.00062	.00065
%RSD	66.601	78.244	10.551	67.908	338.99	342.26

#1	.00006	.00042	4.0415	.00085	-.00083	.00045
#2	.00030	.00212	4.7443	.00485	.00042	-.00055
#3	.00017	.00086	4.9687	.00564	-.00014	.00066

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18395	--	--	--	--	--	--
SDev	404.1890	--	--	--	--	--	--
%RSD	2.197237	--	--	--	--	--	--

#1	18859	--	--	--	--	--	--
#2	18207	--	--	--	--	--	--
#3	18119	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.1283	.00501	H25.511	.10806	.11585	.00105
SDev	.0051	.00065	.198	.00317	.00288	.00036
%RSD	.24179	13.057	.77634	2.9311	2.4858	33.870

#1	2.1236	.00427	H25.659	.10658	.11257	.00144
#2	2.1338	.00551	H25.587	.11170	.11703	.00094
#3	2.1273	.00524	H25.286	.10591	.11795	.00076

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18489	--	--	--	--	--	--
SDev	477.9917	--	--	--	--	--	--
%RSD	2.585264	--	--	--	--	--	--

#1	19040	--	--	--	--	--	--
#2	18247	--	--	--	--	--	--
#3	18181	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.5842	.01121	H59.247	.19051	.11900	.00071
SDev	.0087	.00137	.055	.00310	.00214	.00071
%RSD	.33777	12.232	.09280	1.6250	1.8006	100.20

#1	2.5928	.01181	H59.234	.19356	.11691	.00151
#2	2.5753	.00964	H59.199	.18737	.11891	.00043
#3	2.5845	.01218	H59.307	.19061	.12119	.00018

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18738	--	--	--	--	--	--
SDev	254.7011	--	--	--	--	--	--
%RSD	1.359295	--	--	--	--	--	--

#1	18776	--	--	--	--	--	--
#2	18971	--	--	--	--	--	--
#3	18466	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.3884	.00734	H49.204	.09262	.01163	.00057
SDev	.0125	.00120	.446	.00216	.00083	.00070
%RSD	.52296	16.423	.90651	2.3279	7.1710	122.97

#1	2.3739	.00813	H48.726	.09212	.01185	-.00010
#2	2.3951	.00793	H49.277	.09076	.01071	.00129
#3	2.3960	.00595	H49.609	.09499	.01234	.00050

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18885	--	--	--	--	--	--
SDev	130.9103	--	--	--	--	--	--
%RSD	.6931989	--	--	--	--	--	--

#1	18738	--	--	--	--	--	--
#2	18989	--	--	--	--	--	--
#3	18928	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.4714	.00789	H57.503	.05859	.00114	.00076
SDev	.0032	.00158	.187	.00332	.00034	.00151
%RSD	.12838	19.985	.32462	5.6699	30.205	198.89

#1	2.4720	.00769	H57.426	.05483	.00108	-.00088
#2	2.4742	.00956	H57.367	.06111	.00083	.00106
#3	2.4679	.00642	H57.716	.05983	.00151	.00210

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18463	--	--	--	--	--	--
SDev	206.7030	--	--	--	--	--	--
%RSD	1.119544	--	--	--	--	--	--

#1	18695	--	--	--	--	--	--
#2	18398	--	--	--	--	--	--
#3	18297	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	1.7417	.00960	H77.041	.06335	.00374	.00024	
SDev	.0074	.00128	.268	.00156	.00028	.00070	
%RSD	.42550	13.357	.34760	2.4689	7.5874	290.55	
#1	1.7395	.00878	H76.748	.06230	.00360	-.00056	
#2	1.7357	.00894	H77.100	.06515	.00406	.00061	
#3	1.7500	.01108	H77.274	.06260	.00354	.00067	
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18312	--	--	--	--	--	--
SDev	181.7909	--	--	--	--	--	--
%RSD	.9927548	--	--	--	--	--	--
#1	18430	--	--	--	--	--	--
#2	18102	--	--	--	--	--	--
#3	18403	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.42098	.00170	5.4297	.02244	.02306	.00051
SDev	.00244	.00138	.0312	.00293	.00051	.00109
%RSD	.57962	80.994	.57395	13.075	2.2240	212.84

#1	.41825	.00191	5.3941	.01982	.02249	-.00004
#2	.42294	.00297	5.4522	.02188	.02318	.00176
#3	.42177	.00023	5.4427	.02561	.02350	-.00019

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18379	--	--	--	--	--	--
SDev	191.6759	--	--	--	--	--	--
%RSD	1.042934	--	--	--	--	--	--

#1	18488	--	--	--	--	--	--
#2	18490	--	--	--	--	--	--
#3	18157	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000
Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.1009	.00628	H24.027	.10728	.11540	.00050	
SDev	.0107	.00161	.149	.00105	.00182	.00052	
%RSD	.51022	25.621	.62005	.97698	1.5780	102.24	
#1	2.0901	.00627	H23.929	.10608	.11362	.00050	
#2	2.1116	.00467	H24.198	.10780	.11533	-.00001	
#3	2.1009	.00789	H23.953	.10797	.11726	.00102	
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	
IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18337	--	--	--	--	--	--
SDev	80.64741	--	--	--	--	--	--
%RSD	.4398062	--	--	--	--	--	--
#1	18278	--	--	--	--	--	--
#2	18304	--	--	--	--	--	--
#3	18429	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avge	2.5609	.00870	H58.176	.19394	.12056	.00207
SDev	.0047	.00118	.105	.00360	.00111	.00084
%RSD	.18218	13.533	.18055	1.8565	.91898	40.606

#1	2.5660	.01006	H58.071	.19484	.12016	.00135
#2	2.5568	.00799	H58.281	.19701	.12181	.00300
#3	2.5600	.00805	H58.178	.18998	.11971	.00188

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass
High	40.000	40.000	20.000	40.000	70.000	30.000
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18262	--	--	--	--	--	--
SDev	190.7304	--	--	--	--	--	--
%RSD	1.044411	--	--	--	--	--	--

#1	18162	--	--	--	--	--	--
#2	18142	--	--	--	--	--	--
#3	18482	--	--	--	--	--	--

High	70.000	40.000	10.000	40.000	40.000	2.0000	5.0000
Low	-.01000	-.02500	-.02000	-.20000	-.04000	-.05000	-.05000

Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.42145	-.00007	5.2374	.02138	.02308	-.00000	
SDev	.00062	.00126	.0631	.00176	.00054	.00076	
%RSD	.14612	1838.3	1.2045	8.2454	2.3286	20844.	

#1	.42206	.00120	5.2955	.02299	.02342	.00038	
#2	.42145	-.00132	5.2465	.01949	.02336	-.00087	
#3	.42083	-.00008	5.1703	.02165	.02246	.00048	

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	40.000	40.000	20.000	40.000	70.000	30.000	
Low	-.05000	-.10000	-.10000	-.30000	-.00400	-.00500	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18529	--	--	--	--	--	--
SDev	441.2416	--	--	--	--	--	--
%RSD	2.381359	--	--	--	--	--	--

#1	18048	--	--	--	--	--	--
#2	18624	--	--	--	--	--	--
#3	18915	--	--	--	--	--	--

Analysis Report

QC Standard

10/22/07 01:39:37 PM

page 2

Value	1.0000	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000
Range	10.500	10.500	10.500	10.500	10.500	10.500	10.500

Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	2.0955	2.0192	Q2.2120	1.9366	.50653	.49540	
SDev	.0100	.0137	.0079	.0098	.00617	.00232	
%RSD	.47881	.67727	.35846	.50782	1.2172	.46803	

#1	2.0852	2.0070	2.2032	1.9268	.49961	.49284	
#2	2.0959	2.0168	Q2.2187	1.9366	.50854	.49601	
#3	2.1053	2.0340	Q2.2139	1.9465	.51144	.49735	

Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	
Value	2.0000	2.0000	2.0000	2.0000	.50000	.50000	
Range	10.500	10.500	10.500	10.500	10.500	10.500	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	17994	--	--	--	--	--	--
SDev	35.09248	--	--	--	--	--	--
%RSD	.1950201	--	--	--	--	--	--

#1	18028	--	--	--	--	--	--
#2	17997	--	--	--	--	--	--
#3	17958	--	--	--	--	--	--

Method: TRA20607 Sample Name: CCB3

Operator:

Run Time: 10/22/07 13:39:40

Comment:

Mode: CONC Corr. Factor: 1

Elem	Al	Sb	As	Ba	Be	Cd	Ca
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00560	.00227	-.00061	.00004	.00042	.00007	.00239
SDev	.00212	.00189	.00023	.00003	.00009	.00001	.00057
%RSD	37.856	83.508	38.064	81.982	22.271	17.058	23.797
#1	-.00547	.00428	-.00044	.00003	.00046	.00007	.00284
#2	-.00355	.00052	-.00051	.00001	.00031	.00007	.00175
#3	-.00779	.00200	-.00088	.00008	.00047	.00009	.00258
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.09600	.00850	.00330	.00072	.00160	.00063	.02900
Low	-.09600	-.00850	-.00330	-.00072	-.00160	-.00063	-.02900
Elem	Cr	Co	Cu	Fe	Pb/1	Pb/2	Mg
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00030	.00047	.00060	.00359	-.00227	.00054	.00123
SDev	.00027	.00039	.00021	.00292	.00256	.00238	.00129
%RSD	89.724	83.655	34.090	81.456	113.01	438.76	104.72
#1	-.00061	.00014	.00083	.00106	-.00514	.00310	.00048
#2	-.00023	.00036	.00044	.00292	-.00141	-.00163	.00049
#3	-.00007	.00091	.00054	.00678	-.00024	.00016	.00272
Errors	LC Pass	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass
High	.00310	.00210	.00590	.05000			.02200
Low	-.00310	-.00210	-.00590	-.05000			-.02200
Elem	Mn	K_	Ni	Se/1	Se/2	Ag	Na
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00002	.19179	.00018	-.00331	.00048	.00094	-1.0056
SDev	.00009	.01347	.00073	.00154	.00109	.00065	.1941
%RSD	540.44	7.0225	399.00	46.580	226.92	69.001	19.298
#1	-.00008	.17670	-.00063	-.00262	.00142	.00019	-1.2230
#2	.00007	.19607	.00079	-.00508	-.00072	.00126	-.94422
#3	.00007	.20260	.00039	-.00223	.00075	.00138	-.84970
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	.00130	.21000	.00220			.00950	1.6000
Low	-.00130	-.21000	-.00220			-.00950	-1.6000
Elem	Tl	V_	Zn	B_	Mo	Li	Sr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00063	.00034	.00011	H.13149	.00285	.00019	.00002
SDev	.00097	.00080	.00010	.00234	.00119	.00006	.00001
%RSD	154.87	232.33	90.056	1.7836	41.891	32.898	43.213
#1	.00043	-.00028	.00021	H.13211	.00410	.00024	.00002
#2	-.00083	.00006	.00001	H.13346	.00272	.00012	.00001
#3	-.00148	.00125	.00011	H.12890	.00172	.00021	.00002
Errors	LC Pass	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass

High	.00850	.00450	.00220	.04400	.00650	.00120	.00042
Low	-.00850	-.00450	-.00220	-.04400	-.00650	-.00120	-.00042

Elem	Ti	Sn	Si	P_	Pb	Se	
Units	ppm	ppm	ppm	ppm	ppm	ppm	
Avge	.00011	.00009	H.17415	.00084	.00003	-.00038	
SDev	.00011	.00029	.00436	.00100	.00105	.00118	
%RSD	101.72	329.76	2.5064	118.67	3948.2	310.60	

#1	.00018	.00005	H.17252	-.00002	.00079	.00045	
#2	-.00002	-.00018	H.17909	.00194	-.00117	-.00173	
#3	.00017	.00039	H.17083	.00062	.00046	.00014	

Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass	LC Pass	
High	.00100	.00550	.03700	.01900	.00350	.00430	
Low	-.00100	-.00550	-.03700	-.01900	-.00350	-.00430	

IntStd	1	2	3	4	5	6	7
Mode	Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	18313	--	--	--	--	--	--
SDev	80.86961	--	--	--	--	--	--
%RSD	.4415932	--	--	--	--	--	--

#1	18399	--	--	--	--	--	--
#2	18239	--	--	--	--	--	--
#3	18301	--	--	--	--	--	--

Raw Data Mercury

TestAmerica Knoxville Mercury Analysis Cover Sheet

Analyst	<i>DKW</i>	Instrument	Leeman Hydra AA Mercury Analyzer
Run Date	<i>10/16/07</i>	Chart Name	<i>M10/1607</i>

Daily Maintenance		As Needed Maintenance	
<input checked="" type="checkbox"/>	Check tubing.	<input type="checkbox"/>	Adjust/change Hg lamp.
<input checked="" type="checkbox"/>	Check maintenance schedule flags.	<input type="checkbox"/>	Clean or replace optical cell.
		<input type="checkbox"/>	Lubricate pump and autosampler arm.
		<input type="checkbox"/>	Change the drying tube.

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:      Instrument Upload                      Run Log - Page 1 :
:      Started Tue Oct 16 14:38:54 2007 by WILBURND          :
:      Data File: UPL$KNX_DATA_ROOT:<LHG>M101607.PRN;1      :
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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
1	CK2ICV	1.00	16-OCT-2007	09:25:24			HG
2	ICB	1.00	16-OCT-2007	09:27:13			HG
3	CRA	1.00	16-OCT-2007	09:29:09			HG
4	CK3CCV	1.00	16-OCT-2007	09:31:10			HG
5	CK1CCB	1.00	16-OCT-2007	09:33:12			HG
6	J8NJ1BT	1.00	16-OCT-2007	09:35:19	7288084	H7J110000	HG
7	J80M6CT	1.00	16-OCT-2007	09:37:44	7288084	H7J150000	HG
8	J8LJMT	1.00	16-OCT-2007	09:39:43	7288084	H7J100180	HG
9	J8LJMST	1.00	16-OCT-2007	09:41:36	7288084	H7J100180	HG
10	J8LJMDT	1.00	16-OCT-2007	09:43:32	7288084	H7J100180	HG
11	J8G4AB	1.00	16-OCT-2007	09:45:50	7282076	H7J090000	HG
12	J8G4AC	1.00	16-OCT-2007	09:47:41	7282076	H7J090000	HG
13	J8G4AL	1.00	16-OCT-2007	09:49:40	7282076	H7J090000	HG
14	J8DJN	1.00	16-OCT-2007	09:51:32	7282076	H7J050295	HG
15	J8DJNX	1.00	16-OCT-2007	09:53:18	7282076	H7J050295	HG
16	CK3CCV	1.00	16-OCT-2007	09:55:16			HG
17	CK1CCB	1.00	16-OCT-2007	09:57:05			HG
18	J8DJ7	1.00	16-OCT-2007	10:00:01	7282076	H7J050295	HG
19	J8DKT	1.00	16-OCT-2007	10:02:10	7282076	H7J050295	HG
20	J8DLE	1.00	16-OCT-2007	10:04:00	7282076	H7J050295	HG
21	J8T6VB	1.00	16-OCT-2007	10:05:46	7285390	H7J120000	HG
22	J8T6VC	1.00	16-OCT-2007	10:07:33	7285390	H7J120000	HG
23	J8T6VL	1.00	16-OCT-2007	10:09:22	7285390	H7J120000	HG
24	J8FK5	1.00	16-OCT-2007	10:11:21	7285390	H7J080107	HG
25	J8FLF	1.00	16-OCT-2007	10:13:22	7285390	H7J080107	HG
26	J8FLFA	1.00	16-OCT-2007	10:15:21	7285390	H7J080107	HG
27	J8FLFAX	1.00	16-OCT-2007	10:17:10			HG
28	CK3CCV	1.00	16-OCT-2007	10:18:59			HG
29	CK1CCB	1.00	16-OCT-2007	10:20:55			HG
30	J8FL0	1.00	16-OCT-2007	10:22:53	7285390	H7J080107	HG
31	J8T61B	2.00	16-OCT-2007	10:24:54	7285392	H7J120000	HG
32	J8T61C	2.00	16-OCT-2007	10:26:46	7285392	H7J120000	HG
33	J8FK9	2.00	16-OCT-2007	10:28:35	7285392	H7J080107	HG
34	J8FLH	2.00	16-OCT-2007	10:30:22	7285392	H7J080107	HG
35	J8FLHS	2.00	16-OCT-2007	10:32:13	7285392	H7J080107	HG
36	J8FLHD	2.00	16-OCT-2007	10:34:01	7285392	H7J080107	HG
37	J8FLHA	1.00	16-OCT-2007	10:35:48	7285392	H7J080107	HG
38	J8FLHAX	1.00	16-OCT-2007	10:37:35			HG
39	J8T66B	0.10	16-OCT-2007	10:39:23	7285394	H7J120000	HG
40	CK3CCV	1.00	16-OCT-2007	10:41:23			HG
41	CK1CCB	1.00	16-OCT-2007	10:43:14			HG
42	J8T66C	0.10	16-OCT-2007	10:45:11	7285394	H7J120000	HG
43	J8FLA	1.20	16-OCT-2007	10:46:58	7285394	H7J080107	HG
44	J8FLM	1.20	16-OCT-2007	10:48:46	7285394	H7J080107	HG

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(continued)
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: Instrument Upload Run Log - Page 2 :
: Started Tue Oct 16 14:38:54 2007 by WILBURND :
: Data File: UPL\$KNX_DATA_ROOT:<LHG>M101607.PRN;1 :

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
45	J8FLMS	1.20	16-OCT-2007	10:50:55	7285394	H7J080107	HG
46	J8FLMD	1.20	16-OCT-2007	10:53:24	7285394	H7J080107	HG
47	J8FLD	0.92	16-OCT-2007	10:55:12	7285394	H7J080107	HG
48	J8FLQ	0.88	16-OCT-2007	10:57:11	7285394	H7J080107	HG
49	J8FLQS	0.88	16-OCT-2007	10:59:11	7285394	H7J080107	HG
50	J8FLQD	0.88	16-OCT-2007	11:01:02	7285394	H7J080107	HG
51	J8FLE	1.38	16-OCT-2007	11:03:28	7285394	H7J080107	HG
52	CK3CCV	1.00	16-OCT-2007	11:05:40			HG
53	CK1CCB	1.00	16-OCT-2007	11:07:27			HG
54	J8FLR	1.38	16-OCT-2007	11:09:24	7285394	H7J080107	HG
55	J8FLRS	1.38	16-OCT-2007	11:11:24	7285394	H7J080107	HG
56	J8FLRD	1.38	16-OCT-2007	11:13:13	7285394	H7J080107	HG
57	CK3CCV	1.00	16-OCT-2007	11:15:03			HG
58	CK1CCB	1.00	16-OCT-2007	11:17:05			HG

----- End of Report -----

STL Knoxville

Method Information

Method Name: SW-846 7470A/7471A/0.2 RL

Element: Hg

Chart Number: m101607.prn

Instrument Calibrated Every ? Hours: 24

Number of Calibration Standards: 6

Correlation Coefficient >/=: 0.995

Run ICV Immediately After Calibration?: Yes

CRA Required?: Yes

Number of Samples Between CCVs: 10

Duplicate RPD: 20

Calculate Duplicates by CLP or SW-846?: SW-846 Protocol

CRA Recovery Range: 30.5

CRA Conc. (ug/L): 0.2

ICV Recovery Range: 10.5

ICV Conc. (ug/L): 2.5

CCV Recovery Range: 20.5

CCV Conc. (ug/L): 5

LCS Recovery Range: 10.5

LCS Spike Level (ug/L): 5

MS/MSD Recovery Range: 15.5

MS Spike Level (ug/L): 1

Letter to Signify Blanks: B

Position to Signify Blanks: 6

Letter to Signify LCS's: C

Position to Signify LCS's: 6

Letter to Signify LCSD's: L

Position to Signify LCSD's: 6

Letter to Signify Dilutions: Z

Position to Signify Dilutions: 6

Letter to Signify Duplicates: X

Position to Signify Duplicates: 6

Letter to Signify MS's: S

Position to Signify MS's: 6

Letter to Signify MSD's: D

Position to Signify MSD's: 6

Letters to Signify MSA's: MSA+

Position to Signify MSA's: 6

Number of Additions: 3

Calibration Standard Concentrations (ug/L)

Standard 1 Conc: 0.1

Standard 2 Conc: 0.2

Standard 3 Conc: 0.5

Standard 4 Conc: 1

Standard 5 Conc: 5

Standard 6 Conc: 10

Standard 7 Conc: 0

Standard 8 Conc: 0

ICB/CCB Check Level (ug/L): 0.0599

Prep Blank Check Level (ug/L): 0.099

Reporting Limit (ug/L): 0.2

IDL (ug/L): 0.06

Date of IDL: 12/14/2006

STL Knoxville Mercury Data Review Checklist

Method: SW-846 7470A/7471A/0.2 RL

Analyst:	DKW			Instrument:	Leeman Hydra AA Mercury Analyzer		
Run Date:	Oct-16-07	Calibration Number:	1	Chart Name:	m101607.prn	Element:	Hg

A. Calibration/Instrument Run QC	N/A	Yes	No	Comments
1. Instrument calibrated every 24 hours?		X		Calibration was 2 hours and 5 minutes long
2. Instrument calibrated using a minimum of a blank and 5 standards?		X		
3. Do standard absorbances increase as standard concentrations increase?		X		
4. Instrument calibrated with standards at the SOP levels?		X		
5. Correlation coefficient greater than or equal to 0.995?		X		Correlation coefficient was 0.9998
6. ICV analyzed directly after calibration?		X		
7. ICV within specified control limits?		X		
8. ICB analyzed immediately after ICV?		X		
9. ICB within acceptable range?		X		
10. CRA analyzed at the beginning of the run?		X		
11. CRA results within acceptable range?		X		
12. All CCV's within specified control limits?		X		
13. All CCB's within acceptable range?		X		
14. All CCB's analyzed immediately after CCV's?		X		

B. Client Sample and QC Sample Results	N/A	Yes	No	Comments
1. Were all sample results within the linear range of the instrument?		X		
2. Were there any samples with results more negative than Report Limit?			X	
3. Were samples analyzed within the holding time?		X		

C. Preparation/Matrix QC	N/A	Yes	No	Comments
1. Was one method blank prepared for each batch?		X		
2. Were all method blanks less than the specified level?		X		
3. Was an LCS prepared for each batch?		X		
4. Were all LCS recoveries within QC limits?		X		
5. Were matrix spikes, sample duplicates and/or post-digestion spikes run at required frequency?		X		
6. Were all matrix spike recoveries within QC limits?			X	See Comments on Next Page
7. Were post-digestion spike recoveries within QC limits?		X		
8. Were duplicate RPDs within QC limits?		X		

D. Other	N/A	Yes	No	Comments
1. Current IDL data on file?		X		
2. Current MDL data on file?		X		
3. Are all nonconformances documented appropriately?	X			
4. Were all project specific instructions followed?		X		NCM#:

Question

Number: Problem(s) Found:

- C6 Matrix spike sample J8LJMST at 10/16/2007 9:41:36 AM had ^{103.0%} 512.0% recovery.
 - C6 Matrix spike sample J8LJMDT at 10/16/2007 9:43:32 AM had ^{97.8%} 486.6% recovery.
 - C6 Matrix spike sample J8FLHS at 10/16/2007 10:32:13 AM had 82% recovery.
 - C6 Matrix spike sample J8FLRS at 10/16/2007 11:11:24 AM had 77% recovery.
- } TCLP RECOVERIES ACCEPTABLE

Analyst: DKW

Date: 10/16/07

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 1 Rep: 1				Seq: 0			09:12:09 16 Oct 07	HG
Hg	.000	ppb	-65					
*** Standard: 2 Rep: 1				Seq: 1			09:14:07 16 Oct 07	HG
Hg	.100	ppb	336					
*** Standard: 3 Rep: 1				Seq: 2			09:15:56 16 Oct 07	HG
Hg	.200	ppb	686					
*** Standard: 4 Rep: 1				Seq: 3			09:17:43 16 Oct 07	HG
Hg	.500	ppb	1682					
*** Standard: 5 Rep: 1				Seq: 4			09:19:34 16 Oct 07	HG
Hg	1.00	ppb	3336					
*** Standard: 6 Rep: 1				Seq: 5			09:21:34 16 Oct 07	HG
Hg	5.00	ppb	16114					
*** Standard: 7 Rep: 1				Seq: 6			09:23:35 16 Oct 07	HG
Hg	10.0	ppb	33396					
*** Check Standard: 2 Ck2icv				Seq: 7			09:25:24 16 Oct 07	HG
Line Flag %Rcv. Found True Units SD/RSD								
Hg		93.2	2.33	2.50	ppb	.000	%	
*** Sample ID: ICB				Seq: 8			09:27:13 16 Oct 07	HG
Hg	-.019	ppb	.000 %	-.019				
*** Sample ID: CRA				Seq: 9			09:29:09 16 Oct 07	HG
Hg	.228	ppb	.000 %	.228				
*** Check Standard: 3 Ck3ccv				Seq: 10			09:31:10 16 Oct 07	HG
Line Flag %Rcv. Found True Units SD/RSD								
Hg		95.7	4.79	5.00	ppb	.000	%	
*** Check Standard: 1 Ck1ccb				Seq: 11			09:33:12 16 Oct 07	HG
Line Flag Found Range(+/-) Units SD/RSD								
Hg		.006	.059		ppb	.000	%	
*** Sample ID: J8NJ1BT				Seq: 12			09:35:19 16 Oct 07	HG
Hg	.073	ppb	.000 %	.073				
*** Sample ID: J80M6CT				Seq: 13			09:37:44 16 Oct 07	HG
Hg	4.80	ppb	.000 %	4.80				
*** Sample ID: J8LJMT				Seq: 14			09:39:43 16 Oct 07	HG
Hg	.024	ppb	.000 %	.024				
*** Sample ID: J8LJMST				Seq: 15			09:41:36 16 Oct 07	HG
Hg	5.15	ppb	.000 %	5.15				

Line	Conc.	Units	SD/RSD	1	2	3	4	5
***	Sample ID: J8LJMDT			Seq: 16		09:43:32	16 Oct 07	HG
Hg	4.89	ppb	.000 %	4.89				
***	Sample ID: J8G4AB			Seq: 17		09:45:50	16 Oct 07	HG
				7282076 TOTALS				
Hg	-.001	ppb	.000 %	-.001				
***	Sample ID: J8G4AC			Seq: 18		09:47:41	16 Oct 07	HG
Hg	5.17	ppb	.000 %	5.17				
***	Sample ID: J8G4AL			Seq: 19		09:49:40	16 Oct 07	HG
Hg	5.08	ppb	.000 %	5.08				
***	Sample ID: J8DJN			Seq: 20		09:51:32	16 Oct 07	HG
Hg	1.70	ppb	.000 %	1.70				
***	Sample ID: J8DJNX			Seq: 21		09:53:18	16 Oct 07	HG
Hg	1.58	ppb	.000 %	1.58				
***	Check Standard: 3 Ck3ccv			Seq: 22		09:55:16	16 Oct 07	HG
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		95.6	4.78	5.00	ppb	.000 %		
***	Check Standard: 1 Ck1ccb			Seq: 23		09:57:05	16 Oct 07	HG
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.010	.059	ppb	.000 %			
***	Sample ID: J8DJ7			Seq: 24		10:00:01	16 Oct 07	HG
Hg	.237	ppb	.000 %	.237				
***	Sample ID: J8DKT			Seq: 25		10:02:10	16 Oct 07	HG
Hg	.008	ppb	.000 %	.008				
***	Sample ID: J8DLE			Seq: 26		10:04:00	16 Oct 07	HG
Hg	.165	ppb	.000 %	.165				
***	Sample ID: J8T6VB			Seq: 27		10:05:46	16 Oct 07	HG
				7285390 FH				
Hg	.015	ppb	.000 %	.015				
***	Sample ID: J8T6VC			Seq: 28		10:07:33	16 Oct 07	HG
Hg	5.12	ppb	.000 %	5.12				
***	Sample ID: J8T6VL			Seq: 29		10:09:22	16 Oct 07	HG
Hg	5.02	ppb	.000 %	5.02				
***	Sample ID: J8FK5			Seq: 30		10:11:21	16 Oct 07	HG
Hg	.589	ppb	.000 %	.589				
***	Sample ID: J8FLF			Seq: 31		10:13:22	16 Oct 07	HG
Hg	.343	ppb	.000 %	.343				

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: J8FLFA								
				Seq: 32		10:15:21	16 Oct 07	HG
				PDS				
Hg	1.34	ppb	.000 %	1.34				
*** Sample ID: J8FLFAX								
				Seq: 33		10:17:10	16 Oct 07	HG
				PDS				
Hg	1.35	ppb	.000 %	1.35				
*** Check Standard: 3 Ck3ccv								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		96.4	4.82	5.00	ppb	.000 %		
*** Check Standard: 1 Ck1ccb								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.007	.059	ppb	.000 %			
*** Sample ID: J8FL0								
				Seq: 36		10:22:53	16 Oct 07	HG
Hg	.016	ppb	.000 %	.016				
*** Sample ID: J8T61B								
				Seq: 37		10:24:54	16 Oct 07	HG
				7285392 BH IMP				
Hg	.022	ppb	.000 %	.022				
*** Sample ID: J8T61C								
				Seq: 38		10:26:46	16 Oct 07	HG
Hg	4.67	ppb	.000 %	4.67				
*** Sample ID: J8FK9								
				Seq: 39		10:28:35	16 Oct 07	HG
Hg	1.37	ppb	.000 %	1.37				
*** Sample ID: J8FLH								
				Seq: 40		10:30:22	16 Oct 07	HG
Hg	1.33	ppb	.000 %	1.33				
*** Sample ID: J8FLHS								
				Seq: 41		10:32:13	16 Oct 07	HG
Hg	2.15	ppb	.000 %	2.15				
*** Sample ID: J8FLHD								
				Seq: 42		10:34:01	16 Oct 07	HG
Hg	2.23	ppb	.000 %	2.23				
*** Sample ID: J8FLHA								
				Seq: 43		10:35:48	16 Oct 07	HG
				PDS				
Hg	2.19	ppb	.000 %	2.19				
*** Sample ID: J8FLHAX								
				Seq: 44		10:37:35	16 Oct 07	HG
				PDS				
Hg	2.20	ppb	.000 %	2.20				
*** Sample ID: J8T66B								
				Seq: 45		10:39:23	16 Oct 07	HG
				7285394				
Hg	-.014	ppb	.000 %	-.014				
*** Check Standard: 3 Ck3ccv								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		96.2	4.81	5.00	ppb	.000 %		
*** Check Standard: 1 Ck1ccb								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		.011	.059	ppb	.000 %			

Line	Conc.	Units	SD/RSD	1	2	3	4	5

***	Sample ID: J8T66C			Seq: 48		10:45:11	16 Oct 07	HG
Hg	4.92	ppb	.000 %	4.92				
***	Sample ID: J8FLA			Seq: 49		10:46:58	16 Oct 07	HG
Hg	-.007	ppb	.000 %	-.007				
***	Sample ID: J8FLM			Seq: 50		10:48:46	16 Oct 07	HG
Hg	.009	ppb	.000 %	.009				
***	Sample ID: J8FLMS			Seq: 51		10:50:55	16 Oct 07	HG
Hg	1.00	ppb	.000 %	1.00				
***	Sample ID: J8FLMD			Seq: 52		10:53:24	16 Oct 07	HG
Hg	1.07	ppb	.000 %	1.07				
***	Sample ID: J8FLD			Seq: 53		10:55:12	16 Oct 07	HG
Hg	.045	ppb	.000 %	.045				
***	Sample ID: J8FLQ			Seq: 54		10:57:11	16 Oct 07	HG
Hg	.014	ppb	.000 %	.014				
***	Sample ID: J8FLQS			Seq: 55		10:59:11	16 Oct 07	HG
Hg	1.03	ppb	.000 %	1.03				
***	Sample ID: J8FLQD			Seq: 56		11:01:02	16 Oct 07	HG
Hg	1.07	ppb	.000 %	1.07				
***	Sample ID: J8FLE			Seq: 57		11:03:28	16 Oct 07	HG
Hg	2.28	ppb	.000 %	2.28				
***	Check Standard: 3 Ck3ccv			Seq: 58		11:05:40	16 Oct 07	HG
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		95.8	4.79	5.00	ppb	.000 %		
***	Check Standard: 1 Ck1ccb			Seq: 59		11:07:27	16 Oct 07	HG
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.018	.059	ppb	.000 %			
***	Sample ID: J8FLR			Seq: 60		11:09:24	16 Oct 07	HG
Hg	1.76	ppb	.000 %	1.76				
***	Sample ID: J8FLRS			Seq: 61		11:11:24	16 Oct 07	HG
Hg	2.53	ppb	.000 %	2.53				
***	Sample ID: J8FLRD			Seq: 62		11:13:13	16 Oct 07	HG
Hg	2.61	ppb	.000 %	2.61				
***	Check Standard: 3 Ck3ccv			Seq: 63		11:15:03	16 Oct 07	HG
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		94.4	4.72	5.00	ppb	.000 %		

Line	Conc.	Units	SD/RSD	1	2	3	4	5
------	-------	-------	--------	---	---	---	---	---

*** Check Standard: 1 Ck1ccb Seq: 64 11:17:05 16 Oct 07 HG
Line Flag Found Range(+/-) Units SD/RSD
Hg -.004 .059 ppb .000 %

TestAmerica Knoxville Mercury Analysis Cover Sheet

Analyst	KND / DKW	Instrument	Leeman Hydra AA Mercury Analyzer
Run Date	10/23/07	Chart Name	M102307

Daily Maintenance		As Needed Maintenance	
<input checked="" type="checkbox"/>	Check tubing.	<input type="checkbox"/>	Adjust/change Hg lamp.
<input checked="" type="checkbox"/>	Check maintenance schedule flags.	<input type="checkbox"/>	Clean or replace optical cell.
		<input type="checkbox"/>	Lubricate pump and autosampler arm.
		<input type="checkbox"/>	Change the drying tube.

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:      Instrument Upload                      Run Log - Page 1 :
:      Started Tue Oct 23 10:48:14 2007 by DAWSONK           :
:      Data File: UPL$KNX_DATA_ROOT:<LHG>M102307.PRN;1       :
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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
1	CK2ICV	1.00	23-OCT-2007	08:35:51			HG
2	ICB	1.00	23-OCT-2007	08:37:50			HG
3	CRA	1.00	23-OCT-2007	08:39:56			HG
4	CK3CCV	1.00	23-OCT-2007	08:42:23			HG
5	CK1CCB	1.00	23-OCT-2007	08:44:41			HG
6	J8KNVB	1.00	23-OCT-2007	08:46:27	7295103	H7J100000	HG
7	J8KNVC	1.00	23-OCT-2007	08:48:26	7295103	H7J100000	HG
8	J8KNVL	1.00	23-OCT-2007	08:50:14	7295103	H7J100000	HG
9	J8DH0	1.00	23-OCT-2007	08:52:01	7295103	H7J050295	HG
10	J8DH0X	1.00	23-OCT-2007	08:53:54	7295103	H7J050295	HG
11	J8DJQ	1.00	23-OCT-2007	08:56:02	7295103	H7J050295	HG
12	J8DJ9	1.00	23-OCT-2007	08:58:21	7295103	H7J050295	HG
13	J8DKW	1.00	23-OCT-2007	09:00:29	7295103	H7J050295	HG
14	J8NGHB	1.00	23-OCT-2007	09:02:16	7295104	H7J110000	HG
15	J8NGHC	1.00	23-OCT-2007	09:04:03	7295104	H7J110000	HG
16	CK3CCV	1.00	23-OCT-2007	09:05:51			HG
17	CK1CCB	1.00	23-OCT-2007	09:08:27			HG
18	J8NGHL	1.00	23-OCT-2007	09:10:14	7295104	H7J110000	HG
19	J8DH8	1.00	23-OCT-2007	09:12:42	7295104	H7J050295	HG
20	J8DH8X	1.00	23-OCT-2007	09:14:39	7295104	H7J050295	HG
21	J8DJW	1.00	23-OCT-2007	09:16:30	7295104	H7J050295	HG
22	J8DKA	1.00	23-OCT-2007	09:18:28	7295104	H7J050295	HG
23	J8DK3	1.00	23-OCT-2007	09:20:26	7295104	H7J050295	HG
24	J8RNHB	1.00	23-OCT-2007	09:22:33	7295105	H7J120000	HG
25	J8RNHC	1.00	23-OCT-2007	09:24:22	7295105	H7J120000	HG
26	J8RNHL	1.00	23-OCT-2007	09:26:12	7295105	H7J120000	HG
27	J8DJA	1.00	23-OCT-2007	09:27:59	7295105	H7J050295	HG
28	CK3CCV	1.00	23-OCT-2007	09:29:46			HG
29	CK1CCB	1.00	23-OCT-2007	09:31:35			HG
30	J8DJAX	1.00	23-OCT-2007	09:33:32	7295105	H7J050295	HG
31	J8DJ0	1.00	23-OCT-2007	09:35:38	7295105	H7J050295	HG
32	J8DKE	1.00	23-OCT-2007	09:37:29	7295105	H7J050295	HG
33	J8DK7	1.00	23-OCT-2007	09:39:25	7295105	H7J050295	HG
34	J80QPB	1.00	23-OCT-2007	09:41:25	7295107	H7J150000	HG
35	J80QPC	1.00	23-OCT-2007	09:43:14	7295107	H7J150000	HG
36	J80QPL	1.00	23-OCT-2007	09:45:11	7295107	H7J150000	HG
37	J8DJE	1.00	23-OCT-2007	09:47:14	7295107	H7J050295	HG
38	J8DJEX	1.00	23-OCT-2007	09:49:01	7295107	H7J050295	HG
39	J8DJ1	1.00	23-OCT-2007	09:51:00	7295107	H7J050295	HG
40	CK3CCV	1.00	23-OCT-2007	09:53:09			HG
41	CK1CCB	1.00	23-OCT-2007	09:55:21			HG
42	J8DKG	1.00	23-OCT-2007	09:57:42	7295107	H7J050295	HG
43	J8DK8	1.00	23-OCT-2007	09:59:31	7295107	H7J050295	HG
44	J83W5B	1.00	23-OCT-2007	10:01:18	7295110	H7J160000	HG

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----- (continued) -----

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: Instrument Upload Run Log - Page 2 :
: Started Tue Oct 23 10:48:14 2007 by DAWSONK :
: Data File: UPL\$KNX_DATA_ROOT:<LHG>M102307.PRN;1 :

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
45	J83W5C	1.00	23-OCT-2007	10:03:05	7295110	H7J160000	HG
46	J83W5L	1.00	23-OCT-2007	10:04:52	7295110	H7J160000	HG
47	J8DJG	1.00	23-OCT-2007	10:06:38	7295110	H7J050295	HG
48	J8DJGX	1.00	23-OCT-2007	10:08:26	7295110	H7J050295	HG
49	J8DJ2	1.00	23-OCT-2007	10:10:13	7295110	H7J050295	HG
50	J8DKH	1.00	23-OCT-2007	10:12:44	7295110	H7J050295	HG
51	J8DK9	1.00	23-OCT-2007	10:14:33	7295110	H7J050295	HG
52	CK3CCV	1.00	23-OCT-2007	10:16:25			HG
53	CK1CCB	1.00	23-OCT-2007	10:18:24			HG
54	J88D3B	1.00	23-OCT-2007	10:20:15	7295111	H7J180000	HG
55	J88D3C	1.00	23-OCT-2007	10:22:25	7295111	H7J180000	HG
56	J88D3L	1.00	23-OCT-2007	10:24:13	7295111	H7J180000	HG
57	J8DJJ	1.00	23-OCT-2007	10:26:02	7295111	H7J050295	HG
58	J8DJJX	1.00	23-OCT-2007	10:27:59	7295111	H7J050295	HG
59	J8DJ4	1.00	23-OCT-2007	10:29:46	7295111	H7J050295	HG
60	J8DKL	1.00	23-OCT-2007	10:32:34	7295111	H7J050295	HG
61	J8DLA	1.00	23-OCT-2007	10:34:25	7295111	H7J050295	HG
62	J89P0B	1.00	23-OCT-2007	10:36:57	7295113	H7J180000	HG
63	J89P0C	1.00	23-OCT-2007	10:38:47	7295113	H7J180000	HG
64	CK3CCV	1.00	23-OCT-2007	10:40:36			HG
65	CK1CCB	1.00	23-OCT-2007	10:42:43			HG
66	J89P0L	1.00	23-OCT-2007	10:44:55	7295113	H7J180000	HG
67	J8DJL	1.00	23-OCT-2007	10:46:45	7295113	H7J050295	HG
68	J8DJLX	1.00	23-OCT-2007	10:48:34	7295113	H7J050295	HG
69	J8DJ5	1.00	23-OCT-2007	10:50:22	7295113	H7J050295	HG
70	J8DKP	1.00	23-OCT-2007	10:52:11	7295113	H7J050295	HG
71	J8DLD	1.00	23-OCT-2007	10:54:12	7295113	H7J050295	HG
72	CK3CCV	1.00	23-OCT-2007	10:56:00			HG
73	CK1CCB	1.00	23-OCT-2007	10:57:47			HG

----- End of Report -----

STL Knoxville

Method Information

Method Name: SEP

Element: Hg

Chart Number: m102307.prn

Instrument Calibrated Every ? Hours:	24	Number of Calibration Standards:	6
Correlation Coefficient >/=:	0.995	Run ICV Immediately After Calibration?:	Yes
CRA Required?:	Yes	Number of Samples Between CCVs:	10
Duplicate RPD:	30	Calculate Duplicates by CLP or SW-846?:	SW-846 Protocol

CRA Recovery Range:	30.5	CRA Conc. (ug/L):	0.2
ICV Recovery Range:	10.5	ICV Conc. (ug/L):	2.5
CCV Recovery Range:	20.5	CCV Conc. (ug/L):	5
LCS Recovery Range:	25.5	LCS Spike Level (ug/L):	5
MS/MSD Recovery Range:	20.5	MS Spike Level (ug/L):	1

Letter to Signify Blanks:	B	Position to Signify Blanks:	6
Letter to Signify LCS's:	C	Position to Signify LCS's:	6
Letter to Signify LCSD's:	L	Position to Signify LCSD's:	6
Letter to Signify Dilutions:	Z	Position to Signify Dilutions:	6
Letter to Signify Duplicates:	X	Position to Signify Duplicates:	6
Letter to Signify MS's:	S	Position to Signify MS's:	6
Letter to Signify MSD's:	D	Position to Signify MSD's:	6
Letters to Signify MSA's:	MSA+	Position to Signify MSA's:	6
Number of Additions:	3		

Calibration Standard Concentrations (ug/L)

Standard 1 Conc: 0.1	Standard 2 Conc: 0.2	Standard 3 Conc: 0.5	Standard 4 Conc: 1
Standard 5 Conc: 5	Standard 6 Conc: 10	Standard 7 Conc: 0	Standard 8 Conc: 0

ICB/CCB Check Level (ug/L): 0.199	Prep Blank Check Level (ug/L): 0.199	Reporting Limit (ug/L): 0.2
IDL (ug/L): 0.06	Date of IDL: 12/14/2006	

STL Knoxville Mercury Data Review Checklist

Method: SEP

Analyst:	KND			Instrument:	Leeman Hydra AA Mercury Analyzer		
Run Date:	Oct-23-07	Calibration Number:	1	Chart Name:	m102307.prn	Element:	Hg

A. Calibration/Instrument Run QC				N/A	Yes	No	Comments
1.	Instrument calibrated every 24 hours?				X		Calibration was 2 hours and 38 minutes long
2.	Instrument calibrated using a minimum of a blank and 5 standards?				X		
3.	Do standard absorbances increase as standard concentrations increase?				X		
4.	Instrument calibrated with standards at the SOP levels?				X		
5.	Correlation coefficient greater than or equal to 0.995?				X		Correlation coefficient was 0.9995
6.	ICV analyzed directly after calibration?				X		
7.	ICV within specified control limits?				X		
8.	ICB analyzed immediately after ICV?				X		
9.	ICB within acceptable range?				X		
10.	CRA analyzed at the beginning of the run?				X		
11.	CRA results within acceptable range?				X		
12.	All CCV's within specified control limits?				X		
13.	All CCB's within acceptable range?				X		
14.	All CCB's analyzed immediately after CCV's?				X		

B. Client Sample and QC Sample Results

1.	Were all sample results within the linear range of the instrument?				X		
2.	Were there any samples with results more negative than Report Limit?					X	
3.	Were samples analyzed within the holding time?				X		

C. Preparation/Matrix QC

1.	Was one method blank prepared for each batch?				X		
2.	Were all method blanks less than the specified level?				X		
3.	Was an LCS prepared for each batch?				X		
4.	Were all LCS recoveries within QC limits?					X	See Comments on Next Page
5.	Were matrix spikes, sample duplicates and/or post-digestion spikes run at required frequency?				X		
6.	Were all matrix spike recoveries within QC limits?	X			X		10/23/07
7.	Were post-digestion spike recoveries within QC limits?	X					
8.	Were duplicate RPDs within QC limits?				X		

D. Other

1.	Current IDL data on file?				X		
2.	Current MDL data on file?				X		
3.	Are all nonconformances documented appropriately?	X					
4.	Were all project specific instructions followed?				X		NCM#:

Question

Number: Problem(s) Found:

-
- C4 Method LCS J8KNVC at 10/23/2007 8:48:26 AM had 10.98% recovery.
 - C4 Method LCS J8KNVL at 10/23/2007 8:50:14 AM had 10.62% recovery.
 - C4 Method LCS J8RNHC at 10/23/2007 9:24:22 AM had 8.7% recovery.
 - C4 Method LCS J8RNHL at 10/23/2007 9:26:12 AM had 11.06% recovery.
 - C4 Method LCS J88D3C at 10/23/2007 10:22:25 AM had 127% recovery.

STL Knoxville Mercury Data Review Checklist

Analyst: KVD Date: 10/23/07

Analyst Comments: LCS/LCSD'S were outside of QC criteria of 75-125%. This may be due to the extraction fluids used.

STL KNOXVILLE

INTERMEDIATE STANDARD -- CALIBRATION

Stock Std Name: PLHG4-2Y
 Element: Hg
 Stock Source: Spex
 Stock Std Lot #: 12-168HG
 Stock Std Expiration Date: 4/30/08
 Stock Conc.: 1000 ppm
 HNO₃ Lot E20033

Stock Vol (ml)/100ml: 1ml
 Date Prepared: 10/4/07
 Expiration Date: 11/4/07
 QC Check: M/06507
 Initials: ICND
 Matrix: 2% HNO₃

WORKING STANDARD -- CALIBRATION

One ml Intermediate Standard/100ml 0.15% Concentrated Nitric Acid

1. I-CAL	<u>3425-15-1</u>	Initials <u>ICND</u>	Date: <u>10/4/07</u>	Exp. Date: <u>10/5/07</u>	HN03 Lot: <u>E20033</u>
2. I-CAL	<u>3425-15-2</u>	Initials <u>DKW</u>	Date: <u>10/5/07</u>	Exp. Date: <u>10/6/07</u>	HN03 Lot: <u>E06062</u>
3. I-CAL	<u>3425-15-3</u>	Initials <u>DKW</u>	Date: <u>10/7/07</u>	Exp. Date: <u>10/8/07</u>	HN03 Lot: <u>E06062</u>
4. I-CAL	<u>3425-15-4</u>	Initials <u>ICND/DKW</u>	Date: <u>10/22/07</u>	Exp. Date: <u>10/23/07</u>	HN03 Lot: <u>E20033</u>
5. I-CAL		Initials	Date:	Exp. Date:	HN03 Lot:
6. I-CAL		Initials	Date:	Exp. Date:	HN03 Lot:
7. I-CAL		Initials	Date:	Exp. Date:	HN03 Lot:
8. I-CAL		Initials	Date:	Exp. Date:	HN03 Lot:
9. I-CAL		Initials	Date:	Exp. Date:	HN03 Lot:
10. I-CAL		Initials	Date:	Exp. Date:	HN03 Lot:
11. I-CAL		Initials	Date:	Exp. Date:	HN03 Lot:
12. I-CAL		Initials	Date:	Exp. Date:	HN03 Lot:
13. I-CAL		Initials	Date:	Exp. Date:	HN03 Lot:
14. I-CAL		Initials	Date:	Exp. Date:	HN03 Lot:
15. I-CAL		Initials	Date:	Exp. Date:	HN03 Lot:
16. I-CAL		Initials	Date:	Exp. Date:	HN03 Lot:
17. I-CAL		Initials	Date:	Exp. Date:	HN03 Lot:
18. I-CAL		Initials	Date:	Exp. Date:	HN03 Lot:
19. I-CAL		Initials	Date:	Exp. Date:	HN03 Lot:
20. I-CAL		Initials	Date:	Exp. Date:	HN03 Lot:
21. I-CAL		Initials	Date:	Exp. Date:	HN03 Lot:
22. I-CAL		Initials	Date:	Exp. Date:	HN03 Lot:
23. I-CAL		Initials	Date:	Exp. Date:	HN03 Lot:
24. I-CAL		Initials	Date:	Exp. Date:	HN03 Lot:
25. I-CAL		Initials	Date:	Exp. Date:	HN03 Lot:

STL KNOXVILLE

INTERMEDIATE STANDARD -- VERIFICATION

Stock Std Name: ICP-080
 Element: Hg
 Stock Source: Ultra
 Stock Std Lot #: F00424
 Stock Std Expiration Date: 8/31/08
 Stock Conc.: 1000 ppm
 Acid Lot: E20033

Stock Vol (ml)/100ml: 1.0 ml
 Date Prepared: 10/4/07
 Expiration Date: 11/4/07
 QC Check: M100507
 Initials: KND
 Matrix: 2% HNO₃

WORKING STANDARD -- VERIFICATION

1 ml Intermediate Standard/100 ml 0.15 % Concentrated Nitric Acid

1. I-VER	<u>3426-16-1</u>	Initials	<u>KND</u>	Date:	<u>10/4/07</u>	Exp. Date:	<u>10/5/07</u>	HN03 Lot:	<u>E20033</u>
2. I-VER	<u>3426-16-2</u>	Initials	<u>DKW</u>	Date:	<u>10/5/07</u>	Exp. Date:	<u>10/6/07</u>	HN03 Lot:	<u>E06062</u>
3. I-VER	<u>3426-16-3</u>	Initials	<u>DKW</u>	Date:	<u>10/19/07</u>	Exp. Date:	<u>10/8/07</u>	HN03 Lot:	<u>E06062</u>
4. I-VER	<u>3426-16-4</u>	Initials	<u>KND / DKW</u>	Date:	<u>10/22/07</u>	Exp. Date:	<u>10/22/07</u>	HN03 Lot:	<u>E20033</u>
5. I-VER		Initials		Date:		Exp. Date:		HN03 Lot:	
6. I-VER		Initials		Date:		Exp. Date:		HN03 Lot:	
7. I-VER		Initials		Date:		Exp. Date:		HN03 Lot:	
8. I-VER		Initials		Date:		Exp. Date:		HN03 Lot:	
9. I-VER		Initials		Date:		Exp. Date:		HN03 Lot:	
10. I-VER		Initials		Date:		Exp. Date:		HN03 Lot:	
11. I-VER		Initials		Date:		Exp. Date:		HN03 Lot:	
12. I-VER		Initials		Date:		Exp. Date:		HN03 Lot:	
13. I-VER		Initials		Date:		Exp. Date:		HN03 Lot:	
14. I-VER		Initials		Date:		Exp. Date:		HN03 Lot:	
15. I-VER		Initials		Date:		Exp. Date:		HN03 Lot:	
16. I-VER		Initials		Date:		Exp. Date:		HN03 Lot:	
17. I-VER		Initials		Date:		Exp. Date:		HN03 Lot:	
18. I-VER		Initials		Date:		Exp. Date:		HN03 Lot:	
19. I-VER		Initials		Date:		Exp. Date:		HN03 Lot:	
20. I-VER		Initials		Date:		Exp. Date:		HN03 Lot:	
21. I-VER		Initials		Date:		Exp. Date:		HN03 Lot:	
22. I-VER		Initials		Date:		Exp. Date:		HN03 Lot:	
23. I-VER		Initials		Date:		Exp. Date:		HN03 Lot:	
24. I-VER		Initials		Date:		Exp. Date:		HN03 Lot:	
25. I-VER		Initials		Date:		Exp. Date:		HN03 Lot:	

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 1 Rep: 1				Seq: 0			08:19:28 23 Oct 07	HG
Hg	.000	ppb	111					
*** Standard: 2 Rep: 1				Seq: 1			08:21:14 23 Oct 07	HG
Hg	.100	ppb	331					
*** Standard: 3 Rep: 1				Seq: 2			08:23:01 23 Oct 07	HG
Hg	.200	ppb	655					
*** Standard: 4 Rep: 1				Seq: 3			08:24:49 23 Oct 07	HG
Hg	.500	ppb	1666					
*** Standard: 5 Rep: 1				Seq: 4			08:27:08 23 Oct 07	HG
Hg	1.00	ppb	3285					
*** Standard: 6 Rep: 1				Seq: 5			08:28:59 23 Oct 07	HG
Hg	5.00	ppb	17234					
*** Standard: 7 Rep: 1				Seq: 6			08:30:57 23 Oct 07	HG
Hg	10.0	ppb	32477					
*** Check Standard: 2 Ck2icv				Seq: 7			08:35:51 23 Oct 07	HG
Line Flag %Rcv. Found True Units SD/RSD								
Hg		91.5	2.29	2.50	ppb	.000	%	
*** Sample ID: ICB				Seq: 8			08:37:50 23 Oct 07	HG
			ICB					
Hg	-.030	ppb	.000	%	-.030			
*** Sample ID: CRA				Seq: 9			08:39:56 23 Oct 07	HG
Hg	.169	ppb	.000	%	.169			
*** Check Standard: 3 Ck3ccv				Seq: 10			08:42:23 23 Oct 07	HG
Line Flag %Rcv. Found True Units SD/RSD								
Hg		100.	5.00	5.00	ppb	.000	%	
*** Check Standard: 1 Ck1ccb				Seq: 11			08:44:41 23 Oct 07	HG
Line Flag Found Range(+/-) Units SD/RSD								
Hg		.004	.059	ppb		.000	%	
*** Sample ID: J8KNVB				Seq: 12			08:46:27 23 Oct 07	HG
			7295103 STEP 1					
Hg	-.035	ppb	.000	%	-.035			
*** Sample ID: J8KNVC				Seq: 13			08:48:26 23 Oct 07	HG
Hg	.549	ppb	.000	%	.549			
*** Sample ID: J8KNVL				Seq: 14			08:50:14 23 Oct 07	HG
Hg	.531	ppb	.000	%	.531			
*** Sample ID: J8DH0				Seq: 15			08:52:01 23 Oct 07	HG
Hg	-.007	ppb	.000	%	-.007			

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: J8DH0X					Seq: 16		08:53:54 23 Oct 07	HG
Hg	.000	ppb	.000 %	.000				
*** Sample ID: J8DJQ					Seq: 17		08:56:02 23 Oct 07	HG
Hg	-.041	ppb	.000 %	-.041				
*** Sample ID: J8DJ9					Seq: 18		08:58:21 23 Oct 07	HG
Hg	-.034	ppb	.000 %	-.034				
*** Sample ID: J8DKW					Seq: 19		09:00:29 23 Oct 07	HG
Hg	-.010	ppb	.000 %	-.010				
*** Sample ID: J8NGHB					Seq: 20		09:02:16 23 Oct 07	HG
					7295104 STEP 2			
Hg	-.029	ppb	.000 %	-.029				
*** Sample ID: J8NGHC					Seq: 21		09:04:03 23 Oct 07	HG
Hg	6.17	ppb	.000 %	6.17				
*** Check Standard: 3 Ck3ccv					Seq: 22		09:05:51 23 Oct 07	HG
Line Flag %Rcv. Found True Units SD/RSD								
Hg		97.6	4.88	5.00	ppb	.000 %		
*** Check Standard: 1 Ck1ccb					Seq: 23		09:08:27 23 Oct 07	HG
Line Flag Found Range(+/-) Units SD/RSD								
Hg	1 <i>OK</i>	-.060	.059		ppb	.000 %		
*** Sample ID: J8NGHL					Seq: 24		09:10:14 23 Oct 07	HG
Hg	6.23	ppb	.000 %	6.23				
*** Sample ID: J8DH8					Seq: 25		09:12:42 23 Oct 07	HG
Hg	7.85	ppb	.000 %	7.85				
*** Sample ID: J8DH8X					Seq: 26		09:14:39 23 Oct 07	HG
Hg	7.01	ppb	.000 %	7.01				
*** Sample ID: J8DJW					Seq: 27		09:16:30 23 Oct 07	HG
Hg	.850	ppb	.000 %	.850				
*** Sample ID: J8DKA					Seq: 28		09:18:28 23 Oct 07	HG
Hg	.008	ppb	.000 %	.008				
*** Sample ID: J8DK3					Seq: 29		09:20:26 23 Oct 07	HG
Hg	.479	ppb	.000 %	.479				
*** Sample ID: J8RNHB					Seq: 30		09:22:33 23 Oct 07	HG
					7295105 STEP 3			
Hg	-.030	ppb	.000 %	-.030				
*** Sample ID: J8RNHC					Seq: 31		09:24:22 23 Oct 07	HG
Hg	.435	ppb	.000 %	.435				

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: J8RNHL								
				Seq: 32	09:26:12	23 Oct 07	HG	
Hg	.553	ppb	.000 %	.553				
*** Sample ID: J8DJA								
				Seq: 33	09:27:59	23 Oct 07	HG	
Hg	.283	ppb	.000 %	.283				
*** Check Standard: 3 Ck3ccv								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		99.5	4.97	5.00	ppb	.000 %		
*** Check Standard: 1 Ck1ccb								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.058	.059	ppb	.000 %			
*** Sample ID: J8DJAX								
				Seq: 36	09:33:32	23 Oct 07	HG	
Hg	.195	ppb	.000 %	.195				
*** Sample ID: J8DJ0								
				Seq: 37	09:35:38	23 Oct 07	HG	
Hg	-.019	ppb	.000 %	-.019				
*** Sample ID: J8DKE								
				Seq: 38	09:37:29	23 Oct 07	HG	
Hg	-.034	ppb	.000 %	-.034				
*** Sample ID: J8DK7								
				Seq: 39	09:39:25	23 Oct 07	HG	
Hg	.010	ppb	.000 %	.010				
*** Sample ID: J80QPB								
				Seq: 40	09:41:25	23 Oct 07	HG	
Hg	-.030	ppb	.000 %	-.030	7295107 STEP 4			
*** Sample ID: J80QPC								
				Seq: 41	09:43:14	23 Oct 07	HG	
Hg	4.66	ppb	.000 %	4.66				
*** Sample ID: J80QPL								
				Seq: 42	09:45:11	23 Oct 07	HG	
Hg	4.65	ppb	.000 %	4.65				
*** Sample ID: J8DJE								
				Seq: 43	09:47:14	23 Oct 07	HG	
Hg	-.020	ppb	.000 %	-.020				
*** Sample ID: J8DJEX								
				Seq: 44	09:49:01	23 Oct 07	HG	
Hg	-.020	ppb	.000 %	-.020				
*** Sample ID: J8DJ1								
				Seq: 45	09:51:00	23 Oct 07	HG	
Hg	-.016	ppb	.000 %	-.016				
*** Check Standard: 3 Ck3ccv								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		97.2	4.86	5.00	ppb	.000 %		
*** Check Standard: 1 Ck1ccb								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.026	.059	ppb	.000 %			

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: J8DKG				Seq: 48		09:57:42	23 Oct 07	HG
Hg	-.027	ppb	.000 %	-.027				
*** Sample ID: J8DK8				Seq: 49		09:59:31	23 Oct 07	HG
Hg	-.010	ppb	.000 %	-.010				
*** Sample ID: J83W5B				Seq: 50		10:01:18	23 Oct 07	HG
				7295110 STEP 5				
Hg	-.027	ppb	.000 %	-.027				
*** Sample ID: J83W5C				Seq: 51		10:03:05	23 Oct 07	HG
Hg	4.45	ppb	.000 %	4.45				
*** Sample ID: J83W5L				Seq: 52		10:04:52	23 Oct 07	HG
Hg	4.20	ppb	.000 %	4.20				
*** Sample ID: J8DJG				Seq: 53		10:06:38	23 Oct 07	HG
Hg	.093	ppb	.000 %	.093				
*** Sample ID: J8DJGX				Seq: 54		10:08:26	23 Oct 07	HG
Hg	.067	ppb	.000 %	.067				
*** Sample ID: J8DJ2				Seq: 55		10:10:13	23 Oct 07	HG
Hg	.009	ppb	.000 %	.009				
*** Sample ID: J8DKH				Seq: 56		10:12:44	23 Oct 07	HG
Hg	.001	ppb	.000 %	.001				
*** Sample ID: J8DK9				Seq: 57		10:14:33	23 Oct 07	HG
Hg	-.003	ppb	.000 %	-.003				
*** Check Standard: 3 Ck3ccv				Seq: 58		10:16:25	23 Oct 07	HG
Line Flag %Rcv. Found True Units SD/RSD								
Hg		95.9	4.79	5.00	ppb	.000 %		
*** Check Standard: 1 Ck1ccb				Seq: 59		10:18:24	23 Oct 07	HG
Line Flag Found Range(+/-) Units SD/RSD								
Hg		-.034	.059	ppb		.000 %		
*** Sample ID: J88D3B				Seq: 60		10:20:15	23 Oct 07	HG
				7295111 STEP 6				
Hg	-.023	ppb	.000 %	-.023				
*** Sample ID: J88D3C				Seq: 61		10:22:25	23 Oct 07	HG
Hg	6.35	ppb	.000 %	6.35				
*** Sample ID: J88D3L				Seq: 62		10:24:13	23 Oct 07	HG
Hg	6.21	ppb	.000 %	6.21				
*** Sample ID: J8DJJ				Seq: 63		10:26:02	23 Oct 07	HG
Hg	.059	ppb	.000 %	.059				

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: J8DJJX								
				Seq:	64	10:27:59	23 Oct 07	HG
Hg	.100	ppb	.000 %	.100				
*** Sample ID: J8DJ4								
				Seq:	65	10:29:46	23 Oct 07	HG
Hg	-.030	ppb	.000 %	-.030				
*** Sample ID: J8DKL								
				Seq:	66	10:32:34	23 Oct 07	HG
Hg	-.027	ppb	.000 %	-.027				
*** Sample ID: J8DLA								
				Seq:	67	10:34:25	23 Oct 07	HG
Hg	.044	ppb	.000 %	.044				
*** Sample ID: J89P0B								
				Seq:	68	10:36:57	23 Oct 07	HG
				7295113 STEP 7				
Hg	-.024	ppb	.000 %	-.024				
*** Sample ID: J89P0C								
				Seq:	69	10:38:47	23 Oct 07	HG
Hg	5.44	ppb	.000 %	5.44				
*** Check Standard: 3 Ck3ccv								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		93.7	4.68	5.00	ppb	.000 %		
*** Check Standard: 1 Ck1ccb								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.022	.059	ppb	.000 %			
*** Sample ID: J89P0L								
				Seq:	72	10:44:55	23 Oct 07	HG
Hg	5.48	ppb	.000 %	5.48				
*** Sample ID: J8DJL								
				Seq:	73	10:46:45	23 Oct 07	HG
Hg	-.071	ppb	.000 %	-.071				
*** Sample ID: J8DJLX								
				Seq:	74	10:48:34	23 Oct 07	HG
Hg	-.008	ppb	.000 %	-.008				
*** Sample ID: J8DJ5								
				Seq:	75	10:50:22	23 Oct 07	HG
Hg	-.036	ppb	.000 %	-.036				
*** Sample ID: J8DKP								
				Seq:	76	10:52:11	23 Oct 07	HG
Hg	-.026	ppb	.000 %	-.026				
*** Sample ID: J8DLLD								
				Seq:	77	10:54:12	23 Oct 07	HG
Hg	-.020	ppb	.000 %	-.020				
*** Check Standard: 3 Ck3ccv								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		93.6	4.68	5.00	ppb	.000 %		
*** Check Standard: 1 Ck1ccb								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.060	.059	ppb	.000 %			

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11/08 10/23/07

Miscellaneous Data

STL Knoxville Sequential Extraction Procedure (SEP) ICP Data Review / Narrative Checklist
Methods: SEP - KNOX-MT-0008, Rev4 and KNOX-MT-0013, Rev2; 6010B - KNOX-MT-0007, Rev 6
 Page 1 of 2

Lot / SDG #: <u>4475050295</u>	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Total	Why is data reportable?
A. Review of QDS Results									
1. Were all prep sheets and spreadsheets reviewed?	Y	Y	Y	Y	Y	Y	Y	Y	
2. Were manual calculations of results, RLs and MDLs performed for at least 20% of the analytes for each sample, DUP, blank and LCS? (Document 1 calculation per batch.)	Y	Y	Y	Y	Y	Y	Y	Y	
3. Were elements with H, k or S flags reported from dilution and were dilution results, RLs and MDLs verified? NTM Oct 24 07	Y	N/A	Y	Y	Y	Y	Y	Y	
4. Were elements with L flags reported as ND G?	Y	N/A	N/A	N/A	N/A	N/A	N/A	Y	
5. For each sample, DUP, blank and LCS, were flags, units, DFs, prep date, date/time of analysis verified to be correct?	Y	Y	Y	Y	Y	Y	Y	Y	
6. Were spike amounts verified for one analyte per LCS? (Document 1 manual calculation.)	Y	Y	Y	Y	Y	Y	Y	Y	
7. Were method blank results < RL?	Y	Y	Y	Y	Y	Y	Y	Y	<input type="checkbox"/> See narrative; common analyte in SEP leachate.
8. LCS/LCSD done per prep batch?	Y	Y	Y	Y	Y	Y	Y	Y	
9. LCS/LCSD %R and RPDs within QC limits?	Y	N	N	N	N	Y	Y	Y	<input checked="" type="checkbox"/> See narrative.
10. DUP done per prep batch?	Y	Y	Y	Y	Y	Y	Y	Y	
11. DUP RPD within limits? (0-30 RPD for results ≥5xRL; ±RL if result <5xRL)	Y	N	N	N	N	N	N	N	
12. Were J flags added to the DUP as needed?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
13. Is DUP RPD=0 for two ND results?	Y	Y	Y	Y	N/A	Y	Y	N/A	
14. Is DUP RPD=200 for one ND and a positive result?	N/A	N/A	Y	N/A	N/A	N/A	N/A	N/A	
15. Report flag turned to No for the following elements? KNOX-MT-0008: Mg-Step1, Na-Steps 2 and 3; KNOX-MT-0013: Mg-Step1, Na-Steps 2 and 4.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
16. Was V reported from 10x dilution for Step 1?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Data Reviewer:	NTM	NTM	NTM	NTM	NTM	NTM	NTM	NTM	
Date:	Oct 24 07	Oct 24 07	Oct 24 07	Oct 24 07	Oct 24 07	Oct 24 07	Oct 24 07	Oct 24 07	

Calculation Checks / Comments:

Total SDINX(Zn): $3.6937 \text{ kg/ml} \times \frac{50 \text{ ml}}{1.09} \times 100 \text{ Dil} \div 0.4730 = 21,155 \text{ kg/g}$ RL: $20 \text{ kg/L} \times \frac{0.05 \text{ L}}{1.09} \times 100 \div 0.4730 = 114.5 \text{ kg/g}$

STEP 1 SDSQ(Zn): $0.06467 \text{ kg/ml} \times \frac{25 \text{ ml}}{5 \text{ g}} \times 3 \text{ Dil} \div 0.4292 \times \frac{50 \text{ ml}}{5 \text{ ml}} = 11,699 \text{ kg/g}$ RL: $20 \text{ kg/L} \times \frac{0.025 \text{ L}}{5 \text{ g}} \times 3 \div 0.4292 \times \frac{50 \text{ ml}}{5 \text{ ml}} = 3,620 \text{ kg/g}$

STEP 2 SDSN(Cr): $0.00997 \text{ kg/ml} \times \frac{75 \text{ ml}}{5 \text{ g}} \times 3 \text{ Dil} \times \frac{50 \text{ ml}}{5 \text{ ml}} \div 0.4292 = 5,41 \text{ kg/g}$ RL: $10 \text{ kg/L} \times \frac{0.075 \text{ L}}{5 \text{ g}} \times 3 \times \frac{50 \text{ ml}}{5 \text{ ml}} \div 0.4292 = 5,43 \text{ kg/g}$

STEP 3 SDSA(Zn): $3.0691 \text{ kg/ml} \times \frac{25 \text{ ml}}{5 \text{ g}} \times \frac{50 \text{ ml}}{5 \text{ ml}} \times 20 \text{ Dil} \div 0.4730 = 3516 \text{ kg/g}$ RL: $20 \text{ kg/L} \times \frac{0.025 \text{ L}}{5 \text{ g}} \times 20 \times \frac{50 \text{ ml}}{5 \text{ ml}} \div 0.4730 = 22,91 \text{ kg/g}$

All results below MDLs are reported as ND (non-detect).

STL Knoxville Sequential Extraction Procedure (SEP) ICP Data Review / Narrative Checklist
 Methods: SEP – KNOX-MT-0008, Rev4 and KNOX-MT-0013, Rev2; 6010B - KNOX-MT-0007, Rev 6
 Page 1 of 2

Lot / SDG #: _____

A. Review of QDS Results	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Total	Why is data reportable?
1. Were all prep sheets and spreadsheets reviewed?									
2. Were manual calculations of results, RLs and MDLs performed for at least 20% of the analytes for each sample, DUP, blank and LCS? (Document 1 calculation per batch.)									
3. Were elements with H, k or S flags reported from dilution and were dilution results, RLs and MDLs verified?									
4. Were elements with L flags reported as ND G?									
5. For each sample, DUP, blank and LCS, were flags, units, DFs, prep date, date/time of analysis verified to be correct?									
6. Were spike amounts verified for one analyte per LCS? (Document 1 manual calculation.)									
7. Were method blank results < RL?									<input type="checkbox"/> See narrative; common analyte in SEP leachate.
8. LCS/LCSD done per prep batch?									<input type="checkbox"/> See narrative.
9. LCS/LCSD %R and RPDs within QC limits?									
10. DUP done per prep batch?									
11. DUP RPD within limits? (0-30 RPD for results $\geq 5xRL$; $\pm RL$ if result $< 5xRL$)									
12. Were J flags added to the DUP as needed?									
13. Is DUP RPD=0 for two ND results?									
14. Is DUP RPD=200 for one ND and a positive result?									
15. Report flag turned to No for the following elements: KNOX-MT-0008: Mg-Step1, Na-Steps 2 and 3; KNOX-MT-0013: Mg-Step1, Na-Steps 2 and 4.									
16. Was V reported from 10x dilution for Step 1?									
Data Reviewer:									
Date:									

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05/24/07

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05/24/07

Calculation Checks / Comments:

Step 4 J6D51 (Zn): $1.7504 \frac{\mu\text{g}}{\mu\text{L}} \times \frac{25 \text{ mL}}{5 \text{ g}} \times \frac{50 \text{ mL}}{5 \text{ mL}} \div 0.8292 \times 10 \text{ Dil.} = 1055 \frac{\mu\text{g}}{\text{g}}$ RL: $20 \frac{\mu\text{g}}{\text{L}} \times \frac{0.025 \text{ L}}{5 \text{ g}} \times \frac{50 \text{ mL}}{5 \text{ mL}} \times 10 = 0.8292 = 12.05 \frac{\mu\text{g}}{\text{g}}$
Step 5 J6D56 (Zn): $2.2757 \frac{\mu\text{g}}{\mu\text{L}} \times \frac{25 \text{ mL}}{5 \text{ g}} \times \frac{50 \text{ mL}}{5 \text{ mL}} \div 0.8730 \times 50 \text{ Dil.} = 6517 \frac{\mu\text{g}}{\text{g}}$ RL: $20 \frac{\mu\text{g}}{\text{L}} \times \frac{0.025 \text{ L}}{5 \text{ g}} \times \frac{50 \text{ mL}}{5 \text{ mL}} \times 50 = 0.8730 = 57.27 \frac{\mu\text{g}}{\text{g}}$
Step 6 J6D55X (Zn): $2.1422 \frac{\mu\text{g}}{\mu\text{L}} \times \frac{25 \text{ mL}}{5 \text{ g}} \times \frac{50 \text{ mL}}{5 \text{ mL}} \times 20 \text{ Dil.} = 2454 \frac{\mu\text{g}}{\text{g}}$ RL: $20 \frac{\mu\text{g}}{\text{L}} \times \frac{0.025 \text{ L}}{5 \text{ g}} \times \frac{50 \text{ mL}}{5 \text{ mL}} \times 20 \text{ Dil.} = 0.8730 = 22.9 \frac{\mu\text{g}}{\text{g}}$
Step 7 J6D55 (Zn): $0.12157 \frac{\mu\text{g}}{\mu\text{L}} \times \frac{50 \text{ mL}}{1.0 \text{ g}} \times 10 \text{ Dil.} = 0.8292 = 73.3 \frac{\mu\text{g}}{\text{g}}$ RL: $20 \frac{\mu\text{g}}{\text{L}} \times \frac{0.025 \text{ L}}{1.0 \text{ g}} \times 10 = 0.8292 = 12.06 \frac{\mu\text{g}}{\text{g}}$

STL Knoxville Sequential Extraction Procedure (SEP) ICP Data Review / Narrative Checklist
Methods: SEP – KNOX-MT-0008, Rev4 and KNOX-MT-0013, Rev2; 6010B - KNOX-MT-0007, Rev 6

Lot / SDG #: H75050295

B. Review of QC Summary Forms Note: Y=Yes, N=No, NA=Not Applicable	Chart #	Chart #	Chart #	Chart #	Why is data reportable?
	T101707	T101907	T102207		
1. Internal standard (IS) response $\pm 30\%$ of ICB IS?	Y	Y	Y		<input type="checkbox"/> [is] High IS response. Sample(s) rerun at dilution. <input type="checkbox"/> Low IS response. Sample(s) reanalyzed.
2. ICV within limits? (90-110%R and <5% RSD)	Y	Y	Y		
3. CCV within limits? (90-110%R and <5%RSD)	Y	Y	Y		If no, list details: _____ <input type="checkbox"/> CCV reanalyzed one time; reanalysis within limits.
4. ICB/CCB < RL?	Y	Y	Y		If no, list details: _____ <input type="checkbox"/> CCV reanalyzed one time; reanalysis within limits.
5. Are RLs on ICB/CCB/ICSA forms < client RLs?	Y	Y	Y		
6. ICSA/ICSAB run at beginning of run?	Y	Y	Y		
7. ICSA criteria for non-interfering elements met? (RLs <10 ppb within +/- 2x SOP RL from zero) (RLs >10 ppb within +/- 1x SOP RL from zero) If no, list analytes: _____	Y	Y	Y		<input type="checkbox"/> [ics1] Results outside limits due to contamination. <input type="checkbox"/> [ics2] Interfering elements not present in sample at level which would result in false result >+1x RL. <input type="checkbox"/> [ics3] Sample conc. >10x analyte signal in ICSA. <input type="checkbox"/> Element not reported.
8. ICSAB interferences and analytes within 80-120%R?	Y	Y	Y		
9. Reporting Limit Check Standard (CRDL) within limits? (50-150%R)	Y	Y	Y		
10. Serial dilution done per prep batch?	Y	Y	Y		
11. Serial dilution results within 10% D for analytes >50xIDL?	N	Y	Y		<input checked="" type="checkbox"/> [ser] Physical or chemical interference - sample matrix.
12. Serial dilution form generated for each undiluted/diluted run of OS?	Y	Y	Y		
13. Was the Step # added to the serial dilution form?	Y	Y	Y		
14. Does IDL form contain IDLs for the instrument used? (check one IDL)	Y	Y	Y		
15. Are the IDLs, LR and IECs on summary forms current?	Y	Y	Y		
16. Are the QC summary forms correct?	Y	Y	Y		
Data Reviewer:	NTM	NTM	NTM		
Date:	Oct 23, 07	Oct 24, 07	Oct 24, 07		

Comments:

STL Knoxville Sequential Extraction Procedure (SEP) Mercury Data Review / Narrative Checklist
Methods: SEP – KNOX-MT-0008, Rev4 and KNOX-MT-0013, Rev2; 7470A - KNOX-MT-0009, Rev 7
 Page 1 of 2

Lot / SDG #: 4475050295

A. Review of QDS Results	NTM Oct 24, 07	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Total	Why is data reportable?
1. Were all prep sheets and spreadsheets reviewed?	NTM	Y	Y	Y	Y	Y	Y	Y	Y	
2. Were manual calculations of results, RLs and MDLs for each sample, DUP, blank and LCS? (Document 1 calculation per batch.)	Y	Y	Y	Y	Y	Y	Y	Y	Y	
3. For each sample, DUP, blank and LCS, were flags, units, DFs, prep date, date/time of analysis verified to be correct?	Y	Y	Y	Y	Y	Y	Y	Y	Y	
4. Were spike amounts verified for each LCS? (Document 1 manual calculation.)	Y	Y	Y	Y	Y	Y	Y	Y	Y	
5. Were method blank results < RL?	Y	Y	Y	Y	Y	Y	Y	Y	Y	<input type="checkbox"/> See narrative – common analyte in SEP leachate.
6. LCS/LCSD done per prep batch?	Y	Y	Y	Y	Y	Y	Y	Y	Y	
7. LCS/LCSD %R and RPDs within QC limits?	N	Y	N	Y	Y	N	Y	Y	Y	<input checked="" type="checkbox"/> See narrative.
8. DUP done per prep batch?	Y	Y	Y	Y	Y	Y	Y	Y	Y	
9. DUP RPD within limits? (0-30 RPD for results ≥5xRL; ±RL if result <5xRL)	N/A	Y	N	N/A	N/A	N/A	N/A	N/A	Y	
10. Were J flags added to the DUP as needed?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
11. Is DUP RPD=0 for two ND results?	Y	N/A	N/A	Y	Y	Y	Y	Y	N/A	
12. Is DUP RPD=200 for one ND and a positive result?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
13. Were all holding times met?	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Data Reviewer:	NTM	NTM	NTM	NTM	NTM	NTM	NTM	NTM	NTM	
Date:	Oct 25, 07	Oct 25, 07	Oct 25, 07	Oct 25, 07	Oct 25, 07	Oct 25, 07	Oct 25, 07	Oct 25, 07	Oct 24, 07	

Calculation Checks / Comments: *NTM Oct 24, 07*

Total $56DS7: 0.237 \text{ kg/L} \times \frac{0.05 \text{ L}}{50 \text{ mL}} \times \frac{50 \text{ mL}}{1.0 \text{ g}} \div 0.6292 = 0.143 \text{ kg/g}$ RL: $0.2 \text{ kg/L} \times \frac{0.05 \text{ L}}{1.0 \text{ g}} \times \frac{50 \text{ mL}}{5 \text{ mL}} \div 0.6292 = 0.121 \text{ kg/g}$

Step 1 All ~~steps~~ *steps* 1.0 g are non-detect.

Step 2 $56DH6: 7.45 \text{ kg/L} \times \frac{0.075 \text{ L}}{5 \text{ g}} \times \frac{50 \text{ mL}}{5 \text{ mL}} \div 0.5730 = 0.35 \text{ kg/g}$ RL: $0.2 \text{ kg/L} \times \frac{0.075 \text{ L}}{5 \text{ g}} \times \frac{50 \text{ mL}}{5 \text{ mL}} \div 0.5730 = 0.0344 \text{ kg/g}$

Step 3 $56DJAX: 0.195 \text{ kg/L} \times \frac{0.025 \text{ L}}{5 \text{ g}} \times \frac{50 \text{ mL}}{5 \text{ mL}} \div 0.5730 = 0.011 \text{ kg/g}$ RL: $0.2 \text{ kg/L} \times \frac{0.025 \text{ L}}{5 \text{ g}} \times \frac{50 \text{ mL}}{5 \text{ mL}} \div 0.5730 = 0.011 \text{ kg/g}$

Step 4 → Step 7 non-detect

TestAmerica Knoxville

Data Quality Checks

T101707**Internal Standard**

Date	Time	Lab ID	Problem
23-Oct-07	2:55 PM		<i>There were 51 results successfully verified.</i>

Relative Standard Deviation

Date	Time	Lab ID	Problem
23-Oct-07	2:55 PM		<i>There were 48 results successfully verified.</i>

TestAmerica Knoxville

Data Quality Checks

T101907

Internal Standard

Date	Time	Lab ID	Problem
24-Oct-07	2:16 PM		<i>There were 72 results successfully verified.</i>

Relative Standard Deviation

Date	Time	Lab ID	Problem
24-Oct-07	2:16 PM		<i>There were 64 results successfully verified.</i>

TestAmerica Knoxville

Data Quality Checks

T102207

Internal Standard

Date	Time	Lab ID	Problem
24-Oct-07	4:26 PM		<i>There were 31 results successfully verified.</i>

Relative Standard Deviation

Date	Time	Lab ID	Problem
24-Oct-07	4:26 PM		<i>There were 28 results successfully verified.</i>

TestAmerica Knoxville

Data Quality Checks

T102207

Internal Standard

Date	Time	Lab ID	Problem
24-Oct-07	4:26 PM		<i>There were 31 results successfully verified.</i>

Relative Standard Deviation

Date	Time	Lab ID	Problem
24-Oct-07	4:26 PM		<i>There were 28 results successfully verified.</i>

TestAmerica Knoxville
TAL Sequential Extraction Procedure - SOP KNOX-MT-0008rev0
Step 1 - Sample Preparation Worksheet

Batch Number: 7283063

Prep Date: 10/10/2007 0800

Comp Date: 10/11/2007 1700

Analyst: KND

1st Level Review/Relinquished by: KND

2nd Level Review/Received by: NTM

Date: 10/11/2007

Date: Oct 23, 07

Lot Number	Lot Sample Number	Suffix	Method Code	Client ID	WO #	Centrifuge Tube Tare Weight (g)	Centrifuge Tube + Sample Weight (g)	Sample Weight (g)	Volume Extraction Fluid (mL)	pH	Volume Leachate Digested (mL)	Final Volume 3010A Digestate (mL)
H7J050295	1		LTUS	OU1-SS-SB316-0-1 - Step1	J8DH0	13.99	18.99	5.00	25.0	<2	5.0	50.0
H7J050295	1	X	LTUS	OU1-SS-SB316-0-1 - Step1 DUP	J8DH0	13.66	18.66	5.00	25.0	<2	5.0	50.0
H7J050295	9		LTUS	OU1-SS-SB317-2-4 - Step1	J8DJQ	13.56	18.56	5.00	25.0	<2	5.0	50.0
H7J050295	17		LTUS	OU1-SS-SB313-2-4 - Step1	J8DJ9	13.96	18.96	5.00	25.0	<2	5.0	50.0
H7J050295	25		LTUS	OU1-SS-SB311-0-2 - Step1	J8DKW	13.51	18.51	5.00	25.0	<2	5.0	50.0
H7J100000	63	B	LTUS	INTRA-LAB BLANK	J8KNV	13.91	18.91	5.00	25.0	<2	5.0	50.0
H7J100000	63	C	LTUS	INTRA-LAB CHECK	J8KNV	13.62	18.62	5.00	25.0	<2	5.0	50.0
H7J100000	63	L	LTUS	INTRA-LAB CHECK	J8KNV	13.47	18.47	5.00	25.0	<2	5.0	50.0
			****	SB316 (Original sample)	J8DH0	13.51	18.51	5.00	25.0	<2	5.0	50.0
				Extraction Start 10/11/07 14:35								
				Stop 10/11/07 15:35								
				Centrifuge Start 15:35								
				Stop 16:05								
				3010A 10/12/07								
				**** Sample tube cracked during the 2nd centrifuge stage in step 2 and the leachate leaked out.								
				Sample was re-extracted with step 1 10/11/07.								

Step 1: 25 mL 1M Magnesium Sulfate - Shake gently for 1 hr; Centrifuge 30 min, 4000 rpm.

Extraction Start Date/Time: 10/10/2007 9:20
 Extraction Stop Date/Time: 10/10/2007 10:20:0
 Centrifuge Start Time: 10:25
 Centrifuge Stop Time: 10:55
 3010A Digestion Date: 10/11/2007

ICP LCS/LCSD Spike: 2.5 mL of A2MEB234055
 2.5 mL of A2MEB234056
 2.5 mL of A2MEB234057
 Hg LCS/LCSD Spike: 0.125 mL of ICAL 3425-15

Exp. Date
<u>6/1/2008</u>
<u>6/1/2008</u>
<u>6/1/2008</u>
<u>11/4/2007</u>

1M MgSO₄ Reagent ID: MgS04100907
 HNO₃ Lot #: E20033
 HCl Lot #: C47A01

Comments: _____

TestAmerica Knoxville
TAL Sequential Extraction Procedure - SOP KNOX-MT-0008rev0
Step 2 - Sample Preparation Worksheet

Batch Number: 7284046

Prep Date: 10/11/2007 0800

Comp Date: 10/15/2007 1700

Analyst: KND

1st Level Review/Relinquished by: KND

Date: 10/15/2007

2nd Level Review/Received by: NTM

Date: Oct 23, 07

Lot Number	Lot Sample Number	Suffix	Method Code	Client ID	WO #	Volume Extraction Fluid (mL)	pH	Total Volume Leachate Digested (mL)	Final Volume 3010A Digestate (mL)	Comments
H7J050295	2		LVUS	OU1-SS-SB316-0-1 - Step2	J8DH8	75.00	<2	5.0	50	
H7J050295	2	X	LVUS	OU1-SS-SB316-0-1 - Step2 DUP	J8DH8	75.00	<2	5.0	50	
H7J050295	10		LVUS	OU1-SS-SB317-2-4 - Step2	J8DJW	75.00	<2	5.0	50	
H7J050295	18		LVUS	OU1-SS-SB313-2-4 - Step2	J8DKA	75.00	<2	5.0	50	Filtrate pink color
H7J050295	26		LVUS	OU1-SS-SB311-0-2 - Step2	J8DK3	75.00	<2	5.0	50	Filtrate pink color
H7J110000	46	B	LVUS	INTRA-LAB BLANK	J8NGH	75.00	<2	5.0	50	
H7J110000	46	C	LVUS	INTRA-LAB CHECK	J8NGH	75.00	<2	5.0	50	Brown precipitate on
H7J110000	46	L	LVUS	INTRA-LAB CHECK	J8NGH	75.00	<2	5.0	50	bottom of tubes after
										centrifuging
				SB316 (Original sample)	J8DH8	75.00	<2	5.0	50	
				Sample tube cracked during the 2nd centrifuge stage and the leachate leaked out. Sample was re-extracted with step 1 and then continued thru with step 2.						
				Extraction Start 10/12/07 8:25 10:55 13:45						
				Stop 10/12/07 9:25 11:55 14:45						
				Centrifuge Start 10/12/07 10:10 13:10 15:20						
				Stop 10/12/07 10:40 13:40 15:50						

Step 2: 25 mL 5% Sodium Hypochlorite (pH 9.5) - Heat at 95 +/-5 °C for 1 hr; Centrifuge 30 min, 4000 rpm. Repeat 2 more times. Combine leachates.

Extraction Start Dates/Times: 10/11/07 8:20 11:05 10/12/07 8:25

Extraction Stop Dates/Times: 10/11/07 9:20 12:05 10/12/07 9:25

Centrifuge Start Times: 10:10 12:55 10/12/07 10:10

Centrifuge Stop Times: 10:40 13:25 10/12/07 10:40

3010A Digestion Date: 10/15/07

ICP LCS/LCSD Spike:

3 X 2.5 mL of A2MEB234055

Exp. Date
6/1/2008
6/1/2008
6/1/2008
11/4/2007

3 X 2.5 mL of A2MEB234056

3 X 2.5 mL of A2MEB234057

3 X 0.125 mL of ICAL 3425-15

5% NaClO Reagent ID: NaHypo101007

HNO₃ Lot #: E20033

HCl Lot #: C47A01

Hg LCS/LCSD Spike:

Comments:

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 10/15/07
Time: 7:02:33

BATCH NUMBER: 7282076

PREP DATE: 10/11/07 8:00
DUE DATE 10/19/07

COMP DATE: 10/11/07 12:00
INITIALS: *DW*

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGHT
H7J050295	J8DJN	01	_____g	X <i>5.0ml</i> <i>50.0gml</i>	_____g	_____g
SOLID	TO DUE DATE:		10/19/07			
	J8DJNX		_____g	_____g	_____g	_____g
H7J050295	J8DJ7	01	_____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		10/19/07			
H7J050295	J8DKT	01	_____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		10/19/07			
H7J050295	J8DLE	01	_____g	X _____g	_____g	_____g
SOLID	TO DUE DATE:		10/19/07			
H7J090000	J8G4AB	01	_____g	X _____g	_____g	_____g
SOLID	DUE DATE:		0/00/00			
	J8G4AC		_____g	_____g	_____g	_____g
	J8G4AL		_____g	_____g	_____g	_____g

LEVEL 2

BLANK AND CHECK STANDARD ON BATCH _____
 MS/MSD AND PDS ON BATCH _____
 CURVE PREPPED FOR HG _____
 CORRECT SPIKES ADDED _____
 SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG _____

COMMENTS:

TOTALS - SEP

B-BLANK/C-LCS/D-MSD/I-REANALYSIS/L-LCSD/P-SERIAL DLTN/S-MS/X-SAMP DUP/Y-SAMP CONF/Z-PDS
SPIKING WITNESSED BY _____

STL Knoxville

Mercury Prep Spiking Form

Analyst: DWDate: 10-15-07Batch: 7222076Bath A Temp: 95°Bath B Temp: 94°

(Acceptance range 90°-95°C)

7470A/245.1: KNOX-MT-0009, Rev. 7

□ 7471/245.5: KNOX-MT-0010, Rev. 5

Standard Type	Standard ID	Intermediate Std.		Volume Used (ml)	Final Volume (ml)	Final Concentration (ug/L)
		Source	Conc.(ug/L)			
Calibration Std 1	N/A		N/A	N/A	50	Blank
Calibration Std 2	I-CAL- <u>3425-15-2</u>	<u>SPEX</u>	100	0.05	50	0.1
Calibration Std 3	I-CAL-		100	0.1	50	0.2
Calibration Std 4	I-CAL-		100	0.25	50	0.5
Calibration Std 5	I-CAL-		100	0.5	50	1.0
Calibration Std 6	I-CAL-		100	2.5	50	5.0
Calibration Std 7	I-CAL-		100	5.0	50	10.0

Standard Type	Standard ID	Intermediate Std.		Volume Used (ml)	Final Volume/Weight	Final Concentration
		Source	Conc.(ug/L)			
ICV	I-VER- <u>3426-16-2</u>	<u>ULTRA</u>	100	1.25	50 ml	2.5 ug/L
CCV	I-CAL- <u>3425-15-2</u>	<u>SPEX</u>	100	2.5	50 ml	5.0 ug/L
CRA	I-CAL- <u>1</u>	<u>1</u>	100	0.1	50 ml	0.2 ug/L
Aqueous LCS	I-CAL-		100	2.5	50 ml	5.0 ug/L
Aqueous MS	I-CAL-		100	0.5	50 ml	1.0 ug/L
Soil LCS	I-CAL- <u>-SEE ICP SPIKE SHEET-</u>		100	2.5	0.3 g	0.83 mg/kg
Soil MS	I-CAL- <u>-SEE ICP SPIKE SHEET-</u>		100	0.5	0.3 g	0.17 mg/kg
TCLP MS	I-CAL-		100	2.5	50 ml	5.0 ug/L

REAGENTS			
Conc. H ₂ SO ₄ Lot #:	<u>C15045</u>	5% KMnO ₄ ID #:	<u>D-2638-19-D</u>
Conc. HNO ₃ Lot #:	<u>E06062</u>	5% K ₂ S ₂ O ₈ ID #:	<u>B-3122-15-B</u>
Conc. HCL Lot #:	<u>C42A22</u>	SnCl ₂ Solution ID #:	<u>A-3322-34-B</u>
12% NaCl-NH ₂ OH-HCL ID #:	<u>C-3267-5-B</u>	Aqua Regia ID #:	<u>N/A</u>

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 10/22/07
Time: 7:33:53

BATCH NUMBER: 7295103

PREP DATE: 10/22/07 10:00
DUE DATE 11/02/07

COMP DATE: 10/22/07 13:00
INITIALS: DKW

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGH
H7J050295	J8DH0	01	_____g	X <u>5.0ml</u> <u>50.0 gml</u>	_____g	_____g
SOLID	DUE DATE:		11/02/07			
	J8DH0X		_____g	_____g	_____g	_____g
H7J050295	J8DJQ	01	_____g	X _____g	_____g	_____g
SOLID	DUE DATE:		11/02/07			
H7J050295	J8DJ9	01	_____g	X _____g	_____g	_____g
SOLID	DUE DATE:		11/02/07			
H7J050295	J8DKW	01	_____g	X _____g	_____g	_____g
SOLID	DUE DATE:		11/02/07			
H7J100000	J8KNVB	01	_____g	X _____g	_____g	_____g
SOLID	DUE DATE:		0/00/00			
	J8KNVC		_____g	_____g	_____g	_____g
	J8KNVL		_____g	_____g	_____g	_____g

LEVEL 2

 BLANK AND CHECK STANDARD ON BATCH _____
 MS/MSD AND PDS ON BATCH _____
 CURVE PREPPED FOR HG _____
 CORRECT SPIKES ADDED _____
 SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG _____

COMMENTS: STEP 1
 B-BLANK/C-LCS/D-MSD/I-REANALYSIS/L-LCSD/P-SERIAL DLTN/S-MS/X-SAMP DUP/Y-SAMP CONF/Z-PDS
 SPIKING WITNESSED BY _____

STL Knoxville
Mercury Prep Spiking Form

Analyst: KND/DKWDate: 10/22/07Batch: 7295/03Bath A Temp: 93°Bath B Temp: 92°

(Acceptance range 90°-95°C)

X 7470A/245.1: KNOX-MT-0009, Rev. 7

□ 7471/245.5: KNOX-MT-0010, Rev. 5

Standard Type	Standard ID	Intermediate Std.		Volume Used (ml)	Final Volume (ml)	Final Concentration (ug/L)
		Source	Conc.(ug/L)			
Calibration Std 1	N/A		N/A	N/A	50	Blank
Calibration Std 2	I-CAL- <u>3425-15-4</u>	<u>Spex</u>	100	0.05	50	0.1
Calibration Std 3	I-CAL-		100	0.1	50	0.2
Calibration Std 4	I-CAL-		100	0.25	50	0.5
Calibration Std 5	I-CAL-		100	0.5	50	1.0
Calibration Std 6	I-CAL-		100	2.5	50	5.0
Calibration Std 7	I-CAL-		100	5.0	50	10.0

Standard Type	Standard ID	Intermediate Std.		Volume Used (ml)	Final Volume/Weight	Final Concentration
		Source	Conc.(ug/L)			
ICV	I-VER- <u>3426-16-4</u>	<u>Ultra</u>	100	1.25	50 ml	2.5 ug/L
CCV	I-CAL- <u>3425-15-4</u>	<u>Spex</u>	100	2.5	50 ml	5.0 ug/L
CRA	I-CAL-		100	0.1	50 ml	0.2 ug/L
Aqueous LCS	I-CAL- <u>See ICP SEP Spreadsheets</u>		100	2.5	50 ml	5.0 ug/L
Aqueous MS	I-CAL-		100	0.5	50 ml	1.0 ug/L
Soil LCS	I-CAL-		100	2.5	0.3 g	0.83 mg/kg
Soil MS	I-CAL-		100	0.5	0.3 g	0.17 mg/kg
TCLP MS	I-CAL-		100	2.5	50 ml	5.0 ug/L

REAGENTS			
Conc. H ₂ SO ₄ Lot #:	<u>C15045</u>	5% KMnO ₄ ID #:	<u>B-3122-15-B</u>
Conc. HNO ₃ Lot #:	<u>ED6062</u>	5% K ₂ S ₂ O ₈ ID #:	<u>D-2638-19-E</u>
Conc. HCL Lot #:	<u>C42A22</u>	SnCl ₂ Solution ID #:	<u>A-3382-34-D</u>
12% NaCl-NH ₂ OH-HCL ID #:	<u>C-3267-5-B</u>	Aqua Regia ID #:	<u>NA</u>

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 10/22/07
Time: 7:34:02

BATCH NUMBER: 7295104

PREP DATE: 10/22/07 10:00
DUE DATE 11/02/07

COMP DATE: 10/22/07 13:00
INITIALS: *Daw*

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGH
H7J050295	J8DH8	01	_____g	X <i>5.0ml</i> <i>50.0 pul</i>	_____g	_____g
SOLID	DUE DATE:		11/02/07			
	J8DH8X		_____g	_____g	_____g	_____g
H7J050295	J8DJW	01	_____g	X _____g	_____g	_____g
SOLID	DUE DATE:		11/02/07			
H7J050295	J8DKA	01	_____g	X _____g	_____g	_____g
SOLID	DUE DATE:		11/02/07			
H7J050295	J8DK3	01	_____g	X _____g	_____g	_____g
SOLID	DUE DATE:		11/02/07			
H7J110000	J8NGHB	01	_____g	X _____g	_____g	_____g
SOLID	DUE DATE:		0/00/00			
	J8NGHC		_____g	_____g	_____g	_____g
	J8NGHL		_____g	_____g	_____g	_____g

LEVEL 2

BLANK AND CHECK STANDARD ON BATCH _____

MS/MSD AND PDS ON BATCH _____

CURVE PREPPED FOR HG _____

CORRECT SPIKES ADDED _____

SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG _____

COMMENTS: STEP 2

B-BLANK/C-LCS/D-MSD/I-REANALYSIS/L-LCSD/P-SERIAL DLTN/S-MS/X-SAMP DUP/Y-SAMP CONF/Z-PDS
SPIKING WITNESSED BY _____

STL Knoxville
Mercury Prep Spiking Form

Analyst: KND/DKWDate: 10/22/07Batch: 7295104Bath A Temp: 93°Bath B Temp: 92°

(Acceptance range 90°-95°C)

X 7470A/245.1: KNOX-MT-0009, Rev. 7

□ 7471/245.5: KNOX-MT-0010, Rev. 5

Standard Type	Standard ID	Intermediate Std.		Volume Used (ml)	Final Volume (ml)	Final Concentration (ug/L)
		Source	Conc.(ug/L)			
Calibration Std 1	N/A		N/A	N/A	50	Blank
Calibration Std 2	I-CAL- <u>3425-15-4</u>	<u>Spex</u>	100	0.05	50	0.1
Calibration Std 3	I-CAL- ↓	↓	100	0.1	50	0.2
Calibration Std 4	I-CAL- ↓	↓	100	0.25	50	0.5
Calibration Std 5	I-CAL- ↓	↓	100	0.5	50	1.0
Calibration Std 6	I-CAL- ↓	↓	100	2.5	50	5.0
Calibration Std 7	I-CAL- ↓	↓	100	5.0	50	10.0

Standard Type	Standard ID	Intermediate Std.		Volume Used (ml)	Final Volume/Weight	Final Concentration
		Source	Conc.(ug/L)			
ICV	I-VER- <u>3426-16-4</u>	<u>Ultra</u>	100	1.25	50 ml	2.5 ug/L
CCV	I-CAL- <u>3425-15-4</u>	<u>Spex</u>	100	2.5	50 ml	5.0 ug/L
CRA	I-CAL- ↓	↓	100	0.1	50 ml	0.2 ug/L
Aqueous LCS	I-CAL- <u>See ICP SEP Spreadsheets</u>		100	2.5	50 ml	5.0 ug/L
Aqueous MS	I-CAL- _____	_____	100	0.5	50 ml	1.0 ug/L
Soil LCS	I-CAL- _____		100	2.5	0.3 g	0.83 mg/kg
Soil MS	I-CAL- _____		100	0.5	0.3 g	0.17 mg/kg
TCLP MS	I-CAL- _____		100	2.5	50 ml	5.0 ug/L

REAGENTS			
Conc. H ₂ SO ₄ Lot #:	<u>C15045</u>	5% KMnO ₄ ID #:	<u>B-3122-15-B</u>
Conc. HNO ₃ Lot #:	<u>ED6062</u>	5% K ₂ S ₂ O ₈ ID #:	<u>D-2638-19-E</u>
Conc. HCL Lot #:	<u>C42A22</u>	SnCl ₂ Solution ID #:	<u>A-3382-34-D</u>
12% NaCl·NH ₂ OH·HCL ID #:	<u>C-3267-5-B</u>	Aqua Regia ID #:	<u>NA</u>

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 10/22/07
Time: 7:34:11

BATCH NUMBER: 7295105

PREP DATE: 10/22/07 10:00
DUE DATE 11/02/07

COMP DATE: 10/22/07 13:00
INITIALS: DW

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGH
H7J050295	J8DJA	01	_____g	X <u>5.0 ml</u> <u>50.0 ml</u>	_____g	_____g
SOLID	DUE DATE:		11/02/07			
	J8DJAX		_____g	_____g	_____g	_____g
H7J050295	J8DJ0	01	_____g	X _____g	_____g	_____g
SOLID	DUE DATE:		11/02/07			
H7J050295	J8DKE	01	_____g	X _____g	_____g	_____g
SOLID	DUE DATE:		11/02/07			
H7J050295	J8DK7	01	_____g	X _____g	_____g	_____g
SOLID	DUE DATE:		11/02/07			
H7J120000	J8RNHB	01	_____g	X _____g	_____g	_____g
SOLID	DUE DATE:		0/00/00			
	J8RNHC		_____g	_____g	_____g	_____g
	J8RNHL		_____g	_____g	_____g	_____g

LEVEL 2

BLANK AND CHECK STANDARD ON BATCH _____
MS/MSD AND PDS ON BATCH _____
CURVE PREPPED FOR HG _____
CORRECT SPIKES ADDED _____
SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG _____

COMMENTS:

STEP 3

B-BLANK/C-LCS/D-MSD/I-REANALYSIS/L-LCSD/P-SERIAL DLTN/S-MS/X-SAMP DUP/Y-SAMP CONF/Z-PDS
SPIKING WITNESSED BY _____

STL Knoxville
Mercury Prep Spiking Form

Analyst: KND/DKWDate: 10/22/07Batch: 7295/05Bath A Temp: 93°Bath B Temp: 92°

(Acceptance range 90°-95°C)

X 7470A/245.1: KNOX-MT-0009, Rev. 7

□ 7471/245.5: KNOX-MT-0010, Rev. 5

Standard Type	Standard ID	Intermediate Std.		Volume Used (ml)	Final Volume (ml)	Final Concentration (ug/L)
		Source	Conc.(ug/L)			
Calibration Std 1	N/A		N/A	N/A	50	Blank
Calibration Std 2	I-CAL-3425-15-4	Spex	100	0.05	50	0.1
Calibration Std 3	I-CAL-		100	0.1	50	0.2
Calibration Std 4	I-CAL-		100	0.25	50	0.5
Calibration Std 5	I-CAL-		100	0.5	50	1.0
Calibration Std 6	I-CAL-		100	2.5	50	5.0
Calibration Std 7	I-CAL-		100	5.0	50	10.0

Standard Type	Standard ID	Intermediate Std.		Volume Used (ml)	Final Volume/Weight	Final Concentration
		Source	Conc.(ug/L)			
ICV	I-VER-3426-16-4	Ultra	100	1.25	50 ml	2.5 ug/L
CCV	I-CAL-3425-15-4	Spex	100	2.5	50 ml	5.0 ug/L
CRA	I-CAL-		100	0.1	50 ml	0.2 ug/L
Aqueous LCS	I-CAL- See ICP SEP Spreadsheets		100	2.5	50 ml	5.0 ug/L
Aqueous MS	I-CAL-		100	0.5	50 ml	1.0 ug/L
Soil LCS	I-CAL-		100	2.5	0.3 g	0.83 mg/kg
Soil MS	I-CAL-		100	0.5	0.3 g	0.17 mg/kg
TCLP MS	I-CAL-		100	2.5	50 ml	5.0 ug/L

REAGENTS			
Conc. H ₂ SO ₄ Lot #:	C15045	5% KMnO ₄ ID #:	B-3122-15-B
Conc. HNO ₃ Lot #:	E06062	5% K ₂ S ₂ O ₈ ID #:	D-2638-19-E
Conc. HCL Lot #:	C42A22	SnCl ₂ Solution ID #:	A-3382-34-D
12% NaCl·NH ₂ OH·HCL ID #:	C-3267-5-B	Aqua Regia ID #:	NA

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 10/22/07
Time: 7:34:23

BATCH NUMBER: 7295107

PREP DATE: 10/22/07 10:00
DUE DATE 11/02/07

COMP DATE: 10/22/07 13:00
INITIALS: Dkw

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGH
H7J050295 SOLID	J8DJE DUE DATE:	01	_____g 11/02/07	X _____g <u>5.0ml</u> <u>50.0ml</u>	_____g	_____g
	J8DJEX		_____g	_____g	_____g	_____g
H7J050295 SOLID	J8DJ1 DUE DATE:	01	_____g 11/02/07	X _____g	_____g	_____g
H7J050295 SOLID	J8DKG DUE DATE:	01	_____g 11/02/07	X _____g	_____g	_____g
H7J050295 SOLID	J8DK8 DUE DATE:	01	_____g 11/02/07	X _____g	_____g	_____g
H7J150000 SOLID	J80QPB DUE DATE:	01	_____g 0/00/00	X _____g	_____g	_____g
	J80QPC		_____g	_____g	_____g	_____g
	J80QPL		_____g	_____g	_____g	_____g

LEVEL 2

_____ BLANK AND CHECK STANDARD ON BATCH _____
 _____ MS/MSD AND PDS ON BATCH _____
 _____ CURVE PREPPED FOR HG _____
 _____ CORRECT SPIKES ADDED _____
 _____ SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG _____

COMMENTS: STEP 4
 B-BLANK/C-LCS/D-MSD/I-REANALYSIS/L-LCSD/P-SERIAL DLTN/S-MS/X-SAMP DUP/Y-SAMP CONF/Z-PDS
 SPIKING WITNESSED BY _____

STL Knoxville
Mercury Prep Spiking Form

Analyst: KND/DKWDate: 10/22/07Batch: 7295/07Bath A Temp: 93°Bath B Temp: 92°

(Acceptance range 90°-95°C)

X 7470A/245.1: KNOX-MT-0009, Rev. 7

□ 7471/245.5: KNOX-MT-0010, Rev. 5

Standard Type	Standard ID	Intermediate Std.		Volume Used (ml)	Final Volume (ml)	Final Concentration (ug/L)
		Source	Conc.(ug/L)			
Calibration Std 1	N/A		N/A	N/A	50	Blank
Calibration Std 2	I-CAL- <u>3425-15-4</u>	<u>Spex</u>	100	0.05	50	0.1
Calibration Std 3	I-CAL- ↓	↓	100	0.1	50	0.2
Calibration Std 4	I-CAL- ↓	↓	100	0.25	50	0.5
Calibration Std 5	I-CAL- ↓	↓	100	0.5	50	1.0
Calibration Std 6	I-CAL- ↓	↓	100	2.5	50	5.0
Calibration Std 7	I-CAL- ↓	↓	100	5.0	50	10.0

Standard Type	Standard ID	Intermediate Std.		Volume Used (ml)	Final Volume/Weight	Final Concentration
		Source	Conc.(ug/L)			
ICV	I-VER- <u>3426-16-4</u>	<u>Ultra</u>	100	1.25	50 ml	2.5 ug/L
CCV	I-CAL- <u>3425-15-4</u>	<u>Spex</u>	100	2.5	50 ml	5.0 ug/L
CRA	I-CAL- ↓	↓	100	0.1	50 ml	0.2 ug/L
Aqueous LCS	I-CAL- <u>See ICP SEP Spreadsheets</u>		100	2.5	50 ml	5.0 ug/L
Aqueous MS	I-CAL- _____		100	0.5	50 ml	1.0 ug/L
Soil LCS	I-CAL- _____		100	2.5	0.3 g	0.83 mg/kg
Soil MS	I-CAL- _____		100	0.5	0.3 g	0.17 mg/kg
TCLP MS	I-CAL- _____		100	2.5	50 ml	5.0 ug/L

REAGENTS			
Conc. H ₂ SO ₄ Lot #:	<u>C15045</u>	5% KMnO ₄ ID #:	<u>B-3122-15-B</u>
Conc. HNO ₃ Lot #:	<u>E06062</u>	5% K ₂ S ₂ O ₈ ID #:	<u>D-2638-19-E</u>
Conc. HCL Lot #:	<u>C42A22</u>	SnCl ₂ Solution ID #:	<u>A-3382-34-D</u>
12% NaCl·NH ₂ OH·HCL ID #:	<u>C-3267-5-B</u>	Aqua Regia ID #:	<u>NA</u>

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 10/22/07
Time: 7:34:35

BATCH NUMBER: 7295110

PREP DATE: 10/22/07 10:00
DUE DATE 11/02/07

COMP DATE: 10/22/07 13:00
INITIALS: DW

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGHT
H7J050295	J8DJG	01	_____g	X <u>5.0ml</u> <u>50.0ml</u>	_____g	_____g
SOLID	DUE DATE:		11/02/07			
	J8DJGX		_____g	_____g	_____g	_____g
H7J050295	J8DJ2	01	_____g	X _____g	_____g	_____g
SOLID	DUE DATE:		11/02/07			
H7J050295	J8DKH	01	_____g	X _____g	_____g	_____g
SOLID	DUE DATE:		11/02/07			
H7J050295	J8DK9	01	_____g	X _____g	_____g	_____g
SOLID	DUE DATE:		11/02/07			
H7J160000	J83W5B	01	_____g	X _____g	_____g	_____g
SOLID	DUE DATE:		0/00/00			
	J83W5C		_____g	_____g	_____g	_____g
	J83W5L		_____g	_____g	_____g	_____g

LEVEL 2
 BLANK AND CHECK STANDARD ON BATCH _____
 MS/MSD AND PDS ON BATCH _____
 CURVE PREPPED FOR HG _____
 CORRECT SPIKES ADDED _____
 SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG _____

COMMENTS: STEP 5
 B-BLANK/C-LCS/D-MSD/I-REANALYSIS/L-LCSD/P-SERIAL DLTN/S-MS/X-SAMP DUP/Y-SAMP CONF/Z-PDS
 SPIKING WITNESSED BY _____

STL Knoxville
Mercury Prep Spiking Form

Analyst: KND/DKWDate: 10/22/07Batch: 7295110Bath A Temp: 93°Bath B Temp: 92°

(Acceptance range 90°-95°C)

X 7470A/245.1: KNOX-MT-0009, Rev. 7

□ 7471/245.5: KNOX-MT-0010, Rev. 5

Standard Type	Standard ID	Intermediate Std.		Volume Used (ml)	Final Volume (ml)	Final Concentration (ug/L)
		Source	Conc.(ug/L)			
Calibration Std 1	N/A		N/A	N/A	50	Blank
Calibration Std 2	I-CAL-3425-15-4	SpeX	100	0.05	50	0.1
Calibration Std 3	I-CAL-	↓	100	0.1	50	0.2
Calibration Std 4	I-CAL-	↓	100	0.25	50	0.5
Calibration Std 5	I-CAL-	↓	100	0.5	50	1.0
Calibration Std 6	I-CAL-	↓	100	2.5	50	5.0
Calibration Std 7	I-CAL-	↓	100	5.0	50	10.0

Standard Type	Standard ID	Intermediate Std.		Volume Used (ml)	Final Volume/Weight	Final Concentration
		Source	Conc.(ug/L)			
ICV	I-VER- 3426-16-4	Ultra	100	1.25	50 ml	2.5 ug/L
CCV	I-CAL-3425-15-4	SpeX	100	2.5	50 ml	5.0 ug/L
CRA	I-CAL-	↓	100	0.1	50 ml	0.2 ug/L
Aqueous LCS	I-CAL- See ICP SEP Spreadsheets		100	2.5	50 ml	5.0 ug/L
Aqueous MS	I-CAL-		100	0.5	50 ml	1.0 ug/L
Soil LCS	I-CAL-		100	2.5	0.3 g	0.83 mg/kg
Soil MS	I-CAL-		100	0.5	0.3 g	0.17 mg/kg
TCLP MS	I-CAL-		100	2.5	50 ml	5.0 ug/L

REAGENTS			
Conc. H ₂ SO ₄ Lot #:	C15045	5% KMnO ₄ ID #:	B-3122-15-B
Conc. HNO ₃ Lot #:	E06062	5% K ₂ S ₂ O ₈ ID #:	D-2638-19-E
Conc. HCL Lot #:	C42A22	SnCl ₂ Solution ID #:	A-3382-34-D
12% NaCl·NH ₂ OH·HCL ID #:	C-3267-5-B	Aqua Regia ID #:	NA

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 10/22/07
Time: 7:34:45

BATCH NUMBER: 7295111

PREP DATE: 10/22/07 10:00
DUE DATE 11/02/07

COMP DATE: 10/22/07 13:00
INITIALS: DW

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGHT
H7J050295	J8DJJ	01	_____g	X <u>50.0mg</u>	_____g	_____g
SOLID	DUE DATE:		11/02/07			
	J8DJJX		_____g	_____g	_____g	_____g
H7J050295	J8DJ4	01	_____g	X _____g	_____g	_____g
SOLID	DUE DATE:		11/02/07			
H7J050295	J8DKL	01	_____g	X _____g	_____g	_____g
SOLID	DUE DATE:		11/02/07			
H7J050295	J8DLA	01	_____g	X _____g	_____g	_____g
SOLID	DUE DATE:		11/02/07			
H7J180000	J88D3B	01	_____g	X _____g	_____g	_____g
SOLID	DUE DATE:		0/00/00			
	J88D3C		_____g	_____g	_____g	_____g
	J88D3L		_____g	_____g	_____g	_____g

LEVEL 2

BLANK AND CHECK STANDARD ON BATCH _____
 MS/MSD AND PDS ON BATCH _____
 CURVE PREPPED FOR HG _____
 CORRECT SPIKES ADDED _____
 SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG _____

COMMENTS: STEP 6

B-BLANK/C-LCS/D-MSD/I-REANALYSIS/L-LCSD/P-SERIAL DLTN/S-MS/X-SAMP DUP/Y-SAMP CONF/Z-PDS
SPIKING WITNESSED BY _____

STL Knoxville
Mercury Prep Spiking Form

Analyst: KND/DKWDate: 10/22/07Batch: 729511Bath A Temp: 93°Bath B Temp: 92°

(Acceptance range 90°-95°C)

X 7470A/245.1: KNOX-MT-0009, Rev. 7

□ 7471/245.5: KNOX-MT-0010, Rev. 5

Standard Type	Standard ID	Intermediate Std.		Volume Used (ml)	Final Volume (ml)	Final Concentration (ug/L)
		Source	Conc.(ug/L)			
Calibration Std 1	N/A		N/A	N/A	50	Blank
Calibration Std 2	I-CAL-3425-15-4	Spex	100	0.05	50	0.1
Calibration Std 3	I-CAL-	↓	100	0.1	50	0.2
Calibration Std 4	I-CAL-	↓	100	0.25	50	0.5
Calibration Std 5	I-CAL-	↓	100	0.5	50	1.0
Calibration Std 6	I-CAL-	↓	100	2.5	50	5.0
Calibration Std 7	I-CAL-	↓	100	5.0	50	10.0

Standard Type	Standard ID	Intermediate Std.		Volume Used (ml)	Final Volume/Weight	Final Concentration
		Source	Conc.(ug/L)			
ICV	I-VER-3426-16-4	Ultra	100	1.25	50 ml	2.5 ug/L
CCV	I-CAL-3425-15-4	Spex	100	2.5	50 ml	5.0 ug/L
CRA	I-CAL-	↓	100	0.1	50 ml	0.2 ug/L
Aqueous LCS	I-CAL- See ICP SEP Spreadsheets		100	2.5	50 ml	5.0 ug/L
Aqueous MS	I-CAL-		100	0.5	50 ml	1.0 ug/L
Soil LCS	I-CAL-		100	2.5	0.3 g	0.83 mg/kg
Soil MS	I-CAL-		100	0.5	0.3 g	0.17 mg/kg
TCLP MS	I-CAL-		100	2.5	50 ml	5.0 ug/L

REAGENTS			
Conc. H ₂ SO ₄ Lot #:	C15045	5% KMnO ₄ ID #:	B-3122-15-B
Conc. HNO ₃ Lot #:	E06062	5% K ₂ S ₂ O ₈ ID #:	D-2638-19-E
Conc. HCL Lot #:	C42A22	SnCl ₂ Solution ID #:	A-3382-34-D
12% NaCl-NH ₂ OH-HCL ID #:	C-3267-5-B	Aqua Regia ID #:	NA

RQC057

Severn Trent Laboratories, Inc.
METALS PREP LOG/BATCH SUMMARY

Run Date: 10/22/07
Time: 7:34:54

BATCH NUMBER: 7295113

PREP DATE: 10/22/07 10:00
DUE DATE 11/02/07

COMP DATE: 10/23/07 13:00
INITIALS: DW

LOT NUMBER	WORK ORDER	QC	ICP/WEIGHT	HG/WEIGHT	GFA/WEIGHT	FLA/WEIGHT
H7J050295	J8DJL	01	_____g	X <u>5.0ml</u> <u>50.0ml</u>	_____g	_____g
SOLID	DUE DATE:		11/02/07			
	J8DJLX		_____g	_____g	_____g	_____g
H7J050295	J8DJ5	01	_____g	X _____g	_____g	_____g
SOLID	DUE DATE:		11/02/07			
H7J050295	J8DKP	01	_____g	X _____g	_____g	_____g
SOLID	DUE DATE:		11/02/07			
H7J050295	J8DLD	01	_____g	X _____g	_____g	_____g
SOLID	DUE DATE:		11/02/07			
H7J180000	J89P0B	01	_____g	X _____g	_____g	_____g
SOLID	DUE DATE:		0/00/00			
	J89P0C		_____g	_____g	_____g	_____g
	J89P0L		_____g	_____g	_____g	_____g

LEVEL 2

BLANK AND CHECK STANDARD ON BATCH _____
MS/MSD AND PDS ON BATCH _____
CURVE PREPPED FOR HG _____
CORRECT SPIKES ADDED _____
SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG _____

COMMENTS:

STEP 7

B-BLANK/C-LCS/D-MSD/I-REANALYSIS/L-LCSD/P-SERIAL DLTN/S-MS/X-SAMP DUP/Y-SAMP CONF/Z-PDS
SPIKING WITNESSED BY _____

STL Knoxville
Mercury Prep Spiking Form

Analyst: KND/DKWDate: 10/22/07Batch: 7295113Bath A Temp: 93°Bath B Temp: 92°

(Acceptance range 90°-95°C)

X 7470A/245.1: KNOX-MT-0009, Rev. 7

□ 7471/245.5: KNOX-MT-0010, Rev. 5

Standard Type	Standard ID	Intermediate Std.		Volume Used (ml)	Final Volume (ml)	Final Concentration (ug/L)
		Source	Conc.(ug/L)			
Calibration Std 1	N/A		N/A	N/A	50	Blank
Calibration Std 2	I-CAL-3425-15-4	SpeX	100	0.05	50	0.1
Calibration Std 3	I-CAL-	↓	100	0.1	50	0.2
Calibration Std 4	I-CAL-	↓	100	0.25	50	0.5
Calibration Std 5	I-CAL-	↓	100	0.5	50	1.0
Calibration Std 6	I-CAL-	↓	100	2.5	50	5.0
Calibration Std 7	I-CAL-	↓	100	5.0	50	10.0

Standard Type	Standard ID	Intermediate Std.		Volume Used (ml)	Final Volume/Weight	Final Concentration
		Source	Conc.(ug/L)			
ICV	I-VER-3426-16-4	Ultra	100	1.25	50 ml	2.5 ug/L
CCV	I-CAL-3425-15-4	SpeX	100	2.5	50 ml	5.0 ug/L
CRA	I-CAL-	↓	100	0.1	50 ml	0.2 ug/L
Aqueous LCS	I-CAL- See ICP SEP Spreadsheets		100	2.5	50 ml	5.0 ug/L
Aqueous MS	I-CAL-		100	0.5	50 ml	1.0 ug/L
Soil LCS	I-CAL-		100	2.5	0.3 g	0.83 mg/kg
Soil MS	I-CAL-		100	0.5	0.3 g	0.17 mg/kg
TCLP MS	I-CAL-		100	2.5	50 ml	5.0 ug/L

REAGENTS			
Conc. H ₂ SO ₄ Lot #:	C15045	5% KMnO ₄ ID #:	B-3122-15-B
Conc. HNO ₃ Lot #:	ED6062	5% K ₂ S ₂ O ₈ ID #:	D-2638-19-E
Conc. HCL Lot #:	C42A22	SnCl ₂ Solution ID #:	A-3382-34-D
12% NaCl-NH ₂ OH-HCL ID #:	C-3267-5-B	Aqua Regia ID #:	NA

Percent Moisture

STL Knoxville
Sample Moisture Raw Data Worksheet

Batch #:	7281140	Date Into Oven:	10-5-07
Initiated by:	RH	Time Into Oven:	18:00
Final Weight by:	LDW	Date Out of Oven:	10-6-07
		Time Out of Oven:	07:20

	Lot #	Work Order #	Decant?	Pan Weight (g)	Gross Wet Weight (g)
1	H7J050139	J8A2D	N	1.06	8.18
2	↓	2Q	↓	1.09	6.94
3	↓	2R	↓	1.08	7.65
4	↓	2R DUP	↓	1.07	7.33
5	↓	2T	↓	1.08	6.75
6	↓	20	↓	1.10	7.22
7	↓	22	↓	1.12	7.05
8	H7J050134	J8A0X		1.09	7.69
9	↓	02	↓	1.08	7.27
10	↓	03	↓	1.07	9.40
11	↓	04	↓	1.09	7.73
12	↓	05	↓	1.08	6.86
13	↓	06	↓	1.11	7.32
14	↓	07	↓	1.12	7.61
15	↓	09	↓	1.11	6.62
16	↓	1A	↓	1.09	7.04
17	↓	1E	↓	1.11	7.29
18	H7J050295	J8DHD		1.08	6.59
19	↓	JQ	↓	1.10	8.01
20	↓	J9	↓	1.09	7.35
21	↓	KW	↓	1.10	7.38

TESTAMERICA KNOXVILLE SAMPLE MOISTURE WORKSHEET

Batch Number: 7281140
 Initiated By: RH
 Final Weight By: LDW
 Entered By: LDW
 Quantims Code: 400461

Date Into Oven: 10/05/2007 (mmddyyyy)
 Time Into Oven: 18:00 (hhmm)
 Date Out of Oven: 10/06/2007 (mmddyyyy)
 Time Out of Oven: 07:20 (hhmm)

Reviewer Initials: LDW
 Reviewer Date: 10-8-07

	LOT #	WORK ORDER #	SUF	PAN WT (g)	GROSS WET WT (g)	GROSS DRY WT (g)	SAMPLE WET WT (g)	SAMPLE DRY WT (g)	DRYNESS FACTOR	PERCENT MOISTURE	PERCENT SOLIDS	ANALYSIS DATE (mmddyy)	ANALYSIS TIME (hhmm)	DECANT? ✓	RPD	DIFFERENCE
1	H7J050134	J8A0X1AC		1.090	7.690	6.460	6.600	5.370	0.8136	18.64	81.36	100807	1110	N		
2	H7J050134	J8A021AC		1.080	7.270	6.230	6.190	5.150	0.8320	16.80	83.20	100807	1111	N		
3	H7J050134	J8A031AC		1.070	9.400	7.960	8.330	6.890	0.8271	17.29	82.71	100807	1112	N		
4	H7J050134	J8A041AC		1.090	7.730	6.610	6.640	5.520	0.8313	16.87	83.13	100807	1113	N		
5	H7J050134	J8A051AC		1.080	6.860	5.880	5.780	4.800	0.8304	16.96	83.04	100807	1114	N		
6	H7J050134	J8A061AE		1.110	7.320	6.340	6.210	5.230	0.8422	15.78	84.22	100807	1115	N		
7	H7J050134	J8A071AC		1.120	7.610	6.700	6.490	5.580	0.8598	14.02	85.98	100807	1116	N		
8	H7J050134	J8A091AC		1.110	6.620	5.690	5.510	4.580	0.8312	16.88	83.12	100807	1117	N		
9	H7J050134	J8A1A1AC		1.090	7.040	6.020	5.950	4.930	0.8286	17.14	82.86	100807	1118	N		
10	H7J050134	J8A1E1AC		1.110	7.290	6.310	6.180	5.200	0.8414	15.86	84.14	100807	1119	N		
11	H7J050139	J8A2D1AC		1.060	8.180	6.650	7.120	5.590	0.7851	21.49	78.51	100807	1120	N		
12	H7J050139	J8A2Q1AC		1.090	6.940	5.860	5.850	4.770	0.8154	18.46	81.54	100807	1121	N		
13	H7J050139	J8A2R1AC		1.080	7.650	6.600	6.570	5.520	0.8402	15.98	84.02	100807	1122	N		
14	H7J050139	J8A2R1AD	X	1.070	7.330	6.360	6.260	5.290	0.8450	15.50	84.50	100807	1123	N	3.09 ✓	
15	H7J050139	J8A2T1AC		1.080	6.750	5.940	5.670	4.860	0.8571	14.29	85.71	100807	1124	N		
16	H7J050139	J8A201AC		1.100	7.220	6.590	6.120	5.490	0.8971	10.29	89.71	100807	1125	N		
17	H7J050139	J8A221AC		1.120	7.050	6.260	5.930	5.140	0.8668	13.32	86.68	100807	1126	N		
18	H7J050295	J8DH01AL		1.080	6.590	5.890	5.510	4.810	0.8730	12.70	87.30	100807	1127	N		
19	H7J050295	J8DJQ1AL		1.100	8.010	6.830	6.910	5.730	0.8292	17.08	82.92	100807	1128	N		
20	H7J050295	J8DJ91AL		1.090	7.350	6.620	6.260	5.530	0.8834	11.66	88.34	100807	1129	N		
21	H7J050295	J8DKW1AL		1.100	7.380	6.290	6.280	5.190	0.8264	17.36	82.64	100807	1130	N		
22																
23																
24																
25																

NOTES:

Sample Wet Weight, g = Gross Wet Weight (g) - Pan Weight (g)
 Sample Dry Weight, g = Gross Dry Weight (g) - Pan Weight (g)
 Dryness Factor = Dry Weight (g) / Wet Weight (g)
 Percent Moisture = ((Wet Weight (g) - Dry Weight (g)) / Wet Weight (g)) x 100
 Percent Solids = (Dry Weight (g) / Wet Weight (g)) x 100

Sample Receipt Documentation

STL Knoxville

5815 Middlebrook Pike • Knoxville, TN 37921-5947
 Phone: (865) 291-3000 • Fax: (865) 584-4315
 Receiving: (865) 291-3031

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No. _____
 Page 1 of 1

1475050295

Project Name/No. ¹ Carus Chemicals / FR 1347
 Sample Team Members ² EE, BB
 Profit Center No. ³ 1234
 Project Manager ⁴ Linda M.
 Purchase Order No. ⁵ FR1347
 Required Report Date ¹¹ _____

Samples Shipment Date ⁷ 10/4/07
 Lab Destination ⁸ STL Knoxville
 Lab Contact ⁹ Linda M.
 Project Contact / Phone ¹² B Bodine 312-658-0500
 Carrier / Waybill No. ¹³ 8881 3755 0782

Bill to: ⁵ Geosyntec Consultants
Attn: Nandria Weeks
2258 Riverside Avenue
Jacksonville, FL 32204
 Report to: ¹⁰ Geosyntec Consultants
Attn: Nandria Weeks
2258 Riverside Avenue
Jacksonville, FL 32204

ONE CONTAINER PER LINE

Sample Number ¹⁴	Sample Type ¹⁵	Date/Time Collected ¹⁶	Container Type ¹⁷	Sample Volume ¹⁸	Pre-servative ¹⁹	Requested Testing Program ²⁰	Condition on Receipt Lab use only ²¹
OU1-SS-SB316-0-1	Grab/Soil	1200/10/3	WM Jar Glass	120ML	None	Metals SEP	Custody seals intact <input checked="" type="radio"/> N NA
OU1-SS-SB318-2-4	"	1320/10/3	"	"	"	Metals SEP	Temperature received at <u>16°C</u>
OU1-SS-SB318-2-4 ^{3B}	"	1515/10/3	"	"	"	Metals SEP	Received by <u>RH</u> Date <u>10/5/07</u>
OU1-SS-SB311-0-1 ^{BB}	"	1545/10/3	"	"	"	Metals SEP	Number of packages <u>1</u>
							Tracking # <u>858137550782</u>

Special Instructions: ²³

Possible Hazard Identification: ²⁴
 Non-Hazard Flammable Skin Irritant Poison B Unknown
 Sample Disposal: ²⁵
 Return to Client Disposal by Lab Archive (mos.)

Turnaround Time Required: ²⁶
 Normal Rush
 QC Level: ²⁷
 I. II. III. Project Specific (specify):

1. Relinquished by ²⁸ Brad Bodine/Geosyntec Date: 10/4/07
 (Signature / Affiliation) Time: 0830

1. Received by ²⁸ Ryan Henry Date: 10/5/07
 (Signature / Affiliation) Time: 1000

1. Relinquished by
 (Signature / Affiliation) Date: _____
 Time: _____

1. Received by
 (Signature / Affiliation) Date: _____
 Time: _____

Comments: ²⁹

WRITE: 10 accompany samples

YELLOW: Field copy

STL KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: _____ Project: _____ Lot Number: H7J050295

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)		✓		<input checked="" type="checkbox"/> 1a Do not match COC <input type="checkbox"/> 1b Incomplete information <input type="checkbox"/> 1c Marking smeared <input type="checkbox"/> 1d Label torn <input type="checkbox"/> 1e No label <input type="checkbox"/> 1f COC not received <input type="checkbox"/> 1g Other:	<u>2b - RECEIVED AT 16°C</u> <u>1a - COC HAS OUI-SS-SB311-0-1</u> <u>SAMPLE LABEL HAS OUI-SS-SS311-0-1</u>
2. Is the cooler temperature within limits? (> freezing temp. of water to 6°C; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6°C)		✓		<input type="checkbox"/> 2a Temp Blank = _____ <input checked="" type="checkbox"/> 2b Cooler Temp = <u>16°C</u>	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	<input type="checkbox"/> 3a Sample preservative = _____	
4. Were custody seals present/intact on cooler and/or containers?	✓			<input type="checkbox"/> 4a Not present <input type="checkbox"/> 4b Not intact <input type="checkbox"/> 4c Other:	
5. Were all of the samples listed on the COC received?	✓			<input type="checkbox"/> 5a Samples received-not on COC <input type="checkbox"/> 5b Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			<input type="checkbox"/> 6a Leaking <input type="checkbox"/> 6b Broken	
7. Were VOA samples received without headspace?			✓	<input type="checkbox"/> 7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			<input type="checkbox"/> 8a Improper container	
9. Did you check for residual chlorine, if necessary?			✓	<input type="checkbox"/> 9a Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			<input type="checkbox"/> 10a Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	<input type="checkbox"/> Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
13. Are the shipping containers intact?	✓			<input type="checkbox"/> 13a Leaking <input type="checkbox"/> 13b Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	✓			<input type="checkbox"/> 14a Not relinquished	
15. Are tests/parameters listed for each sample?	✓			<input type="checkbox"/> 15a Incomplete information	
16. Is the matrix of the samples noted?	✓			<input type="checkbox"/> 15a Incomplete information	
17. Is the date/time of sample collection noted?	✓			<input type="checkbox"/> 15a Incomplete information	
18. Is the client and project name/# identified?	✓			<input type="checkbox"/> 15a Incomplete information	
19. Was the sampler identified on the COC?	✓				

Quote #: 76168 PM Instructions: _____

Sample Receiving Associate: Ryan Henry Date: 10/5/07